**Environmental Resources Management**

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31 January 2006

Ms. Mary Rose Cassa
California Regional Water Quality Control Board
San Francisco Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

ERM®

Subject: Fourth Quarter 2005 Monitoring Report and January 2006 Monthly Status Report
Hookston Station Site
Pleasant Hill, California

Dear Ms. Cassa:

On behalf of Mr. Daniel Helix and Union Pacific Railroad Company (UPRR), ERM-West, Inc. (ERM) has prepared this *Fourth Quarter 2005 Monitoring Report and January 2006 Monthly Status Report* for the Hookston Station site in Pleasant Hill, California. The purpose of this report is to:

- Summarize the field measurements and laboratory analyses of monitoring well and soil vapor samples collected during the Fourth Quarter 2005; and
- Summarize the activities/tasks conducted in January 2006 and to identify the activities that are planned for February 2006.

This report has been completed in accordance with the Self-Monitoring Program described in the California Regional Water Quality Control Board, San Francisco Bay Region (Water Board) Order Nos. R2-2003-0035 and R2-2004-0081. The overall monitoring objectives and scope of work are described in the *Phase I Remedial Investigation Sampling and Analysis Plan* (ERM, 2000) and *Soil Vapor Probe Installation and Sampling Workplan* (ERM, 10 February 2005).

This report has been divided into the following sections:

- Ground Water Sampling Activities;
- Ground Water Sampling Results;
- Soil Vapor Monitoring Results; and
- Project Status and Upcoming Activities.

## *GROUND WATER SAMPLING ACTIVITIES*

As described in previous reports, based on the observed stratigraphy and vertical chemical distribution, we have divided the ground water sampling data into three hydrostratigraphic zones: the A-Zone, B-Zone, and C-Zone. As described below, dissolved volatile organic compounds (VOCs) are primarily observed in the coarse-grained deposits of the A- and B-Zones found above a depth of approximately 70 feet below ground surface.

The current monitoring network includes 23 A-Zone monitoring wells, 19 B-Zone monitoring wells, and 3 C-Zone monitoring wells. The monitoring wells within the network are shown on Figure 1. The Fourth Quarter 2005 ground water monitoring activities were performed during 15-17 November 2005 and included the following activities:

- Depth-to-water measurements were recorded at all monitoring wells except MW-2, which is inaccessible.

- Ground water samples for VOC analysis were collected at all monitoring wells (except MW-2) using passive diffusion techniques with passive diffusion bags (PDBs). Ground water samples collected at MW-11B and MW-17B were collected by both passive diffusion techniques and traditional purge and sample techniques.

- In addition to VOC analyses completed in all monitoring wells, ground water samples from upgradient wells MW-20A, MW-20B, MW-21A, and MW-21B were analyzed for total petroleum hydrocarbons (TPH) in the gasoline, kerosene, diesel, and motor oil ranges. TPH analyses are not required within the Self Monitoring Program; however, recent off-site historical investigations (performed on behalf of Walnut Creek Manor and Mayhew Center) identified the presence of a former underground storage tank (UST) in an area located upgradient from wells MW-20A, MW-20B, MW-21A, and MW-21B. The former UST was not associated with the Hookston Station site.

## *GROUND WATER SAMPLING RESULTS*

Ground water elevation data through the Fourth Quarter 2005 are summarized in Table 1. Ground water elevation contour maps for the

hydrostratigraphic zones, based on data collected on 15 November 2005, are provided as Figures 2 through 4. The observed ground water flow directions in the three zones are toward the northeast, consistent with historical measurements. The overall hydraulic gradients observed during the Fourth Quarter 2005 event were 0.004 foot per foot (ft/ft) in the A-Zone, 0.004 ft/ft in the B-Zone, and 0.0025 ft/ft in the C-Zone.

Laboratory analytical VOC results for ground water samples collected during the Fourth Quarter 2005 monitoring event are summarized in Table 2. Note that Table 2 only presents the results for the VOCs that have historically been detected most frequently within the commingled plume, including tetrachloroethene (PCE); trichloroethene (TCE); cis-1,2-dichloroethene (cis-1,2-DCE); and 1,1-dichloroethene (1,1-DCE). The distribution of selected VOCs (PCE, TCE, cis-1,2-DCE, and 1,1-DCE) in the three hydrostratigraphic zones are depicted on Figures 4 through 16.

Laboratory analytical TPH results for ground water samples collected during the Fourth Quarter 2005 monitoring event are summarized in Table 3.

ERM performed a data quality review of all ground water analytical results. The quality of the data was assessed and any necessary qualifiers were applied following the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* October 1999. Based on the review, some of the data were qualified (as described later in this document). However, the review determined that all data, including qualified data, are acceptable and can be used for decision-making purposes, but the limitations indicated by the applied qualifiers should be considered when using the data. The data summarized on Tables 2 and 3 have been qualified as necessary based on the review. The laboratory analytical reports for the Fourth Quarter 2005 monitoring event are provided in electronic format on the enclosed compact disc. ERM's data quality review is also included with this document.

The ground water monitoring results for the Fourth Quarter 2005 were generally consistent with historical ground water concentrations. The following is a description of noteworthy results from the Fourth Quarter 2005:

- Monitoring wells MW-20A, MW-20B, MW-21A, and MW-21B are located upgradient of the Hookston Station site on Vincent Road. TPH in the gasoline range was detected in each of these wells at concentrations ranging from 230 to 1,700 µg/L. TPH in the diesel, motor oil, and kerosene ranges, were not detected. The laboratory noted that

the sample chromatograms for the diesel, motor oil, and kerosene analyses did not resemble the laboratory standards, and reported these results as "unknown hydrocarbons," at concentrations ranging from 63 to 580 µg/L. ERM compared the sample chromatograms with the calibration chromatograms to identify which fuel was best represented. In most cases, there were distinct peaks in the diesel and motor oil ranges. None of the chromatograms strongly resembled the fuel patterns; rather they contained peaks or patterns that eluted in the fuel ranges. ERM qualified the affected sample results as tentatively identified and estimated (NJ), as shown in Table 3.

- MW-20B is located upgradient of the Hookston Station site on Vincent Road and has previously reported PCE concentrations up to 7,200 µg/L. Potential upgradient (non-Hookston) sources of the PCE are currently being investigated by other parties at the request of the Water Board. Increasing concentration trends for cis-1,2-DCE and vinyl chloride have been observed since the Second Quarter 2005. Elevated concentrations continued to be reported during the Fourth Quarter 2005; cis-1,2-DCE was reported at 2,800 µg/L and vinyl chloride was reported at an estimated concentration of 84 µg/L. Vinyl chloride and cis-1,2-DCE are VOCs associated with the degradation of PCE, which was reported during the Fourth Quarter 2005 at a concentration of 1,000 µg/L.
- MW-14A, located east of the Hookston property, continues to contain considerably higher concentrations of cis-1,2-DCE than the upgradient well MW-3. In addition, all samples collected from MW-14A since September 2004 have contained elevated concentrations of vinyl chloride (VC) (ranging from 100 to 1,200 µg/L). Although VC is a breakdown product of PCE, TCE, and cis-1,2-DCE, no VC has ever been detected in the upgradient on-site well MW-3.

VOCs not included on Table 2, but reported in one or more samples during the Fourth Quarter 2005 monitoring event, included acetone and chloroform. Based on ERM's review, these detections were qualified as "non-detect" because acetone and chloroform were detected at similar concentrations in the field blank and trip blank.

## *SOIL VAPOR SAMPLING RESULTS*

Samples from ten soil vapor probes (SVP-1 through SVP-10, Figure 17) were collected on 14 November 2005. The results of the soil vapor

samples collected since April 2005 are summarized on Table 4. Note that only the compounds detected in one or more soil vapor sample are included on Table 4. The Fourth Quarter 2005 soil vapor results were generally consistent with previous monitoring data. Soil vapor results for PCE, TCE, cis-1,2-DCE, and 1,1-DCE are shown on Figures 18 through 21, respectively. The distribution of detected VOCs in soil vapor is generally consistent with alignment of the commingled ground water VOC plume.

Copies of the laboratory analytical reports are provided on the enclosed compact disc (Attachment A). ERM performed a data quality review of the November 2005 soil vapor laboratory analytical results. The findings of the review are also enclosed with this document. The review found that only one sample result (acetone at SVP-6) needed qualification. However, the review determined that all data, including qualified data, are acceptable and can be used for decision-making purposes, but the limitations indicated by the applied qualifiers should be considered when using the data.

## *PROJECT STATUS AND UPCOMING ACTIVITIES*

As stated in the Water Board's Order No. R2-2004-0081, monthly status reports are required for the project, but during months in which a quarterly monitoring report is submitted, the monthly status report can be incorporated into the quarterly report. Therefore, this document also provides the status report for January 2006.

During January 2006, the following activities were completed:

- Indoor air samples were collected from one additional home in the residential neighborhood;
- Field activities associated with the 1st Quarter 2006 monitoring event were conducted.

No field activities are currently planned for Hookston Station during February 2006.

If you have any questions regarding this report, please call Kimberly Lake or Brian Bjorklund at (925) 946-0455.

Sincerely,

PROFESSIONAL GEOLOGIST
KIMBERLY L. LAKE
No. 7792 EXP. 4/07
STATE OF CALIFORNIA

Kimberly L. Lake, P.G.
*Project Geologist*

Brian Bjorklund, P.G.
*Project Manager*

BSB/kll/0020557.10
enclosures: Tables 1 through 4
Figures 1 through 21
Attachment A - Data Review and Laboratory Analytical Reports (CD)

cc: Mr. Daniel Helix
Mr. Michael Grant, UPRR
Mr. Ron Block, Colony Park Neighbor's Association
Mr. Steve Campbell, Mt. Diablo Unified School District (e-copy)
Mr. Todd Teachout, City of Pleasant Hill (e-copy)
Mr. John Templeton, City of Concord (e-copy)
Ms. Barbara Cook, DTSC
Pleasant Hill Library

*Tables*

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| *Shallow Monitoring Wells* | | | | | | |
| MW-01 | 4/25/1990 | 10-20 | 64.52 | 15.07 | -- | 49.45 |
| | 5/8/1990 | 10-20 | 64.52 | 15.22 | -- | 49.30 |
| | 5/17/1990 | 10-20 | 64.52 | 15.33 | -- | 49.19 |
| | 3/19/1991 | 10-20 | 64.52 | 14.69 | -- | 49.83 |
| | 1/21/1992 | 10-20 | 64.52 | 16.04 | -- | 48.48 |
| | 4/2/1993 | 10-20 | 64.52 | 13.46 | -- | 51.06 |
| | 9/9/1993 | 10-20 | 64.52 | 16.26 | -- | 48.26 |
| | 9/16/1993 | 10-20 | 64.52 | 15.42 | -- | 49.10 |
| | 11/17/1995 | 10-20 | 64.52 | 15.29 | -- | 49.23 |
| | 6/29/2000 | 10-20 | 64.52 | 14.79 | -- | 49.73 |
| | 3/12/2001 | 10-20 | 64.52 | 14.24 | -- | 50.28 |
| | 6/27/2001 | 10-20 | 64.52 | 15.37 | -- | 49.15 |
| | 9/18/2001 | 10-20 | 64.52 | 15.90 | -- | 48.62 |
| | 12/20/2001 | 10-20 | 64.52 | 14.38 | -- | 50.14 |
| | 3/20/2002 | 10-20 | 64.52 | 14.47 | -- | 50.05 |
| | 6/2/2002 | 10-20 | 64.52 | 15.04 | -- | 49.48 |
| | 9/24/2002 | 10-20 | 64.52 | 15.65 | -- | 48.87 |
| | 11/14/2002 | 10-20 | 64.52 | 15.43 | -- | 49.09 |
| | 2/19/2003 | 10-20 | 64.52 | 14.10 | -- | 50.42 |
| | 5/6/2003 | 10-20 | 64.52 | 13.91 | -- | 50.61 |
| | 7/22/2003 | 10-20 | 64.52 | 15.01 | -- | 49.51 |
| | 10/24/2003 | 10-20 | 65.06 | 15.62 | -- | 49.44 |
| | 3/10/2004 | 10-20 | 65.06 | 13.95 | -- | 51.11 |
| | 4/19/2004 | 10-20 | 65.06 | 14.49 | -- | 50.57 |
| | 7/30/2004 | 10-20 | 65.06 | 15.28 | -- | 49.78 |
| | 9/13/2004 | 10-20 | 65.06 | 15.60 | -- | 49.46 |
| | 12/14/2004 | 10-20 | 65.06 | NM | -- | NM |
| | 2/10/2005 | 10-20 | 65.06 | 13.91 | -- | 51.15 |
| | 6/7/2005 | 10-20 | 65.06 | 14.13 | -- | 50.93 |
| | 9/13/2005 | 10-20 | 65.06 | 15.08 | -- | 49.98 |
| | 11/15/2005 | 10-20 | 65.06 | 15.27 | -- | 49.79 |
| MW-02 | 4/25/1990 | 11-21 | 68.48 | 17.43 | -- | 51.05 |
| | 5/8/1990 | 11-21 | 68.48 | 17.69 | -- | 50.79 |
| | 5/17/1990 | 11-21 | 68.48 | 17.82 | -- | 50.66 |
| | 3/19/1991 | 11-21 | 68.48 | 17.02 | -- | 51.46 |
| | 1/21/1992 | 11-21 | 68.48 | 18.39 | -- | 50.09 |
| | 4/1/1993 | 11-21 | 68.48 | 15.19 | -- | 53.29 |
| | 11/17/1995 | 11-21 | 68.48 | 17.76 | -- | 50.72 |
| | 6/27/2001 | 11-21 | 68.48 | NM* | -- | -- |
| MW-03 | 4/25/1990 | 10-20 | 65.20 | 16.40 | -- | 48.80 |
| | 5/8/1990 | 10-20 | 65.20 | 16.54 | -- | 48.66 |
| | 5/17/1990 | 10-20 | 65.20 | 16.64 | -- | 48.56 |
| | 3/19/1991 | 10-20 | 65.20 | 16.02 | -- | 49.19 |
| | 1/21/1992 | 10-20 | 65.20 | 17.33 | -- | 47.87 |
| | 4/2/1993 | 10-20 | 65.20 | 15.02 | -- | 50.18 |
| | 9/9/1993 | 10-20 | 65.20 | 16.69 | -- | 48.51 |
| | 9/16/1993 | 10-20 | 65.20 | 16.71 | -- | 48.49 |
| | 11/17/1995 | 10-20 | 65.20 | 16.42 | -- | 48.78 |
| | 6/29/2000 | 10-20 | 65.20 | 15.64 | -- | 49.56 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 3/12/2001 | 10-20 | 65.20 | 15.08 | -- | 50.12 |
| | 6/27/2001 | 10-20 | 65.20 | 16.11 | -- | 49.09 |
| | 9/18/2001 | 10-20 | 65.20 | 16.58 | -- | 48.62 |
| | 12/20/2001 | 10-20 | 65.20 | 15.46 | -- | 49.74 |
| | 3/20/2002 | 10-20 | 65.20 | 15.38 | -- | 49.82 |
| | 6/2/2002 | 10-20 | 65.20 | 15.87 | -- | 49.33 |
| | 9/24/2002 | 10-20 | 65.20 | 16.35 | -- | 48.85 |
| | 11/14/2002 | 10-20 | 65.20 | 16.19 | -- | 49.01 |
| | 2/19/2003 | 10-20 | 65.20 | 15.12 | -- | 50.08 |
| | 5/6/2003 | 10-20 | 65.20 | NM | -- | -- |
| | 7/22/2003 | 10-20 | 65.20 | NM | -- | -- |
| | 10/24/2003 | 10-20 | 65.20 | NM | -- | -- |
| | 3/10/2004 | 10-20 | 65.20 | 14.94 | -- | 50.26 |
| | 4/19/2004 | 10-20 | 65.56 | 15.75 | -- | 49.81 |
| | 7/30/2004 | 10-20 | 65.56 | 16.49 | -- | 49.07 |
| | 9/13/2004 | 10-20 | 65.56 | 16.71 | -- | 48.85 |
| | 12/14/2004 | 10-20 | 65.56 | 16.02 | -- | 49.54 |
| | 2/10/2005 | 10-20 | 65.56 | 15.23 | -- | 50.33 |
| | 6/7/2005 | 10-20 | 65.56 | 15.43 | -- | 50.13 |
| | 9/13/2005 | 10-20 | 65.56 | 16.22 | -- | 49.34 |
| | 11/15/2005 | 10-20 | 65.56 | 16.39 | | 49.17 |
| MW-04 | 4/25/1990 | 11-21 | 64.67 | 15.93 | -- | 48.74 |
| | 5/8/1990 | 11-21 | 64.67 | 16.04 | -- | 48.63 |
| | 5/17/1990 | 11-21 | 64.67 | 16.13 | -- | 48.54 |
| | 3/19/1991 | 11-21 | 64.67 | 15.65 | -- | 49.02 |
| | 1/21/1992 | 11-21 | 64.67 | 16.90 | 0.03 | 47.77 |
| | 4/2/1993 | 11-21 | 64.67 | 15.01 | 0.34 | 49.93 |
| | 9/9/1993 | 11-21 | 64.67 | 16.87 | 0.34 | 47.80 |
| | 9/16/1993 | 11-21 | 64.67 | 16.34 | 0.39 | 48.33 |
| | 11/17/1995 | 11-21 | 64.67 | 16.23 | 0.33 | 48.44 |
| | 6/29/2000 | 11-21 | 64.67 | 15.57 | -- | 49.10 |
| | 3/12/2001 | 11-21 | 64.67 | 15.15 | -- | 49.52 |
| | 6/27/2001 | 11-21 | 64.67 | 13.83 | -- | 50.84 |
| | 9/18/2001 | 11-21 | 64.67 | 16.23 | -- | 48.44 |
| | 12/20/2001 | 11-21 | 64.67 | 15.42 | 0.01 | 49.25 |
| | 3/20/2002 | 11-21 | 64.67 | 15.29 | -- | 49.38 |
| | 6/2/2002 | 11-21 | 64.67 | 15.70 | 0.01 | 48.97 |
| | 9/24/2002 | 11-21 | 64.67 | 15.99 | 0.01 | 48.68 |
| | 11/14/2002 | 11-21 | 64.67 | 15.91 | 0.01 | 48.76 |
| | 2/19/2003 | 11-21 | 64.67 | 15.09 | 0.01 | 49.58 |
| | 5/6/2003 | 11-21 | 64.67 | 14.94 | 0.01 | 49.73 |
| | 7/22/2003 | 11-21 | 64.67 | 15.61 | 0.01 | 49.06 |
| | 10/24/2003 | 11-21 | 64.95 | 16.05 | 0.01 | 48.90 |
| | 3/10/2004 | 11-21 | 64.95 | 14.95 | -- | 50.00 |
| | 4/19/2004 | 11-21 | 64.95 | 15.33 | -- | 49.62 |
| | 7/30/2004 | 11-21 | 64.95 | 15.79 | -- | 49.16 |
| | 9/13/2004 | 11-21 | 64.95 | 16.01 | -- | 48.94 |
| | 12/14/2004 | 11-21 | 64.95 | 15.52 | -- | 49.43 |
| | 2/10/2005 | 11-21 | 64.95 | 14.87 | -- | 50.08 |
| | 6/7/2005 | 11-21 | 64.95 | 15.02 | -- | 49.93 |
| | 9/13/2005 | 11-21 | 64.95 | 15.63 | -- | 49.32 |

