

SUBJECT: HTW - BCT Meeting**July 8, 2009****1:00 BRAC Conference Room**

| Check (✓) | Name | Organization | Phone | E-mail address |
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| <i>LM</i> | Lewis Mitani | U.S. EPA | 415/972-3032 | Mitani.lewis@epa.gov |
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SUBJECT: HTW - BCT Meeting
July 8, 2009
1:00 BRAC Conference Room

| Check (✓) | Name | Organization | Phone | E-mail address |
|--------------|----------------------|---------------|-----------------------|---------------------------------------|
| <i>Dec</i> | David Eisen | COE | 831/393-9692 | David.Eisen@usace.army.mil |
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| | Kelly O'Meara | Ahtna | 916/372-2000 | <u>komeara@ahтнаes.com</u> |
| | Christopher Prescott | USACE | 916/557-7227 | Christopher.E.Prescott@usace.army.mil |
| | Melissa Broadston | Fort Ord BRAC | 831/393-1284 | <u>Melissa.broadston@us.army.mil</u> |

HTW BCT Meeting

July 2009

| Item | Action | Comment |
|--|----------------------|----------------|
| OU1 Groundwater Remediation | Status Update | HGL |
| OU1 Off-Site | Status Update | |
| OU2 and 2/12 Treatment Systems | Status Update | |
| Other Groundwater Issues | Status Update | |
| OUCTP | Status Update | |
| Groundwater Treatment System Optimization | Status Update | |
| OU2 Landfill | Status Update | |
| Basewide Range Assessment | Status Update | |
| Site 39 ROD Amendment/RDRA Work Plan | Status Update | |
| FFA Schedule | Status Update | |
| FOST/FOSET Issues | Status Update | |
| Calendar Update | Update | |

OPERABLE UNIT 1 OFF-SITE GROUNDWATER EXTRACTION PILOT STUDY

STATUS – July 8, 2009

FIELD WORK

- Well construction complete – December 21
- 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
- Extraction Well EW-OU1-92-A shut off – December 11.
- Field Work Variance (FWV) issued to document system shut-off – February 16.
- Groundwater extraction system shut off and rebound testing initiated – February 17.
- Sampled GAC for waste profiling – March 24.
- System restarted (EW-OU1-93-A operating) – April 7.
- Quarterly sampling of monitoring and extraction wells – June 9.

SCHEDULE

- January to March 2009, Quarterly Report being prepared.
- Conduct second rebound testing starting July 13. (FWV issued [copy attached] to describe rebound test procedure).

DATA (Preliminary)

- None.

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 concentrations of TCE in all off-site wells are below Aquifer Cleanup Levels.
- GWETS restarted because TCE concentration in EW-OU1-93-A rebounded to 7.4 µg/L. TCE concentration in all other monitoring wells below detection limit.

FIELD WORK VARIANCE

| | | | |
|---------------------|---|--------|-----------------|
| Project Name/Number | Fort Ord / 783751 | CTOWAD | CTO 11 / WAD 15 |
| Applicable Document | Draft Final Work Plan, Operable Unit 1 Off-Site Groundwater Extraction Pilot Study, Former Fort Ord, California Revision 0 (Shaw, 2007) | Date: | July 7, 2009 |

Problem Description:

This Field Work Variance is being submitted to document shutting down the Operable Unit 1 off-site groundwater extraction and treatment system (GWETS) to conduct a second rebound test in accordance with the *Off-Site Groundwater Extraction Pilot Study Work Plan*. Section 2.2.5 of the Work Plan states that, "If the data indicates that the RAO [Remedial Action Objectives] developed in the ROD [Record of Decision] have been met through system operations, the system may be shut down to conduct rebound testing."

The GWETS was shut down as part of an initial rebound test on February 17, 2009, and was restarted on April 7, 2009 after analytical data indicated that trichloroethene (TCE) concentration in extraction well EW-OU1-93-A rebounded above the Aquifer Cleanup Level of 5.0 µg/L. The concentration of TCE in extraction well EW-OU1-93-A decreased to below the Aquifer Cleanup Level by April 14, 2009, and has continued to decrease through the most recent data (June 17, 2009). Although concentrations rebounded in EW-OU1-93-A, TCE concentrations remained below the Aquifer Cleanup Levels in all off-site monitoring wells and in extraction well EW-OU1-92-A since the GWETS was initially started up in August 2008. The concentration of TCE in all off-site monitoring wells has been below reporting limits (0.5 µg/L) since September 2008.

The attached charts show the changes in concentration of TCE over time in all off-site wells.

Recommended solution:

Rebound testing will be conducted to evaluate rebound over progressively longer time frames. Initially the GWETS will be shut down for 1 month and samples will be collected once every two weeks from extraction well EW-OU1-93-A. The system will then be restarted and will operate for a minimum of 1 month. If the concentrations in well EW-OU1-93-A do not rebound above 5.0 µg/L during the system shutdown, then the GWETS will be shut down again for 2 months and samples will be collected once every month from extraction well EW-OU1-93-A. The system will then be restarted and will operate for a minimum of 1 month. If the concentrations in well EW-OU1-93-A do not rebound above 5.0 µg/L during the system shutdown, then the GWETS will be shut down for 3 months. A sample will be collected from EW-OU1-93-A after the 3 months to determine if the TCE concentration rebounded. If the concentration is still below the Aquifer Cleanup Level, the GWETS will remain shut down. The proposed rebound testing schedule is attached. If the TCE concentration does rebound above the Aquifer Cleanup Level during any of the system shut downs, the system will remain operational and rebound testing will be re-evaluated.

