

SUBJECT: HTW – BCT Meeting
August 17, 2010
1:30 p.m. BRAC Conference Room

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**Former Fort Ord Groundwater Treatment Systems
Operational Data and Status
BRAC Cleanup Team Meeting, August 17, 2010**

Table 1: OU2 and Sites 2/12 GWTP Treatment Statistics, as of July 31, 2010.

| Monthly Statistics | Volume Treated (gallons) | Average Flow (gallons per minute) | Percent of Time Online | COC Mass Removed (lbs.) |
|--------------------------|-----------------------------|--------------------------------------|---------------------------|-------------------------------|
| OU2 | | | | |
| July 2010 | 35,015,230 | 784 | 99.9 | 2.76 |
| Total since October 1995 | 4.934 billion | | | 660.90 |
| Sites 2/12 | | | | |
| July 2010 | 9,695,900 | 217 | 99.9 | 0.84 |
| Total since June 1999 | 1.354 billion | | | 426.37 |

Table 2: OU2 and Sites 2/12 GWTP Calendar of Events, as of July 31, 2010.

| Key Events for OU2 and Sites 2/12 for July 2010 | | | | | | |
|---|--------|---------|--|----------|---|----------|
| There were 26 USAN Notices transmitted to Ahtna July 1-31, 2010. One 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 Power outage, OU2 and 2/12 GWTPs down 0.75 hours. | 10 |
| 11 | 12 | 13 | 14 Shoppette wells down for 16 hours due to condensate buildup in leak detection pipe. | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 Video logging of EW-OU2-11-A. | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

Table 3: July 2010 - OU2 Analytical Results at TS-OU2-INJ

| COC | Discharge Limit (µg/L) | Sample Date/ Analytical Results |
|----------------------|---------------------------|---------------------------------|
| | | 7/20/10 |
| 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: July 2010 - 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 in July. Scheduled process sampling will be performed in August. |
| 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 the limit of quantitation.
- * 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 |
|---|---------------|
| Final Annual Groundwater Treatment Systems Operation Data Summary Report, January through December 2009, Operable Unit 2 and Sites 2 and 12 Groundwater Remedies, Former Fort Ord, California | July 30, 2010 |

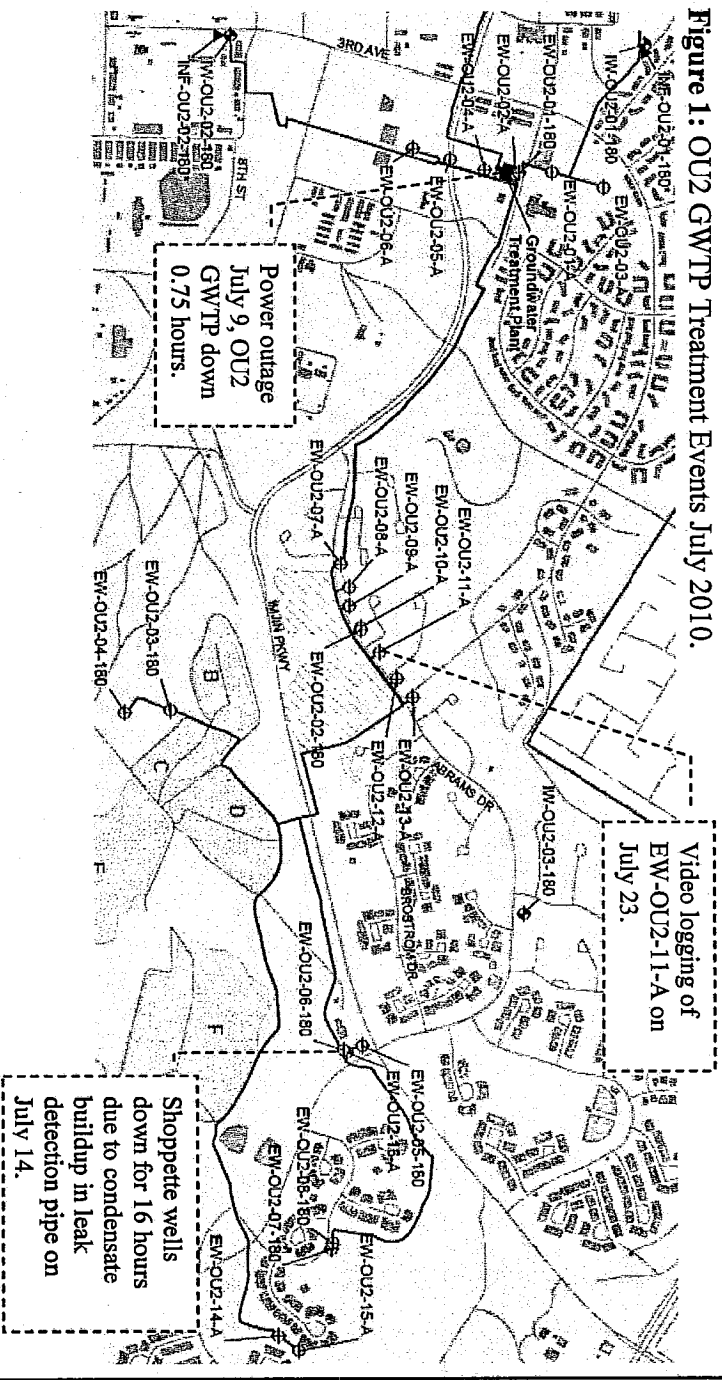


Figure 2: Sites 2/12 GWTP Treatment Events July 2010.