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| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 11/15/2005 | 11-21 | 64.95 | 15.85 | -- | 49.10 |
| MW-05 | 3/19/1991 | 10-30 | 68.60 | 17.52 | -- | 51.08 |
| | 1/21/1992 | 10-30 | 68.60 | 18.89 | -- | 49.71 |
| | 4/1/1993 | 10-30 | 68.60 | 15.72 | -- | 52.88 |
| | 9/16/1993 | 10-30 | 68.60 | 18.36 | -- | 50.24 |
| | 11/17/1995 | 10-30 | 68.60 | 18.24 | -- | 50.36 |
| | 6/28/2000 | 10-30 | 68.60 | 16.65 | -- | 51.95 |
| | 3/12/2001 | 10-30 | 68.60 | 15.90 | -- | 52.70 |
| | 6/27/2001 | 10-30 | 68.60 | 17.48 | -- | 51.12 |
| | 9/18/2001 | 10-30 | 68.60 | 18.15 | -- | 50.45 |
| | 12/20/2001 | 10-30 | 68.60 | 17.78 | -- | 50.82 |
| | 3/20/2002 | 10-30 | 68.60 | 16.26 | -- | 52.34 |
| | 6/2/2002 | 10-30 | 68.60 | 17.10 | -- | 51.50 |
| | 9/24/2002 | 10-30 | 68.60 | 18.05 | -- | 50.55 |
| | 11/14/2002 | 10-30 | 68.60 | 17.75 | -- | 50.85 |
| | 2/19/2003 | 10-30 | 68.60 | 15.91 | -- | 52.69 |
| | 5/6/2003 | 10-30 | 68.60 | 15.47 | -- | 53.13 |
| | 7/22/2003 | 10-30 | 68.60 | 16.99 | -- | 51.61 |
| | 10/24/2003 | 10-30 | 68.58 | 17.89 | -- | 50.69 |
| | 3/10/2004 | 10-30 | 68.58 | 15.57 | -- | 53.01 |
| | 4/19/2004 | 10-30 | 68.58 | 16.30 | -- | 52.28 |
| | 7/30/2004 | 10-30 | 68.58 | 17.58 | -- | 51.00 |
| | 9/13/2004 | 10-30 | 68.58 | 17.95 | -- | 50.63 |
| | 12/14/2004 | 10-30 | 68.58 | 16.95 | -- | 51.63 |
| | 2/10/2005 | 10-30 | 68.58 | 15.47 | -- | 53.11 |
| | 6/7/2005 | 10-30 | 68.58 | 15.73 | -- | 52.85 |
| | 9/13/2005 | 10-30 | 68.58 | 17.13 | -- | 51.45 |
| | 11/15/2005 | 10-30 | 68.58 | 17.40 | -- | 51.18 |
| MW-06 | 3/19/1991 | 15-35 | 72.82 | 19.69 | -- | 53.13 |
| | 1/21/1992 | 15-35 | 72.82 | 20.84 | -- | 51.98 |
| | 4/1/1993 | 15-35 | 72.82 | 17.25 | -- | 55.57 |
| | 9/16/1993 | 15-35 | 72.82 | 20.64 | -- | 52.18 |
| | 11/17/1995 | 15-35 | 72.82 | 20.02 | -- | 52.80 |
| | 6/28/2000 | 15-35 | 72.82 | 18.50 | -- | 54.32 |
| | 3/12/2001 | 15-35 | 72.82 | 17.30 | -- | 55.52 |
| | 6/27/2001 | 15-35 | 72.82 | 19.29 | -- | 53.53 |
| | 9/18/2001 | 15-35 | 72.82 | 21.50 | -- | 51.32 |
| | 12/20/2001 | 15-35 | 72.82 | 18.27 | -- | 54.55 |
| | 3/20/2002 | 15-35 | 72.82 | 17.71 | -- | 55.11 |
| | 6/2/2002 | 15-35 | 72.82 | 18.67 | -- | 54.15 |
| | 9/24/2002 | 15-35 | 72.82 | 19.81 | -- | 53.01 |
| | 11/14/2002 | 15-35 | 72.82 | 19.60 | -- | 53.22 |
| | 2/19/2003 | 15-35 | 72.82 | 17.22 | -- | 55.60 |
| | 5/6/2003 | 15-35 | 72.82 | 16.95 | -- | 55.87 |
| | 7/22/2003 | 15-35 | 72.82 | 18.60 | -- | 54.22 |
| | 10/24/2003 | 15-35 | 72.80 | 19.65 | -- | 53.15 |
| | 3/10/2004 | 15-35 | 72.80 | 16.89 | -- | 55.91 |
| | 4/19/2004 | 15-35 | 72.80 | 17.65 | -- | 55.15 |
| | 7/30/2004 | 15-35 | 72.80 | 19.38 | -- | 53.42 |
| | 9/13/2004 | 15-35 | 72.80 | 19.76 | -- | 53.04 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 12/14/2004 | 15-35 | 72.80 | 18.65 | -- | 54.15 |
| | 2/10/2005 | 15-35 | 72.80 | 16.70 | -- | 56.10 |
| | 6/7/2005 | 15-35 | 72.80 | 16.93 | -- | 55.87 |
| | 9/13/2005 | 15-35 | 72.80 | 18.61 | -- | 54.19 |
| | 11/15/2005 | 15-35 | 72.80 | 18.81 | -- | 53.99 |
| MW-07 | 8/25/1993 | 15-35 | 65.09 | 17.54 | -- | 47.55 |
| | 9/9/1993 | 15-35 | 65.09 | 17.05 | -- | 48.04 |
| | 9/16/1993 | 15-35 | 65.09 | 16.56 | -- | 48.53 |
| | 11/17/1995 | 15-35 | 65.09 | 16.46 | -- | 48.63 |
| | 6/29/2000 | 15-35 | 65.09 | 15.68 | -- | 49.41 |
| | 3/12/2001 | 15-35 | 65.09 | 15.29 | -- | 49.80 |
| | 6/27/2001 | 15-35 | 65.09 | 16.11 | -- | 48.98 |
| | 9/18/2001 | 15-35 | 65.09 | 16.45 | -- | 48.64 |
| | 12/20/2001 | 15-35 | 65.09 | 15.58 | -- | 49.51 |
| | 3/20/2002 | 15-35 | 65.09 | 15.46 | -- | 49.63 |
| | 6/2/2002 | 15-35 | 65.09 | 15.88 | -- | 49.21 |
| | 9/24/2002 | 15-35 | 65.09 | 16.31 | -- | 48.78 |
| | 11/14/2002 | 15-35 | 65.09 | 16.15 | -- | 48.94 |
| | 2/19/2003 | 15-35 | 65.09 | 15.26 | -- | 49.83 |
| | 5/6/2003 | 15-35 | 65.09 | 15.08 | -- | 50.01 |
| | 7/22/2003 | 15-35 | 65.09 | 15.75 | -- | 49.34 |
| | 10/24/2003 | 15-35 | 65.18 | 16.25 | -- | 48.93 |
| | 3/10/2004 | 15-35 | 65.18 | 15.03 | -- | 50.15 |
| | 4/19/2004 | 15-35 | 65.18 | 15.44 | -- | 49.74 |
| | 7/30/2004 | 15-35 | 65.18 | 16.04 | -- | 49.14 |
| | 9/13/2004 | 15-35 | 65.18 | 16.23 | -- | 48.95 |
| | 12/14/2004 | 15-35 | 65.18 | 15.73 | -- | 49.45 |
| | 2/10/2005 | 15-35 | 65.18 | 15.05 | -- | 50.13 |
| | 6/7/2005 | 15-35 | 65.18 | 15.21 | -- | 49.97 |
| | 9/13/2005 | 15-35 | 65.18 | 15.89 | -- | 49.29 |
| | 11/15/2005 | 15-35 | 65.18 | 16.00 | -- | 49.18 |
| MW-08A | 10/9/2003 | 10-25 | 66.80 | 16.98 | -- | 49.82 |
| | 3/10/2004 | 10-25 | 66.80 | 15.00 | -- | 51.80 |
| | 4/19/2004 | 10-25 | 66.80 | 15.69 | -- | 51.11 |
| | 7/30/2004 | 10-25 | 66.80 | 16.75 | -- | 50.05 |
| | 9/13/2004 | 10-25 | 66.80 | 17.08 | -- | 49.72 |
| | 12/14/2004 | 10-25 | 66.80 | 16.74 | -- | 50.06 |
| | 2/10/2005 | 10-25 | 66.80 | 15.00 | -- | 51.80 |
| | 6/7/2005 | 10-25 | 66.80 | 15.23 | -- | 51.57 |
| | 9/13/2005 | 10-25 | 66.80 | 16.41 | -- | 50.39 |
| | 11/15/2005 | 10-25 | 66.80 | 16.61 | -- | 50.19 |
| MW-11A | 10/9/2003 | 10-25 | 70.05 | 18.80 | -- | 51.25 |
| | 3/10/2004 | 10-25 | 70.05 | 15.35 | -- | 54.70 |
| | 4/19/2004 | 10-25 | 70.05 | 16.12 | -- | 53.93 |
| | 7/30/2004 | 10-25 | 70.05 | 17.72 | -- | 52.33 |
| | 9/13/2004 | 10-25 | 70.05 | 18.10 | -- | 51.95 |
| | 12/14/2004 | 10-25 | 70.05 | 17.23 | -- | 52.82 |
| | 2/10/2005 | 10-25 | 70.05 | 15.14 | -- | 54.91 |
| | 6/7/2005 | 10-25 | 70.05 | 15.39 | -- | 54.66 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 9/13/2005 | 10-25 | 70.05 | 16.93 | -- | 53.12 |
| | 11/15/2005 | 10-25 | 70.05 | 17.20 | -- | 52.85 |
| MW-12A | 10/9/2003 | 10-25 | 70.13 | -- | -- | -- |
| | 3/10/2004 | 10-25 | 70.13 | 15.45 | -- | 54.68 |
| | 4/19/2004 | 10-25 | 70.13 | 16.22 | -- | 53.91 |
| | 7/30/2004 | 10-25 | 70.13 | 18.45 | -- | 51.68 |
| | 9/13/2004 | 10-25 | 70.13 | 18.30 | -- | 51.83 |
| | 12/14/2004 | 10-25 | 70.13 | 17.16 | -- | 52.97 |
| | 2/10/2005 | 10-25 | 70.13 | 15.32 | -- | 54.81 |
| | 6/7/2005 | 10-25 | 70.13 | 15.80 | -- | 54.33 |
| | 9/13/2005 | 10-25 | 70.13 | 17.10 | -- | 53.03 |
| | 11/15/2005 | 10-25 | 70.13 | 17.35 | -- | 52.78 |
| MW-13A | 10/9/2003 | 18-33 | 67.67 | 17.06 | -- | 50.61 |
| | 3/10/2004 | 18-33 | 67.67 | 14.62 | -- | 53.05 |
| | 4/19/2004 | 18-33 | 67.67 | 15.50 | -- | 52.17 |
| | 7/30/2004 | 18-33 | 67.67 | 16.80 | -- | 50.87 |
| | 9/13/2004 | 18-33 | 67.67 | 17.18 | -- | 50.49 |
| | 12/14/2004 | 18-33 | 67.67 | 17.38 | -- | 50.29 |
| | 2/10/2005 | 18-33 | 67.67 | 14.60 | -- | 53.07 |
| | 6/7/2005 | 18-33 | 67.67 | 14.71 | -- | 52.96 |
| | 9/13/2005 | 18-33 | 67.67 | 15.33 | -- | 52.34 |
| | 11/15/2005 | 18-33 | 67.67 | 16.50 | -- | 51.17 |
| MW-14A | 3/10/2004 | 29-34 | 64.71 | 14.62 | -- | 50.09 |
| | 4/19/2004 | 29-34 | 64.71 | 15.58 | -- | 49.13 |
| | 7/30/2004 | 29-34 | 64.71 | 16.63 | -- | 48.08 |
| | 9/13/2004 | 29-34 | 64.71 | 16.89 | -- | 47.82 |
| | 12/14/2004 | 29-34 | 64.71 | 16.30 | -- | 48.41 |
| | 2/10/2005 | 29-34 | 64.71 | 14.86 | -- | 49.85 |
| | 6/7/2005 | 29-34 | 64.71 | 14.99 | -- | 49.72 |
| | 9/13/2005 | 29-34 | 64.71 | 15.76 | -- | 48.95 |
| | 11/15/2005 | 29-34 | 64.71 | 16.41 | -- | 48.30 |
| MW-15A | 3/10/2004 | 14.5-24.5 | 63.68 | 14.72 | -- | 48.96 |
| | 4/19/2004 | 14.5-24.5 | 63.68 | 15.67 | -- | 48.01 |
| | 7/30/2004 | 14.5-24.5 | 63.68 | 16.41 | -- | 47.27 |
| | 9/13/2004 | 14.5-24.5 | 63.68 | 16.57 | -- | 47.11 |
| | 12/14/2004 | 14.5-24.5 | 63.68 | 15.89 | -- | 47.79 |
| | 2/10/2005 | 14.5-24.5 | 63.68 | 15.07 | -- | 48.61 |
| | 6/7/2005 | 14.5-24.5 | 63.68 | 15.39 | -- | 48.29 |
| | 9/13/2005 | 14.5-24.5 | 63.68 | 16.23 | -- | 47.45 |
| | 11/15/2005 | 14.5-24.5 | 63.68 | 16.40 | -- | 47.28 |
| MW-16A | 3/10/2004 | 15-25 | 61.15 | 14.11 | -- | 47.04 |
| | 4/19/2004 | 15-25 | 61.15 | 15.52 | -- | 45.63 |
| | 7/30/2004 | 15-25 | 61.15 | 16.35 | -- | 44.80 |
| | 9/13/2004 | 15-25 | 61.15 | 16.58 | -- | 44.57 |
| | 12/14/2004 | 15-25 | 61.15 | 15.73 | -- | 45.42 |
| | 2/10/2005 | 15-25 | 61.15 | 14.69 | -- | 46.46 |
| | 6/7/2005 | 15-25 | 61.15 | 14.83 | -- | 46.32 |
| | 9/13/2005 | 15-25 | 61.15 | 15.74 | -- | 45.41 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 11/17/2005 | 15-25 | 61.15 | 16.28 | -- | 44.87 |
| MW-17A | 3/10/2004 | 20.7-30.7 | 64.61 | 21.90 | -- | 42.71 |
| | 4/19/2004 | 20.7-30.7 | 64.61 | 22.91 | -- | 41.70 |
| | 7/30/2004 | 20.7-30.7 | 64.61 | 23.41 | -- | 41.20 |
| | 9/13/2004 | 20.7-30.7 | 64.61 | 23.48 | -- | 41.13 |
| | 12/14/2004 | 20.7-30.7 | 64.61 | 22.84 | -- | 41.77 |
| | 2/10/2005 | 20.7-30.7 | 64.61 | 21.05 | -- | 43.56 |
| | 6/7/2005 | 20.7-30.7 | 64.61 | 22.54 | -- | 42.07 |
| | 9/13/2005 | 20.7-30.7 | 64.61 | 23.25 | -- | 41.36 |
| | 11/15/2005 | 20.7-30.7 | 64.61 | 23.39 | -- | 41.22 |
| MW-18A | 3/10/2004 | 14.7-24.7 | 69.10 | 17.35 | -- | 51.75 |
| | 4/19/2004 | 14.7-24.7 | 69.10 | 18.48 | -- | 50.62 |
| | 7/30/2004 | 14.7-24.7 | 69.10 | 19.81 | -- | 49.29 |
| | 9/13/2004 | 14.7-24.7 | 69.10 | 20.12 | -- | 48.98 |
| | 12/14/2004 | 14.7-24.7 | 69.10 | 19.05 | -- | 50.05 |
| | 2/10/2005 | 14.7-24.7 | 69.10 | 17.60 | -- | 51.50 |
| | 6/7/2005 | 14.7-24.7 | 69.10 | 18.00 | -- | 51.10 |
| | 9/13/2005 | 14.7-24.7 | 69.10 | 19.35 | -- | 49.75 |
| | 11/15/2005 | 14.7-24.7 | 69.10 | 19.52 | -- | 49.58 |
| MW-19A | 3/10/2004 | 14-24 | 67.32 | 20.30 | -- | 47.02 |
| | 4/19/2004 | 14-24 | 67.32 | 21.25 | -- | 46.07 |
| | 7/30/2004 | 14-24 | 67.32 | 22.13 | -- | 45.19 |
| | 9/13/2004 | 14-24 | 67.32 | 22.40 | -- | 44.92 |
| | 12/14/2004 | 14-24 | 67.32 | 21.55 | -- | 45.77 |
| | 2/10/2005 | 14-24 | 67.32 | 20.44 | -- | 46.88 |
| | 6/7/2005 | 14-24 | 67.32 | 20.93 | -- | 46.39 |
| | 9/13/2005 | 14-24 | 67.32 | 22.14 | -- | 45.18 |
| | 11/15/2005 | 14-24 | 67.32 | 22.22 | -- | 45.10 |
| MW-20A | 3/10/2004 | 10-20 | 66.47 | 11.89 | -- | 54.58 |
| | 4/19/2004 | 10-20 | 66.47 | 12.73 | -- | 53.74 |
| | 7/30/2004 | 10-20 | 66.47 | 14.19 | -- | 52.28 |
| | 9/13/2004 | 10-20 | 66.47 | 14.68 | -- | 51.79 |
| | 12/14/2004 | 10-20 | 66.47 | 13.45 | -- | 53.02 |
| | 2/10/2005 | 10-20 | 66.47 | 11.60 | -- | 54.87 |
| | 6/7/2005 | 10-20 | 66.47 | 12.04 | -- | 54.43 |
| | 9/13/2005 | 10-20 | 66.47 | 13.62 | -- | 52.85 |
| | 11/15/2005 | 10-20 | 66.47 | 13.95 | -- | 52.52 |
| MW-21A | 3/10/2004 | 10-20 | 65.81 | 12.23 | -- | 53.58 |
| | 4/19/2004 | 10-20 | 65.81 | 13.00 | -- | 52.81 |
| | 7/30/2004 | 10-20 | 65.81 | 14.33 | -- | 51.48 |
| | 9/13/2004 | 10-20 | 65.81 | 14.55 | -- | 51.26 |
| | 12/14/2004 | 10-20 | 65.81 | 13.69 | -- | 52.12 |
| | 2/10/2005 | 10-20 | 65.81 | 12.04 | -- | 53.77 |
| | 6/7/2005 | 10-20 | 65.81 | 12.42 | -- | 53.39 |
| | 9/13/2005 | 10-20 | 65.81 | 13.90 | -- | 51.91 |
| | 11/15/2005 | 10-20 | 65.81 | 14.22 | -- | 51.59 |
| MW-22A | 3/10/2004 | 15-25 | 64.11 | 14.51 | -- | 49.60 |
| | 4/19/2004 | 15-25 | 64.11 | 14.90 | -- | 49.21 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 7/30/2004 | 15-25 | 64.11 | 15.31 | -- | 48.80 |
| | 9/13/2004 | 15-25 | 64.11 | 15.46 | -- | 48.65 |
| | 12/14/2004 | 15-25 | 64.11 | 14.98 | -- | 49.13 |
| | 2/10/2005 | 15-25 | 64.11 | 14.45 | -- | 49.66 |
| | 6/7/2005 | 15-25 | 64.11 | 14.67 | -- | 49.44 |
| | 9/13/2005 | 15-25 | 64.11 | 15.11 | -- | 49.00 |
| | 11/15/2005 | 15-25 | 64.11 | 15.31 | -- | 48.80 |
| MW-23A | 7/30/2004 | 17-27 | 63.74 | 18.64 | -- | 45.10 |
| | 9/13/2004 | 17-27 | 63.74 | 18.87 | -- | 44.87 |
| | 12/14/2004 | 17-27 | 63.74 | 18.04 | -- | 45.70 |
| | 2/10/2005 | 17-27 | 63.74 | 17.18 | -- | 46.56 |
| | 6/7/2005 | 17-27 | 63.74 | 17.14 | -- | 46.60 |
| | 9/13/2005 | 17-27 | 63.74 | 18.36 | -- | 45.38 |
| | 11/15/2005 | 17-27 | 63.74 | 18.56 | -- | 45.18 |
| MW-24A | 3/15/2004 | 19.5-29.5 | 61.04 | 16.55 | -- | 44.49 |
| | 4/19/2004 | 19.5-29.5 | 61.04 | 17.38 | -- | 43.66 |
| | 7/30/2004 | 19.5-29.5 | 61.04 | 18.05 | -- | 42.99 |
| | 9/13/2004 | 19.5-29.5 | 61.04 | 18.31 | -- | 42.73 |
| | 12/14/2004 | 19.5-29.5 | 61.04 | 17.42 | -- | 43.62 |
| | 2/10/2005 | 19.5-29.5 | 61.04 | 16.64 | -- | 44.40 |
| | 6/7/2005 | 19.5-29.5 | 61.04 | 16.66 | -- | 44.38 |
| | 9/13/2005 | 19.5-29.5 | 61.04 | 17.88 | -- | 43.16 |
| | 11/15/2005 | 19.5-29.5 | 61.04 | 18.00 | | 43.04 |
| MW-25A | 7/30/2004 | 18-28 | 65.37 | 23.17 | -- | 42.20 |
| | 9/13/2004 | 18-28 | 65.37 | 23.40 | -- | 41.97 |
| | 12/14/2004 | 18-28 | 65.37 | 22.55 | -- | 42.82 |
| | 2/10/2005 | 18-28 | 65.37 | 21.67 | -- | 43.70 |
| | 6/7/2005 | 18-28 | 65.37 | 21.90 | -- | 43.47 |
| | 9/13/2005 | 18-28 | 65.37 | 22.94 | -- | 42.43 |
| | 11/15/2005 | 18-28 | 65.37 | 23.09 | -- | 42.28 |
| ***Intermediate Monitoring Wells*** | | | | | | |
| MW-01D | 4/27/1993 | 45-60 | 66.56 | 16.37 | -- | 50.19 |
| | 9/16/1993 | 45-60 | 66.56 | 18.43 | -- | 48.13 |
| | 11/17/1995 | 45-60 | 66.56 | 18.04 | -- | 48.52 |
| | 6/29/2000 | 45-60 | 66.56 | 17.02 | -- | 49.54 |
| | 3/12/2001 | 45-60 | 66.56 | 16.00 | -- | 50.56 |
| | 6/27/2001 | 45-60 | 66.56 | 17.76 | -- | 48.80 |
| | 9/18/2001 | 45-60 | 66.56 | 18.20 | -- | 48.36 |
| | 12/20/2001 | 45-60 | 66.56 | 16.85 | -- | 49.71 |
| | 3/20/2002 | 45-60 | 66.56 | 16.47 | -- | 50.09 |
| | 6/2/2002 | 45-60 | 66.56 | 17.29 | -- | 49.27 |
| | 9/24/2002 | 45-60 | 66.56 | 18.13 | -- | 48.43 |
| | 11/14/2002 | 45-60 | 66.56 | 17.68 | -- | 48.88 |
| | 2/19/2003 | 45-60 | 66.56 | 16.19 | -- | 50.37 |
| | 5/6/2003 | 45-60 | 66.56 | 15.71 | -- | 50.85 |
| | 7/22/2003 | 45-60 | 66.56 | 17.04 | -- | 49.52 |
| MW-08B** | 10/24/2003 | 45-60 | 66.65 | 17.92 | -- | 48.73 |
| | 3/10/2004 | 45-60 | 66.65 | 15.58 | -- | 51.07 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 4/19/2004 | 45-60 | 66.65 | 16.54 | -- | 50.11 |
| | 7/30/2004 | 45-60 | 66.65 | 17.74 | -- | 48.91 |
| | 9/13/2004 | 45-60 | 66.65 | 18.03 | -- | 48.62 |
| | 12/14/2004 | 45-60 | 66.65 | 16.99 | -- | 49.66 |
| | 2/10/2005 | 45-60 | 66.65 | 15.69 | -- | 50.96 |
| | 6/7/2005 | 45-60 | 66.65 | 16.04 | -- | 50.61 |
| | 9/13/2005 | 45-60 | 66.65 | 17.27 | -- | 49.38 |
| | 11/15/2005 | 45-60 | 66.65 | 17.46 | -- | 49.19 |
| MW-02D | 8/25/1993 | 50.5-60.5 | 61.71 | 13.45 | -- | 48.26 |
| | 9/16/1993 | 50.5-60.5 | 61.71 | 15.42 | -- | 46.29 |
| | 11/17/1995 | 50.5-60.5 | 61.71 | 14.78 | -- | 46.93 |
| | 6/28/2000 | 50.5-60.5 | 61.71 | 15.01 | -- | 46.70 |
| | 3/12/2001 | 50.5-60.5 | 61.71 | 12.94 | -- | 48.77 |
| | 6/27/2001 | 50.5-60.5 | 61.71 | 14.43 | -- | 47.28 |
| | 9/18/2001 | 50.5-60.5 | 61.71 | 16.10 | -- | 45.61 |
| | 12/20/2001 | 50.5-60.5 | 61.71 | 15.00 | -- | 46.71 |
| | 3/20/2002 | 50.5-60.5 | 61.71 | 14.02 | -- | 47.69 |
| | 6/2/2002 | 50.5-60.5 | 61.71 | 14.93 | -- | 46.78 |
| | 9/24/2002 | 50.5-60.5 | 61.71 | 15.74 | -- | 45.97 |
| | 11/14/2002 | 50.5-60.5 | 61.71 | 14.93 | -- | 46.78 |
| | 2/19/2003 | 50.5-60.5 | 61.71 | 13.60 | -- | 48.11 |
| | 5/6/2003 | 50.5-60.5 | 61.71 | 13.54 | -- | 48.17 |
| | 7/22/2003 | 50.5-60.5 | 61.71 | 14.93 | -- | 46.78 |
| MW-09B** | 10/24/2003 | 50.5-60.5 | 61.74 | 16.16 | -- | 45.58 |
| | 3/10/2004 | 50.5-60.5 | 61.74 | 13.14 | -- | 48.60 |
| | 4/19/2004 | 50.5-60.5 | 61.74 | 13.97 | -- | 47.77 |
| | 7/30/2004 | 50.5-60.5 | 61.74 | 15.58 | -- | 46.16 |
| | 9/13/2004 | 50.5-60.5 | 61.74 | 16.71 | -- | 45.03 |
| | 12/14/2004 | 50.5-60.5 | 61.74 | 14.85 | -- | 46.89 |
| | 2/10/2005 | 50.5-60.5 | 61.74 | 13.15 | -- | 48.59 |
| | 6/7/2005 | 50.5-60.5 | 61.74 | 13.57 | -- | 48.17 |
| | 9/13/2005 | 50.5-60.5 | 61.74 | 14.33 | -- | 47.41 |
| | 11/15/2005 | 50.5-60.5 | 61.74 | 14.83 | -- | 46.91 |
| MW-03D | 8/25/1993 | 40-50 | 64.10 | 9.47 | -- | 54.63 |
| | 9/16/1993 | 40-50 | 64.10 | 19.49 | -- | 44.61 |
| | 11/17/1995 | 40-50 | 64.10 | 19.18 | -- | 44.92 |
| | 6/28/2000 | 40-50 | 64.10 | 18.17 | -- | 45.93 |
| | 3/12/2001 | 40-50 | 64.10 | 17.09 | -- | 47.01 |
| | 6/27/2001 | 40-50 | 64.10 | 18.72 | -- | 45.38 |
| | 9/18/2001 | 40-50 | 64.10 | 19.20 | -- | 44.90 |
| | 12/20/2001 | 40-50 | 64.10 | 17.87 | -- | 46.23 |
| | 3/20/2002 | 40-50 | 64.10 | 17.68 | -- | 46.42 |
| | 6/2/2002 | 40-50 | 64.10 | 18.34 | -- | 45.76 |
| | 9/24/2002 | 40-50 | 64.10 | 19.08 | -- | 45.02 |
| | 11/14/2002 | 40-50 | 64.10 | 18.65 | -- | 45.45 |
| | 2/19/2003 | 40-50 | 64.10 | 17.51 | -- | 46.59 |
| | 5/6/2003 | 40-50 | 64.10 | 16.95 | -- | 47.15 |
| | 7/22/2003 | 40-50 | 64.10 | 18.08 | -- | 46.02 |
| MW10B** | 10/24/2003 | 40-50 | 64.21 | 18.87 | -- | 45.34 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 3/10/2004 | 40-50 | 64.21 | 16.63 | -- | 47.58 |
| | 4/19/2004 | 40-50 | 64.21 | 17.80 | -- | 46.41 |
| | 7/30/2004 | 40-50 | 64.21 | 18.61 | -- | 45.60 |
| | 9/13/2004 | 40-50 | 64.21 | 18.85 | -- | 45.36 |
| | 12/14/2004 | 40-50 | 64.21 | 18.03 | -- | 46.18 |
| | 2/10/2005 | 40-50 | 64.21 | 17.07 | -- | 47.14 |
| | 6/7/2005 | 40-50 | 64.21 | 17.26 | -- | 46.95 |
| | 9/13/2005 | 40-50 | 64.21 | 18.41 | -- | 45.80 |
| | 11/15/2005 | 40-50 | 64.21 | 18.58 | -- | 45.63 |
| MW-11B | 10/9/2003 | 40-50 | 70.22 | 17.80 | -- | 52.42 |
| | 3/10/2004 | 40-50 | 70.22 | 15.35 | -- | 54.87 |
| | 4/19/2004 | 40-50 | 70.22 | 16.19 | -- | 54.03 |
| | 7/30/2004 | 40-50 | 70.22 | 17.70 | -- | 52.52 |
| | 9/13/2004 | 40-50 | 70.22 | 18.36 | -- | 51.86 |
| | 12/14/2004 | 40-50 | 70.22 | 17.11 | -- | 53.11 |
| | 2/10/2005 | 40-50 | 70.22 | 15.08 | -- | 55.14 |
| | 6/7/2005 | 40-50 | 70.22 | 15.45 | -- | 54.77 |
| | 9/13/2005 | 40-50 | 70.22 | 16.92 | -- | 53.30 |
| | 11/15/2005 | 40-50 | 70.22 | 17.06 | -- | 53.16 |
| MW-12B | 10/9/2003 | 50-60 | 70.15 | 19.87 | -- | 50.28 |
| | 3/10/2004 | 50-60 | 70.15 | 17.33 | -- | 52.82 |
| | 4/19/2004 | 50-60 | 70.15 | 19.09 | -- | 51.06 |
| | 7/30/2004 | 50-60 | 70.15 | 19.70 | -- | 50.45 |
| | 9/13/2004 | 50-60 | 70.15 | 20.10 | -- | 50.05 |
| | 12/14/2004 | 50-60 | 70.15 | 18.86 | -- | 51.29 |
| | 2/10/2005 | 50-60 | 70.15 | 17.32 | -- | 52.83 |
| | 6/7/2005 | 50-60 | 70.15 | 19.65 | -- | 50.50 |
| | 9/13/2005 | 50-60 | 70.15 | 18.31 | -- | 51.84 |
| | 11/15/2005 | 50-60 | 70.15 | 15.49 | -- | 54.66 |
| MW-13B | 10/9/2003 | 45-55 | 67.61 | 19.26 | -- | 48.35 |
| | 3/10/2004 | 45-55 | 67.61 | 15.82 | -- | 51.79 |
| | 4/19/2004 | 45-55 | 67.61 | 16.81 | -- | 50.80 |
| | 7/30/2004 | 45-55 | 67.61 | 18.02 | -- | 49.59 |
| | 9/13/2004 | 45-55 | 67.61 | 18.26 | -- | 49.35 |
| | 12/14/2004 | 45-55 | 67.61 | 18.43 | -- | 49.18 |
| | 2/10/2005 | 45-55 | 67.61 | 15.87 | -- | 51.74 |
| | 6/7/2005 | 45-55 | 67.61 | 16.21 | -- | 51.40 |
| | 9/13/2005 | 45-55 | 67.61 | 17.42 | -- | 50.19 |
| | 11/15/2005 | 45-55 | 67.61 | 17.67 | -- | 49.94 |
| MW-14B | 3/10/2004 | 40-50 | 64.69 | 14.58 | -- | 50.11 |
| | 4/19/2004 | 40-50 | 64.69 | 15.58 | -- | 49.11 |
| | 7/30/2004 | 40-50 | 64.69 | 16.68 | -- | 48.01 |
| | 9/13/2004 | 40-50 | 64.69 | 16.94 | -- | 47.75 |
| | 12/14/2004 | 40-50 | 64.69 | 15.99 | -- | 48.70 |
| | 2/10/2005 | 40-50 | 64.69 | 14.80 | -- | 49.89 |
| | 6/7/2005 | 40-50 | 64.69 | 15.14 | -- | 49.55 |
| | 9/13/2005 | 40-50 | 64.69 | 16.31 | -- | 48.38 |
| | 11/15/2005 | 40-50 | 64.69 | 16.46 | -- | 48.23 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| MW-15B | 3/10/2004 | 49-59 | 64.23 | 15.22 | -- | 49.01 |
| | 4/19/2004 | 49-59 | 64.23 | 16.23 | -- | 48.00 |
| | 7/30/2004 | 49-59 | 64.23 | 17.24 | -- | 46.99 |
| | 9/13/2004 | 49-59 | 64.23 | 17.48 | -- | 46.75 |
| | 12/14/2004 | 49-59 | 64.23 | 17.12 | -- | 47.11 |
| | 2/10/2005 | 49-59 | 64.23 | 15.51 | -- | 48.72 |
| | 6/7/2005 | 49-59 | 64.23 | 15.55 | -- | 48.68 |
| | 9/13/2005 | 49-59 | 64.23 | 16.31 | -- | 47.92 |
| | 11/15/2005 | 49-59 | 64.23 | 17.11 | -- | 47.12 |
| MW-16B | 3/10/2004 | 35-45 | 61.06 | 14.35 | -- | 46.71 |
| | 4/19/2004 | 35-45 | 61.06 | 15.66 | -- | 45.40 |
| | 7/30/2004 | 35-45 | 61.06 | 16.46 | -- | 44.60 |
| | 9/13/2004 | 35-45 | 61.06 | 16.70 | -- | 44.36 |
| | 12/14/2004 | 35-45 | 61.06 | 15.81 | -- | 45.25 |
| | 2/10/2005 | 35-45 | 61.06 | 14.90 | -- | 46.16 |
| | 6/7/2005 | 35-45 | 61.06 | 15.08 | -- | 45.98 |
| | 9/13/2005 | 35-45 | 61.06 | 16.34 | -- | 44.72 |
| | 11/17/2005 | 35-45 | 61.06 | 16.48 | -- | 44.58 |
| MW-17B | 3/10/2004 | 44-54 | 64.53 | 21.82 | -- | 42.71 |
| | 4/19/2004 | 44-54 | 64.53 | 22.82 | -- | 41.71 |
| | 7/30/2004 | 44-54 | 64.53 | 23.31 | -- | 41.22 |
| | 9/13/2004 | 44-54 | 64.53 | 23.40 | -- | 41.13 |
| | 12/14/2004 | 44-54 | 64.53 | 22.90 | -- | 41.63 |
| | 2/10/2005 | 44-54 | 64.53 | 22.22 | -- | 42.31 |
| | 6/7/2005 | 44-54 | 64.53 | 22.41 | -- | 42.12 |
| | 9/13/2005 | 44-54 | 64.53 | 23.05 | -- | 41.48 |
| | 11/15/2005 | 44-54 | 64.53 | 23.27 | -- | 41.26 |
| MW-18B | 3/10/2004 | 32-42 | 69.27 | 17.61 | -- | 51.66 |
| | 4/19/2004 | 32-42 | 69.27 | 18.71 | -- | 50.56 |
| | 7/30/2004 | 32-42 | 69.27 | 20.02 | -- | 49.25 |
| | 9/13/2004 | 32-42 | 69.27 | 20.30 | -- | 48.97 |
| | 12/14/2004 | 32-42 | 69.27 | 19.21 | -- | 50.06 |
| | 2/10/2005 | 32-42 | 69.27 | 17.81 | -- | 51.46 |
| | 6/7/2005 | 32-42 | 69.27 | 18.21 | -- | 51.06 |
| | 9/13/2005 | 32-42 | 69.27 | 19.58 | -- | 49.69 |
| | 11/15/2005 | 32-42 | 69.27 | 19.73 | -- | 49.54 |
| MW-19B | 3/10/2004 | 29-39 | 66.67 | 20.16 | -- | 46.51 |
| | 4/19/2004 | 29-39 | 66.67 | 21.35 | -- | 45.32 |
| | 7/30/2004 | 29-39 | 66.67 | 22.21 | -- | 44.46 |
| | 9/13/2004 | 29-39 | 66.67 | 22.40 | -- | 44.27 |
| | 12/14/2004 | 29-39 | 66.67 | 21.68 | -- | 44.99 |
| | 2/10/2005 | 29-39 | 66.67 | 20.55 | -- | 46.12 |
| | 6/7/2005 | 29-39 | 66.67 | 21.00 | -- | 45.67 |
| | 9/13/2005 | 29-39 | 66.67 | 22.13 | -- | 44.54 |
| | 11/15/2005 | 29-39 | 66.67 | 22.22 | -- | 44.45 |
| MW-20B | 3/10/2004 | 30.5-40.5 | 66.46 | 11.87 | -- | 54.59 |
| | 4/19/2004 | 30.5-40.5 | 66.46 | 12.70 | -- | 53.76 |
| | 7/30/2004 | 30.5-40.5 | 66.46 | 14.12 | -- | 52.34 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 9/13/2004 | 30.5-40.5 | 66.46 | 14.72 | -- | 51.74 |
| | 12/14/2004 | 30.5-40.5 | 66.46 | 13.44 | -- | 53.02 |
| | 2/10/2005 | 30.5-40.5 | 66.46 | 11.57 | -- | 54.89 |
| | 6/7/2005 | 30.5-40.5 | 66.46 | 11.97 | -- | 54.49 |
| | 9/13/2005 | 30.5-40.5 | 66.46 | 13.59 | -- | 52.87 |
| | 11/15/2005 | 30.5-40.5 | 66.46 | 13.86 | -- | 52.60 |
| MW-21B | 3/10/2004 | 29-39 | 65.88 | 12.25 | -- | 53.63 |
| | 4/19/2004 | 29-39 | 65.88 | 13.02 | -- | 52.86 |
| | 7/30/2004 | 29-39 | 65.88 | 14.36 | -- | 51.52 |
| | 9/13/2004 | 29-39 | 65.88 | 14.51 | -- | 51.37 |
| | 12/14/2004 | 29-39 | 65.88 | 13.78 | -- | 52.10 |
| | 2/10/2005 | 29-39 | 65.88 | 12.10 | -- | 53.78 |
| | 6/7/2005 | 29-39 | 65.88 | 12.37 | -- | 53.51 |
| | 9/13/2005 | 29-39 | 65.88 | 13.91 | -- | 51.97 |
| | 11/15/2005 | 29-39 | 65.88 | 14.25 | -- | 51.63 |
| MW-22B | 3/10/2004 | 40-50 | 64.44 | 15.56 | -- | 48.88 |
| | 4/19/2004 | 40-50 | 64.44 | 16.45 | -- | 47.99 |
| | 7/30/2004 | 40-50 | 64.44 | 17.55 | -- | 46.89 |
| | 9/13/2004 | 40-50 | 64.44 | 17.84 | -- | 46.60 |
| | 12/14/2004 | 40-50 | 64.44 | 16.93 | -- | 47.51 |
| | 2/10/2005 | 40-50 | 64.44 | 15.79 | -- | 48.65 |
| | 6/7/2005 | 40-50 | 64.44 | 16.02 | -- | 48.42 |
| | 9/13/2005 | 40-50 | 64.44 | 17.17 | -- | 47.27 |
| | 11/15/2005 | 40-50 | 64.44 | 17.30 | -- | 47.14 |
| MW-23B | 7/30/2004 | 48-58 | 63.94 | 19.10 | -- | 44.84 |
| | 9/13/2004 | 48-58 | 63.94 | 19.35 | -- | 44.59 |
| | 12/14/2004 | 48-58 | 63.94 | 18.49 | -- | 45.45 |
| | 2/10/2005 | 48-58 | 63.94 | 17.49 | -- | 46.45 |
| | 6/7/2005 | 48-58 | 63.94 | 17.23 | -- | 46.71 |
| | 9/13/2005 | 48-58 | 63.94 | 18.78 | -- | 45.16 |
| | 11/15/2005 | 48-58 | 63.94 | 18.94 | -- | 45.00 |
| MW-24B | 3/15/2004 | 39.5-49.5 | 61.09 | 16.82 | -- | 44.27 |
| | 4/19/2004 | 39.5-49.5 | 61.09 | 17.62 | -- | 43.47 |
| | 7/30/2004 | 39.5-49.5 | 61.09 | 18.30 | -- | 42.79 |
| | 9/13/2004 | 39.5-49.5 | 61.09 | 18.55 | -- | 42.54 |
| | 12/14/2004 | 39.5-49.5 | 61.09 | 17.66 | -- | 43.43 |
| | 2/10/2005 | 39.5-49.5 | 61.09 | 17.21 | -- | 43.88 |
| | 6/7/2005 | 39.5-49.5 | 61.09 | 18.91 | -- | 42.18 |
| | 9/13/2005 | 39.5-49.5 | 61.09 | 18.11 | -- | 42.98 |
| | 11/15/2005 | 39.5-49.5 | 61.09 | 18.21 | -- | 42.88 |
| MW-25B | 7/30/2004 | 48-58 | 66.04 | 24.55 | -- | 41.49 |
| | 9/13/2004 | 48-58 | 66.04 | 24.77 | -- | 41.27 |
| | 12/14/2004 | 48-58 | 66.04 | 23.96 | -- | 42.08 |
| | 2/10/2005 | 48-58 | 66.04 | 23.12 | -- | 42.92 |
| | 6/7/2005 | 48-58 | 66.04 | 23.20 | -- | 42.84 |
| | 9/13/2005 | 48-58 | 66.04 | 24.26 | -- | 41.78 |
| | 11/15/2005 | 48-58 | 66.04 | 24.36 | -- | 41.68 |
| MW-26B | 3/10/2004 | 40-50 | 63.13 | 14.95 | -- | 48.18 |

*Table 1*
*Ground Water Elevations*
*Hookston Station Remedial Investigation*
*Pleasant Hill, California*

| Location | Date | Screen Interval (ft bgs) | Top of Casing Elevation (feet) | Depth to Water (feet) | Product Thickness (feet) | Ground Water Elevation (feet) |
|---|---|---|---|---|---|---|
| | 4/19/2004 | 40-50 | 63.13 | 16.58 | -- | 46.55 |
| | 7/30/2004 | 40-50 | 63.13 | 17.57 | -- | 45.56 |
| | 9/13/2004 | 40-50 | 63.13 | 18.62 | -- | 44.51 |
| | 12/14/2004 | 40-50 | 63.13 | 16.80 | -- | 46.33 |
| | 2/10/2005 | 40-50 | 63.13 | 15.53 | -- | 47.60 |
| | 6/7/2005 | 40-50 | 63.13 | 15.94 | -- | 47.19 |
| | 9/13/2005 | 40-50 | 63.13 | 17.69 | -- | 45.44 |
| | 11/15/2005 | 40-50 | 63.13 | 17.76 | -- | 45.37 |
| *Deep Monitoring Wells* | | | | | | |
| MW-15C | 3/10/2004 | 90-95 | 64.39 | 15.50 | -- | 48.89 |
| | 4/19/2004 | 90-95 | 64.39 | 16.29 | -- | 48.10 |
| | 6/14/2004 | 90-95 | 64.39 | 16.95 | -- | 47.44 |
| | 7/30/2004 | 90-95 | 64.39 | 17.45 | -- | 46.94 |
| | 9/13/2004 | 90-95 | 64.39 | 17.79 | -- | 46.60 |
| | 12/14/2004 | 90-95 | 64.39 | 17.60 | -- | 46.79 |
| | 2/10/2005 | 90-95 | 64.39 | 15.70 | -- | 48.69 |
| | 6/7/2005 | 90-95 | 64.39 | 15.83 | -- | 48.56 |
| | 9/13/2005 | 90-95 | 64.39 | 16.68 | -- | 47.71 |
| | 11/15/2005 | 90-95 | 64.39 | 17.08 | -- | 47.31 |
| MW-19C | 3/10/2004 | 70-80 | 66.86 | 18.29 | -- | 48.57 |
| | 4/19/2004 | 70-80 | 66.86 | 19.40 | -- | 47.46 |
| | 6/14/2004 | 70-80 | 66.86 | 20.16 | -- | 46.70 |
| | 7/30/2004 | 70-80 | 66.86 | 20.57 | -- | 46.29 |
| | 9/13/2004 | 70-80 | 66.86 | 20.79 | -- | 46.07 |
| | 12/14/2004 | 70-80 | 66.86 | 19.79 | -- | 47.07 |
| | 2/10/2005 | 70-80 | 66.86 | 18.60 | -- | 48.26 |
| | 6/7/2005 | 70-80 | 66.86 | 19.02 | -- | 47.84 |
| | 9/13/2005 | 70-80 | 66.86 | 20.14 | -- | 46.72 |
| | 11/15/2005 | 70-80 | 66.86 | 20.31 | -- | 46.55 |
| MW-23C | 6/14/2004 | 93-103 | 64.00 | 17.84 | -- | 46.16 |
| | 7/30/2004 | 93-103 | 64.00 | 18.44 | -- | 45.56 |
| | 9/13/2004 | 93-103 | 64.00 | 18.85 | -- | 45.15 |
| | 12/14/2004 | 93-103 | 64.00 | 18.02 | -- | 45.98 |
| | 2/10/2005 | 93-103 | 64.00 | 16.74 | -- | 47.26 |
| | 6/7/2005 | 93-103 | 64.00 | 16.65 | -- | 47.35 |
| | 9/13/2005 | 93-103 | 64.00 | 17.78 | -- | 46.22 |
| | 11/15/2005 | 93-103 | 64.00 | 17.95 | -- | 46.05 |

**Notes**
ft bgs = feet below ground surface
NM = not measured
* = well MW-2 is damaged and inaccessible; well has not been used for monitoring since 1995.
** = MW-01D, MW-02D and MW-03D were renamed MW-08B, MW-09B and MW-10B, respectively, as of October 2003.
The top of casing elevations for wells MW-01, MW-04, MW-05, MW-06, MW-07, MW-08A, MW-08B, MW-09B and MW-10B were resurveyed in October 2003 and new top of casing elevations are now being used.

