

**HTW BCT Meeting**

February 2009

<b>Item</b>	<b>Action</b>	<b>Comment</b>
OU1 Groundwater Remediation	Status Update	HGL
OU1 Off-Site	Status Update	
OU2 and 2/12 Treatment Systems	Status Update	
Other Groundwater Issues	Status Update	Quarterly sampling
OUCTP	Status Update	RD/RA Work Plan
Groundwater Treatment System Optimization	Status Update	
OU2 Landfill	Status Update	
Basewide Range Assessment	Status Update	
Site 39 FS Addendum/ROD	Status Update	
FFA Schedule	Status Update	
FOST/FOSET Issues	Status Update	
Calendar Update	Update	

**SUBJECT: HTW – BCT Meeting**  
**February 18, 2009**  
**1:00 p.m Fort Ord BRAC office**

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# Optimization Status Update 02-18-09

## Recently completed:

- Site 12 GWTP communications – local touch screen interface
- Relocation of OU2 GWTP influent sample port
- New paddle wheel flow meters for OU2 infiltration galleries

## In progress:

- Variable Frequency Drives (VFDs) on 5 wells – EW-12-07-180, EW-OU2-02-180, EW-OU2-03-180, EW-OU2-05-180 and EW-OU2-06-180
- Wireless communications upgrades between GWTPs and EW networks (unlicensed point to point microwave radio links).
- Site 12 GWTP effluent and OU2 excess pipeline actuated valves
- Relocate isolation valves and install expansion joints at Site 2 injection and OU2 injection/infiltration vaults

## Annual Evaluation Report

- Air stripper performance
- Extraction well performance
- Capture analysis
- Recommendations for operational modifications

## Modeling

- Evaluate various extraction well operational configurations to optimize capture and mass removal





## Former Fort Ord Groundwater Treatment Systems Operational Data and Status BCT Meeting, February 18, 2009

**Table 1:** OU2 and Sites 2/12 GWTP Treatment Statistics.

	Volume Treated (gallons)	Average Flow (gallons per minute)	Percent of Time Online	COC Mass Removed (lbs)
<b>OU2</b>				
January 2009	24,308,840	545	100	2.45
Total since October 1995	4.414 billion			611.45
<b>Sites 2/12</b>				
January 2009	6,920,200	155	97	0.87
Total since May 1999	1.176 billion			408.87

**Table 2:** OU2 and Sites 2/12 GWTP Calendar of events.

Key Events for OU2 and Sites 2/12 for January 2009						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
*18 USAN Notices in January. None of these alerts required the personal attention of the Senior GWTP Operator.				1	2	3
4	5	6	7	8	9	10
11	12	13 New motor installed in injection pump 520.	14 New isolation valve and totalizer meter installed in NW infiltration vault.	15 New isolation valve and totalizer meter installed in SW infiltration vault.	16	17
18	19 New carbon put into GAC vessels C and D. Plant returned to normal flow.	20	21	22	23	24
25	26	27	28	29 New isolation valve and expansion joint installed in total injection vault.	30	31

**Table 3: January 2009 OU2 Analytical Results at TS-OU2-INJ.**

COC	Discharge Limit (µg/L)‡	Sample Date / Analytical Results		
		01/15/2009	01/21/2009	01/29/2009**
1,1-DCA	5.0*	1.3	0.43 J	0.31 J
1,2-DCA	0.5	0.30 J	0.11 J	ND
1,2-DCP †	0.5	ND	ND	ND
Benzene	0.5	ND	ND	ND
Carbon Tetrachloride	0.5	ND	ND	ND
Chloroform	2.0*	0.61	0.21 J	0.14 J
Cis-1,2-DCE	6.0*	1.4	0.57	0.38 J
Methylene Chloride	0.5	(12) U	ND	ND
PCE	0.5	ND	ND	ND
TCE	0.5	0.38 J	0.12 J+	ND
Vinyl Chloride	0.5	ND	ND	ND

**Table 4: January 2009 Sites 2/12 Analytical Results at TS-212-INJ.**

COC	Discharge Limit (µg/L)‡	Sample Date / Analytical Results
		01/15/2009
1,1-DCE	6	ND
1,2-DCA	0.5	0.24 J
1,3-DCP †	0.5	ND
Chloroform	2	0.54
Cis-1,2 DCE	6	1.2
PCE	3	ND
TCE	5	0.33 J
Vinyl Chloride	0.1	ND

NOTES:

- J The analyte was positively identified, but the associated numerical value is an approximate concentration greater than the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).
- ND The analyte was not detected above MDL.
- \* Discharge limits for low carbon affinity compounds were increased to the Aquifer Cleanup Level (ACL).
- ‡ Discharge limits are the ACLs for injection over the plume.
- † The reported value is the sum of both cis- and trans-isomers.
- \*\* Preliminary data; validation has not been completed.
- J± Data are qualified as estimated, with a high (+) or low (-) bias likely to have occurred. False positives or false negatives are unlikely to have been reported.
- U The analyte was not detected above the PQL (in parentheses) which is elevated due to blank contamination.