During the rebound testing, samples will be collected monthly from monitoring well MW-OU1-94-A (from stations historically sampled) to ensure contamination does not migrate under the City of Marina. The samples collected weekly from the GAC influent while operating will give an indication of the changes in concentration of TCE in extraction well EW-OU1-93-A during system operation.

Quarterly groundwater sampling and analysis from all off-site wells will continue during and following the rebound testing until the end of the pilot study (August 2010). After the pilot study, the off-site wells will be included in the Basewide Quarterly Groundwater Monitoring Program. The GWETS will remain operational, and will be restarted if the concentration of any of the COCs in any off-site wells exceeds the Aquifer Cleanup Levels.

Impact on present and completed work:

The recommended solution supports the overall project objectives of the Off-Site Groundwater Extraction Pilot Study. Data from the rebound testing and quarterly monitoring will support the overall remedial action and site closure.

Requested by: David Kelly

Recommended solution/disposition:

Implement as recommended above.

Clarification Minor Change Major Change



Shaw Environmental, Inc.

Field Work Variance No.

TII-139

Page

2

of

2

Signature Tim Ault Digitally signed by Tim Ault
DN: cn=Tim Ault, o=Shaw Environmental, Inc.
Date: 2009.07.07 15:26:53 -0800 Date 7-7-09
Technical Reviewer

Shaw Approvals: *If Major Change:*

Signature David Kelly Digitally signed by David Kelly
DN: cn=David Kelly, o=Shaw Environmental, Inc.
Date: 2009.07.07 15:26:53 -0800 Date 7-7-09
Project/Task Manager

Signature Peter Kelsall Digitally signed by Peter Kelsall
DN: cn=Peter Kelsall, c=US
Date: 2009.07.07 15:26:53 -0800 Date 7-7-09
Sr. Project Manager

Signature Tom Ghigliotti Digitally signed by Tom Ghigliotti
DN: cn=Tom Ghigliotti, o=Shaw Environmental, Inc.
Date: 2009.07.07 15:26:53 -0800 Date 7-7-09
Project QC System Manager