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |
| *A-Zone Monitoring Wells* | | | | | | | | | | | | | | | | | | | | | |
| MW-01 | 4/25/1990 | 2 | 10-20 | traditional | MTA | 8010 | **2** | **68** | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-01 | 4/25/1990 | 2 | 10-20 | traditional | MTA | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 2 | NS |
| MW-01 | 5/17/1990 | 2 | 10-20 | traditional | MTA | 8240 | < 5 | **62** | NS | NS | < 5 | < 10 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 | NS |
| MW-01 | 3/13/1991 | 2 | 10-20 | traditional | CHR | 624 | **25** | **68** | NS | NS | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS |
| MW-01 | 1/21/1992 | 2 | 10-20 | traditional | CHR | 624 | **34** | **83** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS |
| MW-01 | 4/2/1993 | 2 | 10-20 | traditional | CTL | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-01 | 4/2/1993 | 2 | 10-20 | traditional | CTL | 8240 | **90** | **73** | < 5 | < 5 | < 5 | < 10 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | NS |
| MW-01 | 11/17/1995 | 2 | 10-20 | traditional | MCA | 8010 | **1400** | **130** | < 50 | < 50 | < 50 | < 200 | < 50 | < 50 | < 50 | < 50 | NS | NS | NS | NS | NS |
| MW-01 | 6/29/2000 | 2 | 10-20 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-01 | 6/29/2000 | 2 | 10-20 | traditional | CTBERK | 8260B | **680** | **98** | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 |
| MW-01 | 3/12/2001 | 2 | 10-20 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-01 | 3/12/2001 | 2 | 10-20 | traditional | CTBERK | 8260B | **570** | **44** | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | NS | NS | NS | NS | NS |
| MW-01 (dup) | 3/12/2001 | 2 | 10-20 | traditional | CTBERK | 8260B | **180** | **37** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-01 | 6/27/2001 | 2 | 10-20 | traditional | CTBERK | 8260B | **670** | **46** | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | NS | < 2.5 |
| MW-01 | 9/20/2001 | 2 | 10-20 | traditional | CTBERK | 8260B | **630** | **53** | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | NS | < 2.5 |
| MW-01 | 9/20/2001 | 2 | 17-18.2 | passive | CTBERK | 8260B | **240** | **26** | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | **4.3** | **3.1** | < 0.8 | NS | < 0.8 |
| MW-01 | 12/19/2001 | 2 | 17-18.2 | passive | CTBERK | 8260B | **320** | **38** | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | NS | < 1.3 |
| MW-01 | 3/20/2002 | 2 | 17-18.2 | passive | CTBERK | 8260B | **470** J | **180** J | **1.7** J | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | NS | < 1.3 |
| MW-01 | 6/21/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | **98** | **390** | **240** | **51** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| MW-01 | 9/24/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | **32** | **160** | **360** | **79** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-01 | 11/14/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | **17** J | **140** J | **350** J | **79** J | < 10 UJ | < 10 UJ | < 10 UJ | < 10 UJ | < 10 UJ | < 10 UJ | < 10 J | < 10 UJ | < 10 UJ | < 10 UJ | < 10 UJ |
| MW-01 | 2/19/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | **250** | **210** | **200** | **7.6** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-01 | 5/6/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | **95** | **210** | **250** | **8.8** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-01 | 7/22/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | **130** | **150** | **490** | **18** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-01 | 10/24/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | < 20 | **90** | **440** | **13** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-01 | 3/10/2004 | 2 | 17-18.2 | passive | STLSEA | 8260B | **466** | **83.7** | **58.4** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | NS | < 20 |
| MW-01 | 4/20/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **740** | **60** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-01 | 9/15/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **840** | **150** | **65** | **10** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-01 | 1/12/2005 | 2 | 16.5-17.7 | passive | STL Sac | 8260B | **460** | **180** | **140** | **6.4** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-01 (DIFF) | 2/15/2005 | 2 | 16.2-17.4 | passive | STL Sac | 8260B | **150** | **39** | **26** | **0.87** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-01 | 6/8/2005 | 2 | 16.2-17.4 | passive | STL Sac | 8260B | < 5 | **110** | **160** | **5.6** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-01 | 9/14/2005 | 2 | 16.1-17.3 | passive | STLSEA | 8260B | < 10 | < 10 | **311** | **10.9** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 | < 10 |
| MW-01 | 11/15/2005 | 2 | 16.2-17.4 | passive | STL Sac | 8260B | < 10 | **4.9** j | **260** | **8.5** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-02 | 4/25/1990 | 2 | 11-21 | traditional | MTA | 8010 | **8** | **390** | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-02 | 5/17/1990 | 2 | 11-21 | traditional | MTA | 8240 | **7** | **400** | NS | NS | < 5 | < 10 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 | NS |
| MW-02 | 1/21/1992 | 2 | 11-21 | traditional | CHR | 624 | **5.3** | **180** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS |
| MW-02 | 4/1/1993 | 2 | 11-21 | traditional | CTL | 8240 | < 10 | **250** | < 10 | < 10 | < 10 | < 20 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NS |
| MW-02 | 11/17/1995 | 2 | 11-21 | traditional | MCA | 8010 | **2.3** | **188** | < 2 | < 2 | < 2 | < 8 | < 2 | < 2 | < 2 | < 2 | NS | NS | NS | NS | NS |
| MW-03 | 4/25/1990 | 2 | 10-20 | traditional | MTA | 8010 | < 5 | **6700** | NS | NS | **130** | < 5 | < 5 | **10** | < 5 | < 5 | NS | NS | NS | NS | NS |
| MW-03 | 5/17/1990 | 2 | 10-20 | traditional | MTA | 8240 | **12** | **7700** | NS | NS | **180** | < 10 | **10** | **24** | **9** | < 5 | < 5 | < 5 | < 5 | < 10 | NS |
| MW-03 | 3/14/1991 | 2 | 10-20 | traditional | CHR | 624 | **16** | **5400** | NS | NS | **110** | < 1 | **12** | **18** | **5.8** | < 1 | < 1 | < 1 | < 1 | < 1 | NS |
| MW-03 | 1/21/1992 | 2 | 10-20 | traditional | CHR | 624 | **11** | **1400** | **31** | **6.2** | **88** | < 1 | **4.9** | **15** | **3.9** | < 1 | < 1 | < 1 | < 1 | < 1 | NS |
| MW-03 | 4/2/1993 | 2 | 10-20 | traditional | CTL | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-03 | 4/2/1993 | 2 | 10-20 | traditional | CTL | 8240 | < 300 | **4900** | < 300 | < 300 | < 300 | < 500 | < 300 | < 300 | < 300 | < 300 | < 300 | < 300 | < 300 | < 300 | NS |
| MW-03 | 11/17/1995 | 2 | 10-20 | traditional | MCA | 8010 | < 100 | **3500** | < 100 | < 100 | < 100 | < 400 | < 100 | < 100 | < 100 | < 100 | NS | NS | NS | NS | NS |
| MW-03 | 6/29/2000 | 2 | 10-20 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-03 | 6/29/2000 | 2 | 10-20 | traditional | CTBERK | 8260B | **12** | **1400** | **99** | < 4.2 | **36** | < 4.2 | < 4.2 | **8.8** | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 |
| MW-03 | 3/13/2001 | 2 | 10-20 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-03 | 3/13/2001 | 2 | 10-20 | traditional | CTBERK | 8260B | < 8.3 | **2000** | **63** | < 8.3 | **39** | < 8.3 | < 8.3 | **8.8** | < 8.3 | < 8.3 | NS | NS | NS | NS | NS |
| MW-03 | 6/27/2001 | 2 | 10-20 | traditional | CTBERK | 8260B | **8.8** | **2000** | **73** | < 8.3 | **43** | < 8.3 | < 8.3 | **10** | < 8.3 | < 8.3 | < 8.3 | < 8.3 | < 8.3 | NS | < 8.3 |
| MW-03 | 9/20/2001 | 2 | 10-20 | traditional | CTBERK | 8260B | **4.9** | **1400** | **49** | < 4.2 | **24** | < 4.2 | < 4.2 | **6.0** | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | NS | < 4.2 |
| MW-03 | 9/20/2001 | 2 | 17-18.2 | passive | CTBERK | 8260B | **6.4** | **1400** | **51** | **5.7** | **15** | < 5 | < 5 | **6.4** | < 5 | < 5 | < 5 | < 5 | < 5 | NS | < 5 |
| MW-03 | 12/19/2001 | 2 | 17-18.2 | passive | CTBERK | 8260B | **14** | **1200** | **39** | **5.4** | **9.7** | < 4.2 | < 4.2 | **5.0** | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | NS | < 4.2 |
| MW-03 | 3/20/2002 | 2 | 17-18.2 | passive | CTBERK | 8260B | **7.2** J | **2100** J | **130** J | < 7.1 | **36** J | < 7.1 | < 7.1 | **9.5** J | < 7.1 | < 7.1 | < 7.1 | < 7.1 | < 7.1 | NS | < 7.1 |
| MW-03 | 6/21/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | < 25 | **2100** | **160** | < 25 | **53** | < 25 | < 25 | **12** j | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 |
| MW-03 | 9/24/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | < 20 | **1200** | **50** | **3.8** j | **30** | < 20 | < 20 | **6.1** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-03 | 11/14/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | < 25 UJ | **980** J | **25** J | < 25 UJ | **19** jJ | < 25 UJ | < 25 UJ | < 25 UJ | < 25 UJ | < 25 UJ | < 25 UJ | < 25 UJ | < 25 UJ | < 25 UJ | < 25 UJ |
| MW-03 | 2/19/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | < 25 | **1700** | **140** | **5.4** j | **46** | < 25 | < 25 | **9.5** j | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 | < 50 |
| MW-03 | 3/10/2004 | 2 | 17-18.2 | passive | STLSEA | 8260B | < 100 | **2180** | **202** | < 100 | **52.1** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | NS | < 100 |
| MW-03 | 4/20/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | < 50 | **1800** | **180** | **9.2** j | **20** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-03 | 9/14/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | < 50 | **1200** | **71** | < 50 | **31** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-03 (dup) | 9/14/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | < 50 | **1200** | **72** | < 50 | **23** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-03 | 12/16/2004 | 2 | 15.5-16.7 | passive | STL Sac | 8260B | < 50 | **970** | **49** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-03 (DIFF) | 2/15/2005 | 2 | 15.3-16.5 | passive | STL Sac | 8260B | < 10 | **250** | **18** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-03 | 6/7/2005 | 2 | 16.6-17.8 | passive | STL Sac | 8260B | < 50 | **1100** | **100** | < 50 | **29** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | **13** j | < 50 | < 50 | < 100 |
| MW-03 | 9/14/2005 | 2 | 16.7-17.9 | passive | STLSEA | 8260B | < 50 | **1730** | **124** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 | < 50 |
| MW-03 | 11/17/2005 | 2 | 16.7-17.9 | passive | STL Sac | 8260B | < 100 | **1900** | **91** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-04 | 4/25/1990 | 2 | 11-21 | traditional | MTA | 8010 | **62** | **240** | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-04 | 5/17/1990 | 2 | 11-21 | traditional | MTA | 8240 | **84** | **250** | NS | NS | < 5 | < 10 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 | NS |
| MW-04 | 1/21/1992 | 2 | 11-21 | traditional | CHR | 602 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | **410** | **340** | **5** | **620** | NS |
| MW-04 | 1/21/1992 | 2 | 11-21 | traditional | CHR | 624 | **75** | **200** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | **500** | **590** | **33** | **910** | NS |
| MW-04 | 11/17/1995 | 2 | 11-21 | traditional | MCA | 8010 | **6.4** | **26** | **61** | **1.3** | < 2 | < 8 | < 2 | **3.2** | < 2 | < 2 | NS | NS | NS | NS | NS |
| MW-04 | 6/29/2000 | 2 | 11-21 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 2.5 | < 2.5 | **130** | **5.9** | NS |
| MW-04 | 6/29/2000 | 2 | 11-21 | traditional | CTBERK | 8260B | **40** | **26** | **11** | **3.4** | < 0.5 | **13** | < 0.5 | **1.5** | < 0.5 | < 0.5 | **0.8** | **0.7** | **150** | **9.5** | < 0.5 |
| MW-04 | 3/12/2001 | 2 | 11-21 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-04 | 3/12/2001 | 2 | 11-21 | traditional | CTBERK | 8260B | **58** | **30** | **11** | **3.9** | < 0.5 | **6.8** | < 0.5 | **1.2** | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-04 (dup) | 3/12/2001 | 2 | 11-21 | traditional | CTBERK | 8260B | **18** | **21** | **9.1** | **3.5** | < 0.5 | **11** | < 0.5 | **1.8** | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-04 | 6/27/2001 | 2 | 11-21 | traditional | CTBERK | 8260B | **24** | **17** | **9.4** | **3.6** | < 0.7 | **18** | < 0.7 | **1.1** | < 0.7 | < 0.7 | < 0.7 | < 0.7 | **180** | NS | < 0.7 |
| MW-04 | 9/20/2001 | 2 | 11-21 | traditional | CTBERK | 8260B | **66** | **33** | **13** | **6.1** | < 0.5 | **12** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | **70** | NS | < 0.5 |

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |
| MW-04 | 9/20/2001 | 2 | 17-18.2 | passive | CTBERK | 8260B | **7.0** | **26** | **14** | **3.4** | < 0.5 | **19** b | < 0.5 | **1.7** | < 0.5 | < 0.5 | **0.7** | < 0.5 | **49** | NS | < 0.5 |
| MW-04 | 12/19/2001 | 2 | 17-18.2 | passive | CTBERK | 8260B | **57** | **32** | **9.7** | **3.9** | < 0.5 | **6.3** | < 0.5 | **0.6** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | **0.6** | NS | < 0.5 |
| MW-04 | 3/20/2002 | 2 | 17-18.2 | passive | CTBERK | 8260B | **96** | **44** | **10** | **4.8** | < 0.5 | **7.0** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-04 | 6/21/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | **57** | **35** | **10** | **5.8** | < 1 | **16** | < 1 | **0.68** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| MW-04 | 9/24/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | **31** | **48** | **7.4** | **7.9** | < 1 | **30** | < 1 | **0.96** j | < 1 | < 1 | **0.46** j | **0.40** j | **22** | **0.63** j | < 2 |
| MW-04 | 11/14/2002 | 2 | 17-18.2 | passive | STLSAC | 8260B | **13** J | **50** J | **7.6** J | **5.3** J | < 2 UJ | **8.9** J | < 2 UJ | **0.56** jJ | < 2 UJ | < 2 UJ | < 2 UJ | < 2 UJ | **1.3** jJ | < 2 UJ | < 2 UJ |
| MW-04 | 2/19/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | **17** | **22** | **5.1** | **6.4** | < 1 | **30** | < 1 | **0.93** j | **0.51** j | < 1 | **0.38** j | **0.35** j | **70** | **0.76** j | < 2 |
| MW-04 | 5/6/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | **23** | **33** | **6.9** | **7.2** | < 1 | **28** | < 1 | **0.64** j | < 1 | < 1 | **0.33** j | **0.32** j | **62** | **0.47** j | < 2 |
| MW-04 | 7/22/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | **18** | **66** | **15** | **9.6** | < 1 | **22** | < 1 | **0.56** j | < 1 | < 1 | **0.26** j | < 1 | **3.8** | **0.16** j | < 2 |
| MW-04 | 10/24/2003 | 2 | 17-18.2 | passive | STLSAC | 8260B | **11** | **55** | **13** | **5.3** | < 1 | **13** | < 1 | **0.37** j | < 1 | < 1 | **0.24** j | < 1 | **0.48** j | < 1 | < 2 |
| MW-04 | 3/10/2004 | 2 | 17-18.2 | passive | STLSEA | 8260B | **1.93** N | **27.5** | **13.7** | **6.06** | < 1 | **27.4** | < 1 | **0.731** j | < 1 | < 1 | < 1 | < 1 | **5.17** | NS | < 1 |
| MW-04 | 4/21/2004 | 2 | 11-21 | traditional | STL Sac | 8260B | **53** | **23** | **11** | **6.7** j | < 10 | **17** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | **93** | < 10 | < 20 |
| MW-04 (dup) | 4/21/2004 | 2 | 11-21 | traditional | STL Sac | 8260B | **66** | **26** | **11** | **7.3** j | < 10 | **18** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | **100** | < 10 | < 20 |
| MW-04 | 9/15/2004 | 2 | 11-21 | traditional | STL Sac | 8260B | **70** | **27** | **13** | **7.7** | < 2 | **15** | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | **48** | < 2 | < 4 |
| MW-04 | 12/17/2004 | 2 | 11-21 | traditional | STL Sac | 8260B | **220** | **59** | **30** | **15** | < 5 | **14** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **11** | < 5 | < 10 |
| MW-04 Diffussion Sample | 12/17/2004 | 2 | 17-18.2 | passive | STL Sac | 8260B | **10** | < 1 | **15** | **6.1** | < 1 | **15** | < 1 | **0.37** j | < 1 | < 1 | **0.36** j | < 1 | **11** | < 1 | < 2 |
| MW-04 (DIFF) | 2/16/2005 | 2 | 16.7-17.9 | passive | STL Sac | 8260B | **69** | **35** | **10** | **5.9** | < 2 | **4.1** | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | **0.82** j | < 2 | < 4 |
| MW-04 (DIFF)(dup) | 2/16/2005 | 2 | 16.7-17.9 | passive | STL Sac | 8260B | **69** | **33** | **10** | **6.0** | < 2 | **4.6** | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 4 |
| MW-04 | 6/7/2005 | 2 | 17.9-19.1 | passive | STL Sac | 8260B | **52** | **32** | **42** | **5.1** | < 1 | **4.2** | < 1 | < 1 | < 1 | < 1 | < 1 | **0.28** j | < 1 | < 1 | < 2 |
| MW-04 (dup) | 6/7/2005 | 2 | 17.9-19.1 | passive | STL Sac | 8260B | **54** | **33** | **44** | **5.3** | < 1 | **4.3** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-04 | 9/14/2005 | 2 | 17.9-19.1 | passive | STLSEA | 8260B | **12.1** | **27.9** | **68** | **6.02** | < 1 | **14.7** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **2.4** | < 2 | < 1 |
| MW-04 | 11/15/2005 | 2 | 17.8-19 | passive | STL Sac | 8260B | **53** | **26** | **35** | **4.7** | < 1 | **12** | < 1 | **0.13** j | < 1 | < 1 | **0.18** j | < 1 | **0.65** j | < 1 | < 2 |
| MW-05 | 3/13/1991 | 2 | 10-30 | traditional | CHR | 624 | **1.6** | **66** | NS | NS | **1.9** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS |
| MW-05 | 1/21/1992 | 2 | 10-30 | traditional | CHR | 624 | < 1 | **46** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS |
| MW-05 | 3/31/1993 | 2 | 10-30 | traditional | CTL | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-05 | 3/31/1993 | 2 | 10-30 | traditional | CTL | 8240 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 | **110** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | NS |
| MW-05 | 11/17/1995 | 2 | 10-30 | traditional | MCA | 8010 | < 0.5 | **25** | < 0.5 | < 0.5 | < 0.5 | < 2 | < 1 | **1.2** | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-05 | 6/28/2000 | 2 | 10-30 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-05 | 6/28/2000 | 2 | 10-30 | traditional | CTBERK | 8260B | < 0.5 | **12** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-05 | 3/12/2001 | 2 | 10-30 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-05 | 3/12/2001 | 2 | 10-30 | traditional | CTBERK | 8260B | < 0.5 | **7.9** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-05 (dup) | 3/12/2001 | 2 | 10-30 | traditional | CTBERK | 8260B | < 0.5 | **5.6** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-05 | 6/27/2001 | 2 | 10-30 | traditional | CTBERK | 8260B | < 0.5 | **7.0** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-05 | 9/20/2001 | 2 | 10-30 | traditional | CTBERK | 8260B | < 0.5 | **6.2** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-05 | 9/20/2001 | 2 | 23-24.2 | passive | CTBERK | 8260B | < 0.5 | **5.6** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-05 | 12/19/2001 | 2 | 23-24.2 | passive | CTBERK | 8260B | < 0.5 | **6.0** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-05 (dup) | 12/19/2001 | 2 | 23-24.2 | passive | CTBERK | 8260B | < 0.5 | **16** | < 0.5 | < 0.5 | **0.5** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-05 | 3/20/2002 | 2 | 23-24.2 | passive | CTBERK | 8260B | **0.7** | **5.9** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-05 | 9/24/2002 | 2 | 23-24.2 | passive | STLSAC | 8260B | < 1 | **4.7** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 (dup) | 9/24/2002 | 2 | 23-24.2 | passive | STLSAC | 8260B | < 1 | **4.3** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 11/14/2002 | 2 | 23-24.2 | passive | STLSAC | 8260B | < 1 UJ | **5.0** J | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ |
| MW-05 | 2/19/2003 | 2 | 23-24.2 | passive | STLSAC | 8260B | < 1 | **3.6** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 5/6/2003 | 2 | 23-24.2 | passive | STLSAC | 8260B | < 1 | **1.9** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 (dup) | 5/6/2003 | 2 | 23-24.2 | passive | STLSAC | 8260B | < 1 | **3.4** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 7/22/2003 | 2 | 23-24.2 | passive | STLSAC | 8260B | < 1 | **3.5** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 10/24/2003 | 2 | 23-24.2 | passive | STLSAC | 8260B | < 1 | **4.6** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 3/10/2004 | 2 | 23-24.2 | passive | STLSEA | 8260B | < 1 | **3.87** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 | |
| MW-05 | 4/20/2004 | 2 | 10-30 | traditional | STL Sac | 8260B | < 1 | **2.9** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 9/14/2004 | 2 | 10-30 | traditional | STL Sac | 8260B | **0.82** j | **2.7** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 12/16/2004 | 2 | 23-24.2 | passive | STL Sac | 8260B | **0.52** j | **4.5** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 (DIFF) | 2/15/2005 | 2 | 23-24.2 | passive | STL Sac | 8260B | < 1 | **2.7** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 6/7/2005 | 2 | 23.7-24.9 | passive | STL Sac | 8260B | < 1 | **2.6** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-05 | 9/13/2005 | 2 | 23.1-24.3 | passive | STLSEA | 8260B | < 1 | **3.45** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | |
| MW-05 | 11/15/2005 | 2 | 23-24.2 | passive | STL Sac | 8260B | < 1 | **3.6** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 | 3/13/1991 | 2 | 15-35 | traditional | CHR | 624 | **2.4** | **1.3** | NS | NS | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | |
| MW-06 | 1/21/1992 | 2 | 15-35 | traditional | CHR | 624 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | |
| MW-06 | 4/1/1993 | 2 | 15-35 | traditional | CTL | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 50 | < 0.5 | < 0.5 | NS | |
| MW-06 | 4/1/1993 | 2 | 15-35 | traditional | CTL | 8240 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | NS | |
| MW-06 | 11/17/1995 | 2 | 15-35 | traditional | MCA | 8010 | **1.9** | **0.92** | < 0.5 | < 0.5 | < 0.5 | < 2 | **2.6** | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | |
| MW-06 | 6/28/2000 | 2 | 15-35 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-06 | 6/28/2000 | 2 | 15-35 | traditional | CTBERK | 8260B | **0.9** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-06 | 3/13/2001 | 2 | 15-35 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-06 | 3/13/2001 | 2 | 15-35 | traditional | CTBERK | 8260B | **0.7** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-06 | 6/27/2001 | 2 | 15-35 | traditional | CTBERK | 8260B | **0.6** | **0.6** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-06 | 9/20/2001 | 2 | 15-35 | traditional | CTBERK | 8260B | **1.0** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-06 | 12/19/2001 | 2 | 21-22.2 | passive | CTBERK | 8260B | **0.8** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-06 | 3/20/2002 | 2 | 21-22.2 | passive | CTBERK | 8260B | **0.7** | **1.0** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-06 | 11/14/2002 | 2 | 21-22.2 | passive | STLSAC | 8260B | **0.83** jJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ |
| MW-06 | 2/19/2003 | 2 | 21-22.2 | passive | STLSAC | 8260B | **0.92** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 | 5/6/2003 | 2 | 25-26.2 | passive | STLSAC | 8260B | **0.76** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 | 7/22/2003 | 2 | 25-26.2 | passive | STLSAC | 8260B | **0.86** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 | 10/24/2003 | 2 | 25-26.2 | passive | STLSAC | 8260B | **0.92** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 | 3/10/2004 | 2 | 21-22.2 | passive | STLSEA | 8260B | **1.0** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 | |
| MW-06 | 4/20/2004 | 2 | 15-35 | traditional | STL Sac | 8260B | **0.79** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 | 9/14/2004 | 2 | 15-35 | traditional | STL Sac | 8260B | **2.5** J | **0.43** j J | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 2 | |
| MW-06 | 12/16/2004 | 2 | 22.2-23.4 | passive | STL Sac | 8260B | **1.1** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 (DIFF) | 2/15/2005 | 2 | 21.9-23.1 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 | 6/7/2005 | 2 | 21.6-22.8 | passive | STL Sac | 8260B | **0.85** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 | 9/13/2005 | 2 | 21.5-22.7 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 | |
| MW-06 | 11/17/2005 | 2 | 21.5-22.7 | passive | STL Sac | 8260B | **1.1** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |
| MW-06 Field Duplicate | 11/17/2005 | 2 | 21.5-22.7 | passive | STL Sac | 8260B | **0.99** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | |