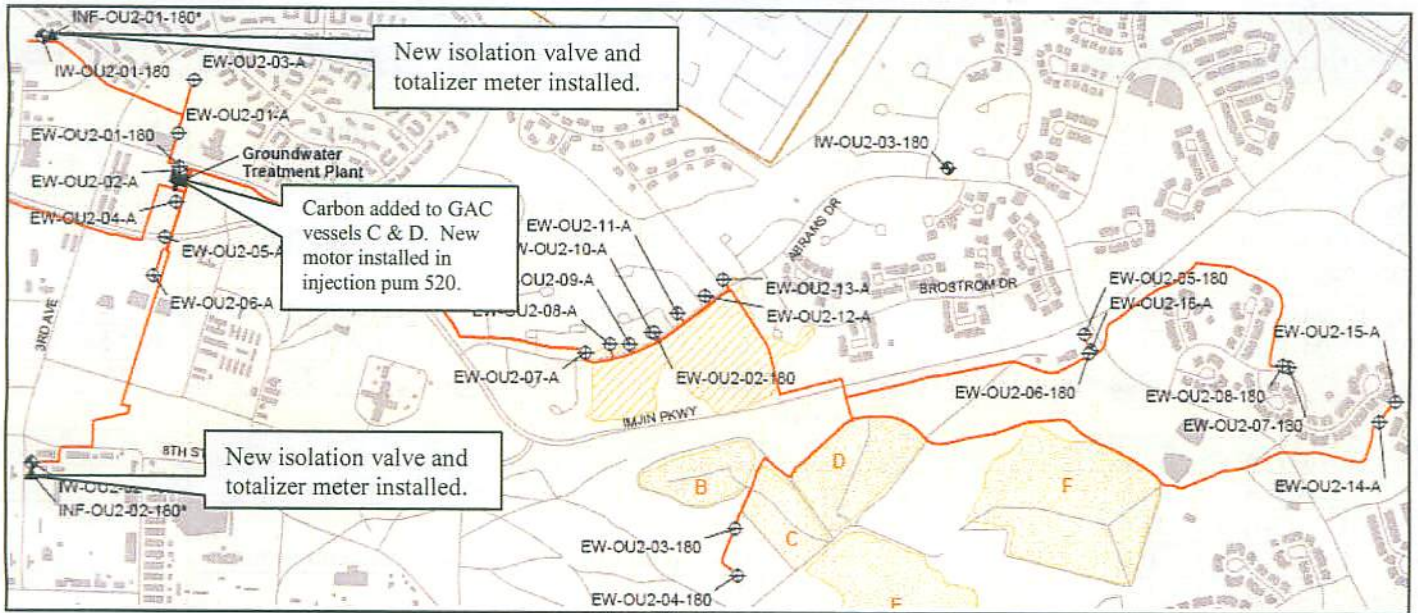


Figure 1: OU2 GWTP Treatment Events January 2009.