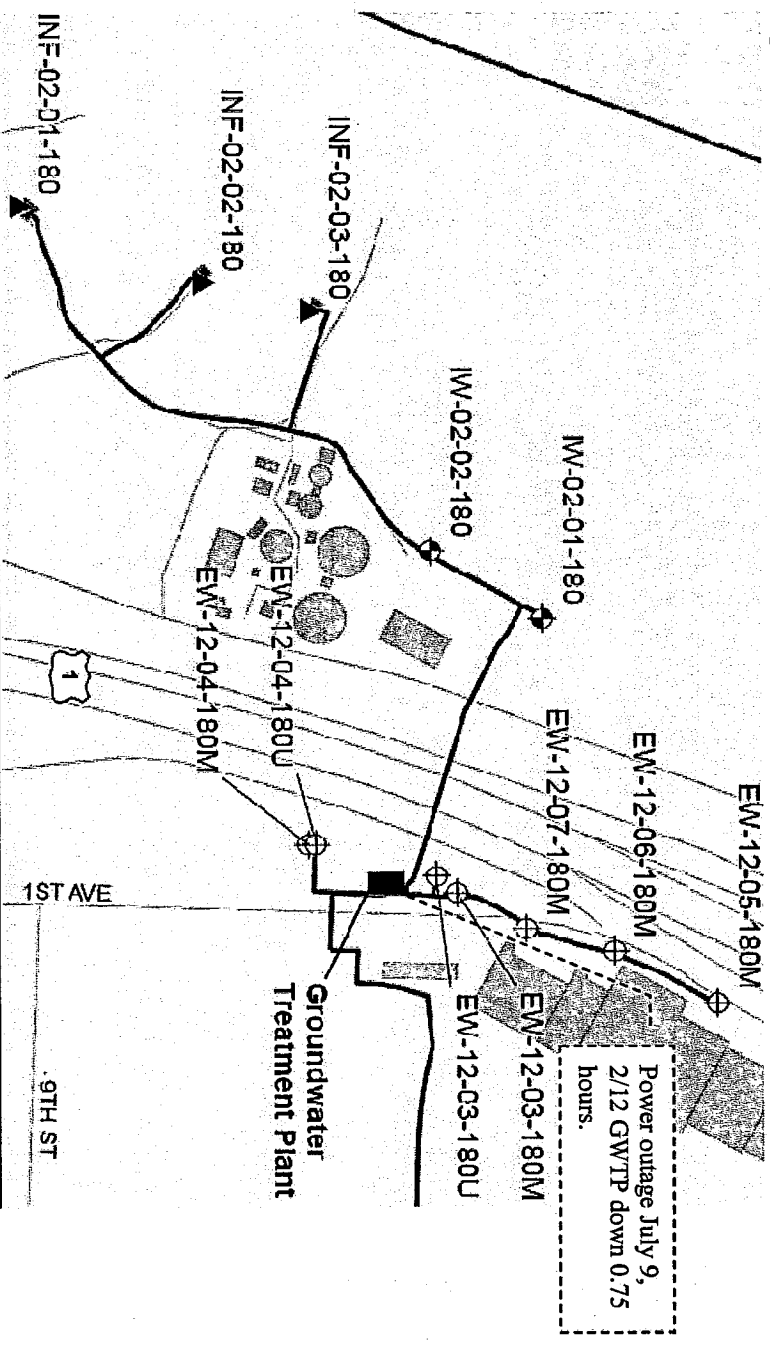


Table 6: July 2010 OU2 and Sites 2/12 Extraction Well Status (as of July 31)

| Well Identification | % On | Avg. gpm | Total Gallons | % of Total | Comments | TCE (µg/L) 20/2010 |
|------------------------------------|------|----------|-------------------|--------------|---|--------------------|
| Site 12 Extraction Wells | | | | | | |
| EW-12-05-180M | 99.9 | 80.1 | 3,574,700 | 36.9 | | 4.6 |
| EW-12-06-180M | 100 | 79.8 | 3,563,700 | 36.8 | | 8.4 |
| EW-12-07-180M | 8.0 | 3.1 | 136,900 | 1.4 | | 5.4 |
| EW-12-03-180U | 0 | 0 | 0 | 0 | Well offline due to low concentrations | 0.12 |
| EW-12-03-180M | 91.7 | 54.2 | 2,420,600 | 25.0 | | 1.4 |
| EW-12-04-180U | 0 | 0 | 0 | 0 | Well offline due to low concentrations | 0.37 |
| EW-12-04-180M | 0 | 0 | 0 | 0 | Pump removed, sampled with PDBs | 0.69 |
| Total 2/12 gallons treated: | | | 9,695,900 | 100.0 | | |
| 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 | 6.8 | 0.3 | 11,760 | 0 | Well offline due to low concentrations | 0.77 |
| EW-OU2-03-A | 0 | 0 | 0 | 0 | Well offline due to low concentrations, sampled with PDBs | 0.49 |
| EW-OU2-04-A | 96.0 | 46.5 | 2,077,160 | 5.9 | | 1.1 |
| EW-OU2-05-A | 99.8 | 50.2 | 2,240,820 | 6.4 | | 3.3 |
| EW-OU2-06-A | 99.8 | 37.1 | 1,655,310 | 4.7 | | 4.9 |
| EW-OU2-01-180 | 0 | 0 | 0 | 0 | No pump in well, sampled with PDBs | 7.8 |
| Total gallons extracted: | | | 5,973,290 | 17.1 | | |
| Eastern Network | | | | | | |
| EW-OU2-07-A | 0 | 0 | 0 | 0 | Well offline due to low concentrations | ND |
| EW-OU2-08-A | 82.8 | 17.7 | 788,840 | 2.3 | Cycling due to low water level | 0.56 |
| EW-OU2-09-A | 77.6 | 20.3 | 904,840 | 2.6 | | 3.0 |
| EW-OU2-10-A | 22.5 | 0.7 | 30,060 | 0.1 | Pump motor failure | Not Sampled |
| EW-OU2-11-A | 0 | 0 | 0 | 0 | Pump removed due to biofouling, screen damaged | Not Sampled |
| EW-OU2-12-A | 0.4 | 0 | 680 | 0 | Low yield; running at reduced capacity | 9.1 |
| EW-OU2-13-A | 100 | 28.1 | 1,253,880 | 3.6 | | 11.1 |
| EW-OU2-02-180 | 99.6 | 118.7 | 5,298,480 | 15.1 | | 9.5 |
| Total gallons extracted: | | | 4,895,300 | 23.6 | | |
| Skopete | | | | | | |
| EW-OU2-05-180 | 97.3 | 138.8 | 6,194,400 | 17.7 | | 5.7 |
| EW-OU2-06-180 | 97.3 | 132.5 | 5,912,600 | 16.9 | | 5.3 |
| EW-OU2-16-A | 97.3 | 19.4 | 867,300 | 2.5 | High drawdown, operating with new level settings | 10.8 |
| Total gallons extracted: | | | 12,974,300 | 37.1 | | |
| CSUMB | | | | | | |
| EW-OU2-14-A | 100 | 22.9 | 1,022,100 | 2.9 | | 0.91 |
| EW-OU2-15-A | 0 | 0 | 0 | 0 | Well offline due to low concentrations | Not Sampled |
| Total gallons extracted: | | | 1,022,100 | 2.9 | | |
| Landfill | | | | | | |
| EW-OU2-03-180 | 99.3 | 98.5 | 4,396,000 | 12.6 | | 30.0 |
| EW-OU2-04-180 | 0 | 0 | 0 | 0 | Well offline due to low concentrations | ND |
| Total gallons extracted: | | | 4,396,000 | 12.6 | | |
| Bunker Hill | | | | | | |
| EW-OU2-07-180 | 0 | 0 | 0 | 0 | No pump in well, sampled with PDB | 3.5 |
| EW-OU2-08-180 | 98.4 | 52.9 | 2,361,000 | 6.7 | | 0.90 |
| Total gallons extracted: | | | 2,361,000 | 6.7 | | |
| Total OU2 gallons treated: | | | 35,015,230 | 100.0 | | |

U.S. Army Community Outreach Update

Actions Underway:

1. BCT review of letter/update/fact sheet to be distributed to Monterey Bay Estates II residents. Purpose of notification is to discuss results (non-detect) from monitoring well 94 and overall results of off-site Operable Unit 1 groundwater investigation and cleanup.
2. BCT to discuss request by Marina in Motion (TAG in process) for regular updates.
3. Several requests for coordination and information from Marina in Motion.
4. Revising database to show Prescribed Burn Direct Notification enrollment over the last 3 years and observe trends.
5. Provide summary of CSUMB's prescribed burn outreach methods to BCT.
6. Part of semi-annual update for Army database (AEDB-R): forward BCP abstract to BCT for review.

Recent Activities:

1. August 13 Provided annual UXO safety briefing for York School.
2. August 9 Conducted focused Fort Ord cleanup tour for Honorable Katherine Hammack, Assistant Secretary of the Army, Installation and Environment (OASA I&E).
3. July 22 Conducted prescribed burn briefings for officials at California State University Monterey.
7. Attended Superfund JTI candidates' workshop: July 27th (Seaside, evening) and 28th (Salinas, morning).
8. July 28: Provided Prescribed Burn presentation at the Fort Ord Reuse Authority user's group meeting.
9. July 28: Provided Prescribed Burn presentation at the Fire Chief's meeting.
10. Ongoing: enroll participants in the prescribed burn Direct Notification Program. 350 enrolled as of August 9th.
11. Updated Fort Ord cleanup sections of California State University Monterey Bay web site.
12. Completed work on interactive map for web site (per Fort Ord Environmental Justice Network comments/requests).
13. Completed BCT review of Public Notice for OU1 ESD – to be published in Herald and Californian on August 20, 2010.