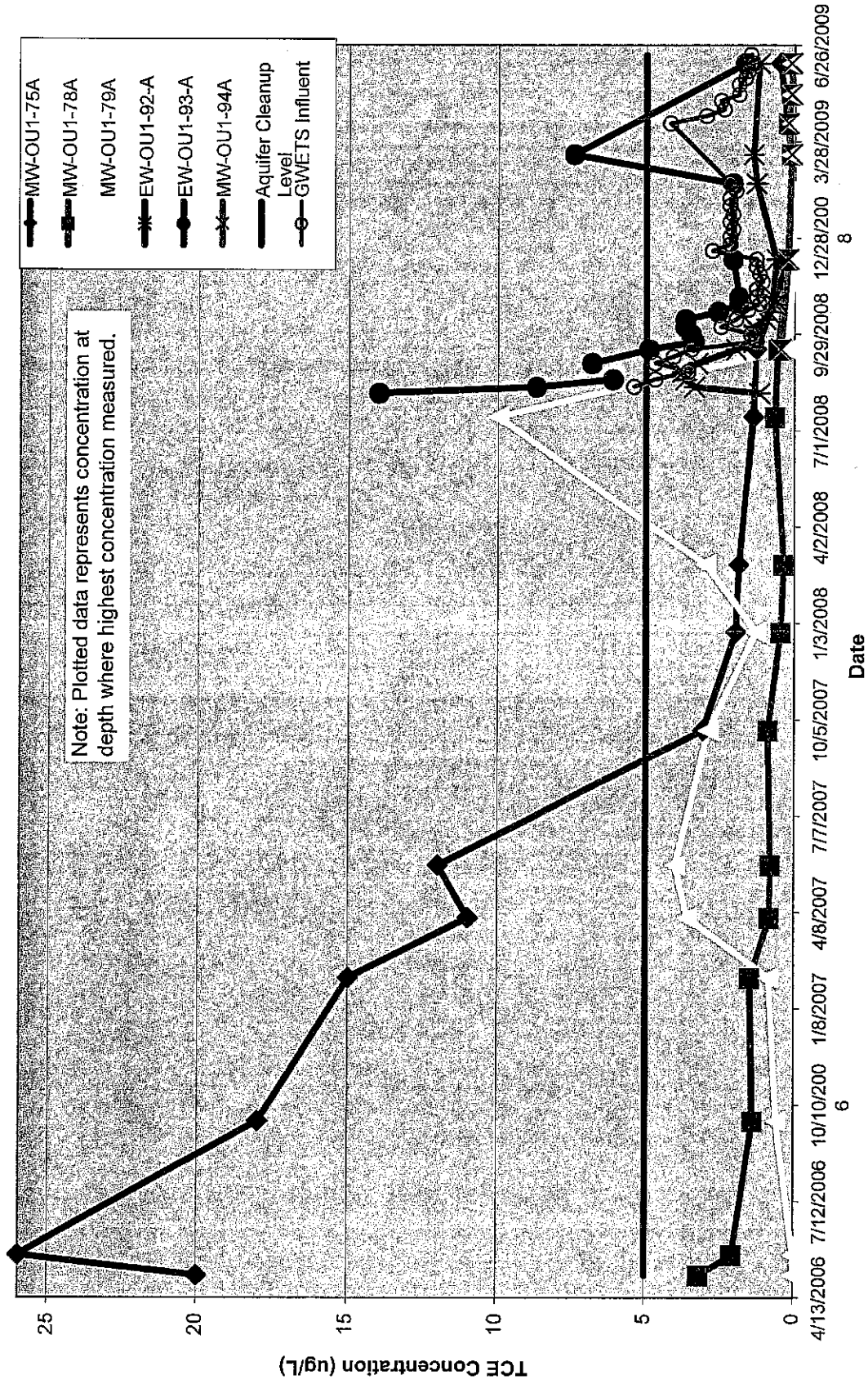
USACE Approval: *If Major Change:*

Approved

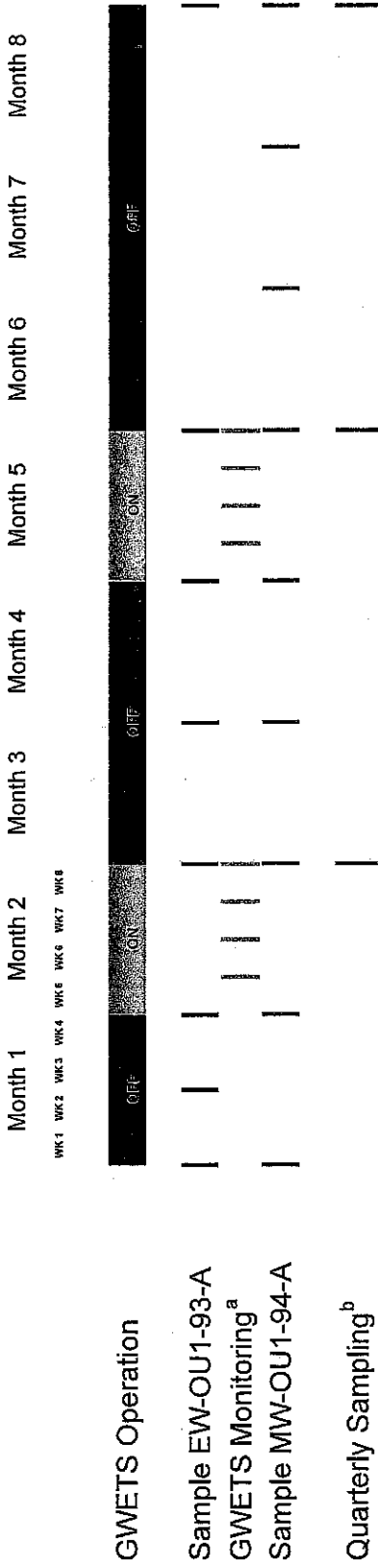
Rejected

Signature EISEN.DAVID. Digitally signed by EISEN.DAVID.
DN: cn=EISEN.DAVID, o=USACE
Date: 2009.07.07 15:26:53 -0800 Date 7-7-09
USACE COR or TM

Change in TCE Concentration Over Time OU1 Off-Site Wells



**OPERABLE UNIT 1
OFF-SITE GROUNDWATER EXTRACTION PILOT STUDY
REBOUND TESTING SCHEDULE**



^a Sample and analysis from granular activated carbon influent, between, and effluent.
^b Dates assume rebound testing is started in July 2009 after quarterly monitoring conducted in June 2009.
 GWETS denotes groundwater treatment system.

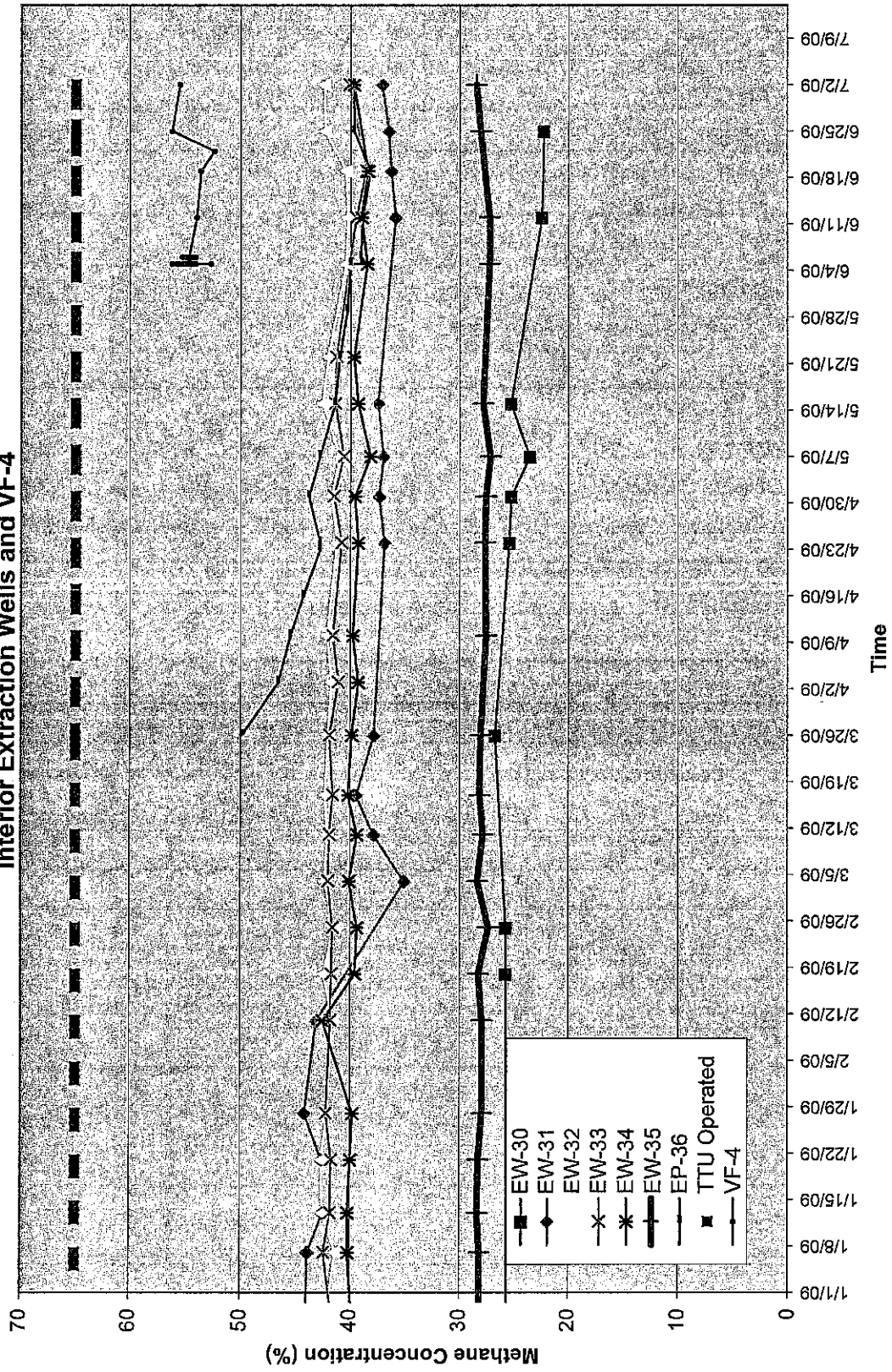
Thermal Treatment Unit Operation Summary

