

**SUBJECT: HTW – BCT Meeting**  
**July 10, 2008**  
**1:00 p.m.**

| Check<br>(✓)      | Name             | Organization  | Phone        | E-mail address   |
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|                   | Bill Collins     | Fort Ord BRAC | 831/242-7920 | <a href="mailto:William.K.Collins@us.army.mil">William.K.Collins@us.army.mil</a>   |
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|                   | George Siller    | COE           | 916/557-7418 | George.L.Siller@usace.army.mil   |
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|---|--|----------------|-----------------------|--|
|   | Mark Eldridge  | AEC            | 410/436-6325          | <a href="mailto:Mark.h.eldridge@us.army.mil">Mark.h.eldridge@us.army.mil</a>                     |
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|   | David Kelly  | Shaw E & I     | 925/288-2321          | <a href="mailto:David.kelly@shawgrp.com">David.kelly@shawgrp.com</a>                             |
|    | Jen Moser  | GEM/Shaw E & I | 831/883-5812          | <a href="mailto:Jen.moser@shawgrp.com">Jen.moser@shawgrp.com</a>                                 |
|   | Eric Schmidt   | Shaw E & I     | 831/883-5809          | <a href="mailto:Eric.Schmidt@shawgrp.com">Eric.Schmidt@shawgrp.com</a>                           |
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|   | Michael Taraszki   | MACTEC E&C     | 415/884-3325          | <a href="mailto:mdtaraski@mactec.com">mdtaraski@mactec.com</a>                                   |
|   | Chuck Holman   | Ahtna          | 916/372-2000          | <a href="mailto:cholman@ahtnagov.com">cholman@ahtnagov.com</a>                                   |
|   | Kelly O'Meara  | Ahtna          | 916/372-2000          | <a href="mailto:komeara@ahtnagov.com">komeara@ahtnagov.com</a>                                   |
|  |  Mike Bombard | HydroGeoLogic  | 916/614-8770          | <a href="mailto:mbombard@hgl.com">mbombard@hgl.com</a>   |
|   | Christopher Prescott   | USACE          |                       | <a href="mailto:Christopher.E.Prescott@usace.army.mil">Christopher.E.Prescott@usace.army.mil</a> |
| ✓   | Melissa Broadston  | Fort Ord BRAC  | 831/393-1284          | <a href="mailto:Melissa.broadston@us.army.mil">Melissa.broadston@us.army.mil</a>                 |
|  |  ROY EVANS    |                |                       |  |

**HTW BCT Meeting**

July 10, 2008

| <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<br>Mini-storage well                                 |
| OUCTP Pilot Study                         | Status Update |   |
| Groundwater Treatment System Optimization | Status Update |   |
| OU2 Landfill Gas                          | Status Update |   |
| Basewide Range Assessment                 | Status Update | Seaside Risk Assessment, No<br>Action Approval Memos, HA 161<br>IA Memo |
| Site 39 FS Addendum and ROD               | Status Update | Responsiveness Summary  |
| Site 3 Post Remediation Monitoring        | Status Update |   |
| FFA Schedule                              | Status Update |   |
| FOST/FOSET Issues                         | Status Update |   |
| Calendar Update                           | Update        |   |