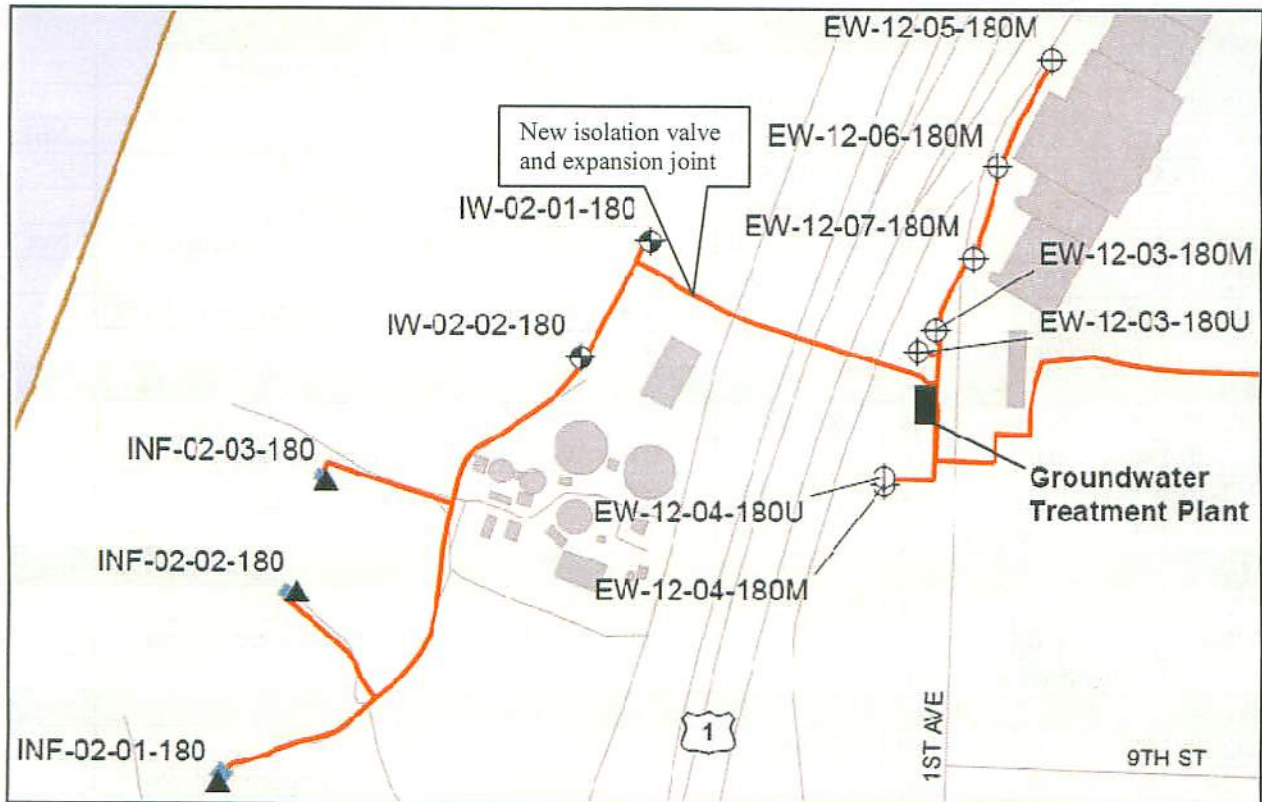


Figure 2: Sites 2/12 GWTP Treatment Events January 2009.





**Table 5:** January 2009 OU2 and Sites 2/12 Extraction Well Status.

Well Identification	% On	Avg. gpm	Total Gallons	% of Total	Comments	TCE (µg/L) Dec 08
<b>Site 12 Extraction Wells</b>						
EW-12-05-180M	0.0	0	0	0.0	Well offline due to pump failure.	Not Sampled
EW-12-06-180M	96.8	89.3	3,986,900	57.6		8.3
EW-12-07-180M	0.0	0	0	0.0	Well offline due to pump failure.	Not Sampled
EW-12-03-180U	0.1	0	0	0.0	Well offline due to low concentrations.	0.17
EW-12-03-180M	96.4	65.7	2,933,300	42.4		2.9
EW-12-04-180U	0.0	0	0	0.0	Well offline due to low concentrations.	0.95
EW-12-04-180M	0.0	0	0	0.0	Ceased operating on 11/21/2005.	Not Sampled
<i>Total 2/12 gallons treated:</i>			<b>6,920,200</b>	<b>100.0</b>		
<b>OU2 Extraction Wells</b>						
<i>Western Network</i>						
EW-OU2-01-A	0.0	0	0	0.0	Well offline due to low concentrations.	Not Sampled
EW-OU2-02-A	37.6	19.3	860,450	3.5		0.89
EW-OU2-03-A	0.0	0	0	0.0	Well offline due to low concentrations.	0.69
EW-OU2-04-A	39.7	19.5	871,900	3.6		1.5
EW-OU2-05-A	26.1	12.5	559,430	2.3		2.7
EW-OU2-06-A	96.8	35.3	1,577,680	6.5		5.3
EW-OU2-01-180	0.0	0	0	0.0	No pump in well.	7.8
<i>Total gallons extracted:</i>			<b>3,869,460</b>	<b>15.9</b>		
<i>Eastern Network</i>						
EW-OU2-07-A	0.0	0	0	0.0	Well offline due to low concentrations.	ND
EW-OU2-08-A	67.9	20.8	930,010	3.8		0.28
EW-OU2-09-A	0.0	0	0	0.0	Well offline due to pump failure.	Not Sampled
EW-OU2-10-A	100	22.7	1,014,510	4.2		4.5
EW-OU2-11-A	15.6	0.5	21,380	0.0	Low flow due to biofouling.	2.6
EW-OU2-12-A	0.0	0	0	0.0	Well offline due to area construction.	Not Sampled
EW-OU2-13-A	100	32.5	1,448,780	6.0		9.2
EW-OU2-02-180	0.0	0	0	0.0	Well offline pending installation of VFD.	2.4
<i>Total gallons extracted:</i>			<b>3,414,680</b>	<b>14.1</b>		
<i>Shoppette</i>						
EW-OU2-05-180	96.9	148.4	6,626,400	27.3		6.9
EW-OU2-06-180	0.0	0	0	0.0	Well offline due to pump failure.	Not Sampled
EW-OU2-16-A	100	19.2	858,600	3.5		9.1
<i>Total gallons extracted:</i>			<b>7,485,000</b>	<b>30.8</b>		
<i>CSUMB</i>						
EW-OU2-14-A	1.2	0.4	15,700	0.0		3.6
EW-OU2-15-A	0.0	0	0	0.0	Well offline due to low concentrations.	Not Sampled
<i>Total gallons extracted:</i>			<b>15,700</b>	<b>0.0</b>		
<i>Landfill</i>						
EW-OU2-03-180	98.0	159	7,096,000	29.2		18.6
EW-OU2-04-180	0	0	0	0	Well offline due to low concentrations.	ND
<i>Total gallons extracted:</i>			<b>7,096,000</b>	<b>29.2</b>		
<i>Bunker Hill</i>						
EW-OU2-08-180	99.7	54.4	2,428,000	10.0		0.82
<i>Total gallons extracted:</i>			<b>2,428,000</b>	<b>10.0</b>		
<i>Total OU2 gallons treated:</i>			<b>24,308,840</b>	<b>100.0</b>		