| TREATMENT SYSTEM | | | |
|---|---|------------------|-----------------------------------|
| Treatment System Start Date: | | 6/4/2001 | |
| TTU Start Date: | | 4/4/2006 | |
| Last Reading Date/Time: | | 7/2/2009 | |
| Historical through 2008: | | | |
| Total TTU Hours: | | 24,048 | |
| Total TTU Hours Operated: | | 9,743 | |
| % TTU Operation: | | 40.5% | |
| Total Pounds of Methane Removed | | 1,331,230 | |
| Total Pounds of VOCs Removed | | 154 | |
| Current Year 2009: | | | |
| Total Hours: | | 4,385 | |
| Total Hours Operated: | | 1,884 | |
| % Operation: | | 43.0% | |
| Pounds of Methane Removed | | 73,714 | |
| Cumulative: | | | |
| % TTU Operation (since 4/4/2006): | | 40.9% | |
| Total Pounds of Methane Removed (since 6/4/2001): | | 1,404,944 | |
| EXTRACTION SYSTEM (2009) | | | |
| Location | Methane (%) (last instantaneous reading) | Flow Rate (scfm) | % Operational (total for 2009) |
| MIXED-TTU | 39.7 | 100 | 43.0% |
| Area F | | | |
| EW-30 | 35 | 0 | 14.8% |
| EW-31 | 37 | 2 | 29.5% |
| EW-32 | 42 | 15 | 43.0% |
| EW-33 | 40 | 13 | 42.8% |
| EW-34 | 40 | 25 | 43.0% |
| VF-4 | | | 9.7% |
| Area D | | | |
| EW-35 | 29 | 2 | 33.8% |
| Area E | | | |
| EP-36 | 40 | 20 | 28.5% |

Notes:

1. EW-33 was disconnected for vent testing from 6/3 thru 6/9
2. EW-30 off since 6/22 due to higher oxygen

**Methane Concentration vs. Time
(after 01-01-09)
Interior Extraction Wells and VF-4**



OPERABLE UNIT CARBON TETRACHLORIDE PLUME A-AQUIFER REMEDIAL ACTION

STATUS – July 8, 2009

FIELD WORK

- Installation and development of wells at Areas 1A and 1B complete – January 16
- Well vault and pipeline installation in Preston Park (Area 1B) complete – March 17

SCHEDULE

- Subsequent quarterly monitoring for EISB pilot study conducted under Groundwater Monitoring Program.
- Draft Final EISB Pilot Study Report (for Agency Review) – July 6. Comments due August 7, 2009.
- Draft Final RA Work Plan/RD (Appendix A – A-Aquifer) – Distributed on June 9, 2009 with red-line/strike-out version made available to assist Agency review. Comments due July 10, 2009. Draft comments received from DTSC.
- Electrical installation in Deployment Area 1A ongoing – 97% complete. Start-up testing planned for July 27, 2009
- Well installation at Deployment Area 1C planned to start July 20, 2009.

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.



