

Fort Ord HTW BCT Meeting – Operable Unit 1 (OU-1) On-Post

Fort Ord HTW BCT Meeting
10:00 AM, 26 June 2009
Monterey, California

MEETING MINUTES (prepared by HydroGeoLogic, Inc.)

1. Groundwater Remediation System Update

The Northwest Treatment System (NWTS) has operated nearly continuously with more than 98% uptime since the last update at the BCT meeting on 19 May 2009. Extraction wells EW-OU1-63-A and MW-OU1-46-AD were returned to service on 04 June 2009. After approximately 12 hours of full operation into the early morning on 05 June 2009, the filter bags clogged and the system automatically shut down. EW-OU1-63-A was pumping at less than 1 gallon per minute (gpm) and MW-OU1-46-AD at approximately 25 gpm, consequently this occurrence is taken as conclusive evidence that suspended particles from MW-OU1-46-AD were responsible for the shutdown. It is assumed the fine particles from MW-OU1-46-AD have also been primarily responsible for previous shutdowns due to clogged filter bags – this assumption is consistent with the operating history of the NWTS to date. The filter bags were replaced later in the day on 05 June 2009 and all wells were returned to service; the system has operated continuously since then.

The flow controller for the injection pump was replaced on 19 May 2009 and treated water has been distributed as before among the northwest infiltration trench, the grassland infiltration trench and IW-OU1-74-A since that time.

Total volume pumped through 25 June 2009 is 98,360,110 gallons. The average weekly treatment rate has been approximately 74 gpm since the last BCT meeting on 19 May 2009. Through 24 June 2009, the NWTS has removed approximately 3.3 pounds (0.27 gallons) of trichloroethene (TCE) and 0.3 pounds (0.03 gallons) of cis-1,2-dichloroethene.

The routine bimonthly performance samples from the treatment system and extraction wells were collected on 11 June 2009. Preliminary results have not yet been received. Previous results are summarized in Table 1. The next round of performance samples will be collected in September 2009.

2. Long-term Monitoring Update

The next long-term monitoring (LTM) sample event is scheduled for September 2009. Peak TCE concentrations have continued to decline. The maximum TCE concentration reported in the first quarter 2009 LTM event was 10 micrograms per liter at well EW-OU1-53-A. The first quarter 2009 LTM analytical results are shown in the attached Figure 7 from the First Quarter 2009 Groundwater Monitoring Report.

3. Report Submittals

The Draft 2008 Annual and Fourth Quarter Groundwater Monitoring Report was submitted on 06 May 2009. The First Quarter 2009 Groundwater Monitoring Report is in preparation and was submitted on 22 June. The Draft Final FONR System Construction Report (primary deliverable) was submitted on 28 May 2009.

The 2008 First Quarter and 2007 Annual and Fourth Quarter Groundwater Monitoring Reports are in preparation and planned for submittal in July. These reports are secondary deliverables. The Draft Final FONR System Construction Report (primary deliverable) will be submitted this month.

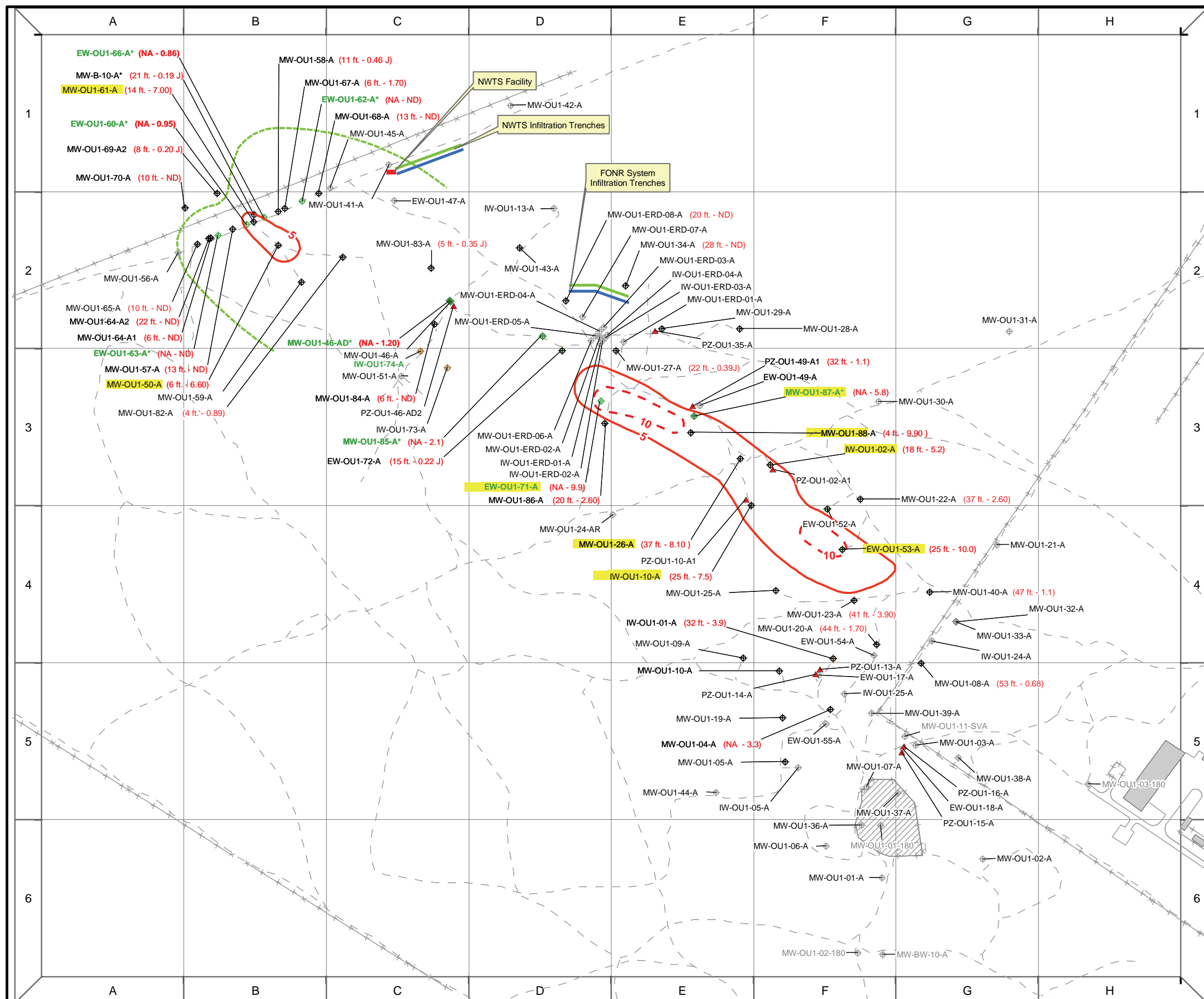
The DTSC comments on the Final Interim Hydraulic Control Pilot Project Evaluation Report have been resolved. A letter indicating that that no further edits are needed and corrected cover pages will be submitted.