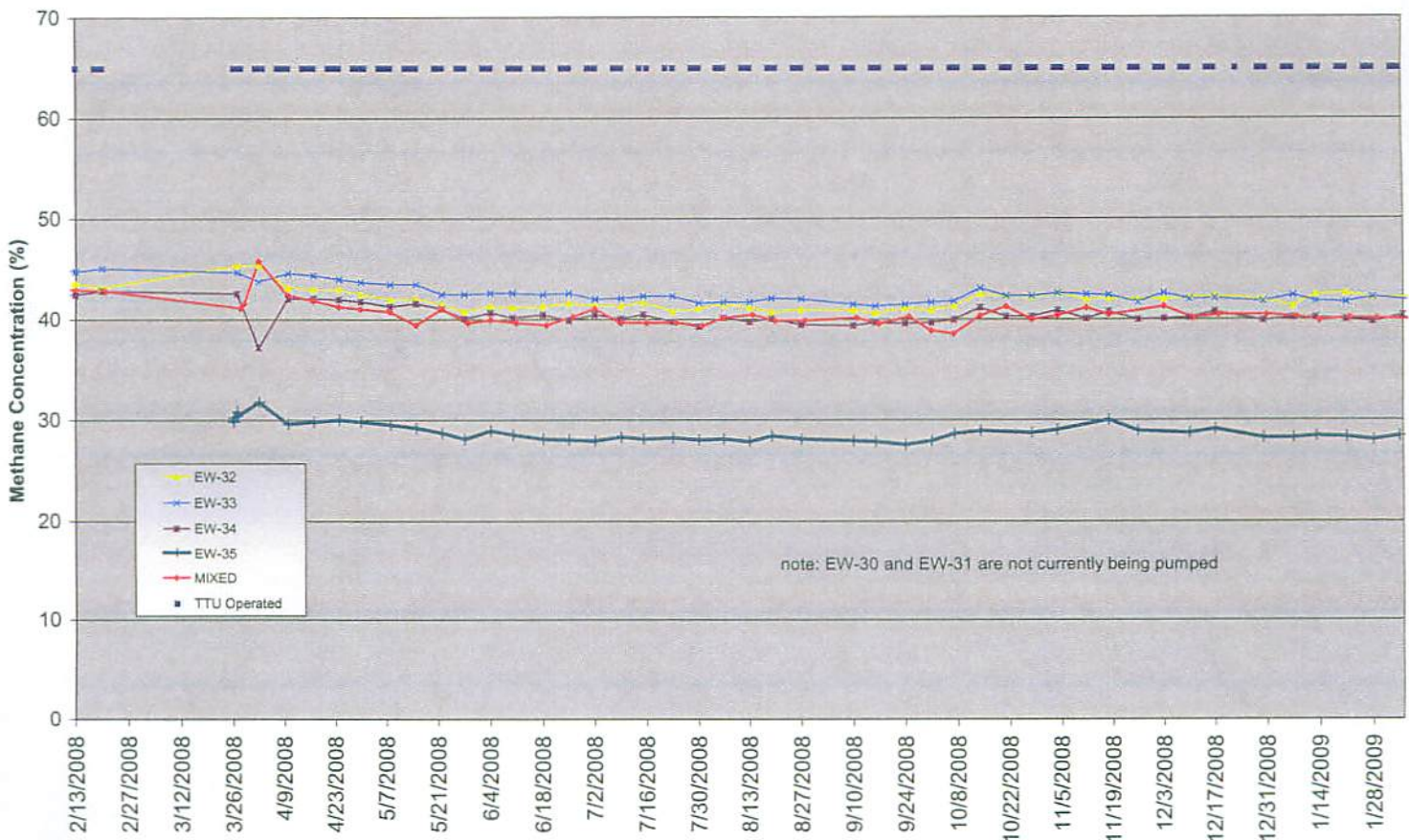


Thermal Treatment Unit  
Operation Summary  
2007/2008/2009

Start Date/Time:	4/4/2006
Last Reading Date/Time:	2/4/2009 16:30
Total Hours (2006):	6528
Total Hours Operated (2006):	2891.50
% Operation (2006):	44.3%
Total Hours (2007):	8760
Total Hours Operated (2007):	4035.4
% Operation (2007):	48.7%
Total Hours (2008):	8760
Total Hours Operated (2008):	2816.4
% Operation (2008):	32.2%
Total Hours (2009):	832.5
Total Hours Operated (2009):	289.2
% Operation (2009):	34.7%
Cumulative % Operation (since 4/4/2006):	40.3%

Pounds of Methane Removed (2007)	532135
Pounds of Methane Removed (2008)	286095
Pounds of Methane Removed (2009)	27520

Methane Concentration vs. Time  
(after 02-13-08)  
Interior Extraction Wells



# OPERABLE UNIT CARBON TETRACHLORIDE PLUME A-AQUIFER REMEDIAL ACTION

STATUS – February 17, 2009

## FIELD WORK

- Installation and development of wells at Areas 1A and 1B complete – January 16
- Well vault and pipeline installation in Preston Park parking lot complete - February 7

## SCHEDULE

- Subsequent quarterly monitoring for EISB pilot study conducted under Groundwater Monitoring Program.
- Preliminary Draft EISB Pilot Study Report (USACE Review) – February 13.
- Draft RA Work Plan/RD (Appendix A – A-Aquifer) – Comments received from DTSC, RWQCB, EPA, FOEJN, and UCSC.
- Preston Park Sports Complex shut down November 17 through February 7.
- Well vault and pipeline installation in Deployment Area 1B (soccer fields) ongoing.