Upcoming Activities

1. Conduct Fort Ord Cleanup tour for staff at Monterey County Health Department (TBD).
2. September 3: Participate in an information booth at the Monterey County Fair.
3. September 30: FORA ESCA Informal Community Workshop
4. Schedule for Super JTI
 - Two Stakeholder Meetings: July 13-14 (completed)
 - Five Candidate Orientations: July 28-29, August 5 (completed)
 - Document Submission: August 16 (125 people eligible for this process)
 - Evaluator Orientation: August 17
 - Tryouts: August 18-19
 - Training Begins: August 30

Topics of Interest

Super JTI
USEPA TAG
Prescribed Burn Outreach
UXO Survey
Ted May

1

Fort Ord BCT Meetings August 18, 2010

U.S. Army Outreach Activities/Status Report

STATUS: RESPONSE to COMMUNITY COMMENTS (RTC)

| AR Number | Title/Subject | Status |
|---------------------------|---|---|
| OE-0714.3, 6/5/10 | Comments submitted by community group - Fort Ord Community Advisory Group on the Draft Track 2 Del Rey Oaks Remedial Design/Remedial Action Work Plan, Former Fort Ord, California | RTC is complete and in the Draft Final. (OE-0714A, 7/30/10) |
| ESCA-0249.5, 6/10/10 | Comments submitted by Mike Weaver of FOCAg on the Draft Group 3 RI/FS Report. Del Rey Oaks / Monterey, Laguna Seca Parking, and Military Operations in Urban Terrain Site MRAs, FORA ESCA Remediation Program | RTC is in progress—ESCA Program. |
| IAFS-235E.3, 1/15/10 | Comments from Mike Weaver [Fort Ord Community Advisory Group] on the Draft Final Work Plan, Historical Area 161 Excavation, Inter-Garrison Training Area, Former Fort Ord, California | RTC is in progress. Part 1: Initial response complete: a letter to CAG noting that we are preparing report/documents that will respond to these comments/questions (IAFS-235E.4, 5/4/10). Part 2: Issue draft CWM report- Summer The Initial letter is in the Administrative Record and report, when ready, will also be included in the Administrative Record. |
| OU1-575.2, 4/12/10 | Comments submitted by Mike Weaver on the Draft 2009 Annual and Third Quarter Groundwater Monitoring Report, Operable Unit 1, Fritzsche Army Airfield Fire Drill Area, Former Fort Ord, California | The RTC is complete and in the Final document. (OU1-575.4, 8/9/10) |
| OE-0712.3, 4/23/10 | Comments submitted by the Fort Ord Community Advisory Group on the Draft Prescribed Burn 2009 MRS-BLM Units 14 and 19 After Action Report, Former Fort Ord, Monterey County, California | The RTC is complete and included in the Draft Final document. (OE-0712B, 7/23/10). |
| OUCTP-0036N.4, 5/20/10 | Comments from Mike Weaver [Fort Ord Community Advisory Group] on the Draft Work Plan, Operable Unit Carbon Tetrachloride Upper 180' Aquifer, Former Fort Ord, California | The RTC is complete and included in the Final document (OUCTP-0036P, 7/9/10). |

**OU2 Landfills
Status Update
08/17/2010**

Ongoing Documents

- Issue 2009 Annual OU2 Landfills Report for USACE review

Recently Completed Activities

- Phases 1 and 2 vegetative layer removal at Area E as part of Range Remediation

Planned and Ongoing Activities

- Implement erosion control measures, as needed
- Haul and place soil from Site 39 Range Remediation at Area E vertical expansion
- Conduct Annual TTV Source Testing
- Conduct Annual VOC sampling
- Conduct Quarterly TTV maintenance/inspection
- Conduct Quarterly methane monitoring

**Thermal Treatment Unit
Operation Summary
2007 - 2010**

| TREATMENT SYSTEM OPERATION SUMMARY | |
|---|-----------------|
| Treatment System Start Date: | 6/4/2001 |
| TTU Start Date: | 4/4/2006 |
| Last Reading Date/Time: | 7/23/2010 14:30 |
| Historical through 2009 (TTU only): | |
| Total TTU Hours: | 32,808 |
| Total TTU Hours Operated: | 14,292 |
| % TTU Operation: | 43.6% |
| Total Pounds of Methane Removed: | 1,802,161 |
| Total Pounds of VOCs Removed: | 202 |
| Current Year 2010 | |
| Total Hours: | 5,160 |
| Total Hours Operated: | 1434 |
| % TTU Operation: | 27.8% |
| Total Pounds of Methane Removed: | 125,397 |
| Cumulative: | |
| % TTU Operation: | 41.4% |
| Total Pounds of Methane Removed: | 1,927,558 |

| | Total Pounds Removed | Pounds/week |
|----------------------------------|-------------------------|-------------|
| Pounds of Methane Removed (2007) | 540,920 | 10,374 |
| Pounds of Methane Removed (2008) | 293,169 | 5,622 |
| Pounds of Methane Removed (2009) | 455,507 | 8,736 |
| Pounds of Methane Removed (2010) | 125,397 | 4,083 |

| EXTRACTION SYSTEM (2010) | | | | | | |
|---------------------------------|--|---|--|------------------|----------------------------|--|
| Location | Last Instantaneous Methane Reading (%) | Last Instantaneous Flow Rate Reading (scfm) | Current Methane Removal Rate (lbs/day) | 2010 % Operation | 2010 Methane Removed (Lbs) | |
| Area E | | | | | | |
| EP-36 | 35 | 19 | 392.2 | 28.0 | 25903 | |
| Area F | | | | | | |
| EW-31 | 33.5 | 4 | 79.0 | 28.0 | 7794 | |
| EW-32 | 38.3 | 13 | 293.7 | 26.9 | 19059 | |
| EW-33 | 35.1 | 20 | 414.1 | 28.0 | 21338 | |
| EW-34 | 35.9 | 24 | 508.2 | 28.0 | 34403 | |
| VF-4 | 48 | 3 | 84.9 | 28.0 | 8267 | |
| Area D | | | | | | |
| EW-35 | 25.9 | 6 | 91.7 | 28.0 | 5662 | |

- Notes:
1. TTU shut down from 3/19 thru 4/6 to allow LFG rebound.
 2. TTU O&M performed from on 4/20-21
 3. TTU shut down from 4/30 thru 5/11 to allow LFG rebound.

**OPERABLE UNIT CARBON TETRACHLORIDE PLUME
A-AQUIFER REMEDIAL ACTION**

STATUS – August 17, 2010

FIELD WORK

- Final RA Work Plan/RD (Appendix A – A-Aquifer) complete – August 28.
- Installation and development of wells at Areas 1A and 1B complete – January 16
- Installation of process equipment at Area 1A complete – July 10.
- Baseline sampling at Area 1A complete – August 12.
- Start-up testing at Area 1A complete – September 4.
- Installation and development of wells at Area 1C complete – September 4.
- Substrate injection at Area 1A initiated – September 14.
- Substrate injection at Area 1A completed – October 8.
- Groundwater recirculation at Area 1A completed – November 12.
- Installation of process equipment at Area 1B complete – January 6.
- Installation and development of new well at Area 1C complete – January 29.
- Start-up testing at Area 1B complete – February 26.
- Substrate injection at Area 1B initiated – March 2.
- Installation and development of wells at Areas 2A and 2B complete – March 23.
- Substrate injection at Area 1B completed – May 6.
- Groundwater recirculation at Area 1B completed – June 16.
- Issued technical memorandum for post-treatment and long-term monitoring at Deployment Area 1A – June 3.
- Baseline biological survey in FONR South Reserve – April-June 2010.
- Installation of process equipment at Area 1C complete – July 28.
- Final RAWP Appendix B – Upper 180-Foot Aquifer – July 16.
- Draft Final RAWP Appendix C – Lower 180-Foot Aquifer – August 2.