4. Other

Attendees are shown in Attachment A.

Table 1																
TCE and Cis-1,2-DCE in OU-1 FONR Groundwater Remediation System - Performance Monitoring																
BCT Meeting for Former Fort Ord, Marina CA - 26 June 2009																
Sample Date	Extraction Well								NWTS							
	Began Operation October 2007				Began Operation July 2006				INFLUENT	MIDPOINT	EFFLUENT					
	MW-87	EW-71	MW-85	MW-46AD	EW-60	EW-62	EW-63	EW-66								
TCE (µg/L)																
11/9/2007	16	13	19	14	ND	ND	ND	1.7	11	ND	ND	ND	ND	ND	ND	ND
1/18/2008	11	11	8.9	8.2	ND	ND	ND	1.2	6.0	ND	ND	ND	ND	ND	ND	ND
3/18/2008	11	14	6.7	5.8	0.29	ND	ND	1.5	5.6	ND	ND	ND	ND	ND	ND	ND
5/27/2008	9.7	18	2.5	6.1	ND	ND	ND	1.8	3.9	ND	ND	ND	ND	ND	ND	ND
7/21/2008	9.1	14	4.4	3.4	0.78	ND	ND	1.4	3.6	ND	ND	ND	ND	ND	ND	ND
9/29/2008	9.3	J 15	J 4.3	J 2.9	J 0.90	J ND	J ND	J 1.7	J 3.8	J 0.19	J ND	J ND	J ND	J ND	J ND	J ND
12/1/2008	5.8	11	2.6	1.6	0.82	ND	ND	0.91	2.7	0.35	J ND	J ND	J ND	J ND	J ND	J ND
1/26/2009	5.9	10	2.2	1.2	0.48	J ND	J ND	0.78	2.4	ND	ND	ND	ND	ND	ND	ND
3/9/2009	5.8	9.9	2.1	1.2	0.95	ND	ND	0.86	2.7	ND	ND	ND	ND	ND	ND	ND
cis-1,2-DCE (µg/L)																
11/9/2007	1.9	1.6	2.3	1.70	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND
1/18/2008	1.20	1.40	1.00	1.20	ND	ND	ND	0.11	0.66	ND	ND	ND	ND	ND	ND	ND
3/18/2008	1.20	1.50	0.74	0.63	ND	ND	ND	ND	0.59	0.11	ND	ND	ND	ND	ND	ND
5/27/2008	0.88	2.10	0.26	0.74	ND	ND	ND	ND	0.36	0.21	ND	ND	ND	ND	ND	ND
7/21/2008	0.80	1.50	0.52	0.37	ND	ND	ND	ND	0.41	0.34	ND	ND	ND	ND	ND	ND
9/29/2008	0.99	1.60	0.54	0.30	ND	ND	ND	0.13	0.42	0.42	0.12	ND	ND	ND	ND	ND
12/1/2008	0.67	1.30	0.33	0.21	J ND	J ND	J ND	J ND	0.27	J 0.37	J 0.19	J ND	J ND	J ND	J ND	J ND
1/26/2009	0.63	1.20	0.29	J 0.12	J ND	J ND	J ND	J ND	0.26	J 0.24	J ND	J ND	J ND	J ND	J ND	J ND
3/9/2009	0.62	1.20	0.29	J 0.13	J ND	J ND	J ND	J ND	0.23	J 0.26	J ND	J ND	J ND	J ND	J ND	J ND
Bold font indicates concentration > ACL																