Former Fort Ord Groundwater Treatment Systems Operational Data and Status

BCT Meeting, July 08, 2009

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

| Monthly Statistics | Volume Treated (gallons) | Average Flow (gallons per minute) | Percent of Time Online | COC Mass Removed (lbs.) |
|--------------------------|--------------------------|-----------------------------------|------------------------|-------------------------|
| OU2 | | | | |
| June 2009 | 29,751,100 | 689 | 100 | 2.18 |
| Total since October 1995 | 4.548 billion | | | 629.18 |
| Sites 2/12 | | | | |
| June 2009 | 9,550,100 | 221 | 100 | 0.99 |
| Total since June 1999 | 1.221 billion | | | 417.06 |

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

| Key Events for OU2 and Sites 2/12 for June 2009 | | | | | | |
|---|--|--|-----------|----------|--------|----------|
| *There were 29 USAN Notices transmitted to Ahtna during June, 2009. None of these alerts required the personal attention of the Senior GWTP Operator. | | | | | | |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 Replaced electrical cable to restore communication link to the OU2 Landfill. | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 Removed pump from EW-OU2-05-180; under repair. | | | | |

Table 3: June 2009 - OU2 Analytical Results at TS-OU2-INJ

| COC | Discharge Limit (µg/L)† | Sample Date/ Analytical Results |
|----------------------|-------------------------|---------------------------------|
| | | 06/10/2009 |
| 1,1-DCA | 5.0* | ND |
| 1,2-DCA | 0.50 | ND |
| 1,2-DCP | 0.50 | ND |
| Benzene | 0.50 | ND |
| Carbon Tetrachloride | 0.50 | ND |
| Chloroform | 2.0* | ND |
| cis-1,2-DCE | 6.0* | ND |
| Methylene Chloride | 0.50 | ND |
| PCE | 0.50 | ND |
| TCE | 0.50 | ND |
| Vinyl Chloride | 0.10 | ND |

Table 4: June 2009 - Sites 2/12 Analytical Results at TS-212-INJ

| COC | Discharge Limit (µg/L)† | Sample Date/ Analytical Results |
|----------------|-------------------------|---|
| | | |
| 1,1-DCE | 6.0 | In accordance with the sampling schedule in the SAP, no GWTP sampling was performed at the injection point during June. The next sampling is scheduled for the end of July. |
| 1,2-DCA | 0.50 | |
| 1,3-DCP † | 0.50 | |
| Chloroform | 2.0 | |
| cis-1,2 DCE | 6.0 | |
| PCE | 3.0 | |
| TCE | 5.0 | |
| Vinyl Chloride | 0.10 | |

NOTES:

- 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.

Table 5: AES Document Submittals - Status Summary

| Document | Submitted | Comments Due |
|--|--------------|--------------|
| Draft Final Annual Groundwater Treatment System Operation Data Summary Report, January through December 2008, OU2 and 2/12 | June 8, 2009 | July 6, 2009 |

Figure 1: OU2 GWTP Treatment Events June 2009.

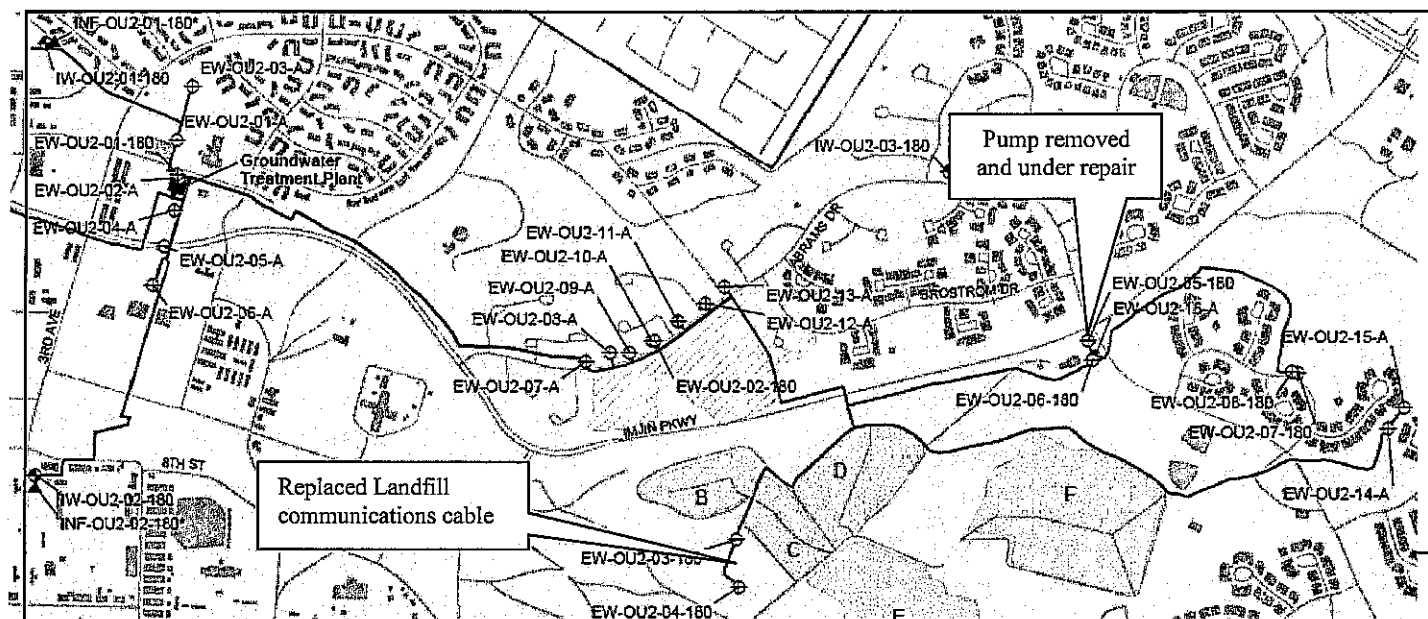


Figure 2: Sites 2/12 GWTP Treatment Events June 2009.