SCHEDULE

- Subsequent quarterly monitoring for EISB pilot study conducted under Groundwater Monitoring Program.
- Groundwater monitoring ongoing at Area 1B. (Extended 1 month for preliminary guidance)
- Substrate injection at Area 1C initiated – August 2, 17
- Installation of process equipment at Area 2A ongoing.
- Installation of extraction well in Upper 180-Foot Aquifer complete. Conducting well development.

DATA (Preliminary)

- Preliminary EISB data for Area 1B.

PROBLEMS/CHANGES

- FWV T11-142 issued to provide analytical requirements for methods not included in the CDQMP (metabolic acids [BPA 300.0M], dissolved gases [RSK-175], and total heterotrophic anaerobic bacteria [SM9215B]).
- Analytical data from grab samples at Area 1B indicate that extraction wells EW-BW-95-A and EW-BW-98-A and injection well IW-BW-94-A do not have detectable concentrations of carbon tetrachloride. Plans are to operate both extraction wells, but not inject substrate into the injection well.
- During installation of extraction well EW-BW-143-A, the auger ceased and broke below ground surface. Auger was above the bentonite seal and approximately 20 feet below ground surface. Auger was grouted in place and is not expected to impact EISB or monitoring activities.
- Following installation of extraction well EW-BW-142-A the well was driven over. The well was video logged and a failure in the well casing was observed at approximately 8 feet bgs. Well repair completed March 4.
- For Area 1C, a new formulation of substrate will be used that includes a mixture of fatty acids (lactate, propionate, acetate, etc.) and carbohydrates proven to enhance reductive dechlorination better than plain sodium lactate.

| Sample ID | Well Type | Method ^a | EW-BW-97-A extraction Week 9 5/5/2010 | EW-BW-97-A extraction Week 10 5/12/2010 | EW-BW-97-A extraction Week 11 5/19/2010 | EW-BW-97-A extraction Week 12 5/26/2010 | EW-BW-97-A extraction Week 13 6/2/2010 | EW-BW-97-A extraction Week 14 6/9/2010 | EW-BW-97-A extraction Week 15 6/16/2010 | EW-BW-97-A extraction Week 17 6/30/2010 | EW-BW-97-A extraction Week 21 7/28/2010 |
|--------------------------------------|--------------------|----------------------|--|--|--|--|---|---|--|--|--|
| Well Flowrate (operating) | | | | | | | | | | | |
| | | | 5.7 | 4.6 | 5.9 | 2.5 | 2.2 | 5.3 | 3.3 | 0.0 | 0.0 |
| alkalinity (CaCO ₃ total) | HACH ^b | | 65 mg/L | 67 mg/L | 83 mg/L | 95 mg/L | 110 mg/L | 123 mg/L | 129 mg/L | 144 mg/L | 124 mg/L |
| pH | meter ^c | | 6.54 | 6.60 | 6.64 | 6.73 | 6.67 | 6.73 | 6.50 | 6.50 | 6.64 |
| dissolved oxygen | meter ^c | | 10.27 ppm | 6.89 ppm | 5.55 ppm | 3.67 ppm | 3.43 ppm | 2.92 ppm | 6.3 ppm | 2.15 ppm | 0 ppm |
| oxidation reduction potential | meter ^c | | 128 mV | 56 mV | 71 mV | 3 mV | -46 mV | -32 mV | -71 mV | -110 mV | -66 mV |
| conductivity | meter ^c | | 53.5 mS/cm | 65.5 mS/cm | 64 mS/cm | 69.7 mS/cm | 71.3 mS/cm | 74.5 mS/cm | 78 mS/cm | 97.1 mS/cm | 108 mS/cm |
| turbidity | meter ^c | | 25 NTU | 28 NTU | 12 NTU | 11 NTU | 5 NTU | 45 NTU | 263 NTU | 16 NTU | 163 NTU |
| temperature | meter ^c | | 17.5 °C | 17.6 °C | 17.9 °C | 19 °C | 16.8 °C | 18.7 °C | 19.1 °C | 17.9 °C | 20.8 °C |
| nitrate | | 300.0 | | | | | 6570 µg/L | | | 4360 µg/L | |
| nitrite | | 300.0 | | | | | <100 µg/L | | | 67.14 µg/L | |
| sulfate | | 300.0 | | | | | 29500 µg/L | | | 26300 µg/L | |
| ortho-phosphate dissolved iron | | 300.0 | | | | | 1104 µg/L | | | 1960 µg/L | |
| manganese | | 6010B | | | | | 512 µg/L | | | 1750 µg/L | |
| arsenic | | 6010B | | | | | <10 µg/L | | | <10 µg/L | |
| methane | | RSK 175 ^d | | | | | | | | | |
| ethane | | RSK 175 ^d | | | | | | | | | |
| lactate | | 300.0M | | | | | | | | | |
| propionate | | 300.0M | | | | | | | | | |
| acetate | | 300.0M | | | | | | | | | |
| carbon tetrachloride | | 8250B | | | | | 1.5 µg/L | | | 0.67 µg/L | |
| chloroform | | 8250B | | | | | 0.324 µg/L | | | <0.5 µg/L | |
| dichloromethane | | 8250B | | | | | <5.0 µg/L | | | <5.0 µg/L | |
| chloroethane | | 8250B | | | | | <1.0 µg/L | | | <1.0 µg/L | |
| trichloroethene | | 8250B | | | | | 0.464 µg/L | | | 0.484 µg/L | |
| methyl tert-butyl ether | | 8250B | | | | | 1.6 µg/L | | | 1.04 µg/L | |
| acetone | | 8250B | | | | | 10 µg/L | | | 14 µg/L | |
| 2-butanone | | 8250B | | | | | 10 µg/L | | | 15.1 µg/L | |
| carbon disulfide | | 8250B | | | | | 10 µg/L | | | 0.454 µg/L | |

Method¹

| Sample ID | Well Type | Method | Date |
|-------------|------------|---------|-----------|
| EW-BW-100-A | extraction | Week 9 | 5/5/2010 |
| EW-BW-100-A | extraction | Week 10 | 5/12/2010 |
| EW-BW-100-A | extraction | Week 11 | 5/19/2010 |
| EW-BW-100-A | extraction | Week 12 | 5/26/2010 |
| EW-BW-100-A | extraction | Week 13 | 6/2/2010 |
| EW-BW-100-A | extraction | Week 14 | 6/9/2010 |
| EW-BW-100-A | extraction | Week 15 | 6/16/2010 |
| EW-BW-100-A | extraction | Week 17 | 6/30/2010 |
| EW-BW-100-A | extraction | Week 21 | 7/28/2010 |

| Well Flowrate (operating) | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
|--------------------------------------|------------|------------|------------|------------|------------|------------|----------|----------|------------|
| alkalinity (CaCO ₃ total) | 137 mg/L | 140 mg/L | 106 mg/L | 98 mg/L | 92 mg/L | 87 mg/L | 82 mg/L | 100 mg/L | 66 mg/L |
| pH | 6.71 | 6.76 | 6.67 | 6.55 | 6.60 | 6.70 | 6.50 | 6.40 | 6.50 |
| dissolved oxygen | 2.68 ppm | 0.94 ppm | 0.95 ppm | 1.34 ppm | 0.67 ppm | 3.26 ppm | 7.9 ppm | 5.65 ppm | 4.73 ppm |
| oxidation reduction potential | -53 mV | -102 mV | -147 mV | -124 mV | -112 mV | -74 mV | -75 mV | -47 mV | -14 mV |
| conductivity | 74.2 mS/cm | 90.6 mS/cm | 86.5 mS/cm | 87.5 mS/cm | 85.3 mS/cm | 87.2 mS/cm | 88 mS/cm | 90 mS/cm | 99.3 mS/cm |
| turbidity | 36 NTU | 32 NTU | 16 NTU | 130 NTU | 4 NTU | 5 NTU | 36 NTU | 18 NTU | 24 NTU |
| temperature | 19.9 °C | 20.5 °C | 20.7 °C | 20.0 °C | 20.4 °C | 18.4 °C | 18.9 °C | 18.8 °C | 24.0 °C |