Figure 7
OU-1 FONR
TCE Concentrations in Groundwater
March 2009



Legend

- ⊕ Monitoring Well
- ⊕ Extraction Well
- ⊕ Bold green font indicates active well.
- ⊕ Injection Well
- ⊕ Bold green font indicates active well.
- ⊕ Well Not Sampled
- ▲ Piezometer
- MW-OU1-87-A Locations With March 2009 TCE Concentration At Or Above ACL (5 µg/L)
- 5- TCE Contour (µg/L) Based on March 2009 Data
- - - Inferred Extent - See Notes Below
- MW-OU1-87-A Well ID
- (42 ft. - 9.30) March 2009 TCE Result (µg/L)
- Sample Elevation (feet above mean sea level)
- - - Trail/Unimproved Road
- ××× Fence
- - - Estimated Northwest Treatment System Capture Zone
- ▨ Former Fire Drill Area

Notes:
 Units of TCE concentrations are in ppb
 ND = Non-detect
 NA = Depth is not applicable - sample is from pumping well
 J = Estimated Value
 µg/L = Micrograms per liter
 Wells shown with an asterisk were not used to develop contour boundaries. Active extraction wells were typically not included because the data is not location-specific. Data from extraction well EW-OU1-71-A was used to infer the 10 µg/L TCE contour (shown as dashed line) because the results at that well (9.9 µg/L) and at MW-OU1-88-A (also 9.9 µg/L) suggest higher TCE concentrations in that vicinity. The TCE concentration at EW-OU1-53-A was 10 µg/L and nearby well data was less than 10 µg/L. Consequently, the 10 µg/L contour enclosing well EW-OU1-53-A was also dashed because the extent is inferred from recent results. Data from MW-B-10-A was excluded because the well does not fully penetrate the A-Aquifer. Well names appearing in gray were not included in OU1-Groundwater Monitoring Program. Wells for which no data are posted were not sampled.



ATTACHMENT A
ATTENDANCE LIST

SUBJECT: HTW - BCT Meeting**June 26, 2009****10:00 BRAC Conference Room**

Check (✓)	Name	Organization	Phone	E-mail address
Phoe	Kate Burger	DTSC	916/255-6537	kburger@dtsc.ca.gov
(JD)	Franklin Mark	DTSC	916/255-3584	FMark@dtsc.ca.gov
MA	Martin Hausladen	U.S. EPA	415/972-3007	Hausladen.martin@epamail.epa.gov
JLM	Lewis Mitani	U.S. EPA	415/972-3032	Mitani.lewis@epa.gov
DBH	Grant Himebaugh	RWQCB	805/542-4636	Ghimebaugh@waterboards.ca.gov
WMM	Bill Mabey	TechLaw Inc	415/281-8730	bmabey@techlawinc.com
Yey	Gail Youngblood	Fort Ord BRAC	831/242-7918	gail.youngblood@us.army.mil
DJL	Derek Lieberman	Ahtna	831/242-4873	dlieberman@ahтнаes.com
WKC	Bill Collins	Fort Ord BRAC	831/242-7920	William.K.Collins@us.army.mil
RA	Rob Robinson	Fort Ord BRAC	831/242-7900	clinton.w.robinson@us.army.mil
	George Siller	COE	916/557-7418	George.L.Siller@usace.army.mil
DE	David Eisen	COE	831/393-9692	David.Eisen@usace.army.mil

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Check (✓)	Name	Organization	Phone	E-mail address
	Mark Eldridge	AEC	410/436-6325	Mark.h.eldridge@us.army.mil
<i>PK</i>	Peter Kelsall	Shaw E&I	831/883-5810 ext. 810	Peter.Kelsall@shawgrp.com
<i>DK</i>	David Kelly	Shaw E&I	925/288-2321	David.kelly@shawgrp.com
<i>JM</i>	Jen Moser	GEM/Shaw E&I	831/883-5812	Jen.moser@shawgrp.com
	Eric Schmidt	Shaw E&I	831/883-5809	Eric.Schmidt@shawgrp.com
<i>ET</i>	Ed Ticken	MACTEC E&C	707/793-3882	ejticken@mactec.com
	Marc Edwards	COE	831/242-4828	Marc.A.Edwards@usace.army.mil
	Michael Taraszki	MACTEC E&C	510/628-3222	mdtaraski@mactec.com
	Chuck Holman	Ahtna	916/372-2000	cholman@ahtnagov.com
	Kelly O'Meara	Ahtna	916/372-2000	komeara@ahtnaes.com
	Christopher Prescott	USACE	916/557-7227	Christopher.E.Prescott@usace.army.mil
	Melissa Broadston	Fort Ord BRAC	831/393-1284	Melissa.broadston@us.army.mil
	Roy Evans	HGL	303/984-1167 xt. 5	revans@hgl.com
<i>MS</i>	Mary Snow	TechLaw	415 281 8730	msnow@techlawinc.com