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |
| MW-07 | 8/25/1993 | 2 | 15-35 | traditional | CTL | 8010 | **110** | **30** | < 2 | < 2 | **5** | < 4 | < 2 | < 2 | < 2 | < 2 | NS | NS | NS | NS | NS |
| MW-07 | 8/25/1993 | 2 | 15-35 | traditional | CTL | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-07 | 11/17/1995 | 2 | 15-35 | traditional | MCA | 8010 | **570** | **46** | < 20 | < 20 | < 20 | < 80 | < 20 | < 20 | < 20 | < 20 | NS | NS | NS | NS | NS |
| MW-07 | 6/29/2000 | 2 | 15-35 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-07 | 6/29/2000 | 2 | 15-35 | traditional | CTBERK | 8260B | **300** | **29** | < 0.5 | < 0.5 | **1.6** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-07 | 3/13/2001 | 2 | 15-35 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-07 (dup) | 3/13/2001 | 2 | 15-35 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-07 | 3/13/2001 | 2 | 15-35 | traditional | CTBERK | 8260B | **330** | **23** | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | NS | NS | NS | NS | NS |
| MW-07 (dup) | 3/13/2001 | 2 | 15-35 | traditional | CTBERK | 8260B | **170** | **22** | < 0.5 | < 0.5 | **1.5** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-07 | 6/27/2001 | 2 | 15-35 | traditional | CTBERK | 8260B | **310** | **22** | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | NS | < 1.3 |
| MW-07 | 9/20/2001 | 2 | 15-35 | traditional | CTBERK | 8260B | **360** | **28** | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | NS | < 1.7 |
| MW-07 | 9/20/2001 | 2 | 28-29.2 | passive | CTBERK | 8260B | **370** | **27** | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | NS | < 1.7 |
| MW-07 | 12/19/2001 | 2 | 28-29.2 | passive | CTBERK | 8260B | **390** | **29** | < 1.7 | < 1.7 | **1.7** | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | NS | < 1.7 |
| MW-07 | 3/20/2002 | 2 | 28-29.2 | passive | CTBERK | 8260B | **290** | **26** | < 0.8 | < 0.8 | **0.9** | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | NS | < 0.8 |
| MW-07 | 6/21/2002 | 2 | 28-29.2 | passive | STLSAC | 8260B | **300** | **27** | < 5 | < 5 | **2.0** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| MW-07 | 9/24/2002 | 2 | 28-29.2 | passive | STLSAC | 8260B | **330** | **27** | **0.58** j | < 5 | **1.8** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-07 | 11/14/2002 | 2 | 28-29.2 | passive | STLSAC | 8260B | **380** J | **36** J | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ | < 12 UJ |
| MW-07 | 2/19/2003 | 2 | 28-29.2 | passive | STLSAC | 8260B | **360** | **25** | < 10 u | < 10 u | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-07 | 5/6/2003 | 2 | 28-29.2 | passive | STLSAC | 8260B | **260** | **26** | < 10 u | < 10 u | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-07 | 7/22/2003 | 2 | 28-29.2 | passive | STLSAC | 8260B | **240** | **23** | < 10 u | < 10 u | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-07 | 10/24/2003 | 2 | 28-29.2 | passive | STLSAC | 8260B | **250** | **30** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-07 | 3/10/2004 | 2 | 28-29.2 | passive | STLSEA | 8260B | **280** | **30.8** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NS | < 10 |
| MW-07 (dup) | 3/10/2004 | 2 | 28-29.2 | passive | STLSEA | 8260B | **245** J | **28** | < 1 | < 1 | **2.32** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-07 | 4/20/2004 | 2 | 15-35 | traditional | STL Sac | 8260B | **180** | **19** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-07 | 9/16/2004 | 2 | 15-35 | traditional | STL Sac | 8260B | **280** | **43** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-07 | 12/16/2004 | 2 | 27.4-28.6 | passive | STL Sac | 8260B | **390** | **47** | < 10 | < 10 | **3.6** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-07 (DIFF) | 2/15/2005 | 2 | 27.2-28.4 | passive | STL Sac | 8260B | **210** | **27** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-07 | 6/7/2005 | 2 | 28.3-29.5 | passive | STL Sac | 8260B | **270** | **35** | < 5 | < 5 | **2.5** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-07 | 9/13/2005 | 2 | 28.3-29.5 | passive | STLSEA | 8260B | **213** | **33.4** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-07 | 11/17/2005 | 2 | 28.2-29.4 | passive | STL Sac | 8260B | **320** | **37** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-08A | 10/10/2003 | 1 | 10-25 | traditional | STLSEA | 8260B | **0.801** j | **168** d | **5.4** | **1.05** | **3.4** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-08A | 3/10/2004 | 1 | 20.5-24 | passive | STLSEA | 8260B | < 5 | **197** | **6.16** | < 5 | **3.38** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | NS | < 5 |
| MW-08A | 4/21/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | < 10 | **200** | **5.9** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-08A | 9/15/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | < 2.5 | **110** | **4.4** | **0.69** j | **3.2** | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | **3.7** | < 2.5 | < 2.5 | < 2.5 | **14** |
| MW-08A | 12/17/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | < 5 | **330** | **7.6** | **1.2** j | **5.6** | < 5 | < 5 | < 5 | < 5 | < 5 | **1.1** j | < 5 | < 5 | < 5 | **54** |
| MW-08A | 2/15/2005 | 1 | 10-25 | traditional | STL Sac | 8260B | < 5 | **240** | **10** | < 5 | **4.0** j | < 5 | < 5 | **0.64** j | < 5 | < 5 | **0.89** j | < 5 | < 5 | < 5 | **32** |
| MW-08A | 6/7/2005 | 1 | 20.1-23.6 | passive | STL Sac | 8260B | < 10 | **420** | **26** | **2.7** j | **9.7** j | < 10 | < 10 | **1.3** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | **14** j |
| MW-08A | 9/13/2005 | 1 | 20.1-23.6 | passive | STLSEA | 8260B | < 20 | **288** | **33.1** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-08A | 11/17/2005 | 1 | 20-23.5 | passive | STL Sac | 8260B | < 10 | **300** | **18** | **1.7** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | **15** j |
| MW-11A | 10/10/2003 | 1 | 10-25 | traditional | STLSEA | 8260B | < 1 | **3.15** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-11A | 3/10/2004 | 1 | 21-24.5 | passive | STLSEA | 8260B | < 1 | **4.33** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-11A | 4/27/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | < 1 | **3.1** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-11A | 9/15/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | < 1 | **3.2** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-11A | 12/17/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | **0.51** j | **5.0** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-11A | 2/15/2005 | 1 | 10-25 | traditional | STL Sac | 8260B | < 1 | **3.4** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-11A (DIFF) | 2/15/2005 | 1 | 16.7-20.2 | passive | STL Sac | 8260B | < 1 | **2.8** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-11A | 6/7/2005 | 1 | 18.7-22.2 | passive | STL Sac | 8260B | < 1 | **4.1** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-11A | 9/14/2005 | 1 | 18.6-22.1 | passive | STLSEA | 8260B | < 1 | **4.16** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-11A | 11/16/2005 | 1 | 18.6-22.1 | passive | STL Sac | 8260B | < 1 | **3.8** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-12A | 11/4/2003 | 1 | 20-23.5 | passive | STLSAC | 8260B | < 10 | **260** | **2.3** j | < 10 | **4.3** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-12A | 3/11/2004 | 1 | 20-23.5 | passive | STLSEA | 8260B | < 10 | **469** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NS | < 10 |
| MW-12A | 4/27/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | < 10 | **250** | **1.9** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-12A | 9/15/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | **0.83** j | **86** | **7.5** | < 2 | **0.82** j | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | **1.4** j | < 2 | < 2 | < 4 |
| MW-12A | 12/17/2004 | 1 | 10-25 | traditional | STL Sac | 8260B | < 10 | **530** | **13** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-12A | 2/15/2005 | 1 | 10-25 | traditional | STL Sac | 8260B | < 10 | **330** | **17** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-12A | 6/7/2005 | 1 | 18.5-22 | passive | STL Sac | 8260B | < 5 | **92** | **190** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **1.3** j | < 5 | < 5 | < 10 |
| MW-12A | 9/13/2005 | 1 | 18.55-22.1 | passive | STLSEA | 8260B | < 20 | < 20 | **237** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-12A | 11/15/2005 | 1 | 18.4-21.9 | passive | STL Sac | 8260B | < 10 | **8.8** j | **310** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-13A | 10/10/2003 | 1 | 18-33 | traditional | STLSEA | 8260B | **8.83** | **2880** d | **181** d | **5.52** | **82.1** | < 1 | **6.27** | **15.1** | **2.62** | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-13A | 3/10/2004 | 1 | 24-27.5 | passive | STLSEA | 8260B | < 200 | **3240** | **626** | < 200 | **137** j | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | NS | < 200 |
| MW-13A | 4/21/2004 | 1 | 18-33 | traditional | STL Sac | 8260B | < 50 | **2800** | **670** | **8.8** j | **110** | < 50 | < 50 | **20** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-13A | 9/15/2004 | 1 | 18-33 | traditional | STL Sac | 8260B | < 50 | **3600** | **260** | < 50 | **200** | < 50 | < 50 | **26** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-13A | 12/17/2004 | 1 | 18-33 | traditional | STL Sac | 8260B | < 100 | **4300** | **820** | < 100 | **140** | < 100 | < 100 | **30** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-13A Field Duplicate | 12/17/2004 | 1 | 18-33 | traditional | STL Sac | 8260B | < 100 | **4100** | **750** | < 100 | **130** | < 100 | < 100 | **27** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-13A | 2/15/2005 | 1 | 18-33 | traditional | STL Sac | 8260B | < 100 | **3300** | **230** | < 100 | **160** | < 100 | < 100 | **27** j | < 100 u | < 100 | < 100 u | < 100 u | < 100 u | < 100 | < 200 |
| MW-13A | 6/7/2005 | 1 | 29.4-32.9 | passive | STL Sac | 8260B | < 250 | **2300** | **210** j | < 250 | **98** j | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 500 |
| MW-13A | 9/13/2005 | 1 | 29.4-32.9 | passive | STLSEA | 8260B | < 20 | **3850** | **215** | < 20 | **150** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-13A | 11/17/2005 | 1 | 29.5-33 | passive | STL Sac | 8260B | < 100 | **4200** | **250** | < 100 | **190** | < 100 | < 100 | **20** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-14A | 3/11/2004 | 2 | 28-29.2 | passive | STLSEA | 8260B | < 200 | **8480** | < 200 | < 200 | **898** | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | NS | < 200 |
| MW-14A | 4/28/2004 | 2 | 29-34 | traditional | STL Sac | 8260B | < 290 | **5300** | **750** | < 290 | **580** | < 290 | < 290 | < 290 | < 290 | < 290 | < 290 | < 290 | < 290 | < 290 | < 590 |
| MW-14A | 9/16/2004 | 2 | 29-34 | traditional | STL Sac | 8260B | < 100 | **6000** | **1000** | < 100 | **840** | **100** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-14A | 12/15/2004 | 2 | 29-34 | traditional | STL Sac | 8260B | < 250 | **9500** | **920** | < 250 | **1100** | **230** j | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 500 |
| MW-14A | 2/16/2005 | 2 | 29-34 | traditional | STL Sac | 8260B | < 500 | **9400** | **910** | < 500 | **860** | **320** j | < 500 | < 500 | < 500 | < 500 | < 500 | < 500 | < 500 | < 500 | < 1000 |
| MW-14A (DIFF) | 2/16/2005 | 2 | 25.9-27.1 | passive | STL Sac | 8260B | < 100 | **3500** | **1000** | < 100 | **330** | **140** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-14A | 6/7/2005 | 2 | 29.9-31.1 | passive | STL Sac | 8260B | < 200 | **710** | **2900** | < 200 | **240** | **1200** | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 400 |
| MW-14A | 9/14/2005 | 2 | 30.1-31.3 | passive | STLSEA | 8260B | < 50 | **1280** | **2030** | < 50 | **214** | **527** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 | < 50 |
| MW-14A | 11/17/2005 | 2 | 30.1-31.3 | passive | STL Sac | 8260B | < 100 | **1500** | **1400** | < 100 | **180** | **280** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-14A Field Duplicate | 11/17/2005 | 2 | 30.1-31.3 | passive | STL Sac | 8260B | < 100 | **1500** | **1300** | < 100 | **230** | **310** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |
| MW-15A | 3/11/2004 | 2 | 18-19.2 | passive | STLSEA | 8260B | < 20 | **873** | **57.1** | < 20 | **21.6** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | NS | < 20 |
| MW-15A | 4/22/2004 | 2 | 14.5-24.5 | traditional | STL Sac | 8260B | < 50 | **1500** # | **100** # | < 50 | **30** #j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-15A | 9/15/2004 | 2 | 14.5-24.5 | traditional | STL Sac | 8260B | < 20 UJ | **690** J | **52** J | < 20 UJ | **20** J | < 20 UJ | < 20 UJ | < 20 UJ | < 20 UJ | < 20 UJ | < 20 UJ | < 20 UJ | < 20 UJ | < 20 | < 40 |
| MW-15A | 12/15/2004 | 2 | 14.5-24.5 | traditional | STL Sac | 8260B | < 10 | **690** | **76** | **2.1** j | **21** | < 10 | < 10 | **4.8** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-15A | 2/14/2005 | 2 | 14.5-24.5 | traditional | STL Sac | 8260B | < 20 | **570** | **57** | < 20 | **13** j | **5.3** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-15A (DIFF) | 2/14/2005 | 2 | 16.8-18 | passive | STL Sac | 8260B | < 5 | **110** | **12** | < 5 | < 5 | < 5 | < 5 | **0.64** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-15A | 6/8/2005 | 2 | 20.1-21.3 | passive | STL Sac | 8260B | < 25 | **490** | **51** | < 25 | **14** j | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-15A | 9/14/2005 | 2 | 18-19.2 | passive | STLSEA | 8260B | < 10 | **618** | **81** | < 10 | **16.4** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 | < 10 |
| MW-15A | 11/16/2005 | 2 | 18-19.2 | passive | STL Sac | 8260B | < 20 | **660** | **68** | **2.2** j | **18** j | **3.9** j | < 20 | **3.4** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-16A | 3/10/2004 | 2 | 20-21.2 | passive | STLSEA | 8260B | < 10 | **284** | **9.34** j | < 10 | < 10 | < 10 | **8.95** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NS | < 10 |
| MW-16A (dup) | 3/10/2004 | 2 | 20-21.2 | passive | STLSEA | 8260B | < 10 | **279** | **8.84** j | < 10 | < 10 | < 10 | **8.5** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NS | < 10 |
| MW-16A | 4/27/2004 | 2 | 15-25 | traditional | STL Sac | 8260B | < 10 | **440** | **9.1** j | < 10 | < 10 | < 10 | **5.8** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-16A | 9/16/2004 | 2 | 15-25 | traditional | STL Sac | 8260B | < 10 | **480** | **11** | < 10 | **4.6** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-16A | 12/15/2004 | 2 | 15-25 | traditional | STL Sac | 8260B | < 20 | **920** | **23** | < 20 | **9.8** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-16A | 2/17/2005 | 2 | 15-25 | traditional | STL Sac | 8260B | < 20 | **510** | **11** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-16A (DIFF) | 2/17/2005 | 2 | 20-21.2 | passive | STL Sac | 8260B | < 20 | **490** | **12** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-16A | 6/8/2005 | 2 | 20.1-21.3 | passive | STL Sac | 8260B | < 10 | **330** | **10** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-16A | 9/14/2005 | 2 | 22.2-23.4 | passive | STLSEA | 8260B | < 10 | **498** | **12.2** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 | < 10 |
| MW-16A | 11/17/2005 | 2 | 20.1-21.3 | passive | STL Sac | 8260B | < 20 | **580** | **12** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-17A | 3/10/2004 | 2 | 25-26.2 | passive | STLSEA | 8260B | < 2 | **68.6** | < 2 | < 2 | **2.18** | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | NS | < 2 |
| MW-17A | 4/27/2004 | 2 | 20.7-30.7 | traditional | STL Sac | 8260B | < 5 | **170** | < 5 | < 5 | **5.0** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-17A | 9/16/2004 | 2 | 20.7-30.7 | traditional | STL Sac | 8260B | < 1 | **56** | < 1 | < 1 | **1.8** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-17A | 12/15/2004 | 2 | 20.7-30.7 | traditional | STL Sac | 8260B | < 2 | **120** | **0.49** j | < 2 | **3.4** | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 4 |
| MW-17A | 2/17/2005 | 2 | 20.7-30.7 | traditional | STL Sac | 8260B | < 2 | **120** | **0.74** j | < 2 | **3.4** | < 2 | < 2 | **0.26** j | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 4 |
| MW-17A (DIFF) | 2/17/2005 | 2 | 23-24.2 | passive | STL Sac | 8260B | < 5 | **120** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-17A | 6/8/2005 | 2 | 23.4-24.6 | passive | STL Sac | 8260B | < 10 | **190** | < 10 | < 10 | **5.6** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-17A | 9/14/2005 | 2 | 23.4-24.6 | passive | STLSEA | 8260B | < 1 | **108** | < 1 | < 1 | **2.61** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-17A | 11/16/2005 | 2 | 23.5-24.7 | passive | STL Sac | 8260B | < 10 | **220** | **1.6** j | < 10 | **6.2** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-18A | 3/10/2004 | 2 | 20-21.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **0.901** j | < 1 | NS | < 1 |
| MW-18A | 4/28/2004 | 2 | 14.7-24.7 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-18A | 9/17/2004 | 2 | 14.7-24.7 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **1.6** j |
| MW-18A | 12/15/2004 | 2 | 14.7-24.7 | traditional | STL Sac | 8260B | < 1 | **4.8** | **0.99** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **4.4** |
| MW-18A | 2/17/2005 | 2 | 14.7-24.7 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **1.8** j |
| MW-18A | 6/7/2005 | 2 | 20.6-21.8 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-18A | 9/14/2005 | 2 | 20.6-21.8 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | **6.78** |
| MW-18A | 11/17/2005 | 2 | 20.7-21.9 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **5.7** |
| MW-19A | 3/10/2004 | 2 | 22-23.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-19A | 4/28/2004 | 2 | 14-24 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19A | 9/17/2004 | 2 | 14-24 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19A | 12/15/2004 | 2 | 14-24 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19A Field Duplicate | 12/15/2004 | 2 | 14-24 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19A | 2/14/2005 | 2 | 14-24 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19A | 6/8/2005 | 2 | 22-23.2 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19A | 9/14/2005 | 2 | 22-23.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-19A | 11/16/2005 | 2 | 22-23.2 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-20A | 3/10/2004 | 2 | 16-17.2 | passive | STLSEA | 8260B | **456** | **52.6** | **35.6** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | NS | < 20 |
| MW-20A | 4/22/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **1300** J | **82** J | **55** J | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-20A | 9/14/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **910** | **60** | **46** | **7.4** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-20A | 12/16/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **1400** | **80** | **59** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-20A Field Duplicate | 12/16/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **1200** | **73** | **44** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-20A | 2/17/2005 | 2 | 10-20 | traditional | STL Sac | 8260B | **800** | **56** | **32** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-20A Field Duplicate | 2/17/2005 | 2 | 10-20 | traditional | STL Sac | 8260B | **810** | **55** | **29** | **4.3** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-20A | 6/7/2005 | 2 | 14.8-16 | passive | STL Sac | 8260B | **1000** | **67** | **20** j | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-20A | 9/14/2005 | 2 | 14.8-16 | passive | STLSEA | 8260B | **799** | **72.9** | **32.2** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-20A Field Duplicate | 9/14/2005 | 2 | 14.8-16 | passive | STLSEA | 8260B | **798** | **71** | **29.5** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-20A | 11/16/2005 | 2 | 14.7-15.9 | passive | STL Sac | 8260B | **950** | **64** | **8.6** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-21A | 3/10/2004 | 2 | 16-17.2 | passive | STLSEA | 8260B | **393** | **58.2** | **16.1** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NS | < 10 |
| MW-21A | 4/21/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **640** | **48** | **18** j | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-21A | 9/14/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **510** | **54** | **10** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-21A | 12/16/2004 | 2 | 10-20 | traditional | STL Sac | 8260B | **970** | **81** | **36** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-21A | 2/17/2005 | 2 | 10-20 | traditional | STL Sac | 8260B | **470** | **39** | **38** | **1.9** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-21A | 6/7/2005 | 2 | 15.3-16.5 | passive | STL Sac | 8260B | **430** | **57** | **30** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-21A | 9/14/2005 | 2 | 17-18.2 | passive | STLSEA | 8260B | **465** | **65.5** | **25.2** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 | < 10 |
| MW-21A | 11/16/2005 | 2 | 14.1-15.3 | passive | STL Sac | 8260B | **640** | **82** | **22** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-22A | 3/11/2004 | 2 | 20-21.2 | passive | STLSEA | 8260B | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | NS | **552** |
| MW-22A | 4/21/2004 | 2 | 15-25 | traditional | STL Sac | 8260B | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | **650** |
| MW-22A | 9/17/2004 | 2 | 15-25 | traditional | STL Sac | 8260B | < 1 | **2.2** | **7.3** | **0.26** j | < 1 | **1.1** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **47** |
| MW-22A | 12/16/2004 | 2 | 15-25 | traditional | STL Sac | 8260B | **1.6** j | < 2 | **3.1** | < 2 | < 2 | **0.79** j | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | **87** |
| MW-22A | 2/17/2005 | 2 | 15-25 | traditional | STL Sac | 8260B | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | **2200** |
| MW-22A | 6/7/2005 | 2 | 21.3-22.5 | passive | STL Sac | 8260B | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | **3500** J |
| MW-22A | 9/14/2005 | 2 | 21.3-22.5 | passive | STLSEA | 8260B | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | **573** |
| MW-22A Field Duplicate | 9/14/2005 | 2 | 21.3-22.5 | passive | STLSEA | 8260B | < 1 | **1.76** | **2.4** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | **471** |
| MW-22A | 11/15/2005 | 2 | 21.4-22.6 | passive | STL Sac | 8260B | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | **190** |
| MW-23A | 6/4/2004 | 2 | 17-27 | traditional | STL Sac | 8260B | **1.2** | **1.7** | **0.24** j | < 1 | < 1 | < 1 | < 1 | **0.54** j | < 1 | < 1 | < 1 | **0.28** J | < 1 | **0.57** j | < 2 |
| MW-23A | 9/15/2004 | 2 | 17-27 | traditional | STL Sac | 8260B | **0.63** j J | **1.2** J | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | **0.28** j | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 2 |

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |
| MW-23A | 12/16/2004 | 2 | 17-27 | traditional | STL Sac | 8260B | **0.67** j | **1.4** | **0.21** j | < 1 | < 1 | < 1 | < 1 | **0.42** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23A | 2/14/2005 | 2 | 17-27 | traditional | STL Sac | 8260B | < 1 | **0.96** j | **0.16** j | < 1 | < 1 | < 1 | < 1 | **0.36** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23A | 6/8/2005 | 2 | 24.4-25.6 | passive | STL Sac | 8260B | **0.64** j | **1.3** | **0.14** j | < 1 | < 1 | < 1 | < 1 | **0.35** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23A | 9/14/2005 | 2 | 24.4-25.6 | passive | STLSEA | 8260B | < 1 | **1.49** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-23A | 11/17/2005 | 2 | 24.4-25.6 | passive | STL Sac | 8260B | **1.1** | **1.7** | **0.22** j | < 1 | < 1 | < 1 | < 1 | **0.53** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-24A | 3/15/2004 | 2 | 25-26.2 | passive | STLSEA | 8260B | < 2 | **127** | < 2 | < 2 | **6.8** | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | NS | < 2 |
| MW-24A | 4/27/2004 | 2 | 19.5-29.5 | traditional | STL Sac | 8260B | < 2.5 | **57** | **0.36** j | < 2.5 | **2.7** | < 2.5 | < 2.5 | **0.25** j | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 5 |
| MW-24A | 9/16/2004 | 2 | 19.5-29.5 | traditional | STL Sac | 8260B | < 1 | **43** | **1.2** | < 1 | **2.7** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-24A | 12/15/2004 | 2 | 19.5-29.5 | traditional | STL Sac | 8260B | < 1 | **58** | **0.92** j | < 1 | **3.2** | < 1 | < 1 | **0.32** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-24A | 2/17/2005 | 2 | 19.5-29.5 | traditional | STL Sac | 8260B | < 2 | **96** | **0.66** j | < 2 | **4.8** | < 2 | < 2 | **0.49** j | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 4 |
| MW-24A | 6/8/2005 | 2 | 25.2-26.4 | passive | STL Sac | 8260B | < 1 | **74** | **0.40** j | < 1 | **3.5** | < 1 | < 1 | **0.31** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-24A | 9/14/2005 | 2 | 25.4-26.6 | passive | STLSEA | 8260B | < 1 | **89.3** | < 1 | < 1 | **5.07** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-24A | 11/16/2005 | 2 | 25.3-26.5 | passive | STL Sac | 8260B | < 5 | **100** | **0.65** j | < 5 | **6.3** | < 5 | < 5 | **0.54** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-25A | 6/9/2004 | 2 | 18-28 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **0.67** j | < 2 |
| MW-25A | 9/15/2004 | 2 | 18-28 | traditional | STL Sac | 8260B | < 1 UJ | **0.33** j J | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 | < 1 UJ | < 1 | < 1 UJ | < 1 UJ | < 1 UJ | < 1 | < 2 |
| MW-25A | 12/17/2004 | 2 | 18-28 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-25A | 2/14/2005 | 2 | 18-28 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-25A | 6/8/2005 | 2 | 23.3-24.5 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-25A | 9/14/2005 | 2 | 23.1-24.3 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-25A Field Duplicate | 9/14/2005 | 2 | 23.1-24.3 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-25A | 11/17/2005 | 2 | 22.7-23.9 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| ***B-Zone Monitoring Wells*** | | | | | | | | | | | | | | | | | | | | | |
| MW-01D | 4/12/1993 | 2 | 45-60 | traditional | CTL | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-01D | 4/12/1993 | 2 | 45-60 | traditional | CTL | 8240 | < 100 | **2800** | < 100 | < 100 | **100** | < 300 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | NS |
| MW-01D | 4/27/1993 | 2 | 45-60 | traditional | CTL | 8010 | < 100 | **8000** | < 100 | < 100 | **200** | < 200 | < 100 | < 100 | < 100 | < 100 | NS | NS | NS | NS | NS |
| MW-01D | 11/17/1995 | 2 | 45-60 | traditional | MCA | 8010 | < 25 | **1100** | < 25 | < 25 | **60** | < 100 | < 25 | < 25 | < 25 | < 25 | NS | NS | NS | NS | NS |
| MW-01D | 6/29/2000 | 2 | 45-60 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-01D | 6/29/2000 | 2 | 45-60 | traditional | CTBERK | 8260B | **2.4** | **320** | **3.5** | < 1.3 | **11** | < 1.3 | < 1.3 | **2.0** | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 |
| MW-01D | 3/13/2001 | 2 | 45-60 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | **9.2** | < 0.5 | < 0.5 | NS | NS |
| MW-01D (dup) | 3/13/2001 | 2 | 45-60 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-01D | 3/13/2001 | 2 | 45-60 | traditional | CTBERK | 8260B | < 2.5 | **700** | **8.8** | < 2.5 | **27** | < 2.5 | < 2.5 | **7.3** | < 2.5 | < 2.5 | NS | NS | NS | NS | NS |
| MW-01D (dup) | 3/13/2001 | 2 | 45-60 | traditional | CTBERK | 8260B | < 0.5 UJ | **0.6** bJ | < 0.5 UJ | < 0.5 UJ | < 0.5 UJ | < 0.5 UJ | < 0.5 UJ | < 0.5 UJ | < 0.5 UJ | < 0.5 UJ | NS | NS | NS | NS | NS |
| MW-01D | 6/27/2001 | 2 | 45-60 | traditional | CTBERK | 8260B | **1.5** | **320** | **2.0** | < 1.3 | **10** | < 1.3 | < 1.3 | **1.6** | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | NS | < 1.3 |
| MW-01D | 9/19/2001 | 2 | 45-60 | traditional | CTBERK | 8260B | < 2 | **520** | **9.6** | < 2 | **16** | < 2 | < 2 | **7.0** | < 2 | < 2 | **3.1** | < 2 | < 2 | NS | < 2 |
| MW-01D | 9/19/2001 | 2 | 46-47.2 | passive | CTBERK | 8260B | **4.6** | **460** | **9.7** | < 2 | **28** | < 2 | < 2 | < 2 | < 2 | < 2 | **3.0** | < 2 | < 2 | NS | < 2 |
| MW-01D | 9/19/2001 | 2 | 55-56.2 | passive | CTBERK | 8260B | < 8.3 | **1900** | **19** | < 8.3 | **54** | < 8.3 | < 8.3 | < 8.3 | < 8.3 | < 8.3 | < 8.3 | < 8.3 | < 8.3 | NS | < 8.3 |
| MW-01D (dup) | 9/19/2001 | 2 | 45-60 | traditional | CTBERK | 8260B | < 2.5 | **530** | **9.0** | < 2.5 | **17** | < 2.5 | < 2.5 | **6.5** | < 2.5 | < 2.5 | **3.6** | < 2.5 | < 2.5 | NS | < 2.5 |
| MW-01D | 12/19/2001 | 2 | 46-47.2 | passive | CTBERK | 8260B | **9.7** | **2700** | **26** | **3.4** | **42** | < 2.5 | < 2.5 | **13** | **3.3** | < 2.5 | < 2.5 | < 2.5 | < 2.5 | NS | < 2.5 |
| MW-01D | 12/19/2001 | 2 | 55-56.2 | passive | CTBERK | 8260B | < 0.5 | **6.2** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-01D | 3/20/2002 | 2 | 46-47.2 | passive | CTBERK | 8260B | **40** | **3100** | **27** | < 8.3 | **72** | < 8.3 | < 8.3 | **13** | < 8.3 | < 8.3 | < 8.3 | < 8.3 | < 8.3 | NS | < 8.3 |
| MW-01D | 3/20/2002 | 2 | 55-56.2 | passive | CTBERK | 8260B | < 0.5 | **3.5** | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-01D | 6/21/2002 | 2 | 46-47.2 | passive | STLSAC | 8260B | < 25 | **1400** | **15** j | < 25 | **46** | < 25 | < 25 | **13** j | < 25 | < 25 | **11** j | < 25 | < 25 | < 25 | < 25 |
| MW-01D | 6/21/2002 | 2 | 51-52.2 | passive | STLSAC | 8260B | < 50 | **3800** | **39** j | < 50 | **120** | < 50 | < 50 | **19** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 |
| MW-01D | 6/21/2002 | 2 | 56-57.2 | passive | STLSAC | 8260B | < 5 | **400** | **3.4** j | < 5 | **13** | < 5 | < 5 | **1.8** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 |
| MW-01D | 9/24/2002 | 2 | 51-52.2 | passive | STLSAC | 8260B | < 50 | **2900** | **35** j | < 50 | **120** | < 50 | < 50 | **16** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-01D | 11/14/2002 | 2 | 51-52.2 | passive | STLSAC | 8260B | < 100 UJ | **3300** J | < 100 UJ | < 100 UJ | **100** J | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ | < 100 UJ |
| MW-01D | 2/19/2003 | 2 | 46-47.2 | passive | STLSAC | 8260B | < 20 | **900** | **12** j | < 20 | **32** | < 20 | < 20 | **13** j | < 20 | < 20 | **5.2** j | < 20 | < 20 | < 20 | < 40 |
| MW-01D | 2/19/2003 | 2 | 51-52.2 | passive | STLSAC | 8260B | < 100 | **2400** | **30** j | < 100 | **87** j | < 100 | < 100 | **12** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-01D | 2/19/2003 | 2 | 56-57.2 | passive | STLSAC | 8260B | < 2 | **76** | **0.88** j | < 2 | **2.7** | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 4 |
| MW-01D | 5/6/2003 | 2 | 46-47.2 | passive | STLSAC | 8260B | < 20 | **1000** | **14** j | < 20 | **44** | < 20 | < 20 | **14** j | < 20 | < 20 | **6.9** j | < 20 | < 20 | < 20 | < 40 |
| MW-01D | 5/6/2003 | 2 | 51-52.2 | passive | STLSAC | 8260B | < 100 | **2600** | **34** j | < 100 | **110** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-01D | 5/6/2003 | 2 | 56-57.2 | passive | STLSAC | 8260B | < 10 | **280** | **3.6** j | < 10 | **12** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-01D | 7/22/2003 | 2 | 51-52.2 | passive | STLSAC | 8260B | < 100 | **3000** | **51** j | < 100 | **130** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-08B (previously MW-01D) | 10/24/2003 | 2 | 51-52.2 | passive | STLSAC | 8260B | < 100 | **2300** | **40** j | < 100 | **90** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-08B | 3/10/2004 | 2 | 51-52.2 | passive | STLSEA | 8260B | < 20 | **673** | < 20 | < 20 | **36.9** | < 20 | < 20 | < 20 | < 20 | < 20 | **41.7** | < 20 | < 20 | NS | < 20 |
| MW-08B | 4/20/2004 | 2 | 45-60 | traditional | STL Sac | 8260B | < 2.5 | **93** | **1.1** j | < 2.5 | **1.8** j | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | **0.88** j | < 2.5 | < 2.5 | < 2.5 | < 5 |
| MW-08B (dup) | 4/20/2004 | 2 | 45-60 | traditional | STL Sac | 8260B | < 2.5 | **86** | **0.74** j | < 2.5 | **1.9** j | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | **0.61** j | < 2.5 | < 2.5 | < 2.5 | < 5 |
| MW-08B | 9/14/2004 | 2 | 45-60 | traditional | STL Sac | 8260B | < 5 UJ | **170** J | **3.3** j J | < 5 UJ | **4.9** j J | < 5 UJ | < 5 UJ | < 5 | < 5 UJ | < 5 | < 5 UJ | < 5 UJ | < 5 UJ | < 5 | < 10 |
| MW-08B | 12/16/2004 | 2 | 46.8-48 | passive | STL Sac | 8260B | < 250 | **4100** | **89** j | < 250 | **160** j | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 500 |
| MW-08B (DIFF) | 2/15/2005 | 2 | 46.7-47.9 | passive | STL Sac | 8260B | < 100 | **3300** | **67** j | < 100 | **110** | < 100 | < 100 | **17** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-08B | 6/7/2005 | 2 | 51.4-52.6 | passive | STL Sac | 8260B | < 50 | **1000** | **20** j | < 50 | **43** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-08B | 9/13/2005 | 2 | 51.5-52.7 | passive | STLSEA | 8260B | < 20 | **654** | **20.6** | < 20 | **23.5** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-08B | 11/17/2005 | 2 | 51.5-52.7 | passive | STL Sac | 8260B | < 100 | **1300** | **26** j | < 100 | **51** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-02D | 8/25/1993 | 2 | 50.5-60.5 | traditional | CTL | 8010 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 | < 1 | < 1 | < 1 | NS | NS | NS | NS | NS |
| MW-02D | 8/25/1993 | 2 | 50.5-60.5 | traditional | CTL | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | **0.9** | < 0.5 | **2.1** | NS |
| MW-02D | 11/17/1995 | 2 | 50.5-60.5 | traditional | MCA | 8010 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 2 | < 0.5 | < 0.5 *D* | < 0.5 | < 0.5 *D* | NS | NS | NS | NS | NS |
| MW-02D | 6/28/2000 | 2 | 50.5-60.5 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-02D (dup) | 6/28/2000 | 2 | 50.5-60.5 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-02D | 6/28/2000 | 2 | 50.5-60.5 | traditional | CTBERK | 8260B | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-02D (dup) | 6/28/2000 | 2 | 50.5-60.5 | traditional | CTBERK | 8260B | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-02D | 3/12/2001 | 2 | 50.5-60.5 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-02D | 3/12/2001 | 2 | 50.5-60.5 | traditional | CTBERK | 8260B | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | NS | NS | NS | NS |
| MW-02D | 6/27/2001 | 2 | 50.5-60.5 | traditional | CTBERK | 8260B | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-02D | 9/19/2001 | 2 | 50.5-60.5 | traditional | CTBERK | 8260B | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | **3.6** | **0.6** | NS | < 0.5 |
| MW-02D | 12/19/2001 | 2 | 50.5-60.5 | traditional | CTBERK | 8260B | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-02D | 3/20/2002 | 2 | 59-60.2 | passive | CTBERK | 8260B | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-02D (dup) | 3/20/2002 | 2 | 59-60.2 | passive | CTBERK | 8260B | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS | < 0.5 |
| MW-02D | 9/24/2002 | 2 | 59-60.2 | passive | STLSAC | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |
| MW-02D | 11/14/2002 | 2 | 59-60.2 | passive | STLSAC | 8260B | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ |
| MW-02D | 2/19/2003 | 2 | 59-60.2 | passive | STLSAC | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-02D | 5/6/2003 | 2 | 59-60.2 | passive | STLSAC | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-02D | 7/22/2003 | 2 | 59-60.2 | passive | STLSAC | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **0.13** j | < 1 | < 1 | < 1 | < 2 |
| MW-09B (previously MW-02D) | 10/24/2003 | 2 | 59-60.2 | passive | STLSAC | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-09B | 3/10/2004 | 2 | 59-60.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-09B | 4/27/2004 | 2 | 50.5-60.5 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-09B | 9/16/2004 | 2 | 50.5-60.5 | traditional | STL Sac | 8260B | < 1 | **2.7** | **0.43** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-09B | 12/15/2004 | 2 | 57.7-58.9 | passive | STL Sac | 8260B | < 1 | **0.53** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-09B (DIFF) | 2/16/2005 | 2 | 58-59.2 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-09B | 6/8/2005 | 2 | 57.1-58.3 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-09B | 9/14/2005 | 2 | 57-58.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-09B | 11/16/2005 | 2 | 57.2-58.4 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **0.17** j | < 1 | < 1 | < 1 | < 2 |
| MW-03D | 8/25/1993 | 2 | 40-50 | traditional | CTL | 8010 | < 2 | **170** | < 2 | < 2 | **15** | < 4 | < 2 | < 2 | < 2 | < 2 | NS | NS | NS | NS | NS |
| MW-03D | 8/25/1993 | 2 | 40-50 | traditional | CTL | 8020 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-03D | 11/17/1995 | 2 | 40-50 | traditional | MCA | 8010 | < 5 | **280** | < 5 | < 5 | **39** | < 20 | < 5 | < 5 | < 5 | < 5 | NS | NS | NS | NS | NS |
| MW-03D | 6/28/2000 | 2 | 40-50 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NS |
| MW-03D | 6/28/2000 | 2 | 40-50 | traditional | CTBERK | 8260B | < 3.6 | **1300** | **4.5** | < 3.6 | **91** | < 3.6 | < 3.6 | **4.8** | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 |
| MW-03D | 9/7/2000 | 2 | 40-50 | traditional | CTBERK | 8260B | < 5 | **1500** | < 5 | < 5 | **69** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | NS | < 5 |
| MW-03D | 3/13/2001 | 2 | 40-50 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-03D (dup) | 3/13/2001 | 2 | 40-50 | traditional | CTBERK | 8021B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | < 0.5 | < 0.5 | < 0.5 | NS | NS |
| MW-03D | 3/13/2001 | 2 | 40-50 | traditional | CTBERK | 8260B | < 3.6 | **970** | **3.7** | < 3.6 | **60** | < 3.6 | < 3.6 | **4.3** | < 3.6 | < 3.6 | NS | NS | NS | NS | NS |
| MW-03D (dup) | 3/13/2001 | 2 | 40-50 | traditional | CTBERK | 8260B | < 5 | **1000#** | < 5 | < 5 | **61#** | < 5 | < 5 | < 5 | < 5 | < 5 | NS | NS | NS | NS | NS |
| MW-03D | 6/27/2001 | 2 | 40-50 | traditional | CTBERK | 8260B | **5.6** | **1400** | < 5 | < 5 | **69** | < 5 | < 5 | **5.0** | < 5 | < 5 | < 5 | < 5 | < 5 | NS | < 5 |
| MW-03D | 9/19/2001 | 2 | 40-50 | traditional | CTBERK | 8260B | < 1.7 | **480** | **2.6** | < 1.7 | **32** | < 1.7 | < 1.7 | **2.7** | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | NS | < 1.7 |
| MW-03D | 9/19/2001 | 2 | 44-45.2 | passive | CTBERK | 8260B | < 5 | **1100** | < 5 | < 5 | **54** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | NS | < 5 |
| MW-03D | 12/19/2001 | 2 | 44-45.2 | passive | CTBERK | 8260B | < 4.2 | **1100** | **5.2** | < 4.2 | **42** | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | NS | < 4.2 |
| MW-03D | 3/20/2002 | 2 | 44-45.2 | passive | CTBERK | 8260B | < 3.6 | **1300** | **4.3** | < 3.6 | **50** | < 3.6 | < 3.6 | **4.0** | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | NS | < 3.6 |
| MW-03D | 9/24/2002 | 2 | 44-45.2 | passive | STLSAC | 8260B | < 50 | **1300** | **6.6** j | < 50 | **93** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-03D | 11/14/2002 | 2 | 44-45.2 | passive | STLSAC | 8260B | < 50 UJ | **1400** J | < 50 UJ | < 50 UJ | **81** J | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ |
| MW-03D (dup) | 11/14/2002 | 2 | 44-45.2 | passive | STLSAC | 8260B | < 50 UJ | **1400** J | < 50 UJ | < 50 UJ | **79** J | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ |
| MW-03D | 2/19/2003 | 2 | 44-45.2 | passive | STLSAC | 8260B | < 25 | **1100** | **4.5** j | < 25 | **74** | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-03D (dup) | 2/19/2003 | 2 | 44-45.2 | passive | STLSAC | 8260B | < 25 | **1100** | **5.3** j | < 25 | **77** | < 25 | < 25 | **4.0** j | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-03D | 5/6/2003 | 2 | 44-45.2 | passive | STLSAC | 8260B | < 25 | **1200** | **3.3** j | **64** | **85** | < 25 | < 25 | **4.2** j | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-03D | 7/22/2003 | 2 | 44-45.2 | passive | STLSAC | 8260B | < 50 | **1200#** | < 50 | < 50 | **96#** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-10B (previously MW-03D) | 10/24/2003 | 2 | 44-45.2 | passive | STLSAC | 8260B | < 50 | **1300** | < 50 | < 50 | **94** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-10B | 3/10/2004 | 2 | 44-45.2 | passive | STLSEA | 8260B | < 50 | **1410** | < 50 | < 50 | **68.6** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | NS | < 50 |
| MW-10B | 4/26/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 5 | **150** | < 5 | < 5 | **8.1** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-10B (dup) | 4/26/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 5 | **160** | < 5 | < 5 | **8.8** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-10B | 9/15/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 2.5 | **120** | **0.55** j | < 2.5 | **8.4** | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 5 |
| MW-10B | 12/15/2004 | 2 | 42.8-44 | passive | STL Sac | 8260B | < 20 | **1500** | **7.2** j | < 20 | **99** | < 20 | < 20 | **5.2** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-10B (DIFF) | 2/16/2005 | 2 | 43.2-44.4 | passive | STL Sac | 8260B | < 50 | **1100** | < 50 | < 50 | **61** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-10B | 6/8/2005 | 2 | 44.2-45.4 | passive | STL Sac | 8260B | < 50 | **1200** | < 50 | < 50 | **80** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-10B | 9/14/2005 | 2 | 44.3-45.5 | passive | STLSEA | 8260B | < 20 | **1430** | < 20 | < 20 | **89.2** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-10B | 11/16/2005 | 2 | 44.4-45.6 | passive | STL Sac | 8260B | < 100 | **1400** | < 100 | < 100 | **100** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-11B | 10/10/2003 | 1 | 40-50 | traditional | STLSEA | 8260B | **4.66** | **7860** d | **68.3** | **3.29** | **470** d | < 1 | **6.49** | **7.97** | **6.5** | **1.41** | < 1 | **1.74** | < 1 | NS | < 1 |
| MW-11B | 11/4/2003 | 1 | 50-53.5 | passive | STLSAC | 8260B | < 200 | **3700** | < 200 | < 200 | **230** | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 400 |
| MW-11B | 3/11/2004 | 1 | 45-48.5 | passive | STLSEA | 8260B | < 200 | **9950** | **188** j | < 200 | **582** | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | NS | < 200 |
| MW-11B | 4/27/2004 | 1 | 40-50 | traditional | STL Sac | 8260B | < 300 | **11000** | **380** | < 300 | **670** | < 300 | < 300 | < 300 | < 300 | < 300 | < 300 | < 300 | < 300 | < 300 | < 600 |
| MW-11B | 9/15/2004 | 1 | 40-50 | traditional | STL Sac | 8260B | < 50 UJ | **3300** J | **640** J | < 50 UJ | **330** J | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 50 UJ | < 100 |
| MW-11B | 12/17/2004 | 1 | 40-50 | traditional | STL Sac | 8260B | < 50 | **600** | **3100** | < 50 | **190** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-11B | 12/30/2004 | 1 | 40-50 | traditional | STL Sac | 8260B | < 100 | **31** j | **5500** | < 100 | **320** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-11B | 2/15/2005 | 1 | 40-50 | traditional | STL Sac | 8260B | < 500 | **7600** | **530** | < 500 | **450** j | < 500 | < 500 | < 500 | < 500 | < 500 | < 500 | < 500 | < 500 | < 500 | < 1000 |
| MW-11B | 6/7/2005 | 1 | 42.1-45.6 | passive | STL Sac | 8260B | < 20 | < 20 | **610** | < 20 | **73** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-11B | 9/14/2005 | 1 | 45-48.5 | passive | STLSEA | 8260B | < 10 | **33.7** | **387** | < 10 | **32.3** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 | < 10 |
| MW-11B | 11/16/2005 | 1 | 40-50 | traditional | STL Sac | 8260B | < 1000 | **19000** | **1800** | < 1000 | **1000** | < 1000 | < 1000 | < 1000 | < 1000 | < 1000 | < 1000 | < 1000 | < 1000 | < 1000 | < 2000 |
| MW-11B | 11/16/2005 | 1 | 37.4-40.9 | passive | STL Sac | 8260B | < 100 | **140** | **1300** | < 100 | **66** j | **270** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-11B | 11/16/2005 | 1 | 41-44.5 | passive | STL Sac | 8260B | < 50 | **63** | **960** | < 50 | **62** | **160** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-11B | 11/16/2005 | 1 | 45-48.5 | passive | STL Sac | 8260B | < 50 | **45** j | **620** | < 50 | **39** j | **120** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-12B | 10/10/2003 | 1 | 50-60 | traditional | STLSEA | 8260B | < 1 | **149** d | **2.78** | **0.9** j | **96.3** d | < 1 | < 1 | **3.19** | **1.12** | **1.17** | < 1 | < 1 | < 1 | NS | < 1 |
| MW-12B | 3/10/2004 | 1 | 51-54.5 | passive | STLSEA | 8260B | < 1 | **161** *E* | **196** *E* | **0.864** j | **83.4** | **0.537** j | < 1 | **3.18** | **1.07** | **1.21** | < 1 | < 1 | < 1 | NS | < 1 |
| MW-12B | 4/27/2004 | 1 | 50-60 | traditional | STL Sac | 8260B | < 10 | **72** | **200** | < 10 | **110** | < 10 | < 10 | **5.2** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-12B | 9/29/2004 | 1 | 50-60 | traditional | STL Sac | 8260B | < 20 | < 20 | **77** | < 20 | **23** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-12B | 12/17/2004 | 1 | 50-60 | traditional | STL Sac | 8260B | < 1 | **23** | **71** | **0.55** j | **44** | < 1 | < 1 | **2.1** | **0.51** j | **1.1** | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-12B | 2/15/2005 | 1 | 50-60 | traditional | STL Sac | 8260B | < 2 | **35** | **77** | **0.72** j | **55** | < 2 | < 2 | **1.8** j | < 2 | **0.94** j | < 2 | < 2 | < 2 | < 2 | < 4 |
| MW-12B | 6/7/2005 | 1 | 54.5-58 | passive | STL Sac | 8260B | < 2 | **2.5** | **87** | < 2 | **30** | **1.3** j | < 2 | **0.94** j | < 2 | < 2 | < 2 | **0.83** j | < 2 | < 2 | < 4 |
| MW-12B | 9/13/2005 | 1 | 54.7-58.2 | passive | STLSEA | 8260B | < 20 | < 20 | **237** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-12B | 11/15/2005 | 1 | 54.6-58.1 | passive | STL Sac | 8260B | < 5 | **8.2** | **180** | **0.63** j | **32** | **29** | < 5 | **2.0** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-13B | 10/10/2003 | 1 | 45-55 | traditional | STLSEA | 8260B | **0.873** j | **807** d | **58.5** | **1.28** | **49** | < 1 | **1.01** | **17.4** | **3.19** | **0.886** j | < 1 | **0.767** j | < 1 | NS | < 1 |
| MW-13B | 3/11/2004 | 1 | 50-53.5 | passive | STLSEA | 8260B | < 50 | **1990** | **896** | < 50 | **132** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | NS | < 50 |
| MW-13B | 4/22/2004 | 1 | 45-55 | traditional | STL Sac | 8260B | < 100 | **1900** | **390** | < 100 | **140** | < 100 | < 100 | **21** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-13B | 9/15/2004 | 1 | 45-55 | traditional | STL Sac | 8260B | < 25 | **2200** e J | **420** | < 25 | **180** | < 25 | < 25 | **28** | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-13B | 12/17/2004 | 1 | 45-55 | traditional | STL Sac | 8260B | < 100 | **4400** | **1400** | < 100 | **330** | < 100 | < 100 | **82** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-13B | 2/15/2005 | 1 | 45-55 | traditional | STL Sac | 8260B | < 100 | **2100** | **280** | < 100 | **90** j | < 100 | < 100 | **16** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-13B | 6/7/2005 | 1 | 49.2-52.7 | passive | STL Sac | 8260B | < 100 | **5900** | **300** | < 100 | **300** | < 100 | < 100 | **37** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-13B | 9/13/2005 | 1 | 49.4-52.9 | passive | STLSEA | 8260B | < 20 | **5440** | **270** | < 20 | **273** | < 20 | < 20 | **29.2** | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-13B | 11/17/2005 | 1 | 49.4-52.9 | passive | STL Sac | 8260B | < 200 | **5600** | **250** | < 200 | **210** | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 400 |

