

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

Fort Ord HTW BCT Meeting
1:00 PM, 14 October 2008
Santa Rosa, California

MEETING MINUTES (prepared by HydroGeoLogic, Inc.)

1. Groundwater Remediation System Update

The Northwest Treatment System (NWTS) has operated continuously since last update on 18 September 2008, (summary table and charts attached). Total volume pumped through 06 October 2008 is 68,804,400 gallons. The average treatment rate over the last four weeks has been 90.9 gallons per minute.

The routine bimonthly performance samples from the treatment system and extraction wells were collected on 29 September 2008. Validated results are not yet available. The preliminary analytical results from the July 2008 sampling were reported previously and are summarized below:

- The system influent trichloroethene (TCE) concentration decreased slightly to 3.6 micrograms per liter ($\mu\text{g/L}$) down from 3.9 $\mu\text{g/L}$ in May 2008.
- The system influent cis-1,2-dichloroethene (DCE) concentration increased slightly to 0.41 $\mu\text{g/L}$ up from 0.36 $\mu\text{g/L}$ in May 2008.
- The system effluent concentrations were below detection limit for all ten compounds monitored.
- The TCE at individual extraction wells (except MW-OU1-85-A) and system influent slightly lower than the previous sample in May 2008; MW-OU1-85-A increased from 2.5 to 4.4 parts per billion.
- All extraction wells showed TCE concentrations less than 5.0 $\mu\text{g/L}$ except the two wells located in the central portion of the plume: MW-OU1-87-A (9.1 $\mu\text{g/L}$) and EW-OU1-71-A (14 $\mu\text{g/L}$).

2. Long-term Monitoring Update

The third quarter samples, including annually sampled wells, were collected during the period from 29 September through 02 October 2008. The bimonthly system performance samples were collected on 29 September 2008.

3. NWTS Operation Relative to Carbon Change-out

HGL submitted a letter to the U.S. Army that summarized the agreement reached at the September BCT meeting concerning the criteria for carbon change-out based on cis-1,2-DCE concentrations in the performance sample routinely collected at the mid-point of the granular activated carbon (GAC) process (i.e., as influent to the lag vessels). As agreed, the carbon will be changed if the TCE concentration in the mid-point sample exceeds 0.5 $\mu\text{g/L}$ or if the cis-1,2-DCE concentration exceeds 3.0 $\mu\text{g/L}$.

4. Other

Attendees are shown in Attachment A.