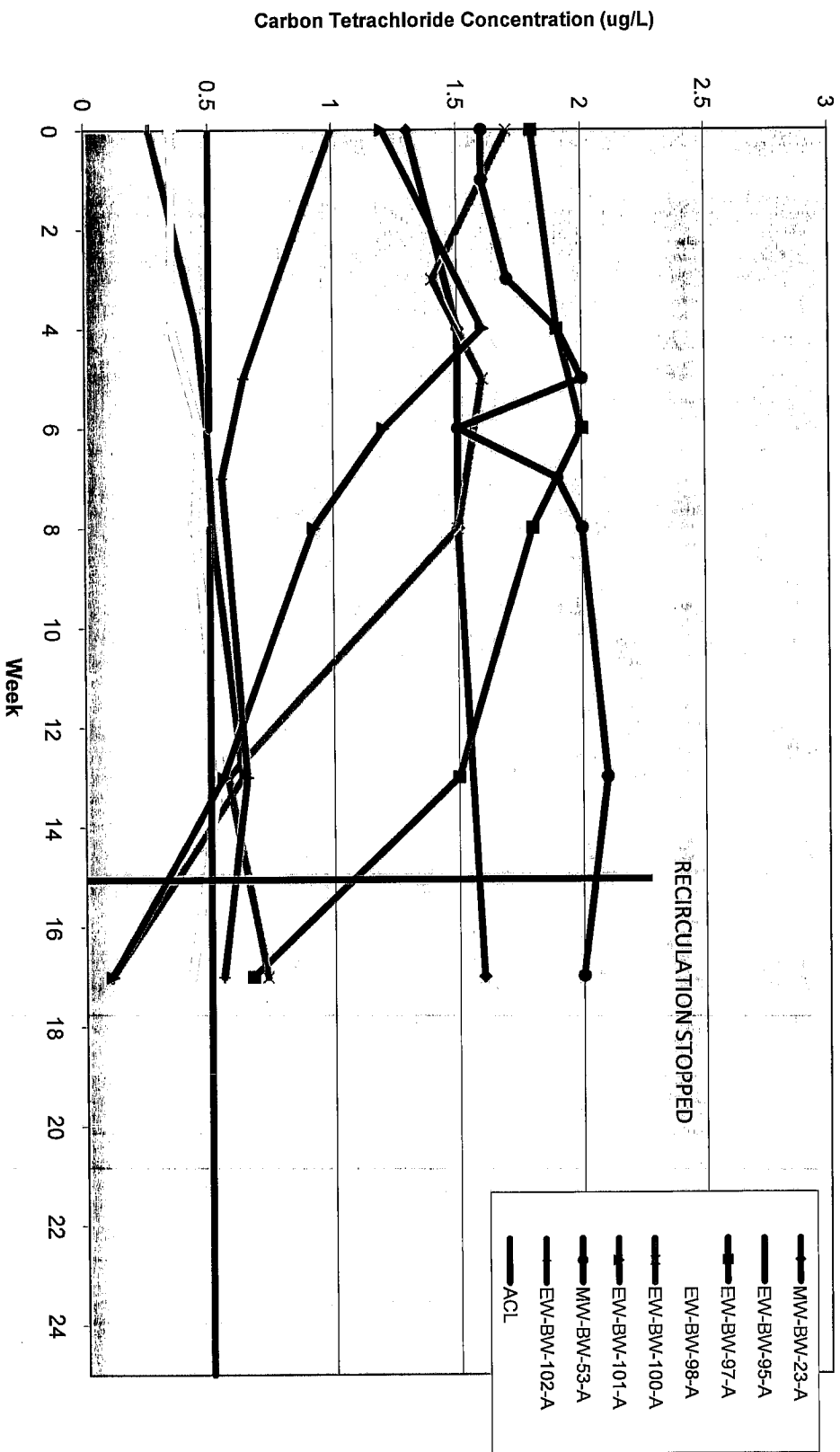
| | | | | | | | | |
|-----------------|----------------------|----------------------|----------------------|----------------------|---|---|-----------------------------------|--|
| nitrate | 300.0 | 300.0 | 300.0 | 300.0 | 12500(12600) µg/L <100(<100) µg/L 49300(49200) µg/L | 13800(13800) µg/L <100(<100) µg/L 49200(49100) µg/L | 60.5 µg/L 113 µg/L <10 µg/L | |
| sulfate | 300.0 | 300.0 | 300.0 | 300.0 | 108 µg/L (<200) µg/L 207(213) µg/L <10(10) µg/L | | | |
| ortho-phosphate | 300.0 | 300.0 | 300.0 | 300.0 | | | | |
| dissolved iron | 6010B | 6010B | 6010B | 6010B | | | | |
| manganese | 6010B | 6010B | 6010B | 6010B | | | | |
| arsenic | RSK 175 ^d | RSK 175 ^d | RSK 175 ^d | RSK 175 ^d | | | | |
| methane | RSK 175 ^d | RSK 175 ^d | RSK 175 ^d | RSK 175 ^d | | | | |
| ethane | RSK 175 ^d | RSK 175 ^d | RSK 175 ^d | RSK 175 ^d | | | | |

| | | | | | | | | |
|----------------------|--------|--------|--------|--------|--|--|--|--|
| lactate | 300.0M | 300.0M | 300.0M | 300.0M | | | | |
| propionate | 300.0M | 300.0M | 300.0M | 300.0M | | | | |
| acetate | 300.0M | 300.0M | 300.0M | 300.0M | | | | |
| carbon tetrachloride | 8260B | 8260B | 8260B | 8260B | 0.57 µg/L <0.5 µg/L <5.0 µg/L <1.0 µg/L | | | |
| chloroform | 8260B | 8260B | 8260B | 8260B | | | | |
| dichloromethane | 8260B | 8260B | 8260B | 8260B | | | | |
| chloromethane | 8260B | 8260B | 8260B | 8260B | | | | |
| acetone | 8260B | 8260B | 8260B | 8260B | | | | |
| 2-butanone | 8260B | 8260B | 8260B | 8260B | | | | |
| trichloroethane | 8260B | 8260B | 8260B | 8260B | | | | |
| carbon disulfide | 8260B | 8260B | 8260B | 8260B | | | | |

| Sample ID | Well Type | Date | Well Flowrate (operating) | Method* |
|-------------|------------|---------|---------------------------|---------|
| EW-BW-101-A | extraction | Week 9 | 5.5 | |
| EW-BW-101-A | extraction | Week 9 | 4.6 | |
| EW-BW-101-A | extraction | Week 10 | 5.7 | |
| EW-BW-101-A | extraction | Week 10 | 2.2 | |
| EW-BW-101-A | extraction | Week 11 | 0+ | |
| EW-BW-101-A | extraction | Week 11 | 7.0 | |
| EW-BW-101-A | extraction | Week 12 | 2.3 | |
| EW-BW-101-A | extraction | Week 12 | 0.0 | |
| EW-BW-101-A | extraction | Week 13 | 0.0 | |
| EW-BW-101-A | extraction | Week 14 | 0.0 | |
| EW-BW-101-A | extraction | Week 14 | 2.3 | |
| EW-BW-101-A | extraction | Week 15 | 0.0 | |
| EW-BW-101-A | extraction | Week 15 | 0.0 | |
| EW-BW-101-A | extraction | Week 17 | 0.0 | |
| EW-BW-101-A | extraction | Week 17 | 0.0 | |
| EW-BW-101-A | extraction | Week 21 | 0.0 | |
| EW-BW-101-A | extraction | Week 21 | 0.0 | |