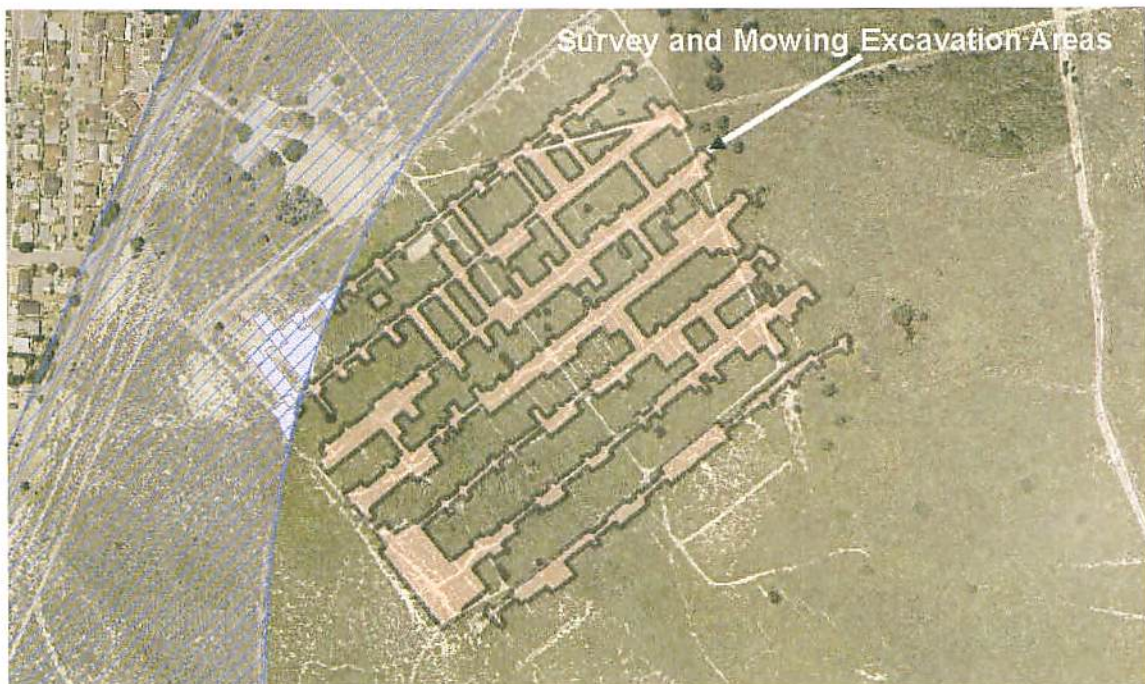
## Site Preparatory Activities

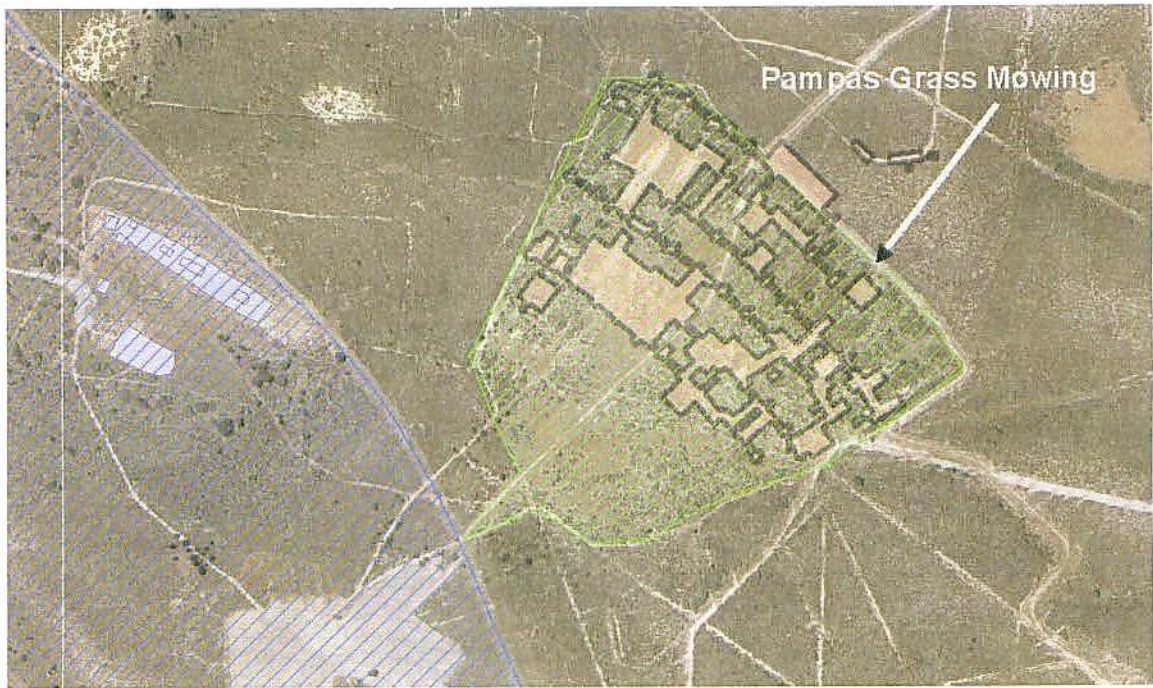
As discussed in the June BCT meeting we are providing maps and a brief description of site preparation activities. These activities are expected to occur over the next couple months.

-Range 19: Shaw will be surveying and staking the proposed excavation areas within Range 19 (first map). The areas will also be mowed with a Bobcat modified with a mowing deck to facilitate future access for remediation and restoration.

-Range 26: Shaw is mowing the large Pampas grass infestations within Range 26 (second map) with a Bobcat modified with a mowing deck to both prepare the area for prescribed burning this summer/fall and to help provide access to control the spread of Pampas grass which could impact the future habitat restoration objectives following soil remediation. The mowing is also helpful in reducing fuel along the southern boundary of Burn Unit 2.