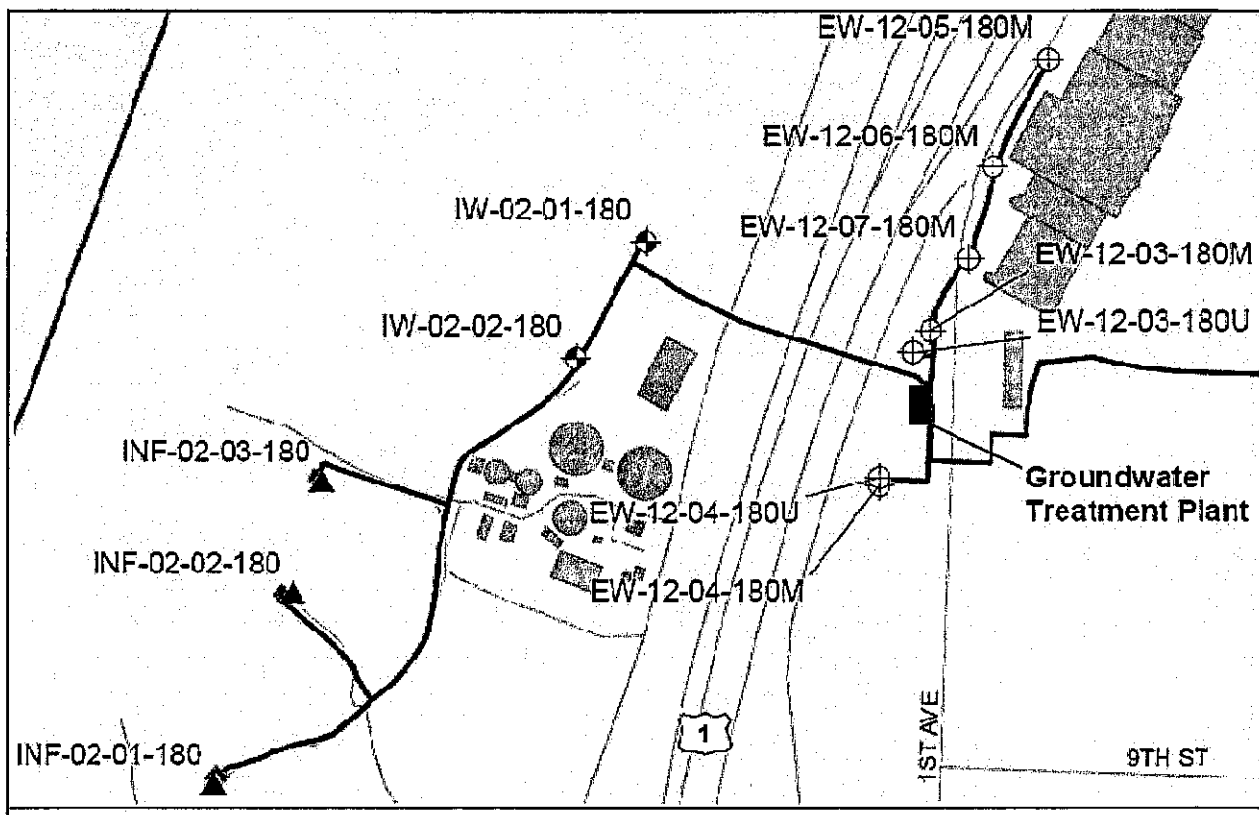




Table 6: June 2009 OU2 and Sites 2/12 Extraction Well Status.