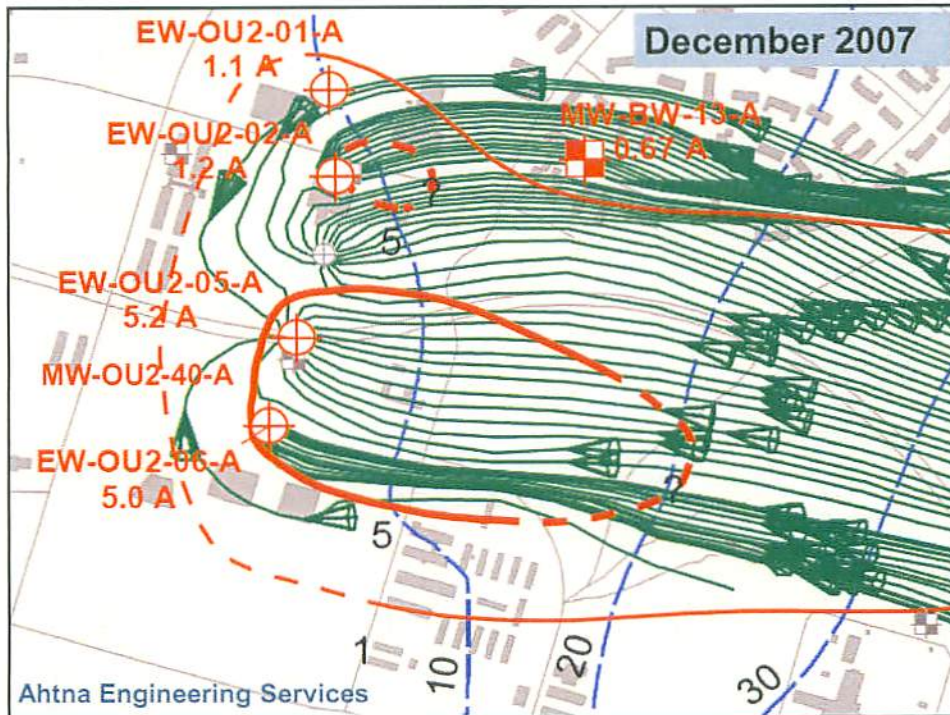
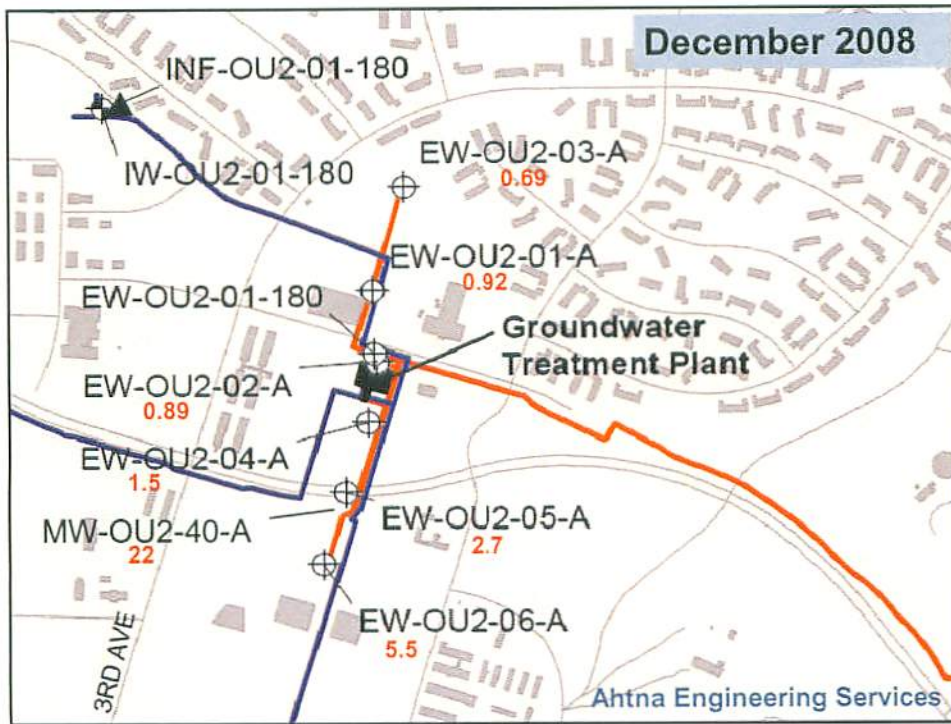
## DATA (Preliminary)