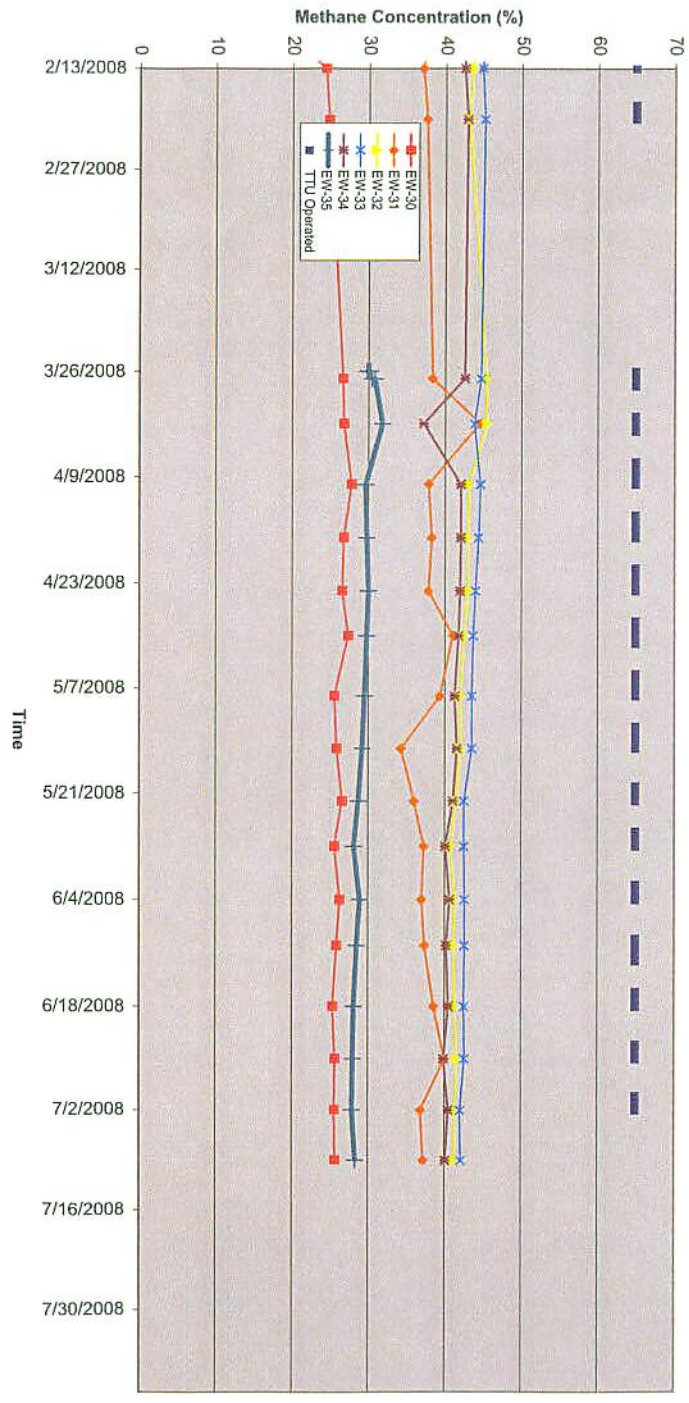
It is anticipated that this work will be ongoing over the next two months.