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |
| MW-14B | 3/11/2004 | 2 | 43-44.2 | passive | STLSEA | 8260B | < 100 | **2270** | < 100 | < 100 | **158** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | NS | < 100 |
| MW-14B | 4/28/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 50 | **780** | < 50 | < 50 | **48** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-14B | 9/16/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 25 | **1100** | < 25 | < 25 | **100** | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-14B | 12/15/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 10 | **670** | **130** | **2.4** j | **55** | < 10 | < 10 | **3.1** j | < 10 | < 10 | 2.0 j | < 10 | < 10 | < 10 | < 20 |
| MW-14B | 2/16/2005 | 2 | 40-50 | traditional | STL Sac | 8260B | < 100 | **2200** | < 100 | < 100 | **120** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-14B (DIFF) | 2/16/2005 | 2 | 41.7-42.9 | passive | STL Sac | 8260B | < 100 | **2700** | **23** j | < 100 | **180** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-14B | 6/7/2005 | 2 | 40.7-41.9 | passive | STL Sac | 8260B | < 50 | **1200** | **51** | < 50 | **96** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-14B (dup) | 6/7/2005 | 2 | 40.7-41.9 | passive | STL Sac | 8260B | < 50 | **1200** | **45** j | < 50 | **100** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-14B | 9/14/2005 | 2 | 42.2-43.4 | passive | STLSEA | 8260B | < 50 | **3330** | < 50 | < 50 | **252** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 | < 50 |
| MW-14B | 11/17/2005 | 2 | 42.2-43.4 | passive | STL Sac | 8260B | < 200 | **3700** | < 200 | < 200 | **250** | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 400 |
| MW-15B | 3/10/2004 | 2 | 54-55.2 | passive | STLSEA | 8260B | < 20 | **627** | < 20 | < 20 | **57.3** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | NS | < 20 |
| MW-15B | 4/23/2004 | 2 | 49-59 | traditional | STL Sac | 8260B | < 50 | **1400** | < 50 | < 50 | **92** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-15B | 9/16/2004 | 2 | 49-59 | traditional | STL Sac | 8260B | < 20 | **880** | **53** | < 20 | **74** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-15B | 12/15/2004 | 2 | 49-59 | traditional | STL Sac | 8260B | < 50 | **2200** | **210** | < 50 | **190** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-15B | 2/14/2005 | 2 | 49-59 | traditional | STL Sac | 8260B | < 50 | **1300** | **120** | < 50 | **93** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-15B (DIFF) | 2/14/2005 | 2 | 51.3-52.5 | passive | STL Sac | 8260B | < 50 | **1300** | **310** | < 50 | **99** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-15B | 6/8/2005 | 2 | 51-52.2 | passive | STL Sac | 8260B | < 50 | **1300** | **210** | < 50 | **100** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-15B | 9/14/2005 | 2 | 51.2-52.4 | passive | STLSEA | 8260B | < 20 | **1510** | **242** | < 20 | **122** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-15B Field Duplicate | 9/14/2005 | 2 | 51.2-52.4 | passive | STLSEA | 8260B | < 1 | **1430** | **243** | **2.33** | **117** | < 1 | < 1 | **1.98** | **2.28** | **1.37** | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-15B | 11/16/2005 | 2 | 51.3-52.5 | passive | STL Sac | 8260B | < 100 | **1600** | **200** | < 100 | **150** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-15B Field Duplicate | 11/16/2005 | 2 | 51.3-52.5 | passive | STL Sac | 8260B | < 100 | **1700** | **250** | < 100 | **130** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-16B | 3/10/2004 | 2 | 40-41.2 | passive | STLSEA | 8260B | < 20 | **739** | **30.1** | < 20 | **15.5** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | NS | < 20 |
| MW-16B | 4/26/2004 | 2 | 35-45 | traditional | STL Sac | 8260B | < 10 | **550** | **24** | < 10 | **11** | < 10 | **8.5** j | **3.1** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-16B | 9/16/2004 | 2 | 35-45 | traditional | STL Sac | 8260B | < 5 | **170** | **9.5** | < 5 | **2.4** j | < 5 | **24** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-16B (dup) | 9/16/2004 | 2 | 35-45 | traditional | STL Sac | 8260B | < 2.5 | **140** | **8.0** | < 2.5 | **1.7** j | < 2.5 | **20** | **0.56** j | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 5 |
| MW-16B | 12/15/2004 | 2 | 35-45 | traditional | STL Sac | 8260B | < 5 | **270** | **15** | < 5 | **4.7** j | < 5 | **22** | **1.4** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-16B | 2/17/2005 | 2 | 35-45 | traditional | STL Sac | 8260B | < 20 | **760** | **22** | < 20 | **13** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-16B | 2/17/2005 | 2 | 34.2-35.4 | passive | STL Sac | 8260B | < 20 | **560** | **22** | < 20 | **9.9** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-16B | 6/8/2005 | 2 | 37.5-38.7 | passive | STL Sac | 8260B | < 25 | **940** | **21** j | < 25 | **31** | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 50 |
| MW-16B | 9/14/2005 | 2 | 37.8-39 | passive | STLSEA | 8260B | < 10 | **1090** j | **24.4** j | < 10 | **38.1** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 | < 10 |
| MW-16B | 11/17/2005 | 2 | 37.8-39 | passive | STL Sac | 8260B | < 50 | **1300** | **24** j | < 50 | **53** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-17B | 3/10/2004 | 2 | 50-51.2 | passive | STLSEA | 8260B | < 1 | **11.6** | < 1 | < 1 | **0.689** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-17B | 4/27/2004 | 2 | 44-54 | traditional | STL Sac | 8260B | < 10 | **280** | < 10 | < 10 | **9.6** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-17B | 9/16/2004 | 2 | 44-54 | traditional | STL Sac | 8260B | < 5 | **250** | **1.2** j | < 5 | **12** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-17B | 12/15/2004 | 2 | 44-54 | traditional | STL Sac | 8260B | < 20 | **760** | **2.9** j | < 20 | **32** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-17B | 2/17/2005 | 2 | 44-54 | traditional | STL Sac | 8260B | < 10 | **290** | < 10 | < 10 | **11** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-17B (DIFF) | 2/17/2005 | 2 | 39.1-40.3 | passive | STL Sac | 8260B | < 1 | **10** | < 1 | < 1 | **0.68** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-17B | 6/8/2005 | 2 | 43.7-44.9 | passive | STL Sac | 8260B | < 1 | **7.4** | < 1 | < 1 | **0.64** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-17B | 9/14/2005 | 2 | 44.7-45.9 | passive | STLSEA | 8260B | < 1 | **9.97** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-17B | 9/14/2005 | 2 | 47.7-48.9 | passive | STLSEA | 8260B | < 1 | **7.36** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-17B | 9/14/2005 | 2 | 50.7-51.9 | passive | STLSEA | 8260B | < 1 | **4.82** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-17B | 11/16/2005 | 2 | 44-54 | traditional | STL Sac | 8260B | < 10 | **360** | < 10 | < 10 | **11** | < 10 | < 10 | 1.0 j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-17B | 11/16/2005 | 2 | 44.9-46.1 | passive | STL Sac | 8260B | < 1 | **10** | < 1 | < 1 | **0.96** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-17B | 11/16/2005 | 2 | 47.9-49.1 | passive | STL Sac | 8260B | < 1 | **8.2** | < 1 | < 1 | **0.67** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-17B | 11/16/2005 | 2 | 50.9-52.1 | passive | STL Sac | 8260B | < 1 | **4.6** | < 1 | < 1 | **0.54** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-18B | 3/10/2004 | 2 | 37-38.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **0.601** j | < 1 | NS | < 1 |
| MW-18B | 4/28/2004 | 2 | 32-42 | traditional | STL Sac | 8260B | < 1 | **20** | **7.7** | < 1 | **1.8** | < 1 | < 1 | **0.14** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-18B | 9/17/2004 | 2 | 32-42 | traditional | STL Sac | 8260B | **0.43** j | **1.2** | **0.29** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-18B (dup) | 9/17/2004 | 2 | 32-42 | traditional | STL Sac | 8260B | **0.41** j | **1.1** | **0.38** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-18B | 12/15/2004 | 2 | 32-42 | traditional | STL Sac | 8260B | < 1 | **5.1** | **1.8** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-18B | 2/17/2005 | 2 | 32-42 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **3.5** |
| MW-18B | 6/7/2005 | 2 | 38.3-39.5 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **2.4** |
| MW-18B | 9/14/2005 | 2 | 36.1-37.3 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | **2.84** |
| MW-18B | 11/17/2005 | 2 | 36-37.2 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **5.0** |
| MW-19B | 3/10/2004 | 2 | 34-35.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-19B | 4/28/2004 | 2 | 29-39 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19B | 9/17/2004 | 2 | 29-39 | traditional | STL Sac | 8260B | < 1 | **0.45** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19B | 12/15/2004 | 2 | 29-39 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19B | 2/14/2005 | 2 | 29-39 | traditional | STL Sac | 8260B | < 1 | **1.4** | **0.25** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19B (dup) | 2/14/2005 | 2 | 29-39 | traditional | STL Sac | 8260B | < 1 | **3.2** | **0.58** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19B | 6/8/2005 | 2 | 32.2-33.4 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19B | 9/14/2005 | 2 | 32.2-33.4 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-19B | 11/16/2005 | 2 | 32.2-33.4 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-20B | 3/10/2004 | 2 | 35-36.2 | passive | STLSEA | 8260B | **507** | **347** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | NS | < 20 |
| MW-20B | 4/22/2004 | 2 | 30.5-40.5 | traditional | STL Sac | 8260B | **7200** | **570** | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 200 | < 400 |
| MW-20B | 9/14/2004 | 2 | 30.5-40.5 | traditional | STL Sac | 8260B | **1600** | **310** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-20B | 12/16/2004 | 2 | 30.5-40.5 | traditional | STL Sac | 8260B | **4500** | **440** | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 500 |
| MW-20B | 2/17/2005 | 2 | 30.5-40.5 | traditional | STL Sac | 8260B | **5500** | **860** | **290** | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-20B | 6/7/2005 | 2 | 32.1-33.3 | passive | STL Sac | 8260B | **780** | **460** | **2300** | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 500 |
| MW-20B | 9/14/2005 | 2 | 32-33.2 | passive | STLSEA | 8260B | **29.3** | **59.2** | **3110** | < 20 | < 20 | < 20 | **113** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-20B | 9/14/2005 | 2 | 35-36.2 | passive | STLSEA | 8260B | **313** | **253** | **4020** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-20B | 9/14/2005 | 2 | 38-39.2 | passive | STLSEA | 8260B | **829** | **515** | **3780** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-20B | 11/16/2005 | 2 | 38-39.2 | passive | STL Sac | 8260B | **1000** | **480** | **2800** | 25 j | < 100 | **84** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-20B Field Duplicate | 11/16/2005 | 2 | 38-39.2 | passive | STL Sac | 8260B | **970** | **480** | **2700** | 21 j | < 100 | **77** j | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 | < 200 |
| MW-21B | 3/10/2004 | 2 | 35-36.2 | passive | STLSEA | 8260B | **498** | **157** | **34.1** | **5.75** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NS | < 10 |
| MW-21B | 4/21/2004 | 2 | 29-39 | traditional | STL Sac | 8260B | **1500** | **98** | **31** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-21B | 9/14/2004 | 2 | 29-39 | traditional | STL Sac | 8260B | **650** | **59** | **21** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |
| MW-21B | 12/16/2004 | 2 | 29-39 | traditional | STL Sac | 8260B | **2200** | **170** | **68** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-21B | 2/17/2005 | 2 | 29-39 | traditional | STL Sac | 8260B | **1700** | **150** | **43** j | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-21B | 6/7/2005 | 2 | 31.9-33.1 | passive | STL Sac | 8260B | **800** | **120** | **31** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-21B | 9/14/2005 | 2 | 30.1-31.3 | passive | STLSEA | 8260B | **1060** | **179** | **115** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-21B | 9/14/2005 | 2 | 33.1-34.3 | passive | STLSEA | 8260B | **969** | **178** | **143** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-21B | 9/14/2005 | 2 | 36.1-37.3 | passive | STLSEA | 8260B | **1090** | **154** | **89.4** | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 | < 20 |
| MW-21B | 11/16/2005 | 2 | 36.1-37.3 | passive | STL Sac | 8260B | **1600** | **180** | **67** | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 50 | < 100 |
| MW-22B | 3/10/2004 | 2 | 45-46.2 | passive | STLSEA | 8260B | < 1 | **20.8** | **3.06** | < 1 | **0.833** j | < 1 | < 1 | **0.618** j | < 1 | **0.604** j | < 1 | < 1 | < 1 | NS | **1.07** |
| MW-22B | 4/21/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 1 | **18** | **2.6** | < 1 | **0.95** j | **0.19** j | < 1 | **0.42** j | < 1 | **0.41** j | **0.16** j | < 1 | < 1 | < 1 | **11** |
| MW-22B | 9/17/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 1 | **17** | **3.3** | < 1 | **0.90** j | < 1 | < 1 | **0.31** j | < 1 | **0.26** j | **0.20** j | < 1 | < 1 | < 1 | **7.8** |
| MW-22B | 12/16/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | **0.46** j | **13** | **6.9** | < 1 | **0.83** j | < 1 | < 1 | **0.38** j | < 1 | **0.36** j | **0.26** j | < 1 | < 1 | < 1 | **8.9** |
| MW-22B | 2/17/2005 | 2 | 40-50 | traditional | STL Sac | 8260B | < 10 | **240** | **9.0** j | < 10 | **21** | < 10 | < 10 | **1.9** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-22B | 6/7/2005 | 2 | 45.4-46.6 | passive | STL Sac | 8260B | < 1 | **17** | **20** | **0.21** j | **2.0** | **3.3** | < 1 | **0.63** j | < 1 | **0.39** j | < 1 | < 1 | < 1 | < 1 | **21** |
| MW-22B | 9/14/2005 | 2 | 45.3-46.5 | passive | STLSEA | 8260B | < 1 | **9.21** | **9.74** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | **55.3** |
| MW-22B | 11/15/2005 | 2 | 45.2-46.4 | passive | STL Sac | 8260B | < 2 | **9.8** | **9.5** | < 2 | < 2 | **0.76** j | < 2 | **0.50** j | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | **46** |
| MW-23B | 6/7/2004 | 2 | 48-58 | traditional | STL Sac | 8260B | < 1 | **12** | **0.35** j | < 1 | **3.6** | < 1 | < 1 | **0.18** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23B | 9/16/2004 | 2 | 48-58 | traditional | STL Sac | 8260B | < 1 | **37** | **0.87** j | < 1 | **11** | < 1 | < 1 | **0.42** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23B | 12/17/2004 | 2 | 48-58 | traditional | STL Sac | 8260B | < 1 | **25** | **1.1** | < 1 | **5.2** | < 1 | < 1 | **0.32** j | < 1 | < 1 | **0.17** j | < 1 | < 1 | < 1 | < 2 |
| MW-23B | 2/14/2005 | 2 | 48-58 | traditional | STL Sac | 8260B | < 1 | **22** | **1.1** | < 1 | **3.8** | < 1 | < 1 | **0.27** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23B | 6/8/2005 | 2 | 52.2-53.4 | passive | STL Sac | 8260B | < 1 | **25** | **1.1** | < 1 | **5.2** | < 1 | < 1 | **0.30** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23B | 9/14/2005 | 2 | 52.1-53.3 | passive | STLSEA | 8260B | < 1 | **29.9** | **1.69** | < 1 | **6.53** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-23B | 11/17/2005 | 2 | 52-53.2 | passive | STL Sac | 8260B | < 1 | **35** | **2.0** | < 1 | **8.0** | **0.29** j | < 1 | **0.39** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-24B | 3/15/2004 | 2 | 45-46.2 | passive | STLSEA | 8260B | < 10 | **539** | < 10 | < 10 | **31.1** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | NS | < 10 |
| MW-24B | 4/27/2004 | 2 | 39.5-49.5 | traditional | STL Sac | 8260B | < 10 | **240** | **1.7** j | < 10 | **12** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-24B | 9/16/2004 | 2 | 39.5-49.5 | traditional | STL Sac | 8260B | < 5 | **85** | **110** | < 5 | **14** | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-24B | 12/15/2004 | 2 | 39.5-49.5 | traditional | STL Sac | 8260B | < 5 | **82** | **240** | < 5 | **19** | < 5 | < 5 | **2.0** j | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 10 |
| MW-24B | 2/17/2005 | 2 | 39.5-49.5 | traditional | STL Sac | 8260B | < 20 | **610** | **6.5** j | < 20 | **31** | < 20 | < 20 | **2.4** j | < 20 | < 20 | < 20 | < 20 | < 20 | < 20 | < 40 |
| MW-24B | 6/8/2005 | 2 | 45.2-46.4 | passive | STL Sac | 8260B | < 10 | **470** | **10** | < 10 | **25** | < 10 | < 10 | **1.6** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-24B | 9/14/2005 | 2 | 45.1-46.3 | passive | STLSEA | 8260B | < 10 | **516** | **10.9** | < 10 | **24.8** | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 | < 10 |
| MW-24B | 11/16/2005 | 2 | 45.1-46.3 | passive | STL Sac | 8260B | < 10 | **490** | **7.6** j | < 10 | **27** | **2.4** j | < 10 | **1.7** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-24B Field Duplicate | 11/16/2005 | 2 | 45.1-46.3 | passive | STL Sac | 8260B | < 10 | **460** | **8.6** j | < 10 | **26** | **3.0** j | < 10 | **1.5** j | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 | < 20 |
| MW-25B | 6/9/2004 | 2 | 48-58 | traditional | STL Sac | 8260B | < 1 | **0.74** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-25B | 9/16/2004 | 2 | 48-58 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | **0.80** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-25B Field Duplicate | 12/17/2004 | 2 | 48-58 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-25B | 2/14/2005 | 2 | 48-58 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | **0.26** j | < 1 | **0.14** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-25B | 6/8/2005 | 2 | 52.4-53.6 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | **0.29** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-25B | 9/14/2005 | 2 | 52.1-53.3 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-25B | 11/17/2005 | 2 | 51.9-53.1 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-26B | 3/10/2004 | 2 | 45-46.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-26B | 4/28/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 1 | **5.9** | **0.88** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **1.2** | < 1 | < 1 | < 1 | < 2 |
| MW-26B | 9/16/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | < 1 | **4.6** | **0.93** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **0.46** j | < 1 | < 1 | < 1 | < 2 |
| MW-26B | 12/17/2004 | 2 | 40-50 | traditional | STL Sac | 8260B | **0.62** j | **2.2** | **0.48** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **0.66** j | < 1 | < 1 | < 1 | < 2 |
| MW-26B | 2/17/2005 | 2 | 40-50 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-26B | 6/8/2005 | 2 | 42.7-43.9 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-26B | 9/14/2005 | 2 | 46.1-47.3 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-26B | 11/16/2005 | 2 | 46.2-47.4 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| *C-Zone Monitoring Wells* | | | | | | | | | | | | | | | | | | | | | |
| MW-15C | 3/10/2004 | 2 | 93-94.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | **0.736** J | < 1 | NS | < 1 |
| MW-15C | 4/22/2004 | 2 | 90-95 | traditional | STL Sac | 8260B | < 1 | **6.6** | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-15C | 9/15/2004 | 2 | 90-95 | traditional | STL Sac | 8260B | < 1 | **6.2** | **0.32** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-15C (dup) | 9/15/2004 | 2 | 90-95 | traditional | STL Sac | 8260B | < 1 UJ | **6.2** J | **0.27** j J | < 1 UJ | **0.37** j J | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 1 UJ | < 2 |
| MW-15C | 12/15/2004 | 2 | 90-95 | traditional | STL Sac | 8260B | < 1 | **0.53** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-15C | 2/14/2005 | 2 | 90-95 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-15C (DIFF) | 2/14/2005 | 2 | 90-91.2 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-15C | 6/8/2005 | 2 | 92.2-93.4 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-15C (dup) | 6/8/2005 | 2 | 92.2-93.4 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-15C | 9/14/2005 | 2 | 92.3-93.5 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-15C | 11/16/2005 | 2 | 92.2-93.4 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19C | 3/10/2004 | 2 | 75-76.2 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NS | < 1 |
| MW-19C | 4/28/2004 | 2 | 70-80 | traditional | STL Sac | 8260B | < 1 | **0.33** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19C (dup) | 4/28/2004 | 2 | 70-80 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19C | 9/17/2004 | 2 | 70-80 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19C | 12/15/2004 | 2 | 70-80 | traditional | STL Sac | 8260B | < 1 | **1.1** | **0.25** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19C | 2/14/2005 | 2 | 70-80 | traditional | STL Sac | 8260B | < 1 | **0.84** j | **0.21** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19C | 6/8/2005 | 2 | 74.8-76 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19C (dup) | 6/8/2005 | 2 | 74.8-76 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-19C | 9/14/2005 | 2 | 74.7-75.9 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-19C | 11/16/2005 | 2 | 74.5-75.7 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23C | 6/8/2004 | 2 | 93-103 | traditional | STL Sac | 8260B | < 1 | **0.68** j | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23C | 9/16/2004 | 2 | 93-103 | traditional | STL Sac | 8260B | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-23C | 1/12/2005 | 2 | 93-103 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | **0.51** j | < 1 | < 1 | < 1 | < 1 | **0.21** j | < 1 | < 1 | **0.25** j | < 2 |
| MW-23C | 2/14/2005 | 2 | 93-103 | traditional | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23C | 6/8/2005 | 2 | 97.3-98.5 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |
| MW-23C | 9/14/2005 | 2 | 97.4-98.6 | passive | STLSEA | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 | < 1 |
| MW-23C | 11/17/2005 | 2 | 97.4-98.6 | passive | STL Sac | 8260B | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 2 |

*Table 2*
*Volatile Organic Compounds Detected in Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | PCE 127-18-4 (µg/L) | TCE 79-01-6 (µg/L) | C-1,2-DCE 156-59-2 (µg/L) | T-1,2-DCE 156-60-5 (µg/L) | 1,1-DCE 75-35-4 (µg/L) | VINYL CHLORIDE 75-01-4 (µg/L) | 1,1,1-TCA 71-55-6 (µg/L) | 1,1-DCA (µg/L) | 1,1,2-TCA 79-00-5 (µg/L) | 1,2-DCA (µg/L) | BENZENE 71-43-2 (µg/L) | TOLUENE 108-88-3 (µg/L) | ETHYLBENZENE 100-41-4 (µg/L) | XYLENES (µg/L) | MTBE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| California State MCL: | | | | | | | 5 | 5 | 6 | 10 | 6 | 0.5 | 200 | 5 | 5 | 0.5 | 1 | 150 | 700 | 20 | 5 |

**Notes:**

| | |
|---|---|
| # = | Maximum of multiple analytical results |
| j = | Estimated value |
| b = | ORG: Compound is found in the associated blank as well as in the sample. INORG: Value less than contract required detection limit but greater than or equal to instrument detection limit. |
| d = | Result from an analysis at a secondary dilution factor. |
| e = | ORG: Concentrations exceed the calibration range of the instrument. INORG: Reported value was estimated because of the presence of interference. |
| J = | The result is an estimated value. |
| R = | Result is qualified as rejected. |
| U = | Compound detected in an associate blank & treated as Non-Detect. |
| UJ = | The compound not detected at an estimated limit. |
| N = | Result may have been affected by carryover, which could have given the result a high bias. |
| E = | Concentration exceeded the linear calibration range. |
| NS = | Not sampled |
| < = | Not detected |
| Sample Type = | 'traditional' indicates samples were collected by traditional purge-and-sample techniques; 'passive' indicates samples were collected with passive diffusion bags |

**Laboratories:**
AEN = American Environmental Network
CHR = Chromalab, Inc.
CTBERK = Curtis&Thompkins Berkeley
CTL = Curtis & Thompkins,LTD
MCA = MCCampbell Analytical, Inc.
MTA = MED-TOX Associates, Inc.
STLSAC = Severn Trent Laboratory, Sacramento
STLSEA = Severn Trent Laboratory, Seattle
STLSF = Severn Trent Laboratory, San Francisco

**Chemicals:**
PCE = TETRACHLOROETHYLENE
TCE = TRICHLOROETHYLENE
c-1,2-DCE = CIS-1,2-DICHLOROETHYLENE
T-1,2-DCE = TRANS-1,2-DICHLOROETHYLENE
1,1-DCE = 1,1-DICHLOROETHYLENE
VINYL CHLORIDE
1,1,1-TCA = 1,1,1-TRICHLOROETHANE
1,1,2-TCA = 1,1,2-TRICHLOROETHANE
MTBE = METHYL TERT BUTYL ETHER

*Table 3*
*TPH Detected in 4th Quarter 2005 Ground Water Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Well Diameter (inch) | Sample Depth (feet) | Sample Type | Analytical Laboratory | Analytical Method | Gasoline (µg/L) | Diesel (µg/L) | Diesel (SGCU) (µg/L) | Motor Oil (µg/L) | Motor Oil (SGCU) (µg/L) | Kerosene (µg/L) | Kerosene (SGCU) (µg/L) | Unknown (µg/L) | | Unknown (SGCU) (µg/L) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | California State MCL: | | --- | --- | --- | --- | --- | --- | --- | --- | | --- | |
| MW-20A | 11/16/2005 | 2 | 10-20 | purge | STL SAC/SF | 8260/8015 | 230 | < 50 | < 50 | < 250 | < 250 | < 50 | < 50 | 65 | NJ | 63 | NJ |
| MW-21A | 11/16/2005 | 2 | 10-20 | purge | STL SAC/SF | 8260/8015 | 280 | < 50 | < 50 | < 250 | < 250 | < 50 | < 50 | 84 | NJ | 73 | NJ |
| MW-20B | 11/16/2005 | 2 | 30.5-40.5 | purge | STL SAC/SF | 8260/8015 | 1,700 | < 50 | < 50 | < 250 | < 250 | < 50 | < 50 | 520 | NJ | 580 | NJ |
| MW-21B | 11/16/2005 | 2 | 29-39 | purge | STL SAC/SF | 8260/8015 | 480 | < 50 | < 50 | < 250 | < 250 | < 50 | < 50 | 170 | NJ | 190 | NJ |