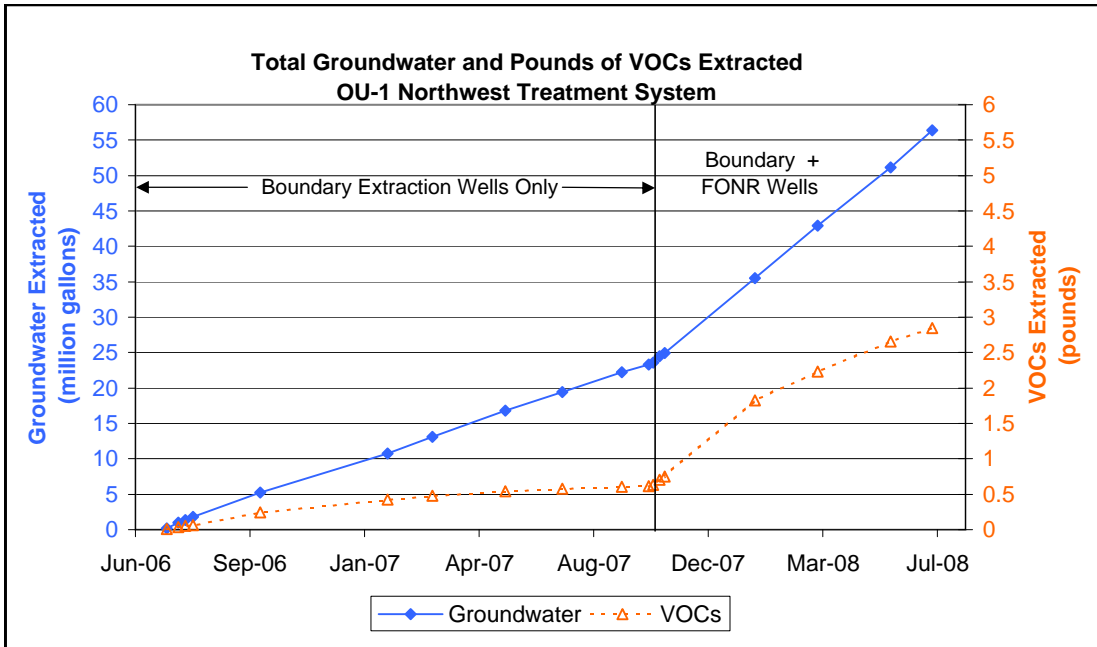
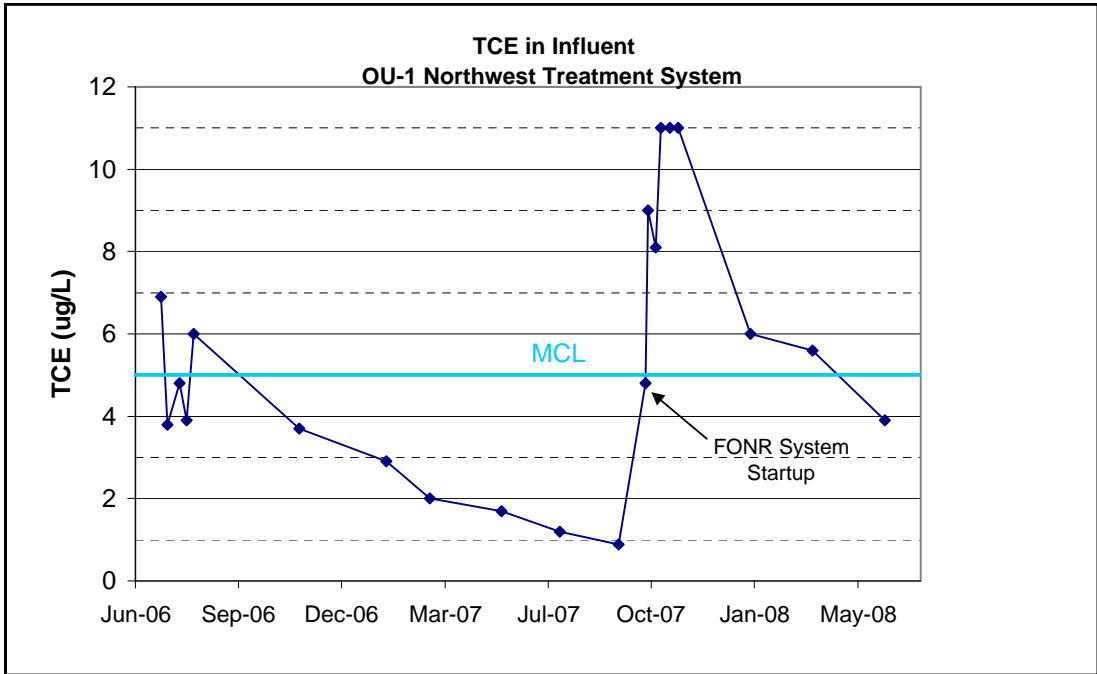
Fort Ord OU-1
Northwest Treatment System Operational Summary
July 10, 2008 BCT Meeting

Date	Influent TCE Concentration (µg/L)	Volume Treated (gal)	Mass Removed (lb)
6/27/06-7/1/06	6.90	190,000	0.011
7/2/06-7/12/06	3.80	781,680	0.025
7/13/06-7/19/06	4.80	425,980	0.017
7/20/06-7/26/06	3.90	371,170	0.012
7/27/06-9/29/06	6.00	3,497,030	0.175
9/30/06-1/29/07	3.70	5,514,470	0.170
1/30/07-3/13/07	2.90	2,351,090	0.057
3/13/07-5/22/07	2.00	3,698,570	0.062
5/23/07-7/16/07	1.70	2,571,340	0.037
7/17/07-9/11/07	1.20	2,833,230	0.028
9/12/07-10/07/07	0.88	1,035,270	0.008
10/8/07-10/11/07	4.80	345,910	0.014
10/12/07-10/17/07	9.00	897,440	0.067
10/18/07-10/22/07	8.10	468,080	0.032
10/23/01-1/17/08	11.00	10,520,280	0.966
1/18/08-3/17/08	6.00	7,379,340	0.370
3/18/08 - 5/26/08	5.60	8,224,750	0.385
5/27/08 - 7/5/08	3.90	5,312,810	0.173
7/6/08 - 9/29/08	3.70	11,489,910	0.355
Total Volume Pumped (gal)			56,418,440
Total Mass Removed (lb)			2.96
Average Pumping Rate (gpm)			54.01