| Parameter | Unit | Value | Temperature |
|--------------------------------------|-------|--------|-------------|
| alkalinity (CaCO ₃ total) | mg/L | 220 | 18.8 °C |
| pH | | 6.61 | |
| dissolved oxygen | ppm | 2.48 | |
| oxidation reduction potential | mV | -65 | |
| conductivity | mS/cm | 91.2 | 10 NTU |
| turbidity | NTU | 12 | 18.8 °C |
| temperature | °C | 18.8 | |
| nitrate | µg/L | <100 | |
| nitrite | µg/L | <100 | |
| sulfate | µg/L | 18800 | |
| ortho-phosphate | µg/L | 1080 | |
| dissolved iron | µg/L | 4170 | |
| manganese | µg/L | <10 | |
| arsenic | µg/L | 4750 | |
| methane | µg/L | 9270 | |
| ethane | µg/L | 12.5 | |
| lactate | µg/L | <100 | |
| propionate | µg/L | 325000 | |
| acetate | µg/L | 319000 | |
| carbon tetrachloride | µg/L | <0.5 | |
| chloroform | µg/L | <0.5 | |
| dichloromethane | µg/L | 0.814 | |
| chloroethane | µg/L | <1.0 | |
| trichloroethene | µg/L | 0.58 | |
| acetone | µg/L | 21 | |
| 2-butanone | µg/L | 58 | |
| carbon disulfide | µg/L | 1.5 | |
| methyl tert-butyl ether | µg/L | 0.314 | |

Change in Carbon Tetrachloride Concentration Over Time



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

STATUS – August 17, 2010

FIELD WORK

- Well construction complete – December 21, 2007
- Draft Final OU1 Pilot Study Work Plan distributed – April 22, 2008
- Baseline sampling and analysis – June 14, 2008
- System construction completed – July 16, 2008
- Monitoring well (City of Marina) installation – July 28, 2008
- System start-up – August 5, 2008
- Extraction Well EW-OU1-92-A shut off – December 11, 2008
- Field Work Variance (FWV) issued to document system shut-off – February 16, 2009
- Groundwater extraction system shut off and rebound testing initiated – February 17, 2009
- System restarted (EW-OU1-93-A operating) – April 7, 2009
- Second rebound study initiated – July 13, 2009 and completed March 22, 2010
- Carbon changeout of lead vessel as part of system mothballing – June 3, 2010
- System mothballing complete – June 7, 2010
- Quarterly sampling of monitoring and extraction wells – June 22, 2010.
- January to March 2010 Quarterly Report issued – August 6, 2010.

SCHEDULE

- April to June 2010 Quarterly Report to be issued September 2010.
- Issue Technical Memorandum with monitoring wells proposed for long-term monitoring – August 2010.

DATA (Preliminary)

- None.

PROBLEMS/CHANGES

- None.

HTW BCT Meeting Agenda

August 17, 2010 at 1:30 PM

| 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 Storm water disposal | Status Update | |
| OUCTP | Status Update | |
| OU2 Landfill | Status Update | |
| Community Relations | Status Update | |
| FFA Schedule | Status Update | |
| Calendar Update | Update | |

HydroGeologic, Inc.
Agenda & Notes

Fort Ord Hazardous and Toxic Waste Base Closure Team (BCT) Meeting
17 August 2010, 1:30 PM
Monterey, California

1. Groundwater Remediation System Update

The Northwest Treatment System (NWTs) operated without interruption during July but went down for undetermined reasons during the first week of August (estimate that it went off-line on Thursday, 05 August). The NWTs was restored to service on Monday 09 August. The injection pump was off-line intermittently between 05 July and 19 July. During this period, all treated water was recharged through the northwest infiltration trenches. From 05 July through 26 July, 2010 the average pumping rate was 55.0 gallons per minute (gpm). Thus far in 2010, the NWTs has removed approximately 0.3 pounds of trichloroethene (TCE). Since system start-up in 2006, the NWTs has removed approximately 4.8 pounds of total volatile organic compounds.

Extraction well EW-OU1-60-A operated continuously during July and into August until the NWTs shut down as described above. The average pumping rate was approximately 1.4 gpm.

The treatment system and selected extraction wells were sampled on 21 June 2010. Well EW-OU1-60-A was operating on that day and a sample was collected. Preliminary laboratory analytical results have been received and are presented in Table 1. Validated analytical results will be presented when available. As illustrated in Table 1, TCE concentrations remained below 1 µg/L at all extraction wells except MW-OU1-87-A and EW-OU1-71-A. TCE remained stable at MW-OU1-87-A (7.4 µg/L versus 7.2 µg/L in March) but declined from 8.5 µg/L to 6.5 µg/L at EW-OU1-71-A. Chloroform (not shown in Table 1) was detected at two wells (MW-OU1-87-A and EW-OU1-71-A) at concentrations of 0.15 J µg/L and 0.14 J µg/L, respectively. Chloroform is commonly detected throughout the OU-1 area at similar concentrations. The cleanup target for chloroform is 2.0 µg/L.

Extraction wells EW-OU1-62-A and EW-OU1-63-A on the northwest boundary were taken out of service in January as discussed in previous meetings. Wells MW-OU1-57-A and MW-OU1-58-A were designated as replacement samples and were sampled on 03 May. The validated results were identical to the preliminary results and showed "non-detect" for all tested compounds except for two estimated values below the reporting limits: 2-butanone (MEK) at MW-OU1-57-A (0.49 J µg/L) and TCE at MW-OU1-58-A (0.34 J µg/L). These results are consistent with past sampling along the northwest boundary.

2. Long-Term Monitoring Update

The validated data for the March 2010 sampling event showed no change from previously reported values. The preliminary draft figure showing TCE concentration contours for the 2010 First Quarter Groundwater Monitoring Report has been finalized and is attached for reference (Figure 6 from the 2010 First Quarter Groundwater Monitoring Report). The preliminary version of this figure (numbered as Figure 7) distributed in recent meeting materials inadvertently omitted the 10 µg/L contour around well MW-OU1-61-A along the northwest boundary. This omission has been corrected in the attached version.

The next groundwater sampling event is scheduled for September 2010.

3. Report Submittals

Table 2 summarizes the status of scheduled reports through 2010. The 2010 First Quarter Groundwater Monitoring Report was submitted on 30 July. The Final 2009 Annual and Fourth Quarter Groundwater

Monitoring Report was submitted on 05 August and incorporated responses to comments received from the Fort Ord Community Action Group on the Draft version.

4. Other

4a) IW-OU1-10-A System Expansion

HGL is preparing subcontract documents to support the upcoming remediation expansion to include pumping from well IW-OU1-10-A. The IW-OU1-10-A Design Technical Memorandum is tentatively scheduled for submittal in late August or early September. Construction will begin after the agencies review the submittal (two – three weeks) and comment response is completed. We expect construction to be completed within one month of startup.

4b) Previous Meeting Minutes

No comments were received on the Draft June 2010 BCT OU-1 meeting minutes and these minutes are now considered "Final".

There are no other planned agenda items.