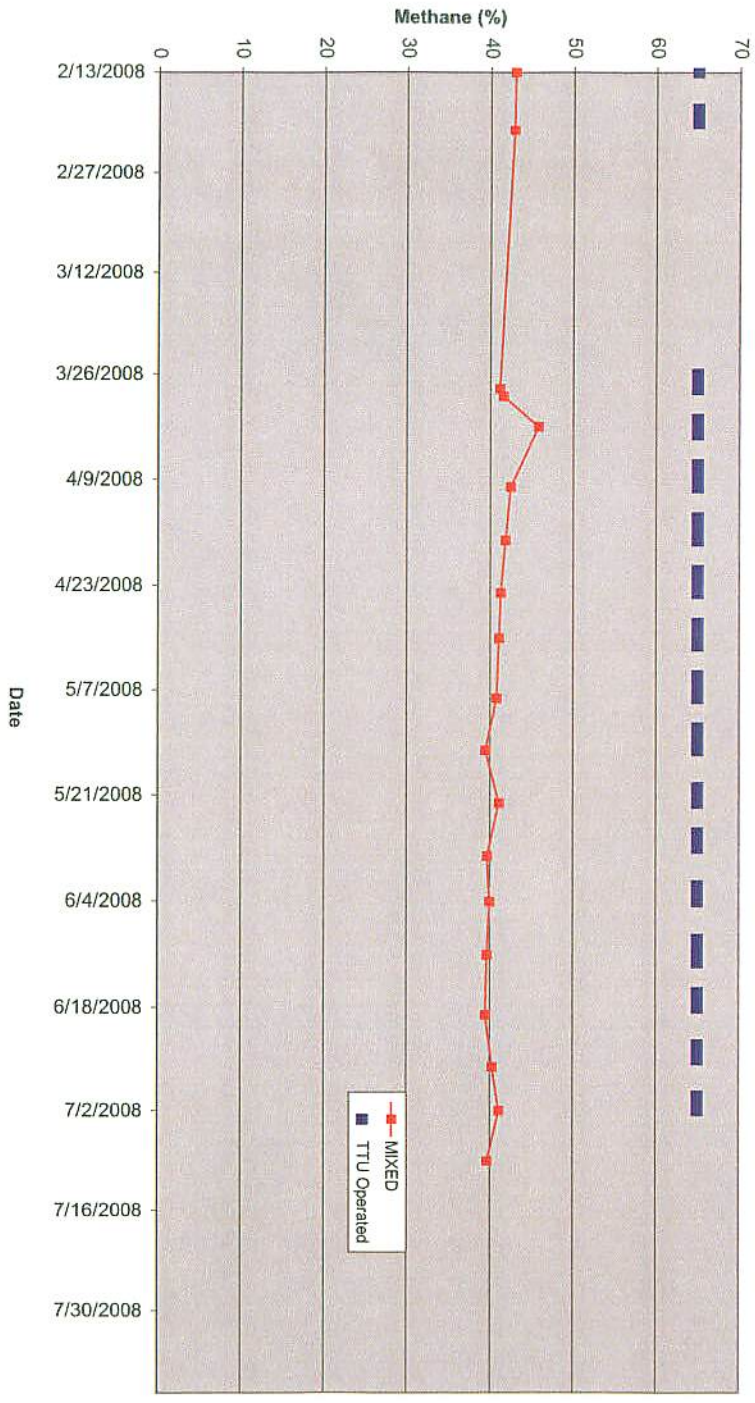




Methane Concentration vs. Time  
(after 02-13-08)  
Interior Extraction Wells



Methane Concentration vs. Time  
(after 02-13-08)  
Mixed Port at TTU



# **OPERABLE UNIT CARBON TETRACHLORIDE PLUME ENHANCED IN SITU BIOREMEDIATION PILOT STUDY AND REMEDIAL ACTION**

**STATUS – July 10, 2008**

## **FIELD WORK**

- System construction complete – October 25
- Substrate injection initiated - January 29
- 7000 gallons substrate injected – March 27
- System shut off – April 11
- Conceptual Remedial Action Design – Groundwater Summit – June 11.

## **SCHEDULE**

- Monitoring monthly through July then any subsequent quarterly monitoring conducted under Groundwater Monitoring Program.
- July sampling scheduled during week of July 21.
- Preliminary Draft Remedial Action Work Plan w/ Attachment 1 – A-Aquifer (USACE review) – July 18.

## **DATA (Preliminary)**

- None

## **PROBLEMS/CHANGES**

- Increased backpressure (due to biofouling) noted in all injection wells after 13 days of operation. Backpressure has resulted in even lower extraction/injection rates, lower substrate metering rates, and system shutdowns. Cleaned wells with hydrogen peroxide to increase substrate metering rates to optimize system operation. Wells EISB-IW-01 (2x), EISB-IW-02 (2x), EISB-EW-03, and EISB-EW-07 cleaned.
- EISB-IW-04 well failed (3/2/2008) injected groundwater percolating to ground surface). Stopped injection at that well. EISB-IW-03 failed (3/13/2008) after cleaning. Restarted and operating at a lower injection rate.
- Low concentrations of dissolved methane in wells EISB-MW-03 (0.61J ug/L) and EISB-EW-06 (0.85J ug/L).
- Theft/vandalism on site over the weekend of April 18 through 20. Conduit/wire cut and removed, container broken into, but no serious damage. Additional damage over the weekend of May 2 through 4. Piping, conduit, and wellhead fittings demobed from wells EISB-EW-02, EISB-EW-04, EISB-EW-06, EISB-EW-08, and EISB-EW-09 (along the access road) to minimize further damage. Additional piping cannot be removed until mid-June due to sensitive plant species. Monthly sampling to be conducted with existing operable equipment in most wells and new dedicated sample pumps in effected wells.



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## Former Fort Ord Groundwater Treatment Systems Operational Data and Status BCT Meeting July 10, 2008