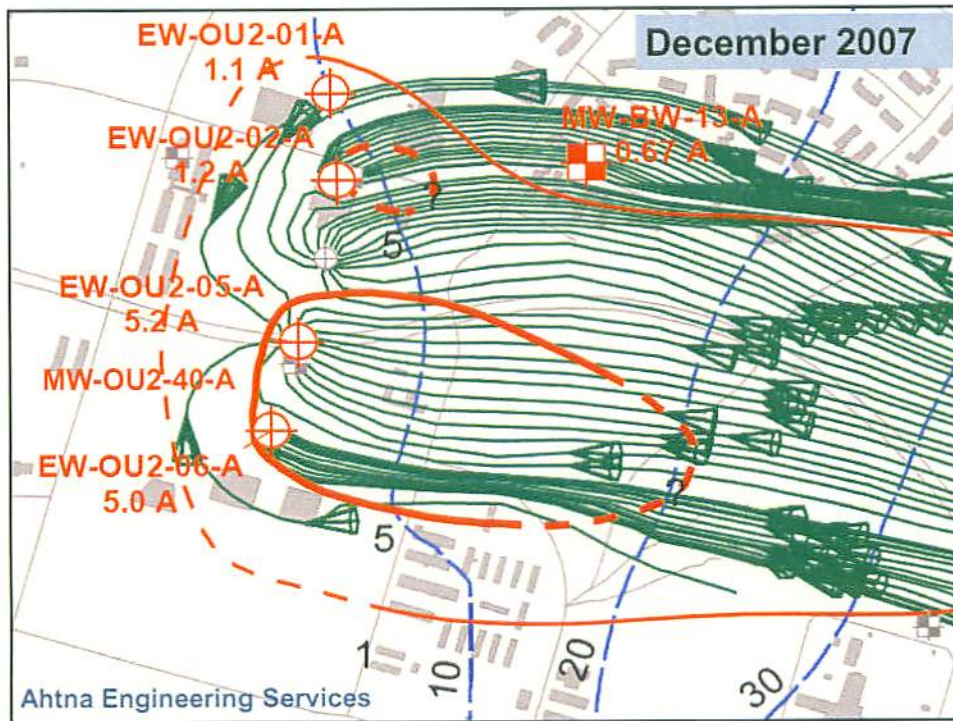
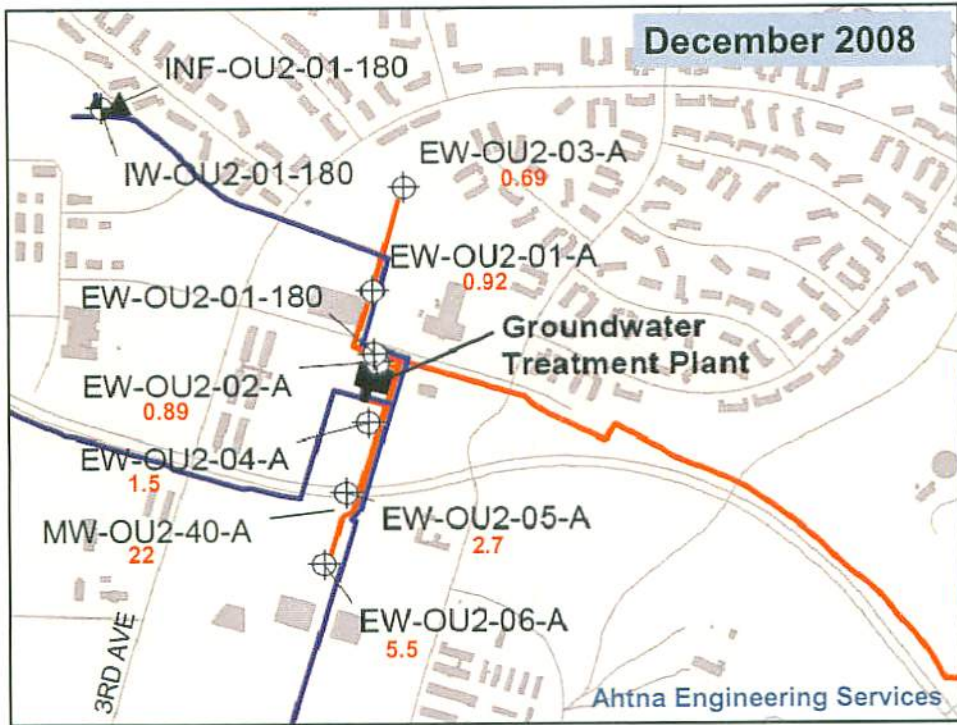
- None

## PROBLEMS/CHANGES

- Drill casing locked up while installing injection well IW-BW-90-A (Deployment Area 1A). Approximately 60 feet of drill casing was lost in the boring. Boring (with steel casing) was grouted to ground surface. New well was installed adjacent to proposed location.