Notes:
TPH - Total Petroleum Hydrocarbons
SGCU - Silica Gel Cleanup
Results reported in micrograms per liter (µg/L).
TPH gasoline samples were anlayzed at STL-San Francisco by USEPA Method 8206..
TPH diesel/motor oil/kerosene samples were analyzed at STL-Sacramento by USEPA Method 8015 modified.
NJ - Estimated value, chromatogram did not resemble the standard hydrocarbon pattern

***Table 4***
***Volatile Organic Compounds Detected in Soil Vapor Samples***
***Hookston Station Project***
***Pleasant Hill, California***

| Sample Location | Date | Analytical Laboratory | Analytical Method | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | Ethanol | Freon 11 | Acetone | 2-Propanol*** | Carbon Disulfide | Hexane | 2-Butanone | Tetrahydrofuran |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | California CHHSL (residential): | | 180 | 528 | 15,900 | 31,900 | - | 13.3 | - | - | - | - | - | - | - | - |
| | | RWQCB ESL (residential): | | 410 | 1,200 | 7,300 | 15,000 | 42,000 | 32 | 19,000,000 | - | 660,000 | - | - | - | 210,000 | - |
| ***Locations within ground water plume footprint*** | | | | | | | | | | | | | | | | | |
| SVP-1 | 4/13/2005 | ATL | TO-15 mod. | 84 | 2,700 | < 7.4 | < 7.4 | 18 | < 4.8 | 17 | < 10 | 110 U | 7200 E | 100 | < 6.6 | 7.8 U | 12 |
| SVP-1 | 5/23/2005 | ATL | TO-15 mod. | < 110 | 3,600 | < 64 | < 64 | < 64 | < 41 | 1,500 | < 90 | 300 U | 9,500 | 69 | < 57 | < 47 | < 47 |
| SVP-1 dup | 5/23/2005 | ATL | TO-15 mod. | < 220 | 4,100 | < 130 | < 130 | < 130 | < 82 | 1,600 | < 180 | 370 | 11,000 | < 100 | < 110 | < 95 | < 95 |
| SVP-1 | 6/14/2005 | ATL | TO-15 mod. | 140 | 5,500 | < 13 | < 13 | 17 | < 8.6 | < 25 | < 19 | < 32 | < 33 | 42 | < 12 | < 9.9 | < 9.9 |
| SVP-1 | 9/13/2005 | ATL | TO-15 mod. | 170 | 6,100 | < 13 | < 13 | 16 | < 8.2 | < 24 | < 18 | < 30 | 39 | < 10 | < 11 | < 9.5 | < 9.5 |
| SVP-1 dup | 9/13/2005 | ATL | TO-15 mod. | 170 | 6,500 | < 25 | < 25 | < 25 | < 16 | < 47 | < 35 | < 60 | < 62 | < 20 | < 22 | < 18 | < 18 |
| SVP-1 | 11/14/2005 | ATL | TO-15 mod. | 110 | 4,600 | < 9.2 | < 9.2 | 13 | < 6.0 | < 18 | < 13 | < 22 | < 23 | < 7.3 | < 8.2 | < 6.9 | < 6.9 |
| SVP-2 | 4/13/2005 | ATL | TO-15 mod. | 190 | 21,000 | < 42 | < 42 | 160 | < 27 | < 80 | < 59 | < 100 | < 100 | 120 | < 37 | < 31 | < 31 |
| SVP-2 dup | 4/13/2005 | ATL | TO-15 mod. | 200 | 20,000 | < 42 | < 42 | 160 | < 27 | < 80 | < 59 | < 100 | < 100 | 120 | < 37 | < 31 | < 31 |
| SVP-2 | 6/14/2005 | ATL | TO-15 mod. | 260 | 24,000 | < 69 | < 69 | 130 | < 45 | < 130 | < 98 | < 170 | < 170 | < 54 | < 62 | < 52 | < 52 |
| SVP-2 dup | 6/14/2005 | ATL | TO-15 mod. | < 5.8 | < 4.6 | < 3.4 | < 3.4 | < 3.4 | < 2.2 | 8.6 | < 4.8 | 19 U | 2,100 E | < 2.7 | < 3.0 | < 2.5 | < 2.5 |
| SVP-2 | 9/13/2005 | ATL | TO-15 mod. | 350 | 26,000 | < 100 | < 100 | 180 | < 65 | < 190 | < 140 | < 240 | < 250 | < 79 | < 89 | < 75 | < 75 |
| SVP-2 | 11/14/2005 | ATL | TO-15 mod. | 190 | 17,000 | < 45 | < 45 | 230 | < 29 | < 86 | < 64 | < 110 | < 110 | < 36 | < 40 | < 34 | < 34 |
| SVP-3 | 4/14/2005 | ATL | TO-15 mod. | < 260 | 2,600 | 60,000 | 2,700 | 340 | 12,000 | < 290 | < 220 | < 370 | < 380 | < 120 | 1,100 | < 110 | < 110 |
| SVP-3 dup | 4/14/2005 | ATL | TO-15 mod. | < 240 | 2,200 | 53,000 | 2,500 | 300 | 10,000 | < 270 | < 200 | < 340 | < 350 | < 110 | 980 | < 110 | < 110 |
| SVP-3 | 5/23/2005 | ATL | TO-15 mod. | < 2,100 | 3,300 | 84,000 | 4,900 | < 1,200 | 14,000 | < 2,400 | < 1,800 | < 3,000 | < 3,100 | < 980 | 1,500 | < 930 | < 930 |
| SVP-3 | 6/14/2005 | ATL | TO-15 mod. | < 1,100 | 2,900 | 75,000 | 3,800 | < 670 | 15,000 | < 1,300 | < 940 | < 1,600 | < 1,600 | < 520 | 1,500 | < 500 | < 500 |
| SVP-3 | 9/13/2005 | ATL | TO-15 mod. | < 1,000 | 4,400 | 93,000 | 6,100 | < 610 | 16,000 | < 1,200 | < 870 | < 1,500 | < 1,500 | < 480 | 1,600 | < 460 | < 460 |
| SVP-3 | 11/14/2005 | ATL | TO-15 mod. | < 570 | 2,800 | 68,000 | 2,800 | < 330 | 10,000 | < 630 | < 470 | < 800 | < 820 | < 260 | 780 | < 250 | < 250 |
| SVP-3 dup | 11/14/2005 | ATL | TO-15 mod. | < 440 | 2,800 | 68,000 | 2,800 | < 260 | 10,000 | < 490 | < 370 | < 620 | < 640 | < 200 | 910 | < 190 | < 190 |
| SVP-4 | 4/20/2005 | ATL | TO-15 mod. | 180 | 14,000 | 1,300 | 41 | 170 | 340 | < 62 | < 46 | < 78 | < 81 | < 26 | < 29 | < 24 | < 24 |
| SVP-4 | 9/13/2005 | ATL | TO-15 mod. | < 5.5 | < 4.3 | < 3 | < 3.2 | < 3.2 | < 2.0 | < 6.1 | < 4.5 | 19 | 2,100 E | < 2.5 | < 2.8 | < 2.4 | < 2.4 |
| SVP-4 | 11/14/2005 | ATL | TO-15 mod. | 80 | 13,000 | 3,100 | 130 | 580 | 1,100 | < 60 | < 44 | < 75 | < 78 | < 25 | < 28 | < 23 | < 23 |
| SVP-5 | 4/14/2005 | ATL | TO-15 mod. | < 210 | 36,000 | 1,800 | < 120 | 1,100 | < 81 | < 240 | < 180 | < 300 | < 310 | < 98 | < 110 | < 93 | < 93 |
| SVP-5 | 6/15/2005 | ATL | TO-15 mod. | < 200 | 39,000 | 3,000 | 340 | 1,700 | 300 | < 220 | < 160 | < 280 | 930 | < 91 | < 100 | < 86 | < 86 |
| SVP-5 | 9/13/2005 | ATL | TO-15 mod. | < 180 | 29,000 | 2,200 | 240 | 590 | < 67 | < 200 | < 150 | < 250 | < 260 | < 82 | < 93 | < 78 | < 78 |
| SVP-5 | 11/14/2005 | ATL | TO-15 mod. | < 110 | 24,000 | 1,500 | 120 | 490 | < 41 | < 120 | < 90 | < 150 | < 160 | < 50 | < 57 | < 47 | < 47 |
| SVP-6 | 4/13/2005 | ATL | TO-15 mod. | 36 | 38 | < 3.0 | < 3.0 | < 3 | < 1.9 | < 5.6 | 17 | < 7.1 | < 7.3 | 40 | < 2.6 | < 2.2 | 2.7 |
| SVP-6 | 6/14/2005 | ATL | TO-15 mod. | 44 | 64 | < 3.3 | < 3.3 | < 3.3 | < 2.1 | 59 | 20 | 11.0 U | 46 | 34 | < 3.0 | < 2.5 | < 2.5 |
| SVP-6 | 9/13/2005 | ATL | TO-15 mod. | 36 | 47 | < 3.2 | < 3.2 | < 3.2 | < 2.1 | 17 | 13 | < 7.8 | 89 | 8.5 | < 2.9 | < 2.4 | < 2.4 |
| SVP-6 | 11/14/2005 | ATL | TO-15 mod. | 17 | 28 | < 2.7 | < 2.7 | < 2.7 | < 1.7 | < 5 | 8.5 | 6.5 U | < 6.7 | < 2.1 | 2.4 | < 2.0 | < 2.0 |
| ***Locations within utility trenches*** | | | | | | | | | | | | | | | | | |
| SVP-7 | 4/14/2005 | ATL | TO-15 mod. | 16 | < 4.2 | 15 | < 3.1 | < 3.1 | 2.8 | < 6.0 | < 4.4 | 10 U | < 7.8 | 14 | < 2.8 | 3.4 U | 2.8 |
| SVP-7 | 9/13/2005 | ATL | TO-15 mod. | 5.8 | < 4.5 | < 3.3 | < 3.3 | < 3.3 | < 2.1 | 11 | < 4.7 | 8.5 | 55 | < 2.6 | < 3.0 | < 2.5 | 3.5 |
| SVP-7 | 11/14/2005 | ATL | TO-15 mod. | < 6.1 | < 4.8 | < 3.5 | < 3.5 | < 3.5 | < 2.3 | < 6.7 | < 5.0 | < 8.5 | < 8.8 | < 2.8 | < 3.2 | < 2.6 | < 2.6 |
| SVP-8 | 4/14/2005 | ATL | TO-15 mod. | 23 | < 4.3 | < 3.2 | < 3.2 | < 3.2 | < 2.0 | < 6.1 | < 4.5 | < 7.6 | < 7.9 | 48 | < 2.8 | < 2.4 | 2.7 |
| SVP-8 | 9/13/2005 | ATL | TO-15 mod. | < 5.8 | < 4.6 | < 3.4 | < 3.4 | < 3.4 | < 2.2 | 15 | < 4.8 | < 8.1 | 86 | < 2.7 | < 3.0 | < 2.5 | 2.7 |
| SVP-8 | 11/14/2005 | ATL | TO-15 mod. | < 5.9 | < 4.7 | < 3.5 | < 3.5 | < 3.5 | < 2.2 | < 6.6 | < 4.9 | < 8.3 | < 8.6 | < 2.7 | < 3.1 | < 2.6 | < 2.6 |
| SVP-9 | 4/13/2005 | ATL | TO-15 mod. | 38 | < 4.2 | < 3.1 | < 3.1 | < 3.1 | < 2 | < 5.8 | < 4.4 | 27 U | < 7.6 | 200 | 33 | 26 | < 2.3 |
| SVP-9 | 9/13/2005 | ATL | TO-15 mod. | < 5.9 | < 4.7 | < 3.5 | < 3.5 | < 3.5 | < 2.2 | 30 | < 4.9 | 14 | 160 | 7.6 | < 3.1 | < 2.6 | 2.7 |
| SVP-9 | 11/14/2005 | ATL | TO-15 mod. | < 6.1 | < 4.8 | < 3.5 | < 3.5 | < 3.5 | < 2.3 | < 6.7 | < 5.0 | < 8.5 | < 8.8 | < 2.8 | < 3.2 | < 2.6 | < 2.6 |
| SVP-10 | 4/14/2005 | ATL | TO-15 mod. | 63 | < 4.3 | < 3.2 | < 3.2 | < 3.2 | < 2.0 | < 6.1 | < 4.5 | 28 U | 3,600 E | 60 | < 2.8 | < 2.4 | < 2.4 |
| SVP-10 | 5/23/2005 | ATL | TO-15 mod. | 130 | < 36 | < 26 | < 26 | < 26 | < 17 | 460 | < 38 | 100 U | 4,700 | 77 | < 24 | < 20 | < 20 |
| SVP-10 | 9/13/2005 | ATL | TO-15 mod. | < 6.1 | < 4.8 | < 3.5 | < 3.5 | < 3.5 | < 2.3 | 42 | < 5.0 | 26 | 250 | < 2.8 | < 3.2 | < 2.6 | < 2.6 |
| SVP-10 | 11/14/2005 | ATL | TO-15 mod. | < 6.1 | < 4.8 | < 3.5 | < 3.5 | < 3.5 | < 2.3 | < 6.7 | < 5.0 | < 8.5 | < 8.8 | < 2.8 | < 3.2 | < 2.6 | < 2.6 |

*Table 4*
*Volatile Organic Compounds Detected in Soil Vapor Samples*
*Hookston Station Project*
*Pleasant Hill, California*

| Sample Location | Date | Analytical Laboratory | Analytical Method | Chloroform | Cyclohexane | 2,2,4-TMP | Benzene | 4-methyl-2-pentanone | Toluene | Ethyl benzene | m,p-Xylene | o-Xylene | Styrene | 4-Ethyltoluene | 1,3,5-TMB | 1,2,4-TMB | 1,3-DCB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | California CHHSL (residential): | | - | - | - | 36.2 | - | 135,000 | - | 317,000* | 315,000 | - | - | | - | - |
| | | RWQCB ESL (residential): | | 450 | - | - | 85 | - | 63,000 | 420,000 | 150,000** | 150,000** | - | - | | - | 22,000 |
| *Locations within ground water plume footprint* | | | | | | | | | | | | | | | | | |
| SVP-1 | 4/13/2005 | ATL | TO-15 mod. | 24 | < 6.4 | < 8.7 | 15 | 12 | 41 | < 8.1 | 19 | < 8.1 | < 7.9 | < 9.1 | < 9.1 | < 9.1 | < 11 |
| SVP-1 | 5/23/2005 | ATL | TO-15 mod. | < 79 | < 55 | < 75 | < 51 | < 66 | < 61 | < 70 | < 70 | < 70 | < 68 | < 79 | < 79 | < 79 | < 97 |
| SVP-1 dup | 5/23/2005 | ATL | TO-15 mod. | < 160 | < 110 | < 150 | < 100 | < 130 | < 120 | < 140 | < 140 | < 140 | < 140 | < 160 | < 160 | < 160 | < 190 |
| SVP-1 | 6/14/2005 | ATL | TO-15 mod. | < 16 | < 12 | < 16 | < 11 | < 14 | < 13 | < 14 | < 14 | < 14 | < 14 | < 16 | < 16 | < 16 | < 20 |
| SVP-1 | 9/13/2005 | ATL | TO-15 mod. | < 16 | < 11 | < 15 | < 10 | < 13 | < 12 | < 14 | < 14 | < 14 | < 14 | < 16 | < 16 | < 16 | < 19 |
| SVP-1 dup | 9/13/2005 | ATL | TO-15 mod. | < 31 | < 22 | < 29 | < 20 | < 26 | < 24 | < 27 | < 27 | < 27 | < 27 | < 31 | < 31 | < 31 | < 38 |
| SVP-1 | 11/14/2005 | ATL | TO-15 mod. | < 11 | < 8.0 | < 11 | < 7.4 | < 9.6 | < 8.8 | < 10 | < 10 | < 10 | < 9.9 | < 11 | < 11 | < 11 | < 14 |
| SVP-2 | 4/13/2005 | ATL | TO-15 mod. | 56 | < 36 | < 49 | < 34 | < 43 | 100 | < 46 | < 46 | < 46 | < 45 | < 52 | < 52 | < 52 | < 63 |
| SVP-2 dup | 4/13/2005 | ATL | TO-15 mod. | 52 | < 36 | < 49 | < 34 | < 43 | 100 | < 46 | < 46 | < 46 | < 45 | < 52 | < 52 | < 52 | < 63 |
| SVP-2 | 6/14/2005 | ATL | TO-15 mod. | < 85 | < 60 | < 82 | < 56 | < 72 | < 66 | < 76 | < 76 | < 76 | < 74 | < 86 | < 86 | < 86 | < 100 |
| SVP-2 dup | 6/14/2005 | ATL | TO-15 mod. | < 4.2 | < 2.9 | < 4.0 | < 2.7 | < 3.5 | < 3.2 | < 3.7 | < 3.7 | < 3.7 | < 3.6 | < 4.2 | < 4.2 | < 4.2 | < 5.1 |
| SVP-2 | 9/13/2005 | ATL | TO-15 mod. | < 120 | < 87 | < 120 | < 81 | < 100 | < 96 | < 110 | < 110 | < 110 | < 110 | < 120 | < 120 | < 120 | < 150 |
| SVP-2 | 11/14/2005 | ATL | TO-15 mod. | < 56 | < 39 | < 53 | < 36 | < 47 | < 43 | < 49 | < 50 | < 50 | < 48 | < 56 | < 56 | < 56 | < 68 |
| SVP-3 | 4/14/2005 | ATL | TO-15 mod. | < 190 | 8,000 | < 180 | 360 | < 160 | 160 | < 170 | < 170 | < 170 | < 160 | < 190 | < 190 | < 190 | < 230 |
| SVP-3 dup | 4/14/2005 | ATL | TO-15 mod. | < 180 | 7,000 | < 170 | 300 | < 150 | 140 | < 160 | < 160 | < 160 | < 150 | < 180 | < 180 | < 180 | < 220 |
| SVP-3 | 5/23/2005 | ATL | TO-15 mod. | < 1,500 | 11,000 | < 1,500 | < 1,000 | < 1,300 | < 1,200 | < 1,400 | < 1,400 | < 1,400 | < 1,300 | < 1,600 | < 1,600 | < 1,600 | < 1,900 |
| SVP-3 | 6/14/2005 | ATL | TO-15 mod. | < 820 | 8,700 | < 780 | < 540 | < 690 | < 630 | < 730 | < 730 | < 730 | < 720 | < 820 | < 820 | < 820 | < 1,000 |
| SVP-3 | 9/13/2005 | ATL | TO-15 mod. | < 760 | 11,000 | < 720 | 560 | < 630 | < 580 | < 670 | < 670 | < 670 | < 660 | < 760 | < 760 | < 760 | < 930 |
| SVP-3 | 11/14/2005 | ATL | TO-15 mod. | < 410 | 7,300 | < 390 | 360 | < 340 | < 320 | < 360 | < 360 | < 360 | < 360 | < 410 | < 410 | < 410 | < 500 |
| SVP-3 dup | 11/14/2005 | ATL | TO-15 mod. | < 320 | 7,500 | < 300 | 500 | < 270 | 250 | < 280 | < 280 | < 280 | < 280 | < 320 | < 320 | < 320 | < 390 |
| SVP-4 | 4/20/2005 | ATL | TO-15 mod. | < 40 | < 28 | < 28 | < 26 | < 34 | 35 | < 36 | < 36 | < 36 | < 35 | < 40 | < 40 | < 40 | < 40 |
| SVP-4 | 9/13/2005 | ATL | TO-15 mod. | < 3.9 | < 2.8 | < 3.8 | < 2.6 | < 3.3 | < 3.0 | < 3.5 | < 3.5 | < 3.5 | < 3.4 | < 4.0 | < 4.0 | < 4.0 | < 4.8 |
| SVP-4 | 11/14/2005 | ATL | TO-15 mod. | < 38 | 40 | < 37 | < 25 | < 32 | 31 | < 34 | 94 | 37 | < 34 | 56 | < 40 | 59.0 | < 48 |
| SVP-5 | 4/14/2005 | ATL | TO-15 mod. | < 150 | < 110 | < 150 | < 100 | < 130 | < 120 | < 140 | < 140 | < 140 | < 130 | < 160 | < 160 | < 160 | < 190 |
| SVP-5 | 6/15/2005 | ATL | TO-15 mod. | < 140 | < 100 | < 140 | < 93 | < 120 | < 110 | < 130 | < 130 | < 130 | < 120 | < 140 | < 140 | < 140 | < 180 |
| SVP-5 | 9/13/2005 | ATL | TO-15 mod. | < 130 | < 91 | < 120 | < 84 | < 110 | < 99 | < 110 | < 110 | < 110 | < 110 | < 130 | < 130 | < 130 | < 160 |
| SVP-5 | 11/14/2005 | ATL | TO-15 mod. | < 79 | < 55 | < 75 | < 51 | < 66 | < 61 | < 70 | < 70 | < 70 | < 68 | < 79 | < 79 | < 79 | < 97 |
| SVP-6 | 4/13/2005 | ATL | TO-15 mod. | 15 | < 2.6 | < 3.5 | < 2.4 | < 3.0 | < 2.8 | < 3.2 | < 3.2 | < 3.2 | < 3.2 | < 3.7 | < 3.7 | < 3.7 | < 4.5 |
| SVP-6 | 6/14/2005 | ATL | TO-15 mod. | 14 | < 2.9 | < 3.9 | < 2.7 | < 3.4 | < 3.2 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 4.1 | < 4.1 | < 4.1 | 11 |
| SVP-6 | 9/13/2005 | ATL | TO-15 mod. | 5.3 | < 2.8 | < 3.8 | < 2.6 | < 3.4 | 3.8 | < 3.6 | 3.9 | < 3.6 | < 3.5 | < 4.0 | < 4.0 | < 4.0 | < 4.9 |
| SVP-6 | 11/14/2005 | ATL | TO-15 mod. | 3.7 | 5.6 | < 3.2 | < 2.2 | < 2.8 | 8.8 | 3.7 | 9.0 | 3.3 | 3.1 | 12.0 | < 5.4 | < 25 | < 4.1 |
| *Locations within utility trenches* | | | | | | | | | | | | | | | | | |
| SVP-7 | 4/14/2005 | ATL | TO-15 mod. | < 3.8 | < 2.7 | < 3.7 | < 2.5 | 7.3 | 3.8 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.9 | < 3.9 | < 3.9 | < 4.8 |
| SVP-7 | 9/13/2005 | ATL | TO-15 mod. | < 4.1 | < 2.9 | < 3.9 | < 2.7 | < 3.4 | < 3.2 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 4.1 | < 4.1 | < 4.1 | < 5.0 |
| SVP-7 | 11/14/2005 | ATL | TO-15 mod. | < 4.4 | < 3.1 | < 4.2 | < 2.8 | < 3.7 | < 3.4 | < 3.9 | < 3.9 | < 3.9 | < 3.8 | < 4.4 | < 4.4 | < 4.4 | < 5.4 |
| SVP-8 | 4/14/2005 | ATL | TO-15 mod. | 14 | < 2.8 | < 3.8 | < 2.6 | < 3.3 | 3.3 | < 3.5 | < 3.5 | < 3.5 | < 3.4 | < 4.0 | < 4.0 | < 4.0 | < 4.8 |
| SVP-8 | 9/13/2005 | ATL | TO-15 mod. | < 4.2 | < 2.9 | < 4.0 | < 2.7 | < 3.5 | 4.2 | < 3.7 | 4.8 | < 3.7 | < 3.6 | < 4.2 | < 4.2 | < 4.2 | < 5.1 |
| SVP-8 | 11/14/2005 | ATL | TO-15 mod. | < 4.3 | < 3.0 | < 4.1 | < 2.8 | < 3.6 | < 3.3 | < 3.8 | < 3.8 | < 3.8 | < 3.7 | < 4.3 | < 4.3 | < 4.3 | < 5.3 |
| SVP-9 | 4/13/2005 | ATL | TO-15 mod. | < 3.8 | 6.9 | U 9.3 | 22 | < 3.2 | 18 | 3.4 | 17 | 4.5 | 4.0 | < 3.8 | < 3.8 | < 3.8 | < 4.6 |
| SVP-9 | 9/13/2005 | ATL | TO-15 mod. | < 4.3 | < 3.0 | < 4.1 | < 2.8 | < 3.6 | 5.3 | < 3.8 | 6.7 | < 3.8 | < 3.7 | < 4.3 | < 4.3 | 4.9 | 9.0 |
| SVP-9 | 11/14/2005 | ATL | TO-15 mod. | < 4.4 | < 3.1 | < 4.2 | < 2.8 | < 3.7 | < 3.4 | < 3.9 | < 3.9 | < 3.9 | < 3.8 | < 4.4 | < 4.4 | < 4.4 | < 5.4 |
| SVP-10 | 4/14/2005 | ATL | TO-15 mod. | 12 | < 2.8 | < 3.8 | < 2.6 | < 3.3 | 4.0 | < 3.5 | 6.3 | < 3.5 | < 3.4 | 4.8 | < 3.4 | 5.6 | < 4.8 |
| SVP-10 | 5/23/2005 | ATL | TO-15 mod. | < 33 | < 23 | < 31 | < 21 | < 27 | < 25 | < 29 | 30 | < 29 | < 28 | < 33 | < 33 | < 33 | 67 |
| SVP-10 | 9/13/2005 | ATL | TO-15 mod. | < 4.4 | < 3.1 | < 4.2 | < 2.8 | < 3.7 | 4.4 | < 3.9 | 6.5 | < 3.9 | < 3.8 | 4.4 | < 3.8 | 6.7 | 12 |
| SVP-10 | 11/14/2005 | ATL | TO-15 mod. | < 4.4 | < 3.1 | < 4.2 | < 2.8 | < 3.7 | < 3.4 | < 3.9 | < 3.9 | < 3.9 | < 3.8 | < 4.4 | < 4.4 | < 4.4 | < 5.4 |

***Table 4***
***Volatile Organic Compounds Detected in Soil Vapor Samples***
***Hookston Station Project***
***Pleasant Hill, California***

| Sample Location | Date | Analytical Laboratory | Analytical Method | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl chloride | Ethanol | Freon 11 | Acetone | 2-Propanol*** | Carbon Disulfide | Hexane | 2-Butanone | Tetrahydrofuran |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| California CHHSL (residential): | | | | 180 | 528 | 15,900 | 31,900 | - | 13.3 | - | - | - | - | - | - | - | - |
| RWQCB ESL (residential): | | | | 410 | 1,200 | 7,300 | 15,000 | 42,000 | 32 | 19,000,000 | - | 660,000 | - | - | - | 210,000 | - |
| ***Ambient Air Samples*** | | | | | | | | | | | | | | | | | |
| Bancroft Rd and Stimel Dr (near SVP-10) | 4/14/2005 | ATL | TO-15 mod. | < 5.5 | < 4.3 | < 3.2 | < 3.2 | < 3.2 | < 2.0 | < 6.1 | < 5 | 36 U | 9.2 | < 2.5 | < 2.8 | < 2.4 | < 2.4 |
| Hookston Road and Hampton Drive (near SVP-4) | 6/14/2005 | ATL | TO-15 mod. | < 5.6 | < 4.4 | < 3.2 | < 3.2 | < 3.2 | < 2.1 | 12 | < 4.6 | 21 U | < 8.1 | 5.6 | < 2.9 | 2.7 U | < 2.4 |
| Stimel Drive (near SVP-9) | 9/13/2005 | ATL | TO-15 mod. | < 5.6 | < 4.4 | < 3.2 | < 3.2 | < 3.2 | < 2.1 | < 6.2 | < 4.6 | 13 | < 8.1 | < 2.6 | < 2.9 | < 2.4 | < 2.4 |
| Stimel Drive (near SVP-9) | 11/14/2005 | ATL | TO-15 mod. | < 5.7 | < 4.5 | < 3.3 | < 3.3 | < 3.3 | < 2.1 | < 6.3 | < 4.7 | 9.8 | < 8.2 | < 2.6 | < 3.0 | < 2.5 | < 2.5 |

Results reported in microgram per cubic meter ($\mu g/m^3$)
California CHHSL: California Human Health Screening Levels, from California EPA *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* , January 2005.
RWQCB ESL = Environmental Screening Level, from California Regional Water Quality Control Board - San Francisco Bay Region, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1* , Interim Final February 2005.
* CHHSL for p-Xylene
** ESL for total xylenes
***2-Propanol is used as a leak detection compound
Highlighting indicates concentrations greater than the California CHHSLs.
U - Result is qualified as non-detect because the detected compound is a common laboratory contaminant.
E - Result exceeds instrument calibration range
ATL - Air Toxics Ltd, Folsom, California

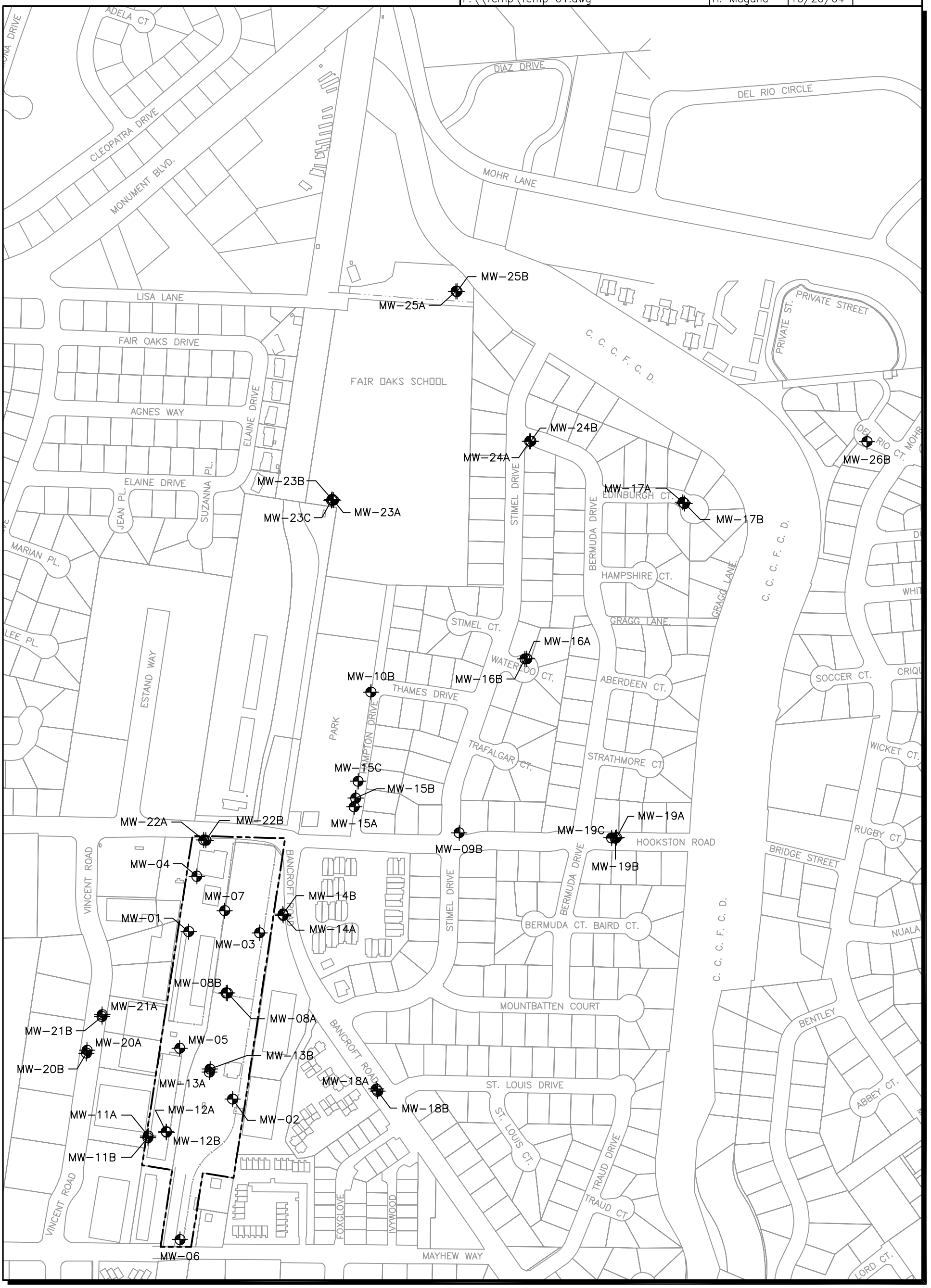
***Table 4***
***Volatile Organic Compounds Detected in Soil Vapor Samples***
***Hookston Station Project***
***Pleasant Hill, California***

| Sample Location | Date | Analytical Laboratory | Analytical Method | Chloroform | Cyclohexane | 2,2,4-TMP | Benzene | 4-methyl-2-pentanone | Toluene | Ethyl benzene | m,p-Xylene | o-Xylene | Styrene | 4-Ethyltoluene | 1,3,5-TMB | 1,2,4-TMB | 1,3-DCB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | California CHHSL (residential): | | - | - | - | 36.2 | - | 135,000 | - | 317,000* | 315,000 | - | - | | - | - |
| | | RWQCB ESL (residential): | | 450 | - | - | 85 | - | 63,000 | 420,000 | 150,000** | 150,000** | - | - | | - | 22,000 |
| ***Ambient Air Samples*** | | | | | | | | | | | | | | | | | |
| Bancroft Rd and Stimel Dr (near SVP-10) | 4/14/2005 | ATL | TO-15 mod. | < 3.9 | < 2.8 | < 3.8 | < 2.6 | < 3.3 | < 3.0 | < 3.5 | < 3.5 | < 3.5 | < 3.4 | < 4.0 | < 4.0 | < 4.0 | < 4.8 |
| Hookston Road and Hampton Drive (near SVP-4) | 6/14/2005 | ATL | TO-15 mod. | < 4.0 | < 2.8 | < 3.8 | < 2.6 | < 3.4 | 3.3 | < 3.6 | < 3.6 | < 3.6 | < 3.5 | < 4.0 | < 4.0 | < 4.0 | < 4.9 |
| Stimel Drive (near SVP-9) | 9/13/2005 | ATL | TO-15 mod. | < 4.0 | < 2.8 | < 3.8 | < 2.6 | < 3.4 | < 3.1 | < 3.6 | < 3.6 | < 3.6 | < 3.5 | < 4.0 | < 4.0 | < 4.0 | < 4.9 |
| Stimel Drive (near SVP-9) | 11/14/2005 | ATL | TO-15 mod. | < 4.1 | < 2.9 | < 3.9 | < 2.7 | < 3.4 | < 3.2 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 4.1 | < 4.1 | < 4.1 | < 5.0 |