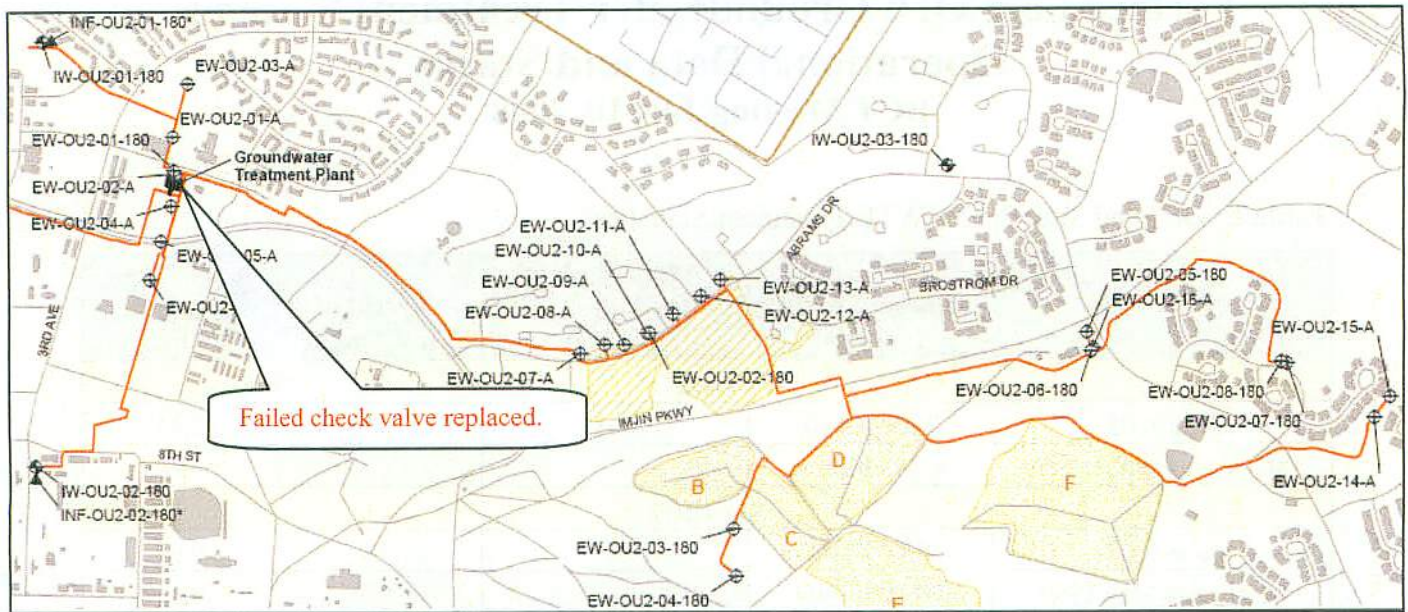
**Table 1:** OU2 and Sites 2/12 GWTP Treatment Statistics.

|                          | Volume Treated<br>(gallons) | Average Flow<br>(gallons per<br>minute) | Percent of<br>Time Online | COC Mass<br>Removed<br>(lbs) |
|--------------------------|-----------------------------|---|---------------------------|------------------------------|
| <b>OU2</b>               |                             |   |                           |                              |
| June 2008                | 32,924,610                  | 708                                     | 98                        | 2.44                         |
| Total since October 1995 | 4.243 billion               |   |                           | 566.48                       |
| <b>Sites 2/12</b>        |                             |   |                           |                              |
| June 2008                | 4,610,700                   | 107                                     | 77                        | 0.91                         |
| Total since May 1999     | 1.119 billion               |   |                           | 393.31                       |

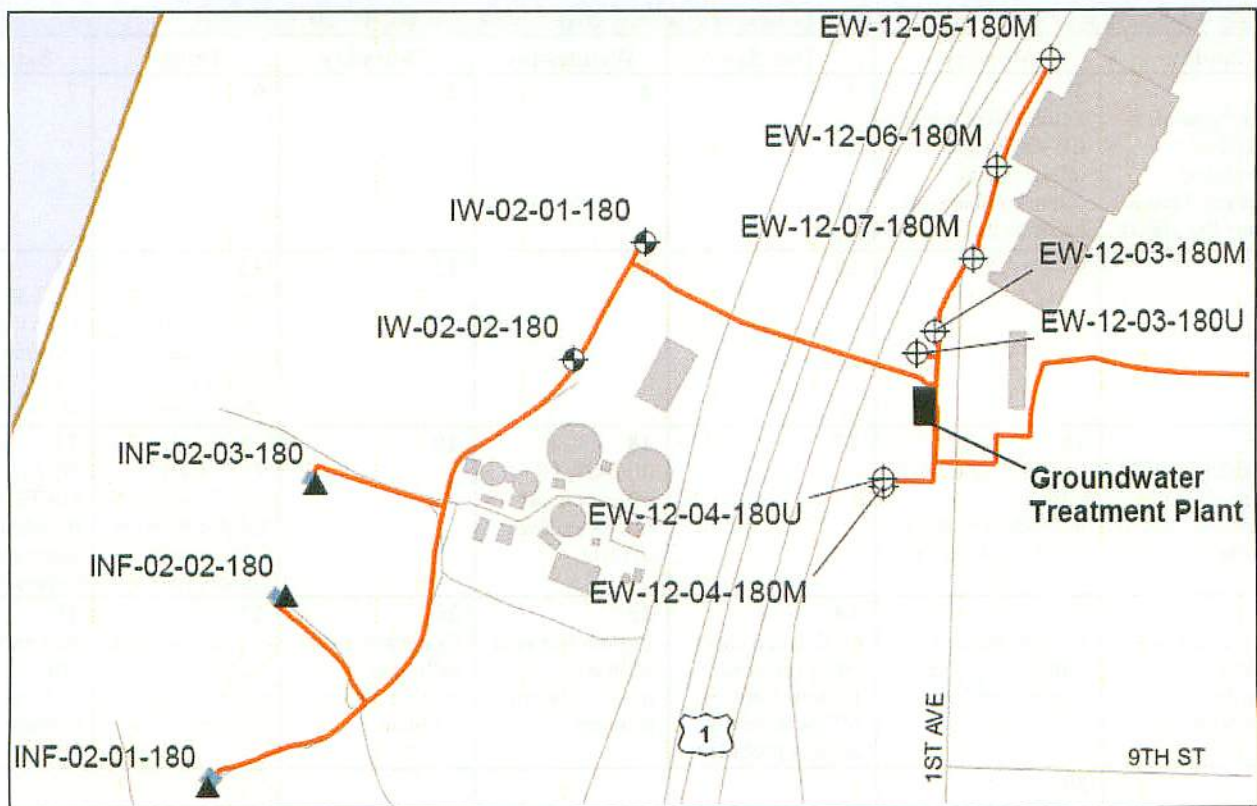
**Table 2:** OU2 and Sites 2/12 GWTP Calendar of events.