**OPERABLE UNIT 1  
OFF-SITE GROUNDWATER EXTRACTION PILOT STUDY**

**STATUS – February 17, 2009**

**FIELD WORK**

- Well construction complete – December 21
  - 2 extraction wells
  - 3 monitoring wells
- Draft Final OU1 Pilot Study Work Plan distributed – April 22
- Baseline sampling and analysis – June 14
- System construction completed – July 16
- Monitoring well (City of Marina) installation – July 28
- System start-up – August 5
- Monitoring well (City of Marina) development – August 8
- System switched from generator to permanent power (MCWD) – August 13.
- Extraction Well EW-OU1-92-A shut off – December 11.
- July to September 2008, Quarterly Report Issued – January 20.
- Field Work Variance issued to document system shut-off – February 16.
- Groundwater extraction system shut off and rebound testing initiated – February 17.

**SCHEDULE**

- Preliminary Draft Quarterly Report, October to December (USACE review) – March.
- Quarterly sampling of monitoring wells – March 16.

**DATA (Preliminary)**

- January analytical results and operating summary.

**PROBLEMS/CHANGES**

- Treated groundwater is being discharged to a discharge basin within the MCWD property. An injection well was not installed.
- One monitoring well has been installed in the City of Marina to determine the downgradient extent of the plume. Well number and location is based on the decision criteria in the Draft Work Plan.
- Extraction Well EW-OU1-92-A shut off due to concerns of potential impact to OU1 On-Site GWETS plume capture.
- GWETS was shut off and rebound testing initiated because concentration of TCE in all off-site wells is below Aquifer Cleanup Goals.

## HGL AGENDA & NOTES

Fort Ord HTW BCT Meeting  
1:00 PM, 18 February 2009  
Monterey, California

### 1. Groundwater Remediation System Update

Northwest Treatment System (NWTS) has operated nearly continuously since last update on 12 November 2008. Total volume pumped through 09 February 2009 is 83,888.860 gallons. The average treatment rate over the last six weeks has been very stable and ranged between 83.0 gallons per minute and 83.5 gallons per minute. To date, the NWTS has removed approximately 3.3 pounds (0.27 gallons) of TCE and 0.3 pounds of cis-1,2-DCE.

The carbon in the lead GAC units was changed on 26 January 2009. The flow routing was reversed after the carbon change so that the former lagging GAC units are now in the lead and the vessels containing the newly placed carbon are now lagging (effluent).

The routine bi-monthly performance samples from the treatment system and extraction wells were collected on 26 January 2009. Validated results are not yet available. The preliminary analytical results are summarized below:

- System influent TCE concentration decreased to 2.4 µg/L (from 2.7 µg/L in December).
- System influent cis-1,2-DCE concentration was essentially unchanged at 0.26 µg/L (versus 0.27 µg/L in December).
- Cis-1,2-DCE was not detected in the system effluent nor were the other compounds of concern.
- TCE was not detected in the mid-point sample; cis-1,2-DCE was reported as 0.24 µg/L
- TCE concentrations at individual extraction wells are summarized as follows:
  - TCE concentrations decreased at all extraction wells (except MW-OU1-87-A) by approximately 10% to 45%
  - TCE at MW-OU1-87-A was stable, increasing by 0.1 µg/L to 5.9 µg/L
  - Cis-1,2-DCE concentrations were essentially unchanged. It declined at all wells but the maximum change from the previous sample was 0.10 µg/L.
- All extraction wells showed TCE concentrations  $\leq$  2.2 µg/L except the two wells located in the central portion of the plume: MW-87 (5.9 µg/L versus 5.8 µg/L in December) and EW-71 (10 µg/L versus 11 µg/L in previous sample). TCE concentrations reported in 2008 – 2009 for all extraction wells are summarized in Table 1.

The system has operated continuously since except for one automatic short-term shutdown (33 hours) from early Sunday morning (15 February) to Monday afternoon (16 February) because of high pressure in the bag filters. The injection pump was again off-line for an uncertain duration between 02 February and 09 February. All treated water was discharged to the NWTS infiltration trenches during that period.

A leak was discovered on 13 January 2009 at the flow measurement meter on EW-OU1-63-A (the westernmost extraction well on the northwest boundary). This well was shut down on 14 January 2009 and returned to service after repair on 02 February 2009. TCE has not been detected in this extraction well since September 2007.

It was reported in November that the late September groundwater elevations collected during the 3<sup>rd</sup> Quarter LTM showed a dramatic drop in water levels in some of the monitoring wells located on the northwest boundary of Former Fort Ord. Groundwater elevations have declined throughout the OU-1 area in a relatively



consistent manner over the last four years – typically 0.2 to 0.4 feet per quarter. However, those wells closest to the recently initiated off-Post GWETS expansion (~ 6 weeks before the groundwater measurements) showed water elevation declines of 1 to 2 feet during the third quarter. The wells showing the greatest declines were located on the Armstrong Ranch (MW-OU1-69-A2 and MW-OU1-70-A). After discussions with the Army pumping was subsequently suspended at the off-Post extraction well nearest to the NWTS.