Results reported in microgram per cubic meter ($\mu g/m^3$)
California CHHSL: California Human Health Screening Levels, from Cal
RWQCB ESL = Environmental Screening Level, from California Regional
* CHHSL for p-Xylene
** ESL for total xylenes
***2-Propanol is used as a leak detection compound
Highlighting indicates concentrations greater than the California CHHSL
U - Result is qualified as non-detect because the detected compound is a c
E - Result exceeds instrument calibration range
ATL - Air Toxics Ltd, Folsom, California

*Figures*

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| F:\\Temp\Temp 01.dwg | H. Magaña | 10/20/04 | |




LEGEND

- Monitoring Well Location
- Site Boundary

N

0 150' 300' 600'

SCALE IN FEET

Figure 1

*Monitoring Well Location Map*
*Hookston Station Project*
*Pleasant Hill, California*

ERM *10/04*

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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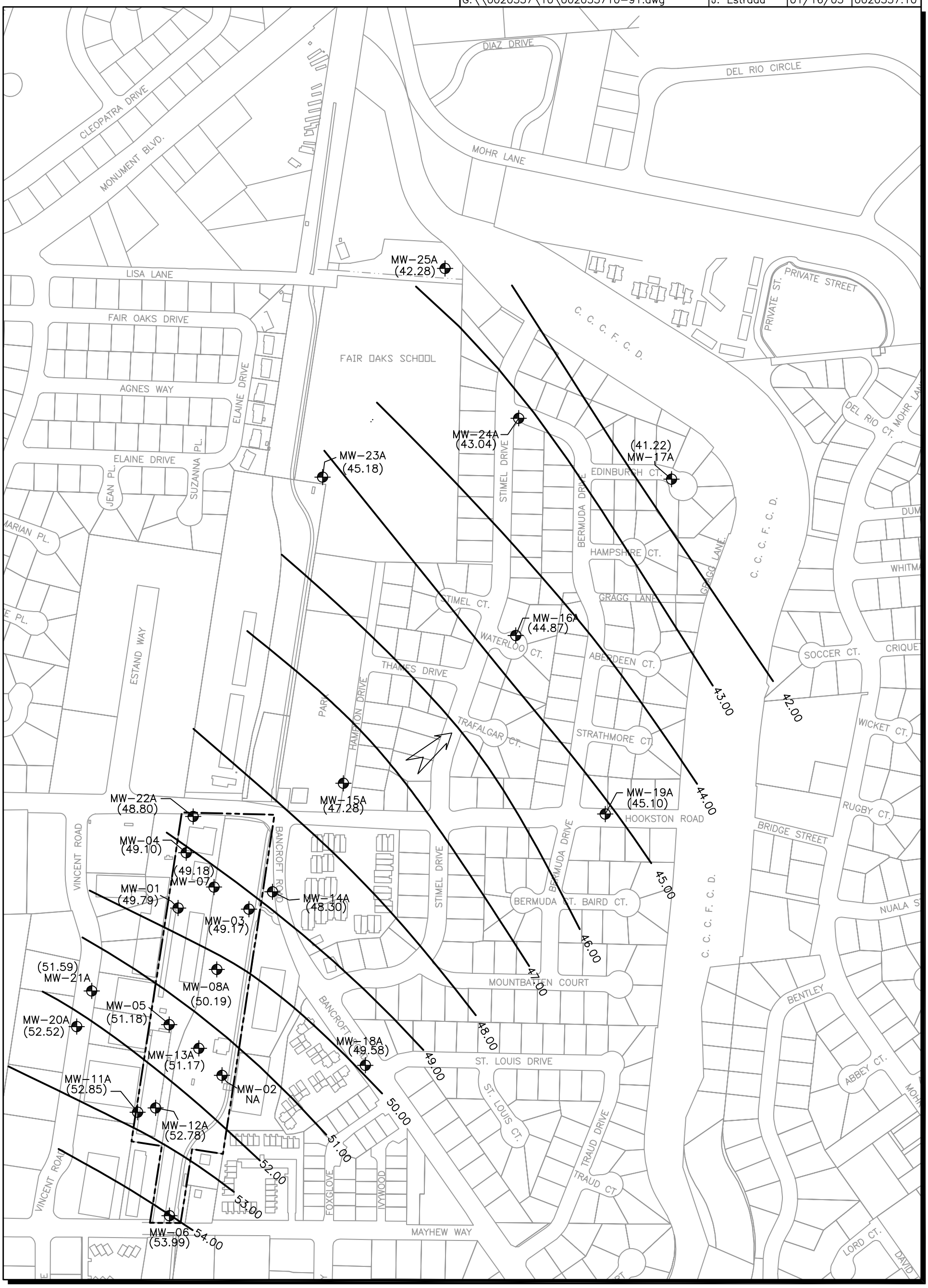


LEGEND

- A–Zone Monitoring Well
- Site Boundary
- 48.00 Ground Water Elevation Contour, 1 Foot Interval
- NM Not Measured
- FLOW Ground Water Flow Direction

N

0 300

FEET

Figure 2

*Ground Water Elevation Map, A-Zone*

*15 November 2005*

*Hookston Station Project*

*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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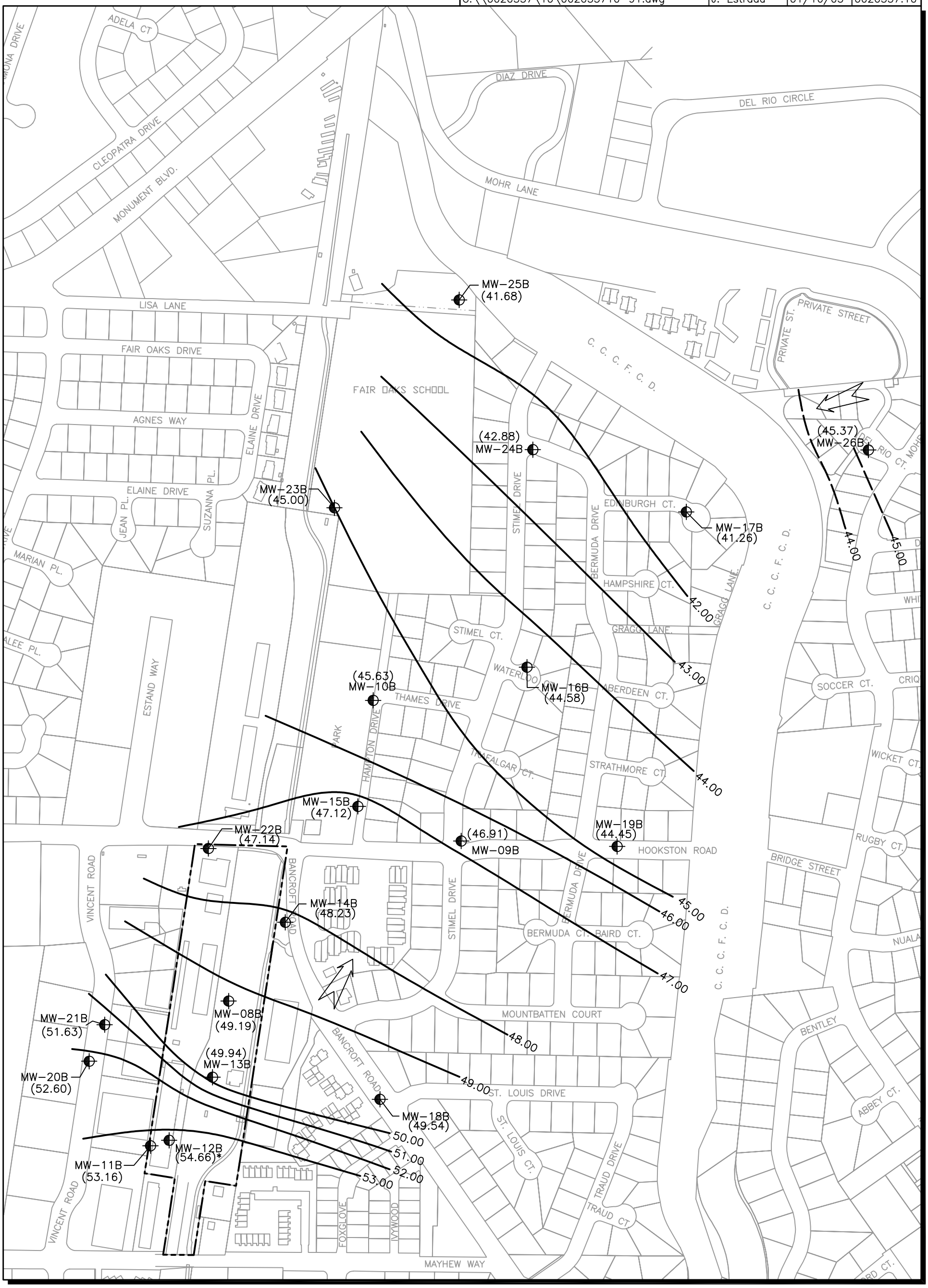



LEGEND

- B-Zone Monitoring Well
- Site Boundary
- 48.00 Ground Water Elevation Contour, 1 Foot Interval
- FLOW Ground Water Flow Direction
- * Datum not used in Contouring

N

0 300

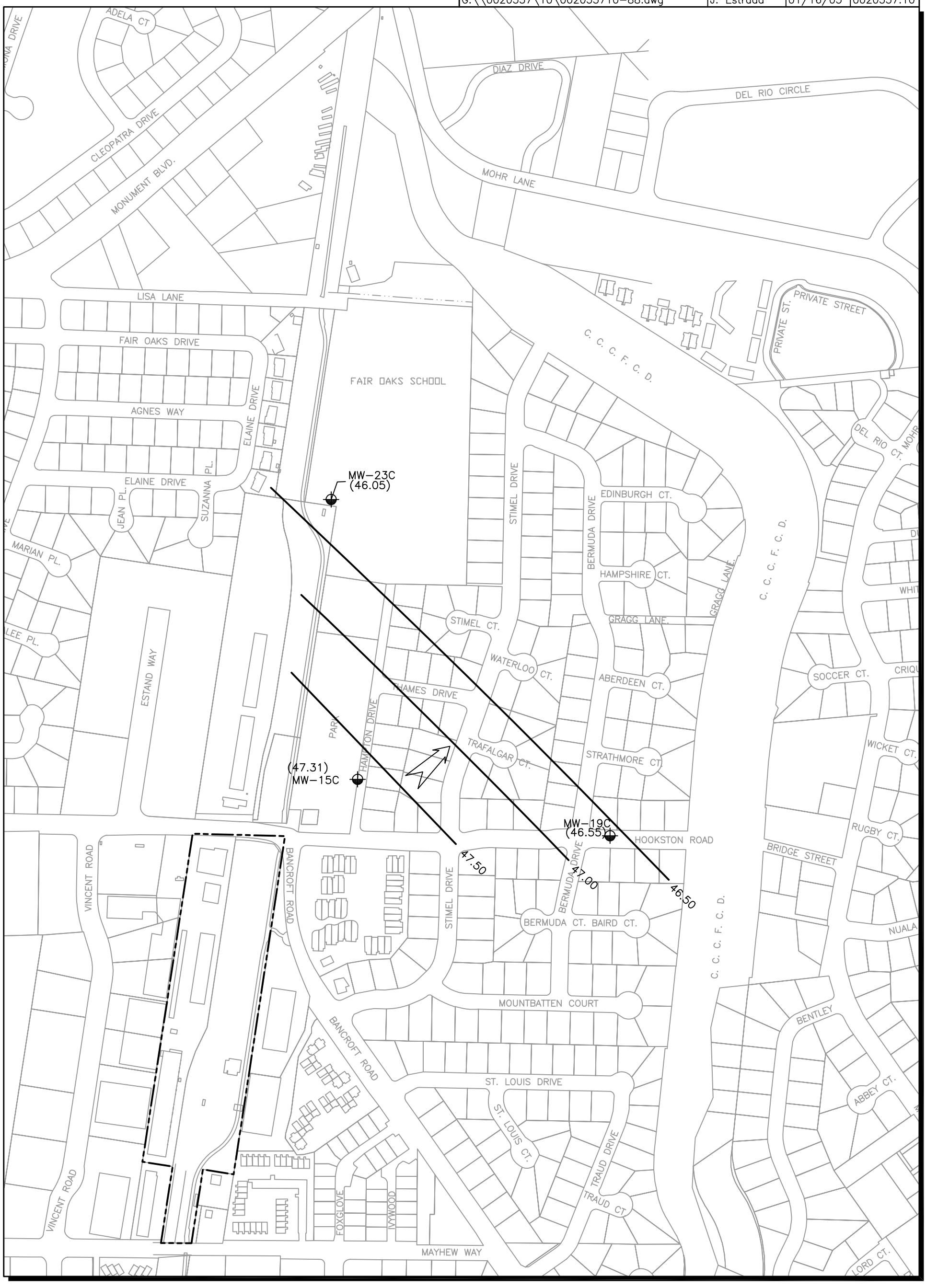
FEET

Figure 3

*Ground Water Elevation Map, B-Zone*
*15 November 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| G:\\0020557\10\002055710-88.dwg | J. Estrada | 01/16/05 | 0020557.10 |




LEGEND

- C-Zone Monitoring Well
- Site Boundary
- 48.00 Ground Water Elevation Contour, 0.5 Foot Interval
- FLOW Ground Water Flow Direction

N

0 300

FEET

Figure 4

*Ground Water Elevation Map, C-Zone*

*15 November 2005*

*Hookston Station Project*

*Pleasant Hill, California*

ERM *01/06*

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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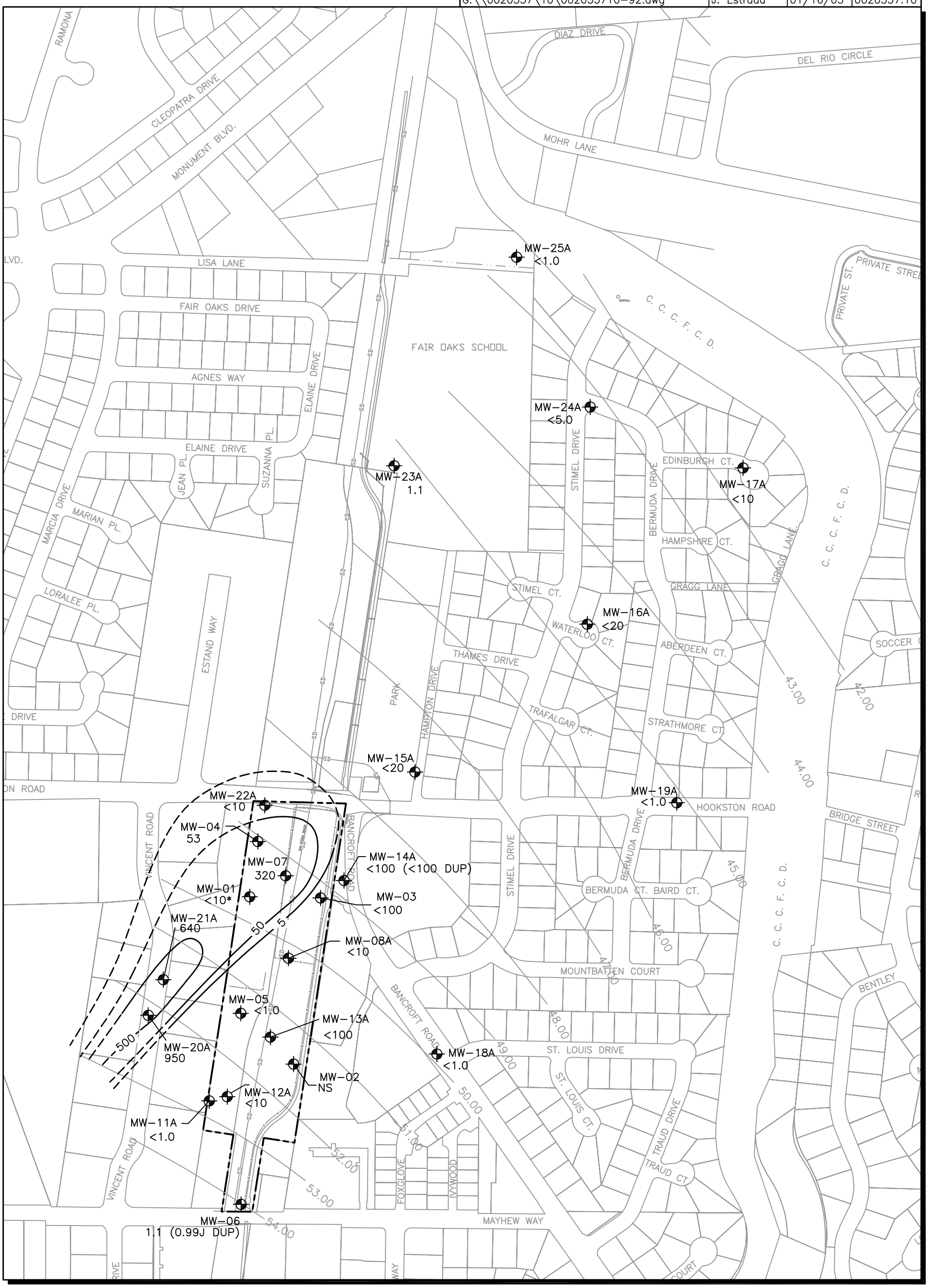


LEGEND

- Monitoring Well Location
- 470 PCE Concentration (µg/L)
- 50 PCE in Ground Water Contour, Solid Based On Fourth Quarter 2005 Monitoring Well Data, Dashed Where Inferred from Off-Site Investigation Data or Historical Grab Groundwater Sampling.
- Site Boundary
- 53.00 Ground Water Elevation Contour, A-Zone, 15 November 2005 (feet above mean sea level)
- J Estimated Values
- NS Not Sampled
- * Not Used in Contouring Based on Historical Data

The Maximum Contaminant Level for PCE in Drinking Water is 5 µg/L.
Note: MW-07 Data Not Used for Contouring Purposes.

N

0 150' 300' 600'

SCALE IN FEET

Figure 5

*PCE Isoconcentration Map*
*A Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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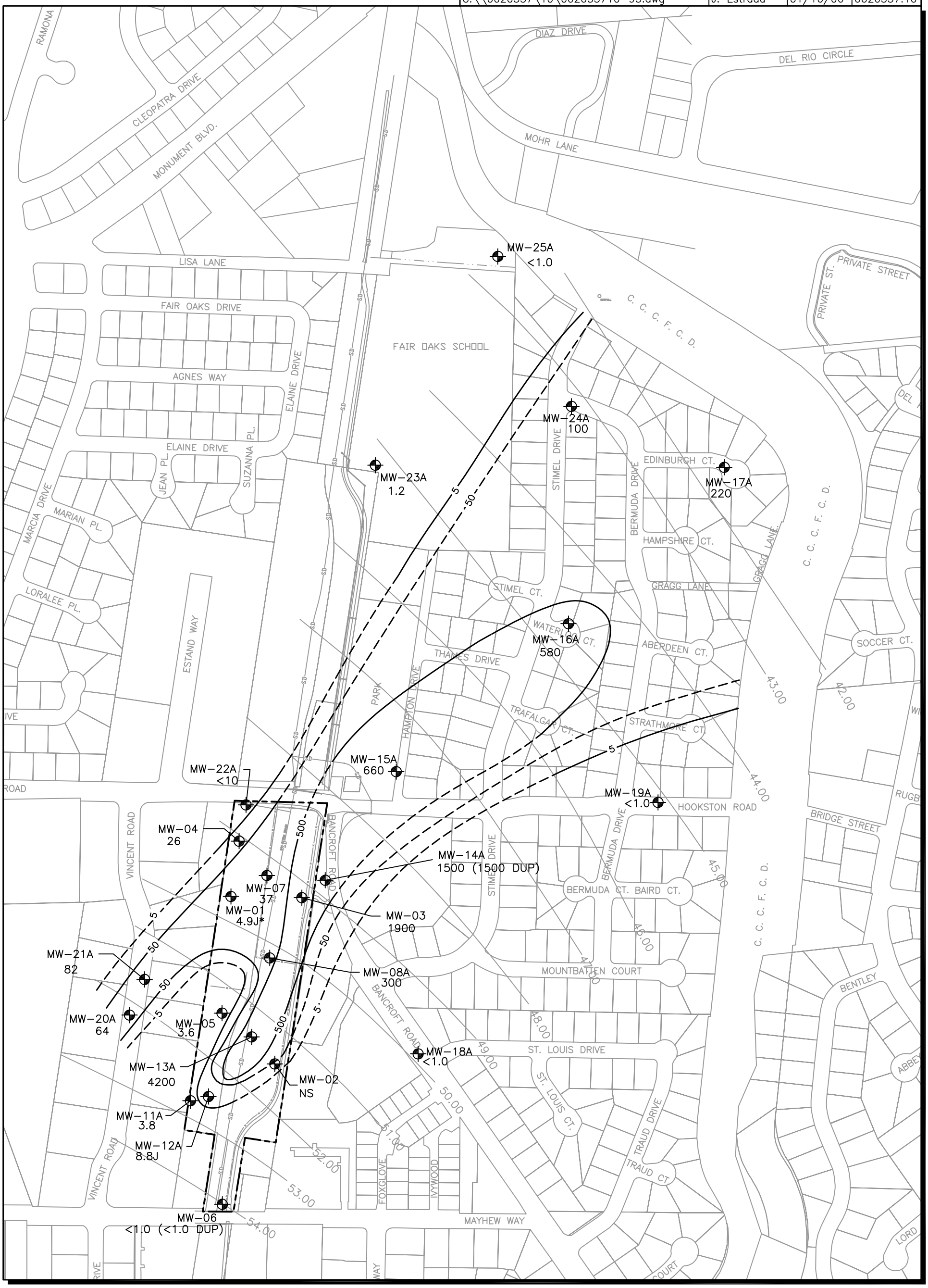



LEGEND

- Monitoring Well Location
- 3.2 — TCE Concentration (µg/L)
- 50 ——— TCE in Ground Water Contour, Solid Based on Fourth Quarter 2005 Monitoring Well Data, Dashed Where Inferred from Off-Site Investigation Data or Historical Grab Ground Water Sampling.
- ——— Site Boundary
- 53.00 ——— Ground Water Elevation Contour, A-Zone, 15 November 2005 (feet above mean sea level)
- J Estimated Values
- NS Not Sampled
- * Not Used for Contouring Based on Historical Data

The Maximum Contaminant Level For TCE in Drinking Water is 5 µg/L.
Note: MW-07 Data Not Used for Contouring Purposes.

N

0 150' 300' 600'

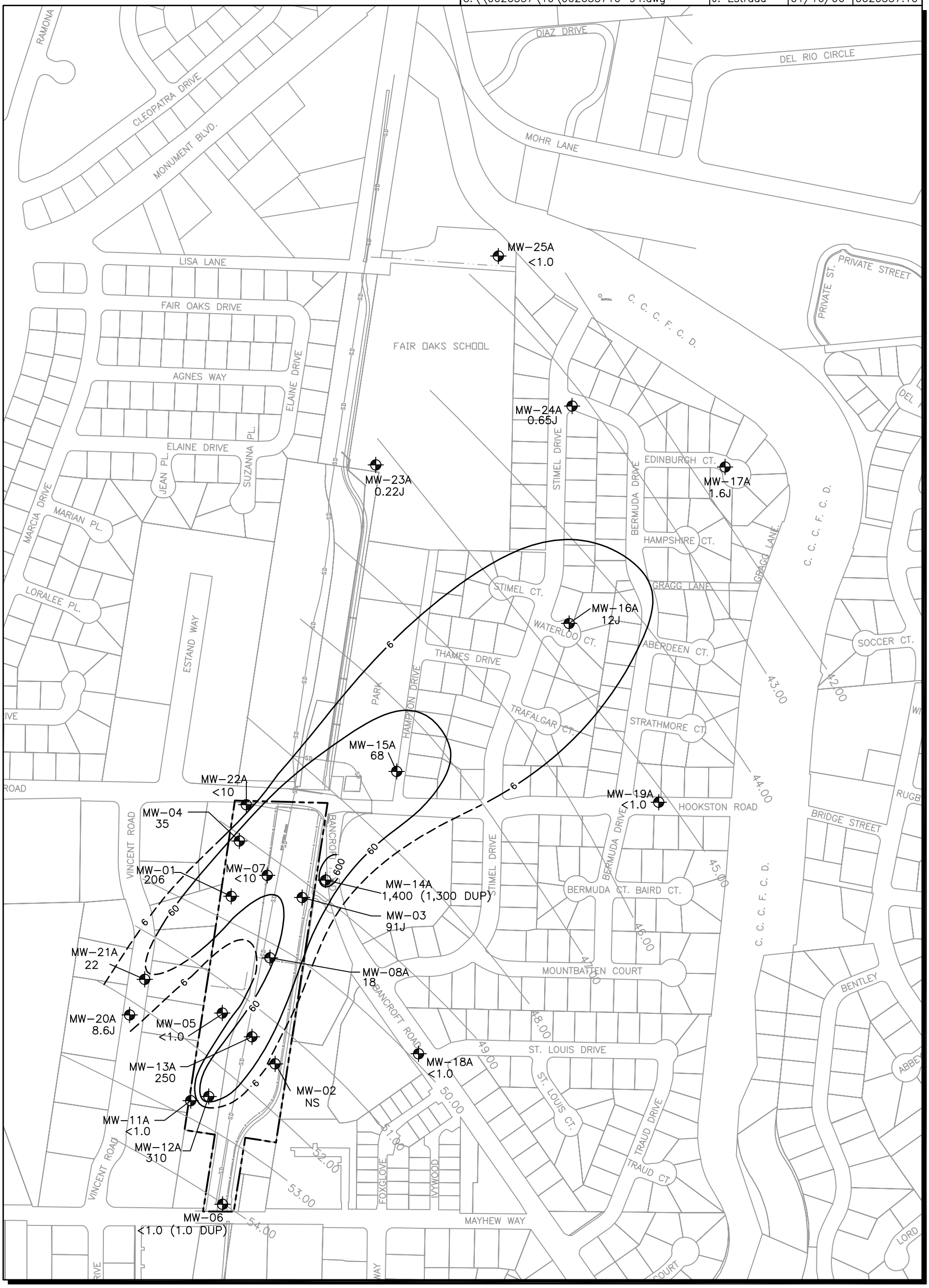
SCALE IN FEET

# Figure 6

*TCE Isoconcentration Map*
*A Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| G:\\0020557\10\002055710-94.dwg | J. Estrada | 01/16/06 | 0020557.10 |




LEGEND

- Monitoring Well Location
- 3.2 — cis-1,2-DCE Concentration (µg/L)
- 60 — cis-1,2-DCE in Ground Water Contour, Solid Based on Fourth Quarter 2005 Monitoring Well Data, Dashed Where Inferred from Off-Site Investigation Data or Historical Grab Ground Water Sample Data.
- Site Boundary
- 53.00 — Ground Water Elevation Contour, A-Zone, 15 November 2005 (feet above mean sea level)
- J — Estimated Values
- NS — Not Sampled

The Maximum Contaminant Level for cis-1,2-DCE in Drinking Water is 6 µg/L.
Note: MW-07 Data Not Used for Contouring Purposes

N

0 150' 300' 600'

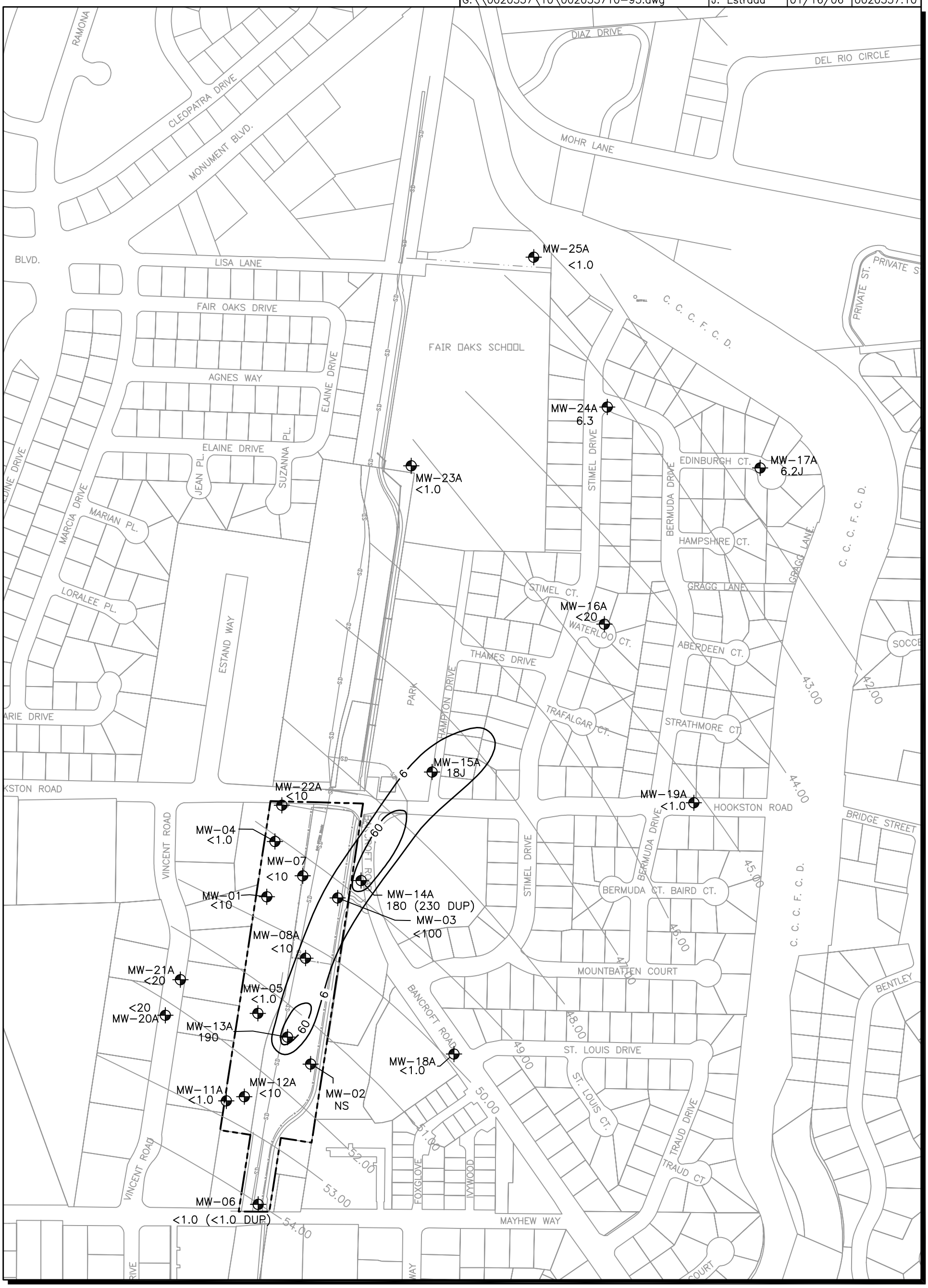
SCALE IN FEET

# Figure 7

*cis-1,2-DCE Isoconcentration Map*
*A Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| G:\\0020557\10\002055710-95.dwg | J. Estrada | 01/16/06 | 0020557.10 |




LEGEND

- Monitoring Well Location
- 910 — 1,1-DCE Concentration (µg/L)
- 60 — 1,1-DCE in Ground Water Contour, Solid Based on Fourth Quarter 2005 Monitoring Well Data, Dashed Where Inferred from Off-Site Investigation Data or Historical Grab Ground Water Data.
- Site Boundary
- 53.00 — Ground Water Elevation Contour, A-Zone, 15 November 2005 (feet above mean sea level)
- J — Estimated Values
- NS — Not Sampled

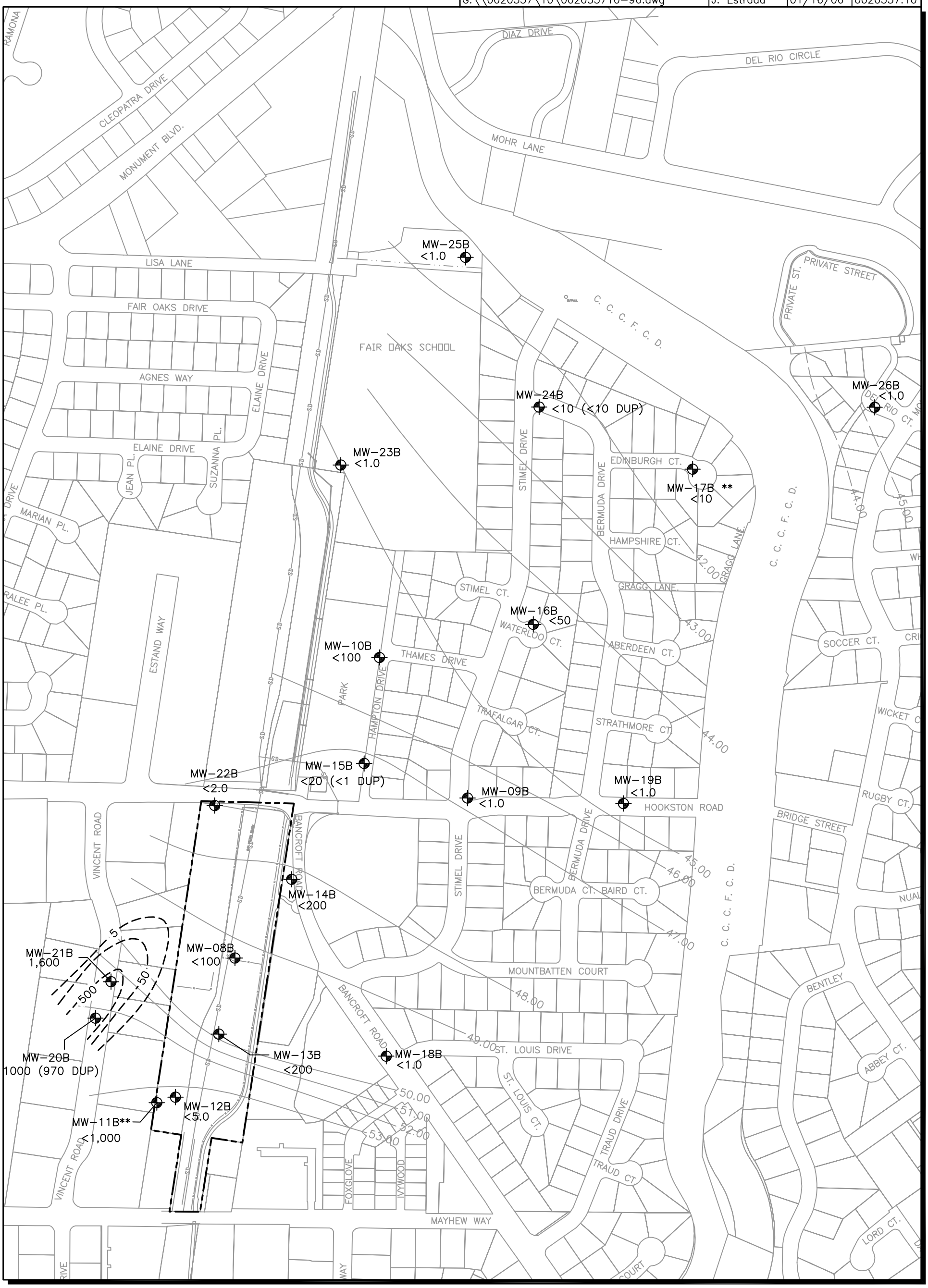
The Maximum Contaminant Level for 1,1-DCE in Drinking Water is 6 µg/L.
Note: MW-07 Data Not Used for Contouring Purposes.