| <b>Key Events for OU2 and Sites 2/12 for June 2008</b>  |   |  |   |   |  |   |
|---|---|--|---|---|--|---|
| Sunday  | Monday  | Tuesday  | Wednesday   | Thursday  | Friday   | Saturday  |
| <b>1</b><br>Eastern Network & EW-OU2-05A offline due to comms problems & resulting PLC faults | <b>2</b><br>Eastern Network & EW-OU2-05A offline due to comms problems & resulting PLC faults | <b>3</b>   | <b>4</b>  | <b>5</b>  | <b>6</b>   | <b>7</b>  |
| <b>8</b>  | <b>9</b>  | <b>10</b>  | <b>11</b>   | <b>12</b>   | <b>13</b><br>OU2 & 2/12 GWTP offline intermittently due to failed check valve                                      | <b>14</b><br>OU2 & 2/12 GWTP offline intermittently due to failed check valve     |
| <b>15</b><br>OU2 & 2/12 GWTP offline intermittently due to failed check valve                 | <b>16</b><br>OU2 & 2/12 GWTP offline intermittently due to failed check valve                 | <b>17</b>  | <b>18</b><br>2/12 GWTP offline due to brief shutdown of OU2   | <b>19</b>   | <b>20</b><br>OU2 & 2/12 GWTP offline to troubleshoot lost comms with remote sites                                  | <b>21</b><br>OU2 & 2/12 GWTP offline to troubleshoot lost comms with remote sites |
| <b>22</b><br>OU2 & 2/12 GWTP offline to troubleshoot lost comms with remote sites             | <b>23</b><br>Eastern Network offline to resolve comms problem                                 | <b>24</b><br>OU2 failed check valve replaced. Eastern Network offline to resolve comms problem | <b>25</b><br>Eastern Network offline to resolve comms problem | <b>26</b><br>Eastern Network offline to resolve comms problem | <b>27</b><br>Eastern Network offline to resolve comms problem  | <b>28</b><br>Eastern Network offline to resolve comms problem                     |
| <b>29</b><br>Eastern Network offline to resolve comms problem                                 | <b>30</b><br>Eastern Network offline to resolve comms problem                                 |  |   |   | <b>*36 USAN Notices in June. None of these alerts required the personal attention of the Senior GWTP Operator.</b> |   |





**Figure 1:** OU2 GWTP Treatment Events June 2008.



**Figure 2:** Sites 2/12 GWTP Treatment Events June 2008.

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**Table 3:** June 2008 OU2 Analytical Results at TS-OU2-INJ.

| COC                  | Discharge Limit (µg/L)‡ | Sample Date / Analytical Results |           |
|----------------------|-------------------------|----------------------------------|-----------|
|                      |                         | 6/11/2008                        | 6/26/2008 |
| 1,1-DCA              | 5.0*                    | 0.94                             | 1.1       |
| 1,2-DCA              | 0.5                     | 0.17 J                           | 0.25      |
| 1,2-DCP †            | 0.5                     | ND                               | ND        |
| Benzene              | 0.5                     | ND                               | ND        |
| Carbon Tetrachloride | 0.5                     | ND                               | ND        |
| Chloroform           | 2.0*                    | 0.38 J                           | 0.47 J    |
| Cis-1,2-DCE          | 6.0*                    | 0.53                             | 0.82      |
| Methylene Chloride   | 0.5                     | ND                               | ND        |
| PCE                  | 0.5                     | ND                               | ND        |
| TCE                  | 0.5                     | 0.07 J                           | ND        |
| Vinyl Chloride       | 0.5                     | ND                               | ND        |

**Table 4:** June 2008 Sites 2/12 Analytical Results at TS-212-INJ

| COC            | Discharge Limit (µg/L)‡ | Sample Date / Analytical Results |              |              |              |            |
|----------------|-------------------------|----------------------------------|--------------|--------------|--------------|------------|
|                |                         | 06/03/2008                       | 06/11/2008** | 06/19/2008** | 06/26/2008** | 06/03/2008 |
| 1,1-DCE        | 6                       | ND                               | ND           | ND           | ND           | ND         |
| 1,2-DCA        | 0.5                     | 0.11 J                           | 0.13 J       | 0.20 J       | 0.21 J       | 0.11 J     |
| 1,3-DCP †      | 0.5                     | ND                               | ND           | ND           | ND           | ND         |
| Chloroform     | 2                       | 0.27 J                           | 0.25 J       | 0.41 J       | 0.37 J       | 0.27 J     |
| Cis-1,2 DCE    | 6                       | 0.65                             | 1.7          | 0.75         | 1.0          | 0.65       |
| PCE            | 3                       | ND                               | ND           | ND           | ND           | ND         |
| TCE            | 5                       | ND                               | ND           | 0.07 J       | ND           | ND         |
| Vinyl Chloride | 0.1                     | ND                               | ND           | ND           | ND           | 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.