unvalidated

Date	Influent Cis-1,2-DCE Concentration	Volume Treated (gal)	Mass Removed (lb)
6/27/06-7/1/06	0.00	190,000	0.000
7/2/06-7/12/06	0.00	781,680	0.000
7/13/06-7/19/06	0.00	425,980	0.000
7/20/06-7/26/06	0.00	371,170	0.000
7/27/06-9/29/06	0.00	3,497,030	0.000
9/30/06-1/29/07	0.15	5,514,470	0.007
1/30/07-3/13/07	0.16	2,351,090	0.003
3/13/07-5/22/07	0.10	3,698,570	0.003
5/23/07-7/16/07	0.00	2,571,340	0.000
7/17/07-9/11/07	0.00	2,833,230	0.000
9/12/07-10/07/07	0.00	1,035,270	0.000
10/8/07-10/11/07	0.00	345,910	0.000
10/12/07-10/17/07	0.68	897,440	0.005
10/18/07-10/22/07	0.97	468,080	0.004
10/23/01-11/1/07	1.70	1,148,980	0.016
11/1/07 - 1/17/07	1.30	9,371,300	0.102
1/18/08-3/17/08	0.66	7,379,340	0.041
3/18/08 - 5/26/08	0.59	8,224,750	0.041
5/26/08 - 7/5/08	0.36	5,312,810	0.016
Total Mass Removed (lb)			0.24

Date	Influent Totalizer FI-131 Reading	Gallons since previous reading	Average Rate (gpm)	%Uptime
6/16/2008	53910800	1,000,650	101.2	100
6/23/2008	54960550	1,049,750	100.5	100
6/30/2008	55908550	948,000	98.8	100
7/5/2008	56418440	509,890	67.4	59
Period Total Gallons Treated			2,998,400	
Period Average Pumping Rate (gallons per minute)			80.0	
Period % Uptime			91.7	



ATTACHMENT A
ATTENDANCE LIST

SUBJECT: HTW - BCT Meeting
October 14, 2008
1:00 p.m., Santa Rosa, CA

Check (✓)	Name	Organization	Phone	E-mail address
	Kate Burger	DTSC	916/255-6537	kburger@dtsc.ca.gov
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✓	Martin Hausladen	U.S. EPA	415/972-3007	Hausladen.martin@epamail.epa.gov
	Lewis Mitani	U.S. EPA	415/972-3032	Mitani.lewis@epa.gov
	Grant Himebaugh	RWQCB	805/542-4636	Ghimebaugh@waterboards.ca.gov
	Bill Mabey	TechLaw Inc	415/281-8730	bmabey@techlawinc.com
	Gail Youngblood	Fort Ord BRAC	831/242-7918	gail.youngblood@us.army.mil
	Derek Lieberman	Ahtna	831/242-4873	dlieberman@ahtnagov.com
	Bill Collins	Fort Ord BRAC	831/242-7920	William.K.Collins@us.army.mil
	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
	David Eisen	COE	831/393-9692	David.Eisen@usace.army.mil

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1:00 p.m., Santa Rosa, CA

John Chesnut

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(✓)

	Name	Organization	Phone	E-mail address
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	Eric Schmidt	Shaw E&I	831/883-5809	Eric.Schmidt@shawgrp.com
	Ed Ticken	MACTEC E&C	415/884-3176	ejticken@mactec.com
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	Christopher Prescott	USACE		Christopher.E.Prescott@usace.army.mil
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Marty