| Well Identification | % On | Avg gpm | Total Gallons | % of Total | Comments | TCE (ug/L) 20 2009 |
|------------------------------------|------|---------|-------------------|--------------|--|--------------------|
| Site 12 Extraction Wells | | | | | | |
| EW-12-05-180M | 100 | 64.9 | 2,804,600 | 29.4 | | 9.2 |
| EW-12-06-180M | 100 | 83.9 | 3,623,500 | 37.9 | | 8.7 |
| EW-12-07-180M | 70.6 | 17.0 | 733,400 | 7.7 | | 3.2 |
| EW-12-03-180U | 0 | 0 | 0 | 0 | Well offline due to low concentrations | 0.14 |
| EW-12-03-180M | 84.9 | 55.3 | 2,388,600 | 25.0 | Pump replaced last month | 2.2 |
| EW-12-04-180U | 0 | 0 | 0 | 0 | Well offline due to low concentrations | 0.99 |
| EW-12-04-180M | 0 | 0 | 0 | 0 | Ceased operating on 11/21/2005 | not sampled |
| <i>Total 2/12 gallons treated:</i> | | | <i>9,550,100</i> | <i>100.0</i> | | |
| OU2 Extraction Wells | | | | | | |
| Western Network | | | | | | |
| EW-OU2-01-A | 0 | 0 | 0 | 0 | Well offline due to low concentrations | not sampled |
| EW-OU2-02-A | 100 | 56.2 | 2,426,540 | 8.2 | | 0.87 |
| EW-OU2-03-A | 0 | 0 | 0 | 0 | Well offline due to low concentrations | 1.0 |
| EW-OU2-04-A | 100 | 52.1 | 2,248,950 | 7.6 | | 1.1 |
| EW-OU2-05-A | 100 | 51.0 | 2,204,490 | 7.4 | | 2.9 |
| EW-OU2-06-A | 100 | 36.9 | 1,595,090 | 5.4 | | 5.1 |
| EW-OU2-01-180 | 0 | 0 | 0 | 0 | No pump in well | 10 |
| <i>Total gallons extracted:</i> | | | <i>8,475,070</i> | <i>28.5</i> | | |
| Eastern Network | | | | | | |
| EW-OU2-07-A | 0 | 0 | 0 | 0 | Well offline due to low concentrations | ND |
| EW-OU2-08-A | 82.8 | 24.2 | 1,047,570 | 3.5 | | 1.2 |
| EW-OU2-09-A | 100 | 19.3 | 832,510 | 2.8 | | 3.7 |
| EW-OU2-10-A | 78.0 | 14.9 | 643,260 | 2.2 | | 4.4 |
| EW-OU2-11-A | 0 | 0 | 0 | 0 | Low yield due to biofouling | 3.4 |
| EW-OU2-12-A | 67.1 | 14.0 | 604,750 | 2.0 | Low yield; running at reduced flow | 8.8 |
| EW-OU2-13-A | 100 | 31.6 | 1,366,740 | 4.6 | | 9.7 |
| EW-OU2-02-180 | 99.9 | 35.1 | 1,515,000 | 5.1 | | 12.6 |
| <i>Total gallons extracted:</i> | | | <i>6,009,830</i> | <i>20.2</i> | | |
| Shoppette | | | | | | |
| EW-OU2-05-180 | 0 | 0 | 0 | 0 | Pump removed and under repair | pending |
| EW-OU2-06-180 | 99.9 | 89.4 | 3,862,200 | 13.0 | | 6.8 |
| EW-OU2-16-A | <0.1 | <0.1 | 1,000 | <0.1 | Runs in manual mode only | 14.1 |
| <i>Total gallons extracted:</i> | | | <i>3,863,200</i> | <i>13.0</i> | | |
| CSUMB | | | | | | |
| EW-OU2-14-A | 0 | 0 | 0 | 0 | Runs in manual mode only | 3.9 |
| EW-OU2-15-A | 0 | 0 | 0 | 0 | Well offline due to low concentrations | not sampled |
| <i>Total gallons extracted:</i> | | | <i>0</i> | <i>0</i> | | |
| Landfill | | | | | | |
| EW-OU2-03-180 | 98.4 | 223 | 9,644,000 | 32.4 | | 18.3 |
| EW-OU2-04-180 | 0 | 0 | 0 | 0 | Well offline due to low concentrations | 0.32 |
| <i>Total gallons extracted:</i> | | | <i>9,644,000</i> | <i>32.4</i> | | |
| Bunker Hill | | | | | | |
| EW-OU2-07-180 | 0 | 0 | 0 | 0 | No pump in well | 5.4 |
| EW-OU2-08-180 | 99.9 | 40.7 | 1,759,000 | 5.9 | | 0.98 |
| <i>Total gallons extracted:</i> | | | <i>1,759,000</i> | <i>5.9</i> | | |
| <i>Total OU2 gallons treated:</i> | | | <i>29,751,100</i> | <i>100.0</i> | | |

Property Transfer Update 07-08-09 HTW BCT

FOST 10 deeds:

1. June 8 – eight of ten deeds and three CRUPs signed by USACE.¹
2. June 9 – Kutak Rock (FORA legal counsel) sent the eight deeds and CRUPs to FORA.
3. July 1 – FORA submitted deeds and CRUPs to Chicago Title.
4. Deed for Parcel L3.2 is on hold pending agreement between York School (recipient), FORA and Monterey County.
5. USACE is working on deed for Parcel L23.5.2 for public benefit conveyance to Monterey Peninsula College (FORA is not involved in transaction).

FOST 11:

1. Parcels L2.3, L2.4.1 and S2.1.2 (OU1 source area)
2. Parcels L2.3, L2.4.1 – MEC-related CRUP
3. Parcel S2.1.2 – CRUP depends on whether parcel is over OUCTP in Lower 180-Foot Aquifer.
4. USEPA to make determination whether OU1 requires Demonstration of Operating Properly and Successfully for transfer of S2.1.2

FOSET 2 deed amendments:

1. Five deed amendments were issued to FOSET 2 property recipients for signature:
 - a. Monterey-Salinas Transit – signed and returned to USACE.
 - b. City of Marina – reviewed by Kutak Rock, comments submitted to USACE.
 - c. City of Seaside – reviewed by Kutak Rock, comments submitted to USACE.
 - d. University of California (UC) – comments submitted to USACE.
 - e. CSUMB – tabled pending completion of FOSET 5 deed.
2. Sixth deed amendment for Parcel L37 is pending.
3. June 30 – USACE submitted revised deed amendment to Kutak Rock with “hold harmless” provision deleted. All deed amendments may be reissued for signature with this change.

FOSET 4 deed amendments:

1. ROD for Del Rey Oaks MRA complete and signed.
2. One deed amendment issuing the CERCLA Warranty drafted, but finalization pending completion of RD/RAWP (LUCIP).

FOSET 5 deed amendments:

1. ROD for Parker Flats MRA complete and signed, Draft Final LUCI and O&M Plan complete.
2. June 11 – three deed amendments issuing the CERCLA Warranty for Parker Flats Munitions Response Area drafted and submitted to USACE and FORA for review.
3. June 24 – USACE HQ legal review complete, forwarded deed amendments to Sacramento District.
4. FORA’s Parker Flats Phase I schedule indicates deed amendments to be complete by October 15, 2009.