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**Table 5: June 2008 OU2 and Sites 2/12 Extraction Well Status.**

| Well Identification                | % On | Avg. gpm | Total Gallons     | % of Total  | Comments                                  |
|------------------------------------|------|----------|-------------------|-------------|---|
| <b>Site 12 Extraction Wells</b>    |      |          |                   |             |   |
| EW-12-05-180M                      | 54.3 | 42       | 1,831,300         | 39.7        |   |
| EW-12-06-180M                      | 80.3 | 64       | 2,760,900         | 59.9        |   |
| EW-12-07-180M                      | 1.0  | 0.4      | 18,500            | 0.4         |   |
| EW-12-03-180U                      | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| EW-12-03-180M                      | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| EW-12-04-180U                      | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| EW-12-04-180M                      | 0.0  | 0        | 0                 | 0.0         | Ceased operating on 11/21/2005.           |
| <b>Total 2/12 gallons treated:</b> |      |          | <b>4,610,700</b>  | <b>100</b>  |   |
| <b>OU2 Extraction Wells</b>        |      |          |                   |             |   |
| <b>Western Network</b>             |      |          |                   |             |   |
| EW-OU2-01-A                        | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| EW-OU2-02-A                        | 85.4 | 107      | 4,626,630         | 40.1        |   |
| EW-OU2-03-A                        | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| EW-OU2-04-A                        | 50.9 | 83       | 3,588,080         | 31.1        |   |
| EW-OU2-05-A                        | 62.3 | 49       | 2,110,830         | 18.3        |   |
| EW-OU2-06-A                        | 26.8 | 28       | 1,221,620         | 10.6        |   |
| EW-OU2-01-180                      | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| <b>Total gallons extracted:</b>    |      |          | <b>11,547,160</b> | <b>35.1</b> |   |
| <b>Eastern Network</b>             |      |          |                   |             |   |
| EW-OU2-07-A                        | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| EW-OU2-08-A                        | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| EW-OU2-09-A                        | 77.5 | 19       | 827,930           | 32.4        |   |
| EW-OU2-10-A                        | 77.0 | 19       | 835,260           | 32.7        |   |
| EW-OU2-11-A                        | 0.0  | 0        | 0                 | 0.0         | Well offline due to area construction.    |
| EW-OU2-12-A                        | 0.0  | 0        | 0                 | 0.0         | Well offline due to area construction.    |
| EW-OU2-13-A                        | 77.5 | 21       | 893,260           | 34.9        |   |
| EW-OU2-02-180                      | 0.0  | 0        | 0                 | 0.0         | Well offline pending installation of VFD. |
| <b>Total gallons extracted:</b>    |      |          | <b>2,556,450</b>  | <b>7.8</b>  |   |
| <b>Shoppette</b>                   |      |          |                   |             |   |
| EW-OU2-05-180                      | 90.2 | 106      | 4,564,300         | 42.9        |   |
| EW-OU2-06-180                      | 90.1 | 123      | 5,304,100         | 49.8        |   |
| EW-OU2-16-A                        | 90.0 | 18       | 778,600           | 7.3         |   |
| <b>Total gallons extracted:</b>    |      |          | <b>10,647,000</b> | <b>32.3</b> |   |
| <b>CSUMB</b>                       |      |          |                   |             |   |
| EW-OU2-14-A                        | 76.0 | 18       | 773,000           | 100.0       |   |
| EW-OU2-15-A                        | 0.0  | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| <b>Total gallons extracted:</b>    |      |          | <b>773,000</b>    | <b>2.3</b>  |   |
| <b>Landfill</b>                    |      |          |                   |             |   |
| EW-OU2-03-180                      | 87.3 | 117      | 5,047,000         | 100.0       |   |
| EW-OU2-04-180                      | 0    | 0        | 0                 | 0.0         | Well offline due to low concentrations.   |
| <b>Total gallons extracted:</b>    |      |          | <b>5,047,000</b>  | <b>15.3</b> |   |
| <b>Bunker Hill</b>                 |      |          |                   |             |   |
| EW-OU2-08-180                      | 93.1 | 54       | 2,354,000         | 100.0       |   |
| <b>Total gallons extracted:</b>    |      |          | <b>2,354,000</b>  | <b>7.2</b>  |   |
| <b>Total OU2 gallons treated:</b>  |      |          | <b>32,924,610</b> | <b>100</b>  |   |