TCE and Cis-1,2-DCE in OU-1 FONR Groundwater Remediation System - Performance Monitoring
BCT Meeting for Former Fort Ord, at Monterey CA - August 2010

Table 1

| Sample Date | FONR Extraction Well (listed from south to north) Began Operation October 2007 | | | | Boundary Extraction Well (listed from west to east) Began Operation July 2006 | | | | NWTS | | |
|---------------------------|---|-------|-------|-------------|--|----------|-------|-------------|----------|----------|----------|
| | MW-87 | EW-71 | MW-85 | MW-46AD | EW-63 | EW-60 | EW-66 | EW-62 | INFLUENT | MIDPOINT | EFFLUENT |
| 11/9/2007 | 16 | 13 | 19 | 14 | ND | ND | 1.7 | ND | 11 | ND | ND |
| 1/18/2008 | 11 | 11 | 8.9 | 8.2 | ND | ND | 1.2 | ND | 6.0 | ND | ND |
| 3/18/2008 | 11 | 14 | 6.7 | 5.8 | ND | 0.29 | 1.5 | ND | 5.6 | ND | ND |
| 5/27/2008 | 9.7 | 18 | 2.5 | 6.1 | ND | ND | 1.8 | ND | 3.9 | ND | ND |
| 7/21/2008 | 9.1 | 14 | 4.4 | 3.4 | ND | 0.78 | 1.4 | ND | 3.6 | ND | ND |
| 9/29/2008 | 9.3 | J | 4.3 | 2.9 | ND | 0.90 | J | ND | 3.8 | J | ND |
| 12/1/2008 | 5.8 | 11 | 2.6 | 1.6 | ND | 0.82 | 0.91 | ND | 2.7 | 0.35 | J |
| 1/26/2009 | 5.9 | 10 | 2.2 | 1.2 | ND | 0.48 | J | ND | 2.4 | ND | ND |
| 3/9/2009 | 5.8 | 9.9 | 2.1 | 1.2 | ND | 0.95 | 0.86 | ND | 2.7 | ND | ND |
| 6/11/2009 | 6.9 | 11 | 2.4 | 1.5 | ND | 0.88 | 1.7 | ND | 2.6 | 0.14 | J |
| 9/15/2009 | 6.8 | 9.4 | 1.7 | 0.78 | ND | inactive | 1.1 | 0.036 | 2.3 | 0.35 | J |
| 12/14/2009 | 6.9 | 7.5 | 0.84 | not sampled | not sampled | inactive | 0.94 | not sampled | 2.3 | 0.65 | J |
| 3/22/2010 | 7.2 | 8.5 | 0.62 | 0.55 | inactive | ND | 0.90 | inactive | 2.3 | ND | ND |
| 6/10/2010 | 7.4 | 6.5 | 0.90 | 0.40 | inactive | 0.86 | 0.58 | inactive | 2.1 | 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 | 0.11 | ND | 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 | 0.13 | ND | 0.42 | 0.42 | 0.12 |
| 12/1/2008 | 0.67 | 1.30 | 0.33 | 0.21 | ND | ND | ND | ND | 0.27 | 0.37 | J |
| 1/26/2009 | 0.63 | 1.20 | 0.29 | 0.12 | ND | ND | ND | ND | 0.26 | 0.24 | J |
| 3/9/2009 | 0.62 | 1.20 | 0.29 | 0.13 | ND | ND | ND | ND | 0.23 | 0.26 | J |
| 6/11/2009 | 0.71 | 1.10 | 0.30 | 0.13 | ND | ND | 0.14 | ND | 0.24 | 0.28 | J |
| 9/15/2009 | 0.80 | 1.00 | 0.22 | 0.08 | ND | inactive | 0.03 | ND | 0.22 | 0.37 | J |
| 12/14/2009 | 0.67 | 0.65 | 0.10 | not sampled | not sampled | inactive | ND | not sampled | 0.21 | 0.30 | J |
| 3/22/2010 | 0.67 | 0.79 | ND | ND | inactive | ND | ND | inactive | 0.20 | 0.11 | J |
| 6/10/2010 | 0.67 | 0.53 | 0.14 | ND | inactive | ND | ND | inactive | 0.20 | 0.23 | J |

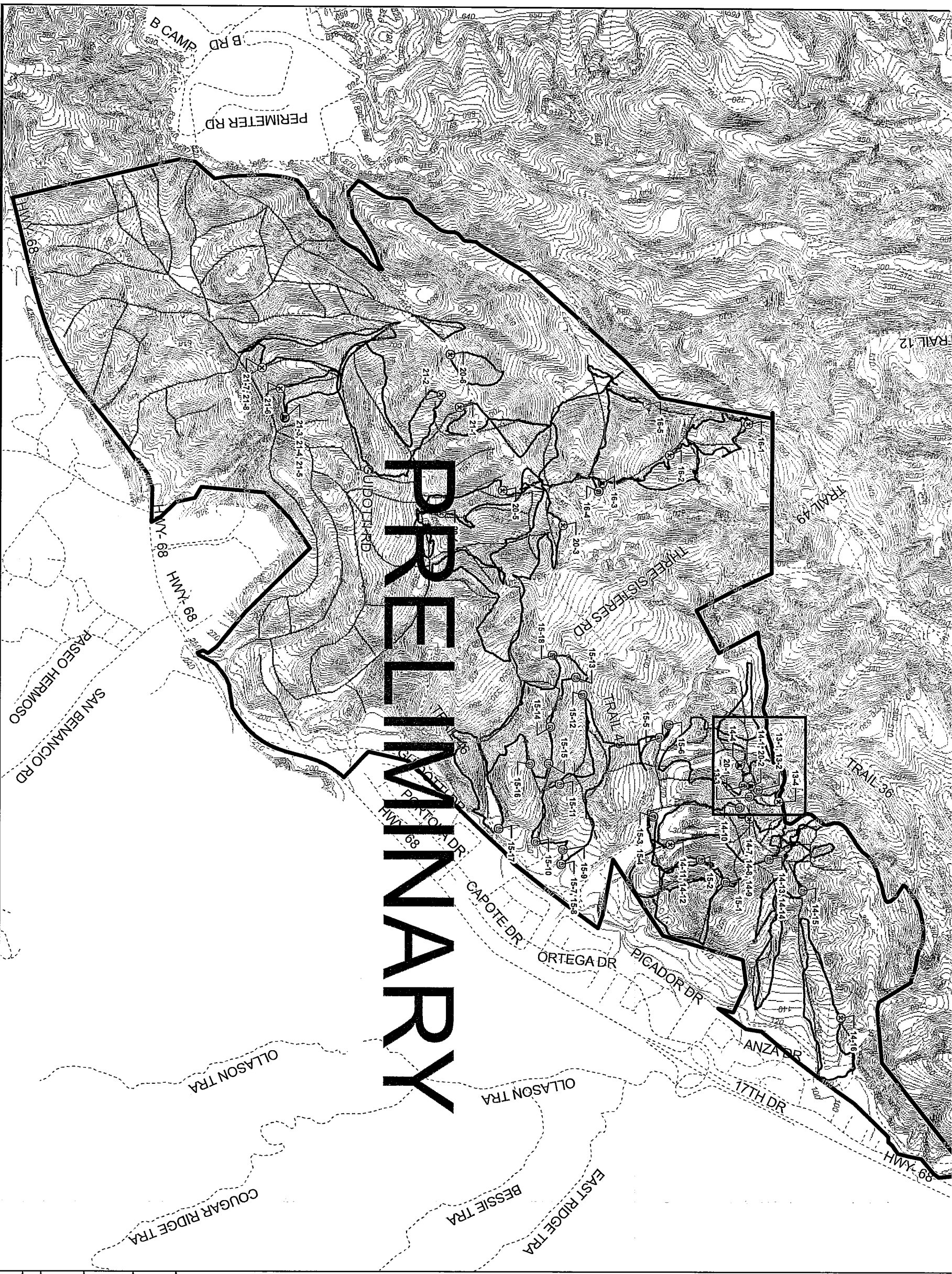
Italics (if used) indicate data not yet validated