Parcel F7.1 (FO-30, FOST 6):

1. Army/UC MOA states this parcel to be transferred to University of California (UC).
2. Transfer status uncertain because incorrect legal description was included in the deed.
3. USACE has proposed a Memorandum of Understanding whereby:
 - a. Army executes deed amendment correcting original deed;
 - b. MCWD executes quitclaim deed conveying its interest in Parcel 7.1 to UC;
 - c. FORA executes quitclaim deed conveying any outstanding interest in Parcel 7.1 to UC;
 - d. Army executes quitclaim deed conveying any outstanding interest in Parcel 7.1 to UC;
 - e. City of Marina executes quitclaim deed conveying any outstanding interest in Parcel 7.1 to UC; and,

¹ Signature authority for deeds delegated from Joseph Calcara, DASA (I&H) to Scott Whiteford, USACE Director of Real Estate.

Property Transfer Update 07-08-09 HTW BCT

- f. Army executes Bill of Sale confirming transfer of ownership of water system to FORA for the benefit of MCWD.

HGL AGENDA & NOTES

Fort Ord HTW BCT Meeting
1:00 PM, 08 July 2009
Monterey, California

1. Groundwater Remediation System Update

The Northwest Treatment System (NWTS) has operated continuously (through 10 AM, 06 July) since the last update at the BCT meeting on 26 June 2009. Total volume pumped through 01 July 2009 is 99,161,810 gallons with an average weekly treatment rate of approximately 78 gallons per minute (gpm).

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. Through 01 July 2009, the NWTS has removed approximately 3.3 pounds (0.27 gallons) of TCE and 0.3 pounds (0.03 gallons) of cis-1,2-DCE (this estimate will be adjusted after the 11 June sampling results are received). Previous results are summarized in Table 1. The next round of performance samples will be collected in September.

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 µg/L 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 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.

Table 2 summarizes the status of near-term deliverables. Recent submittals include:

- Draft 2008 Annual and Fourth Quarter Groundwater Monitoring Report (06 May 2009)
 - Comments due 60 days after submittal of 2008 First Quarter report
- Draft Final FONR System Construction Report (primary deliverable; 28 May 2009)
 - Comments due this month
- First Quarter 2009 Groundwater Monitoring Report (22 June 2009)
 - Comments due in August

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

4. Other

BCT draft meeting minutes (April and May, 2009) for OU-1 on-Post remediation were distributed on 19 May for review. Are any edits needed before posting as final?

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 - 08 July 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 |
| 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 | J ND | J 1.7 | J 3.8 | J 0.19 | 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 | 10 | 2.2 | 1.2 | 0.48 | J ND | ND | 0.78 | 2.4 | ND | ND |
| 3/9/2009 | 5.8 | 9.9 | 2.1 | 1.2 | 0.95 | ND | ND | 0.86 | 2.7 | 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 |
| 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 | J ND | J ND | J ND | 0.27 | J 0.37 | J 0.19 |
| 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 |
| 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 |
| Bold font indicates concentration > ACL | | | | | | | | | | | |

Table 2
Deliverable Schedule
BCT Meeting for Former Fort Ord, Marina CA - June 2009

| Deliverable | Scheduled Submittal | Status / Remarks |
|---|---------------------|--|
| <i>Primary Deliverables</i> | | |
| Final Interim Hydraulic Control Pilot Project Evaluation Report | June-2009 | Comments resolved. Edits to previous version will affect only Title page and submittal date. |
| Agency Comments | NA | |
| Draft Final FONR Groundwater Remediation System Construction Report | May-2009 | Submitted 28 May 2009 |
| Agency Comments | July-2009 | Comment period underway |
| Final FONR Groundwater Remediation System Construction Report | August-2009 | |
| Agency Comments | NA | |
| <i>Secondary Deliverables</i> | | |
| Draft 2007 Annual and Fourth Quarter Groundwater Monitoring Report | July-2009 | |
| Agency Comments | Sept-2009 | |
| Final 2007 Annual and Fourth Quarter Groundwater Monitoring Report | October-2009 | |
| Agency Comments | NA | |
| First Quarter 2008 Groundwater Monitoring Report | July-2009 | |
| Agency Comments | Sept-2009 | |
| Third Quarter 2008 Groundwater Monitoring Report | March-2009 | Submitted 19 March 2009 |
| Agency Comments | May-2009 | Awaiting comments |
| Draft 2008 Annual and Fourth Quarter Groundwater Monitoring Report | May-2009 | Submitted 06 May 2009 |
| Agency Comments | Sept-2009 | Comments tied to 2008 Q1 Report |
| Final 2008 Annual and Fourth Quarter Groundwater Monitoring Report | October-2009 | |
| Agency Comments | NA | |
| First Quarter 2009 Groundwater Monitoring Report | June-2009 | Submitted 22 June 2009 |
| Agency Comments | August-2009 | Comment period underway |
| Draft 2009 Annual and Fourth Quarter Groundwater Monitoring Report | December-2009 | |
| Agency Comments | February-2010 | |
| Final 2009 Annual and Fourth Quarter Groundwater Monitoring Report | March-2010 | |
| Agency Comments | NA | |
| | | |

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
 - Locations With March 2009 TCE Concentration At Or Above ACL (5 µg/L)
 - TCE Contour (µg/L) Based on March 2009 Data
 - Inferred Extent – See Notes Below
 - 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
 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.