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**Table 6: OU2 Extraction Well Organic Data.**

| Well Identification | Analytical Results (µg/L) |                   |           |
|---------------------|---------------------------|-------------------|-----------|
|                     | Chloroform (2.0)          | Cis-1,2-DCE (6.0) | TCE (5.0) |
| Western Network     |                           |                   |           |
| EW-OU2-01-A         | 0.17 J                    | ND                | 0.92      |
| EW-OU2-02-A         | 0.17 J                    | ND                | 1.1       |
| EW-OU2-03-A         | Not Sampled               |                   |           |
| EW-OU2-04-A         | 0.26 J                    | 0.15 J            | 2.4       |
| EW-OU2-05-A         | 0.4 J                     | 1.1               | 5.2       |
| EW-OU2-06-A         | 0.77                      | 1.4               | 5.7       |
| EW-OU2-01-180       | Not Sampled               |                   |           |
| Eastern Network     |                           |                   |           |
| EW-OU2-07-A         | ND                        | ND                | ND        |
| EW-OU2-08-A         | ND                        | ND                | 0.14 J    |
| EW-OU2-09-A         | 0.24 J                    | 4.3               | 4.7       |
| EW-OU2-10-A         | 0.44 J                    | 3.4               | 5.7       |
| EW-OU2-11-A         | Not sampled               |                   |           |
| EW-OU2-12-A         | Not sampled               |                   |           |
| EW-OU2-13-A         | 1.7                       | 1.4               | 17        |
| EW-OU2-02-180       | 0.22 J                    | 3.1               | 6.4       |
| Shoppette           |                           |                   |           |
| EW-OU2-05-180       | 0.27 J                    | 0.64              | 8.6       |
| EW-OU2-06-180       | 0.33 J                    | 1.1               | 5.5       |
| EW-OU2-16-A         | 4.2                       | 12                | 15        |
| CSUMB               |                           |                   |           |
| EW-OU2-14-A         | 0.5                       | ND                | 1.6       |
| EW-OU2-15-A         | Not sampled               |                   |           |
| Landfill            |                           |                   |           |
| EW-OU2-03-180       | 0.17 J                    | 2                 | 22        |
| EW-OU2-04-180       | ND                        | ND                | 0.43 J    |
| Bunker Hill         |                           |                   |           |
| EW-OU2-08-180       | 0.12 J                    | 0.44 J            | 1.5       |

**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 the reported limit of quantitation.

**Bold** Sample above MCL

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**Table 7: Site 12 Extraction Well Organic Data.**

| Well Identification | Analytical Results (µg/L) |            |            |                      |
|---------------------|---------------------------|------------|------------|----------------------|
|                     | Cis-1,2-DCE (6.0)         | PCE (3.0)  | TCE (5.0)  | Vinyl Chloride (0.1) |
| EW-12-03-180M       | Not Sampled               |            |            |                      |
| EW-12-03-180U       | ND                        | 0.22 J     | 0.23 J     | ND                   |
| EW-12-04-180M       | Not Sampled               |            |            |                      |
| EW-12-04-180U       | 0.33 J                    | 0.36 J     | 1.3        | ND                   |
| EW-12-05-180M       | <b>6.6</b>                | <b>4.8</b> | <b>14</b>  | 0.10                 |
| EW-12-06-180M       | <b>6</b>                  | 2.3        | <b>14</b>  | ND                   |
| EW-12-07-180M       | 3.3                       | 2.7        | <b>5.3</b> | 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 the reported limit of quantitation.

**Bold** Sample above MCL

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

**STATUS – July 10, 2008**

## **FIELD WORK**

- Well construction complete – December 21
  - 2 extraction wells
  - 3 monitoring wells
- Well development complete – January 3
- Wells surveyed – January 15
- Marina Coast Water District (MCWD) Meeting – February 13
- Draft Final OU1 Pilot Study Work Plan distributed – April 22

## **SCHEDULE**

- System construction – July 8
- Baseline sampling and analysis – July 14
- System Startup – July 16
- Monitoring Well Installation (City of Marina) – July 28

## **DATA (Preliminary)**

- none

## **PROBLEMS/CHANGES**

- Treated groundwater will be discharged to a discharge basin within the MCWD property. An injection well was not installed.
- Building permit required for canopy installation but not for concrete pad installation.
- Coordinating system power with MCWD. Planning to start system with temporary (generator) power.
- One monitoring well will be 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.
- Break in occurred over the weekend of May 23 through 26. Someone cut the MCWD fence and wandered around the treatment pad area. Nothing was taken or destroyed.



**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             |
| Total Volume Pumped (gal)  |                                   |                      | 56,418,440        |
| Total Mass Removed (lb)    |                                   |                      | 2.61              |
| Average Pumping Rate (gpm) |                                   |                      | 54.01             |

| 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               |         |