Bold font indicates concentration > ACL

Table 2
Current Deliverable Schedule
IPM / BCT Meeting for Former Fort Ord, Marina CA –August 2010

| Deliverable | Scheduled Submittal | Status / Remarks (Bold font indicates submittal) |
|--|----------------------------|--|
| <i>Primary Deliverables</i> | | |
| None Scheduled for 2010 | | |
| <i>Secondary Deliverables</i> | | |
| Draft 2007 Annual and Fourth Quarter Groundwater Monitoring Report | August-2010 | In Progress. |
| Agency Comments | October-2010 | |
| Final 2007 Annual and Fourth Quarter Groundwater Monitoring Report | November-2010 | |
| Agency Comments | NA | |
| First Quarter 2009 Groundwater Monitoring Report | June-2009 | Submitted 22 June 2009. |
| Agency Comments | August-2009 | No Comment. |
| Draft 2009 Annual and Third Quarter Groundwater Monitoring Report | February-2010 | Submitted 08 February 2009. |
| Agency Comments | April-2010 | Agencies approved changes to 2010 sample frequency - no other comments. |
| Final 2009 Annual and Third Quarter Groundwater Monitoring Report | August-2010 | Submitted 05 August 2010. |
| Agency Comments | NA | FOCAG comments addressed. |
| 2010 First Quarter Groundwater Monitoring Report | July 2010 | Submitted 30 July 2010. |
| Agency Comments | September-2010 | Comments to be addressed in Draft 2010 Annual Groundwater Monitoring Report. |
| Draft 2010 Annual and Third Quarter Groundwater Monitoring Report | November-2010 | Sampling to be conducted in September. |
| Agency Comments | January-2011 | |
| Final 2010 Annual and Third Quarter Groundwater Monitoring Report | February-2011 | |
| Agency Comments | NA | |
| Final Rebound Evaluation Report | August-2010 | In Progress. |
| Agency Comments | NA | |

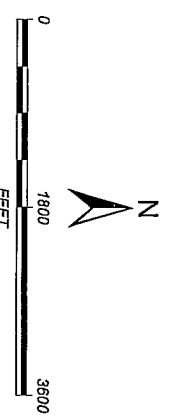
Bold denotes completed submittals.



WORKSHEET
9/22/2010

LEGEND

- GPS Track
- - - Road or Trail
- Proposed Random
- Proposed Biased
- Proposed Instrument-based Biased
- BLM East Post-1940 (Southern Portion)
- ⊙ Photograph
- ▲ Munitions Debris
- ▣ Wooden Structure
- To Be Determined
- Other Waypoints



Projection: NAD_1983_StatePlane_California_IV_FIPS_4004_Feet
 Data presented on map are current as of the date below.
 Data have not undergone a quality control review and
 therefore, are subject to change.

U.S. ARMY
CORPS OF ENGINEERS
 SACRAMENTO DISTRICT

FORMER FORT ORD
 BLM East Post-1940 Southern Portion
 Site Assessment Features 2010-09-21

| | |
|----------------|------------|
| FIGURE NUMBER | N/A |
| PROJECT NUMBER | 846075 |
| FILE NAME | SEE FOOTER |



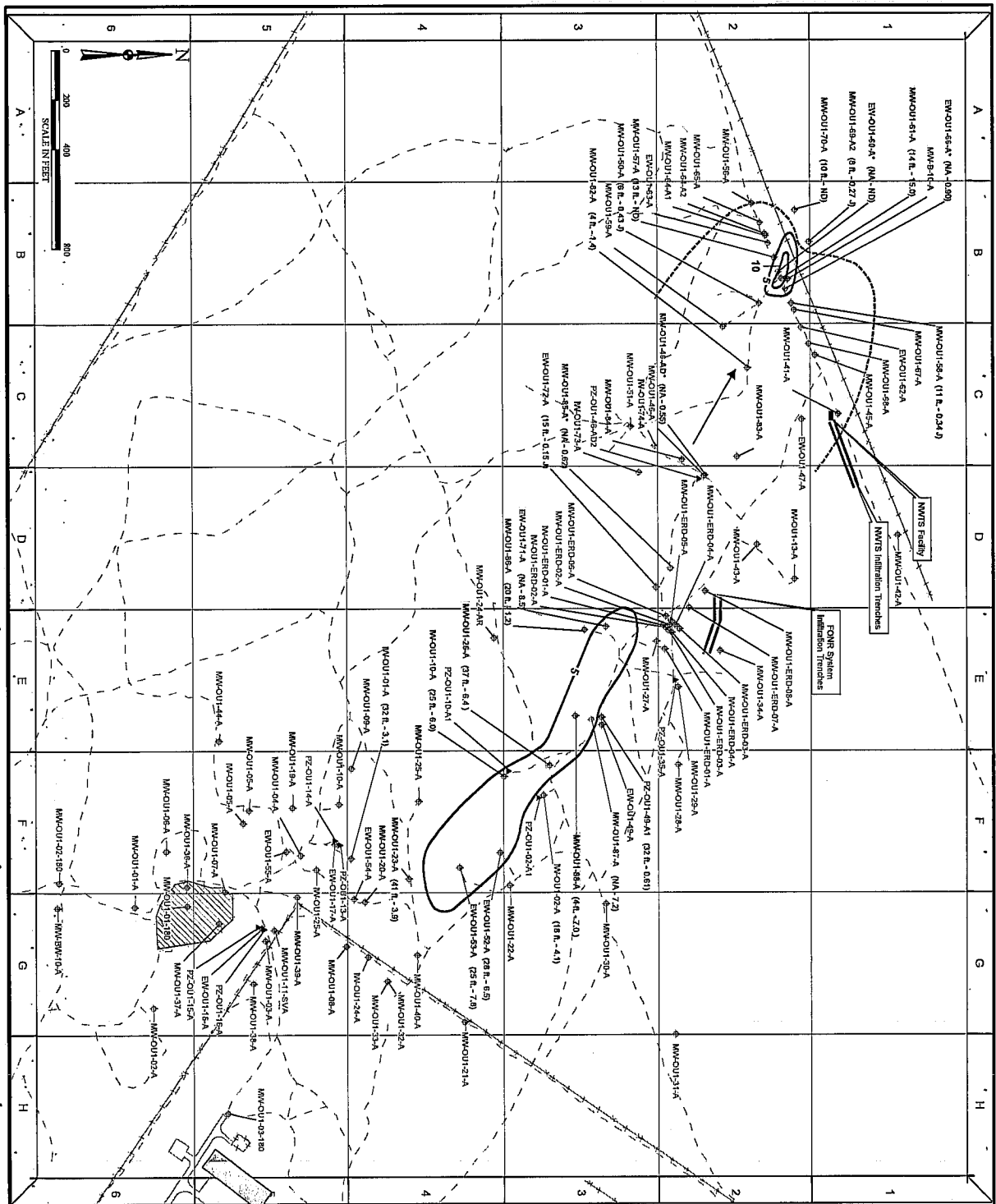


Figure 6
OUI-1 FONR
TCE Concentrations in Groundwater
March 2010

Legend

- ◆ Monitoring Well
- ◆ Extraction Well
- ◆ Bold green font indicates active well
- ◆ Injection Well
- ◆ Bold green font indicates active well
- ◆ Piezometer

Locations With March 2010 TCE Concentration At Or Above ACL (5 µg/L)

— 5 — TCE Contour (µg/L)

— MW-COU-156-A — Well ID

(ft. - 7.0) — March 2010 TCE Result (µg/L)

— Sample Elevation

— (feet above mean sea level)

— Trail/Unimproved Road

— Fence

— Treated Water Infiltration Trench

— Estimated Northwest Treatment System Capture Zone

▨ Former Fire Drill Area

— General Direction of Groundwater Flow

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 wells EW-COU-171-A and MW-COU-157-A were used to infer the 5 µg/L TCE contour because the results at those wells suggest higher TCE concentrations nearby.
 Well names appearing in gray were not included in OUI-1 Groundwater Monitoring Program.
 Wells for which no data are posted were not sampled.