The December groundwater elevations showed that water levels in the affected NWTS wells along the northwest boundary and on Armstrong Ranch (MW-OU1-69-A2 and MW-OU1-70-A) have begun to recover since the nearby off-Post extraction well was taken off-line. Although groundwater elevations continued their long-term decline across the OU-1 portion of the FONR, groundwater actually rose since the September measurement in each of the affected NWTS wells. It is expected that the off-Post extraction well will remain off-line and the groundwater flow paths in the region of the NWTS boundary wells will trend towards the pre-off-Post pumping regime.

## **2. Long Term Monitoring Update**

4<sup>th</sup> Quarter LTM samples were collected during the week of 15 December. Only those wells located along the northwest boundary are sampled during the 4<sup>th</sup> quarter. Preliminary data results have been reported and are described below.

### **Boundary Wells Extraction Region (Between MW-OU1-46-AD and boundary road extraction wells)**

- TCE was detected at concentrations greater than the detection limit only at the two wells screened only in the Channel Fill (MW-OU1-61-A and MW-OU1-67-A) and well MW-OU1-50-A.
- Only MW-OU1-50 (11 µg/L) and MW-OU1-61-A (5.6 µg/L) exceeded the ACL. The most recent data showed stability or continued decline in TCE concentrations at these locations. In the previous sample (September), TCE was also 11 µg/L at MW-OU1-50-A and was 7.1 µg/L at MW-OU1-61-A.
- The other wells sampled in this quarter were:
  - MW-OU1-57-A; MW-OU1058-A; MW-OU1-64-A1; MW-OU1-64-A2, and MW-OU1-B-10A located along the northwest boundary road.
  - MW-OU1-69-A2 and MW-OU1-70-A on the Armstrong Ranch.

The twice-postponed 3<sup>rd</sup> quarter sample from MW-OU1-04-A was collected as part of the bi-monthly performance monitoring sampling on 26 January 2009. TCE was detected at 3.2 µg/L. This value indicates a continuation of the long-term decreasing TCE concentration trend at this well and is less than the 3.7 µg/L value reported in the March 2008 sample.

### **Report Submittals**

The 2008 quarterly (1<sup>st</sup> and 3<sup>rd</sup>) and 2007 Annual LTM reports are in preparation. These reports are secondary deliverables. To provide the most current validated data to the BCT in a timely manner, HGL proposes to submit the LTM reports in the following sequence:

1. 2008 Third Quarter Report (July – September) to be submitted in March 2009
2. 2008 Annual and Fourth Quarter Report to be submitted in March 2009
3. 2008 First Quarter Report (January – March) to be submitted in April 2009
4. 2007 Annual and Fourth Quarter Report to be submitted in April 2009

A letter indicating that the DTSC comments on the Final Hydraulic Control Pilot Project Construction Report have been resolved will be submitted upon confirmation that no further edits are needed to the water level contour map showing the concurrent on- and off-Post OU-1 plume. This water level contour map was provided to the DTSC by the Army.

Table 1

## TCE and Cis-1,2-DCE in OU-1 FONR Groundwater Remediation System - 2008 Performance Monitoring

Sample Date	Extraction Well						NWTS							
	MW-87	EW-71	MW-85	MW-46AD	EW-60	EW-62	EW-63	EW-66	INFLUENT	MIDPOINT	EFFLUENT			
<b>TCE (µg/L)</b>														
1/18/2008	11	11	8.9	8.2	ND	ND	ND	1.2	6.0	ND	ND			
3/18/2008	11	14	6.7	5.8	0.29	ND	ND	1.5	5.6	ND	ND			
5/27/2008	9.7	18	2.5	6.1	ND	ND	ND	1.8	3.9	ND	ND			
7/21/2008	9.1	14	4.4	3.4	0.78	ND	ND	1.4	3.6	ND	ND			
9/29/2008	9.3	J	15	J	4.3	J	2.9	J	0.90	J	ND			
12/1/2008	5.8	11	2.6	1.6	0.82	ND	ND	0.91	2.7	0.35	J	ND		
1/26/2009	5.9	<i>10</i>	2.2	<i>1.2</i>	<i>0.48</i>	<i>ND</i>	<i>ND</i>	<i>0.78</i>	2.4	<i>ND</i>	<i>ND</i>			
<b>cis-1,2-DCE (µg/L)</b>														
1/18/2008	1.20	1.40	1.00	1.20	ND	ND	ND	0.11	0.66	ND	ND			
3/18/2008	1.20	1.50	0.74	0.63	ND	ND	ND	ND	0.59	0.11	ND			
5/27/2008	0.88	2.10	0.26	0.74	ND	ND	ND	ND	0.36	0.21	ND			
7/21/2008	0.80	1.50	0.52	0.37	ND	ND	ND	ND	0.41	0.34	ND			
9/29/2008	0.99	1.60	0.54	0.30	ND	ND	ND	0.13	0.42	0.42	0.12			
12/1/2008	0.67	1.30	0.33	0.21	J	ND	ND	ND	0.27	J	0.37	J	0.19	J
1/26/2009	<i>0.63</i>	<i>1.20</i>	<i>0.29</i>	<i>0.12</i>	<i>ND</i>	<i>ND</i>	<i>ND</i>	<i>ND</i>	<i>0.26</i>	<i>0.24</i>	<i>ND</i>			
italics indicate data not yet validated														