# Figure 8

*1,1-DCE Isoconcentration Map*
*A Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| G:\\0020557\10\002055710-96.dwg | J. Estrada | 01/16/06 | 0020557.10 |




LEGEND

- Monitoring Well Location
- 650 PCE Concentration (µg/L)
- 50 PCE in Ground Water Contour, Solid Based on 2005 Monitoring Well Data, Dashed Where Inferred from Off-Site Investigation Data or Historical Grab Groundwater Sampling.
- Site Boundary
- 51.00 Ground Water Elevation Contour, B-Zone, 15 November 2005 (feet above mean sea level)
- ** Multiple Samples Were Collected at Various Depths Within the Well Screen. The Highest Result is Posted
- The Maximum Contaminant Level for PCE in Drinking Water is 5 µg/L

N

0 150' 300' 600'

SCALE IN FEET

Figure 9

*PCE Isoconcentration Map*
*B Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| G:\\0020557\10\002055710-97.dwg | J. Estrada | 01/16/06 | 0020557.10 |

MW-25B
<1.0

MW-24B
490 (460 DUP)

MW-26B
<1.0

MW-23B
35

MW-17B **
360

MW-16B
1,300

MW-10B
1,400

MW-15B
1,600 (1,700 DUP)

MW-22B
9.8

MW-09B
<1.0

MW-19B
<1.0

MW-14B
3,700

MW-21B
180

MW-08B
1,300

MW-20B
480 (480 DUP)

MW-13B
5,600

MW-18B
<1.0

MW-11B**
19,000

MW-12B
8.2

DIAZ DRIVE
DEL RIO CIRCLE
MOHR LANE
CLEOPATRA DRIVE
MONUMENT BLVD.
LISA LANE
FAIR OAKS DRIVE
AGNES WAY
ELAINE DRIVE
JEAN PL.
SUZANNA PL.
MARIAN PL.
RALEE PL.
ESTAND WAY
VINCENT ROAD
FAIR OAKS SCHOOL
C. C. C. F. C. D.
PRIVATE ST.
PRIVATE STREET
STIMEL DRIVE
BERMUDA DRIVE
EDINBURGH CT.
HAMPSHIRE CT.
GRAGG LANE
STIMEL CT.
WATERLOO CT.
ABERDEEN CT.
THAMES DRIVE
PARK
HAMPTON DRIVE
TRAFALGAR CT.
STRATHMORE CT.
HOOKSTON ROAD
BANCROFT ROAD
BERMUDA CT. BAIRD CT.
MOUNTBATTEN COURT
ST. LOUIS DRIVE
ST. LOUIS CT.
TRAUD DRIVE
TRAUD CT
FOXGLOVE
IVYWOOD
MAYHEW WAY
SOCCER CT.
WICKET CT.
RUGBY CT.
BRIDGE STREET
NUAVA
BENTLEY
ABBEY CT.
LORD CT.
5
50
500
5000
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
51.00
52.00
53.00

LEGEND

- Monitoring Well Location
- 59 — TCE Concentration (µg/L)
- 50 ——— TCE in Ground Water Contour, Solid Based on Fourth Quarter 2005 Monitoring Well Data, Dashed Where Inferred from Off-Site Investigation Data or Historical Grab Ground Water Sampling.
- ——— Site Boundary
- 51.00 ——— Ground Water Elevation Contour, B-Zone, 15 November 2005 (feet above mean sea level)
- ** Multiple Samples Were Collected at Various Depths Within the Well Screen. The Highest Result is Posted
- * Datum Not Used for Contouring, Based on Previous Monitoring Event
- The maximum contaminant level for TCE in drinking water is 5 µg/L

N

0 150' 300' 600'

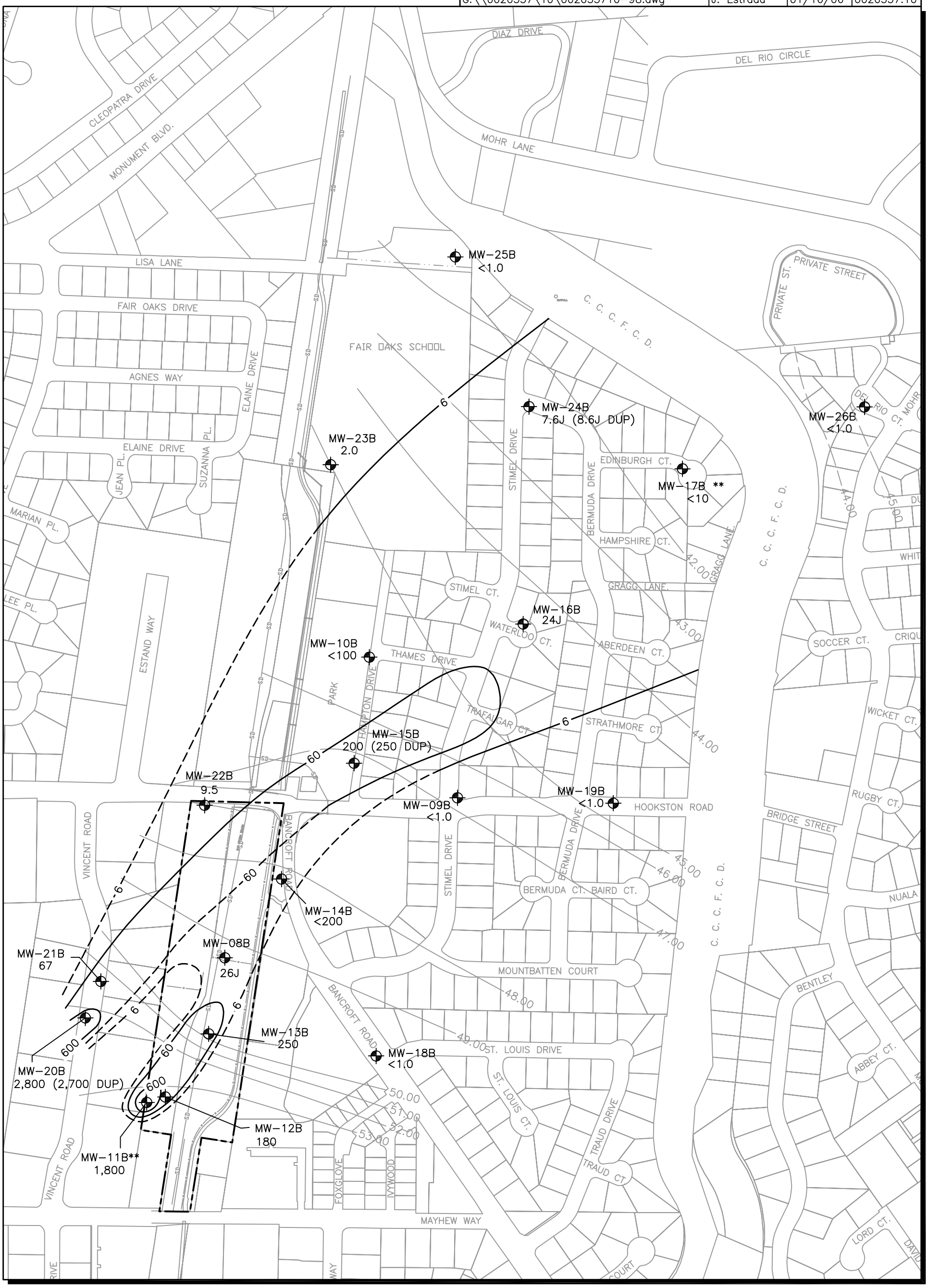
SCALE IN FEET

# Figure 10

*TCE Isoconcentration Map*
*B Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| G:\\0020557\10\002055710-98.dwg | J. Estrada | 01/16/06 | 0020557.10 |




LEGEND

- 21 — Monitoring Well Location; cis-1,2-DCE Concentration (µg/L)
- 60 — cis-1,2-DCE in Ground Water Contour, Solid Based on Fourth Quarter 2005 Monitoring Well Data, Dashed Where Inferred from Off-Site Investigations Data or Historical Grab Ground Water Sample Data.
- Site Boundary
- 51.00 — Ground Water Elevation Contour, B-Zone, 15 November 2005 (feet above mean sea level)
- J — Estimated Values
- ** — Multiple Samples Were Collected at Various Depths Within the Well Screen. The Highest Result is Posted

The Maximum Contaminant Level for cis-1,2-DCE in Drinking Water is 6 µg/L

N

0 150' 300' 600'

SCALE IN FEET

Figure 11

*cis-1,2-DCE Isoconcentration Map*
*B Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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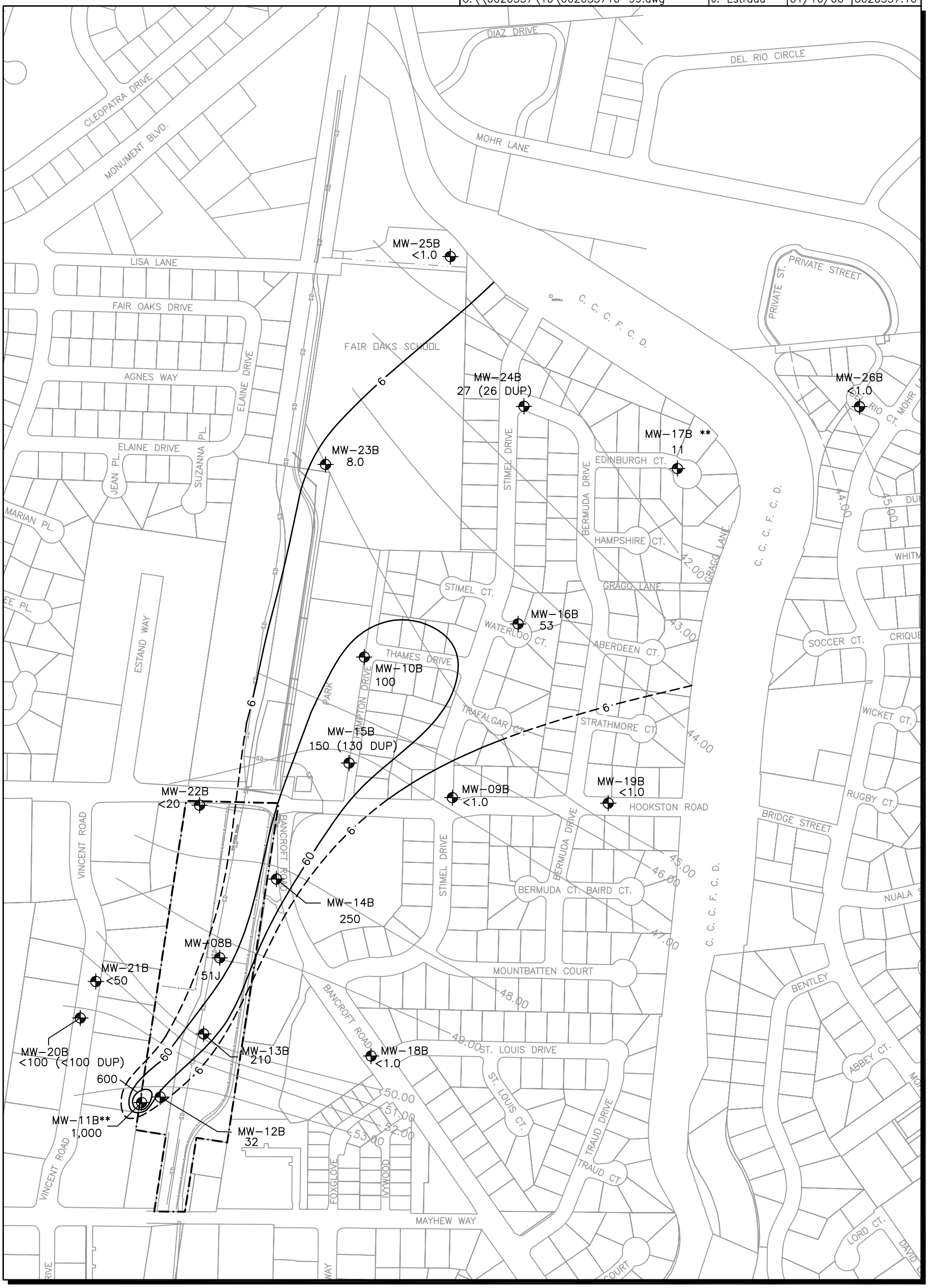


LEGEND

- Monitoring Well Location
- 23 — 1,1-DCE Concentration µg/L)
- 60 ——— 1,1-DCE in Ground Water Contour, Solid Based on Fourth Quarter 2005 Monitoring Well Data, Dashed Where Inferred from Historical Grab Ground Water Data or Off-Site Investigations.
- ——— — — ——— Site Boundary
- 51.00 ——— Ground Water Elevation Contour, B-Zone, 15 November 2005 (feet above mean sea level)
- J Estimated Values
- ** Multiple Samples Were Collected at Various Depths Within the Well Screen. The Highest Result is Posted

The Maximum Contaminant Level for 1,1-DCE in Drinking Water is 6 µg/L.

N

0 150' 300' 600'

SCALE IN FEET

# Figure 12

*1,1-DCE Isoconcentration Map*
*B Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| G:\\0020557\10\002055710-100.dwg | J. Estrada | 01/16/06 | 0020557.10 |


LEGEND

- Monitoring Well Location
- <1 — PCE concentration (µg/L), Fourth Quarter 2005
- 46.00 — Ground Water Elevation Contour, C-Zone, 15 November 2005 (feet above mean sea level)
- Site Boundary

The Maximum Contaminant Level F=for PCE in Drinking Water is 5 µg/L.

N

0 150' 300' 600'

SCALE IN FEET

# Figure 13

*PCE Results*
*C Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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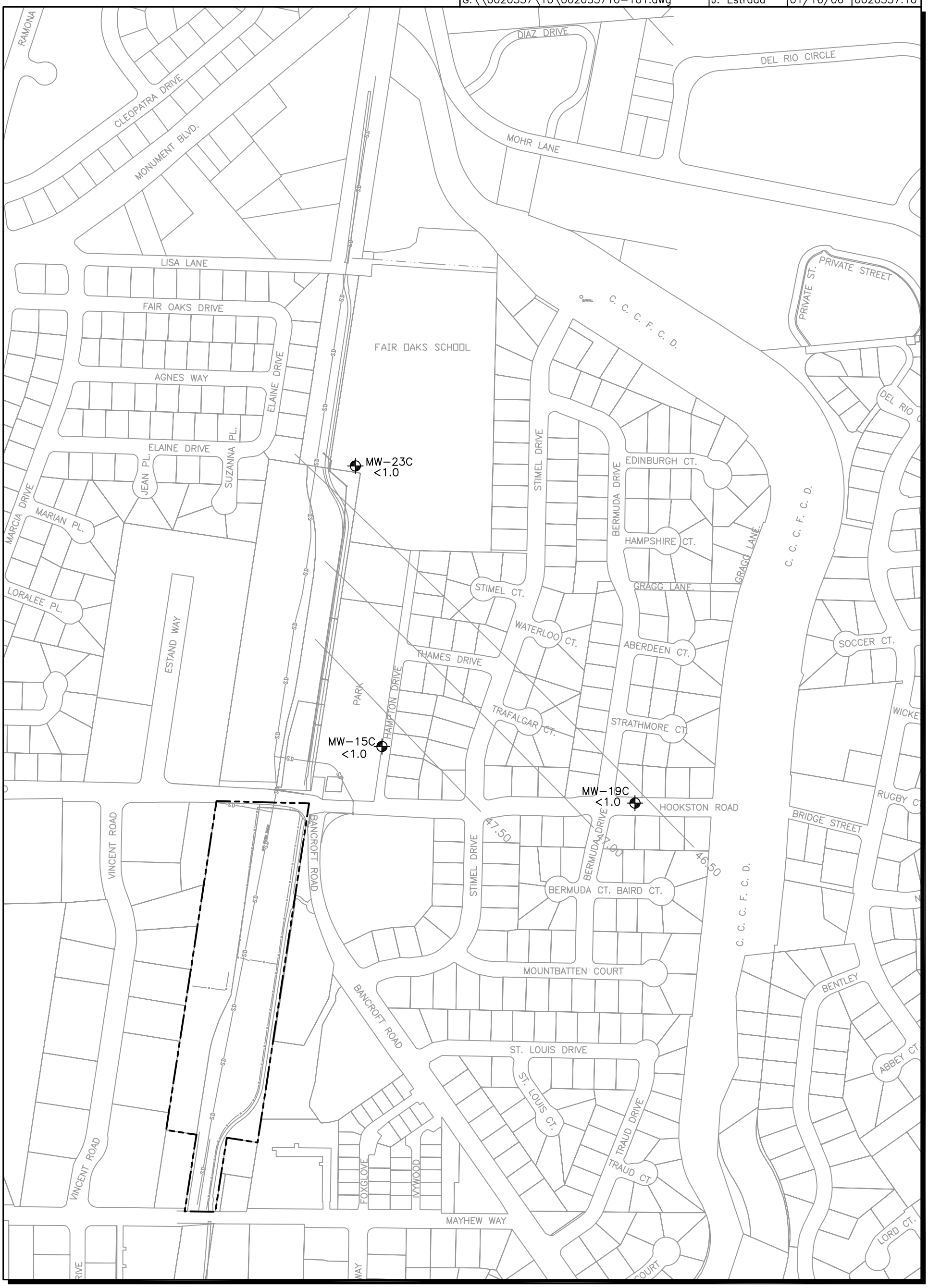


LEGEND

- Monitoring Well Location
- 6.2 — TCE concentration (µg/L), Fourth Quarter 2005
- 46.00 — Ground Water Elevation Contour, C-Zone, 15 November 2005 (feet above mean sea level)
- Site Boundary

The Maximum Contaminant Level for TCE in Drinking Water is 5 µg/L.

N

0 150' 300' 600'

SCALE IN FEET

Figure 14

*TCE Results*
*C Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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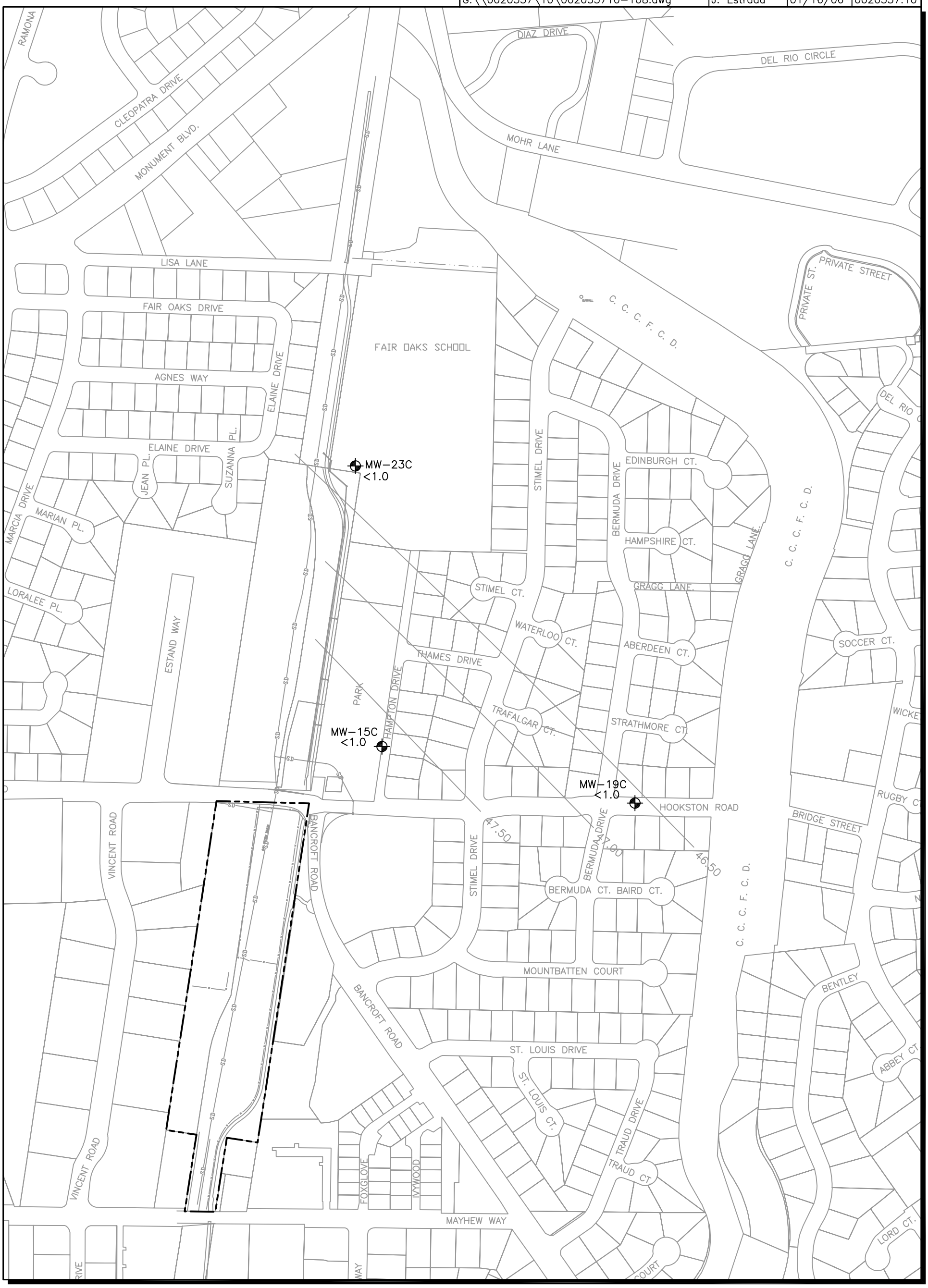


LEGEND

- Monitoring Well Location
- 0.32 — cis-1,1-DCE concentration (µg/L), Fourth Quarter 2005
- 46.00 — Ground Water Elevation Contour, C-Zone, 15 November 2005 (feet above mean sea level)
- Site Boundary

The Maximum Contaminant Level for cis-1,2-DCE in Drinking Water is 6 µg/L.

N

0 150' 300' 600'

SCALE IN FEET

Figure 15

*cis-1,2-DCE Results*
*C Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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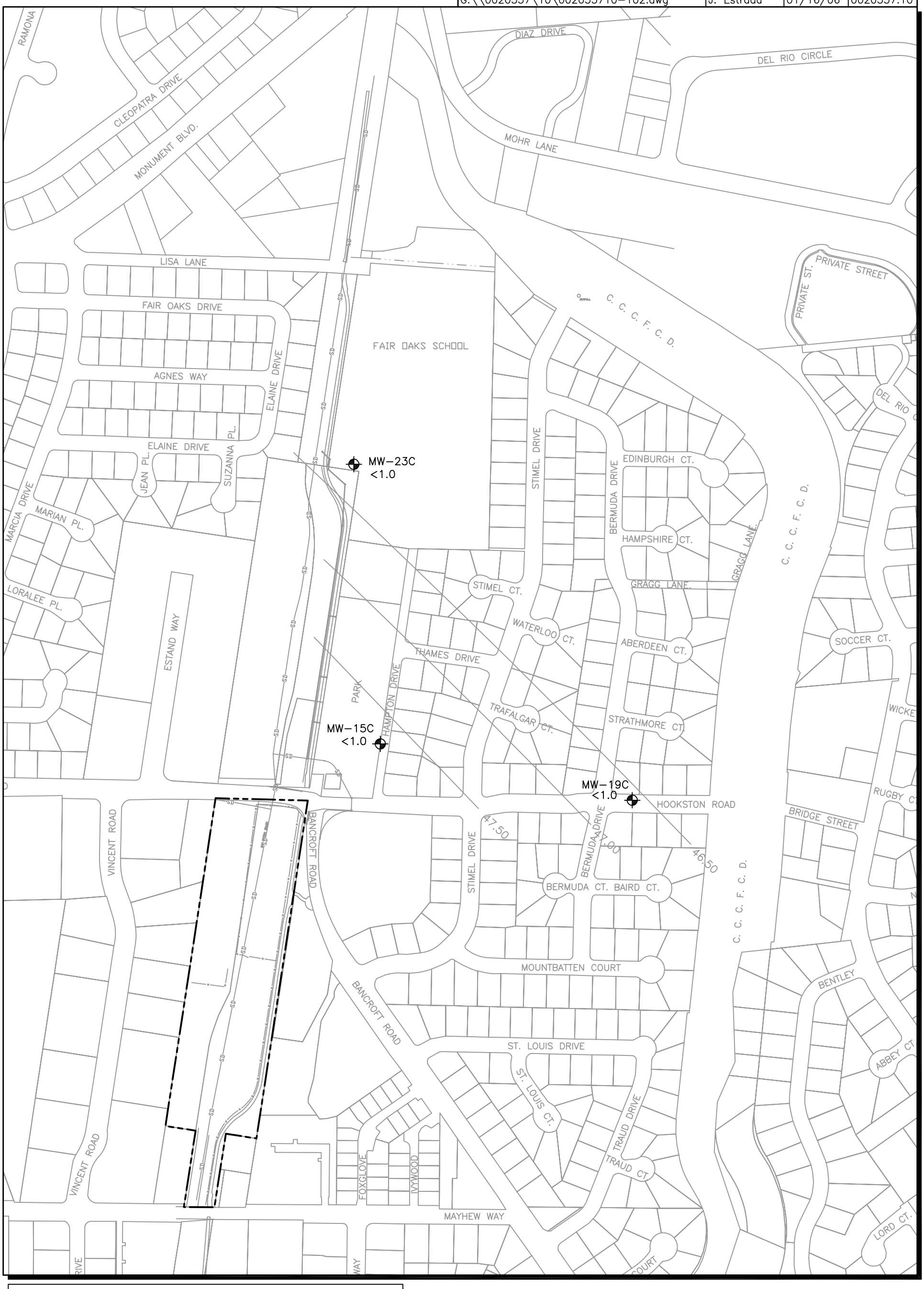


LEGEND

- Monitoring Well Location
- 0.37 — 1,1-DCE concentration (µg/L), Fourth Quarter 2005
- 46.00 — Ground Water Elevation Contour, C-Zone, 15 November 2005 (feet above mean sea level)
- Site Boundary

The Maximum Contaminant Level for 1,1-DCE in Drinking Water is 6 µg/L.

N

0 150' 300' 600'

SCALE IN FEET

# Figure 16

*1,1-DCE Results*
*C Zone Ground Water*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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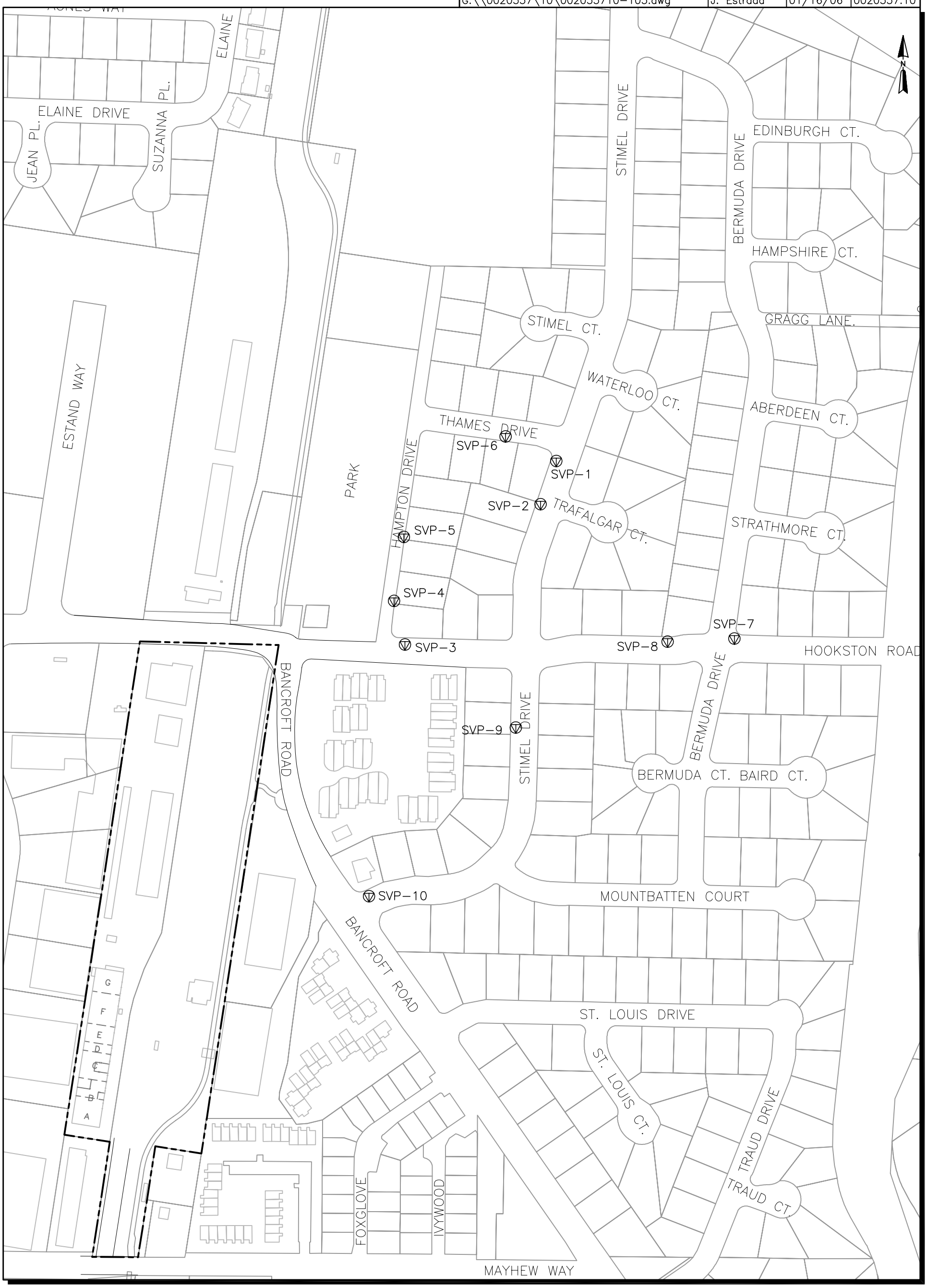


LEGEND

Soil Vapor Monitoring Probe Location

Site Boundary

0 200

FEET

Figure 17

*Soil Vapor Monitoring Probe Locations*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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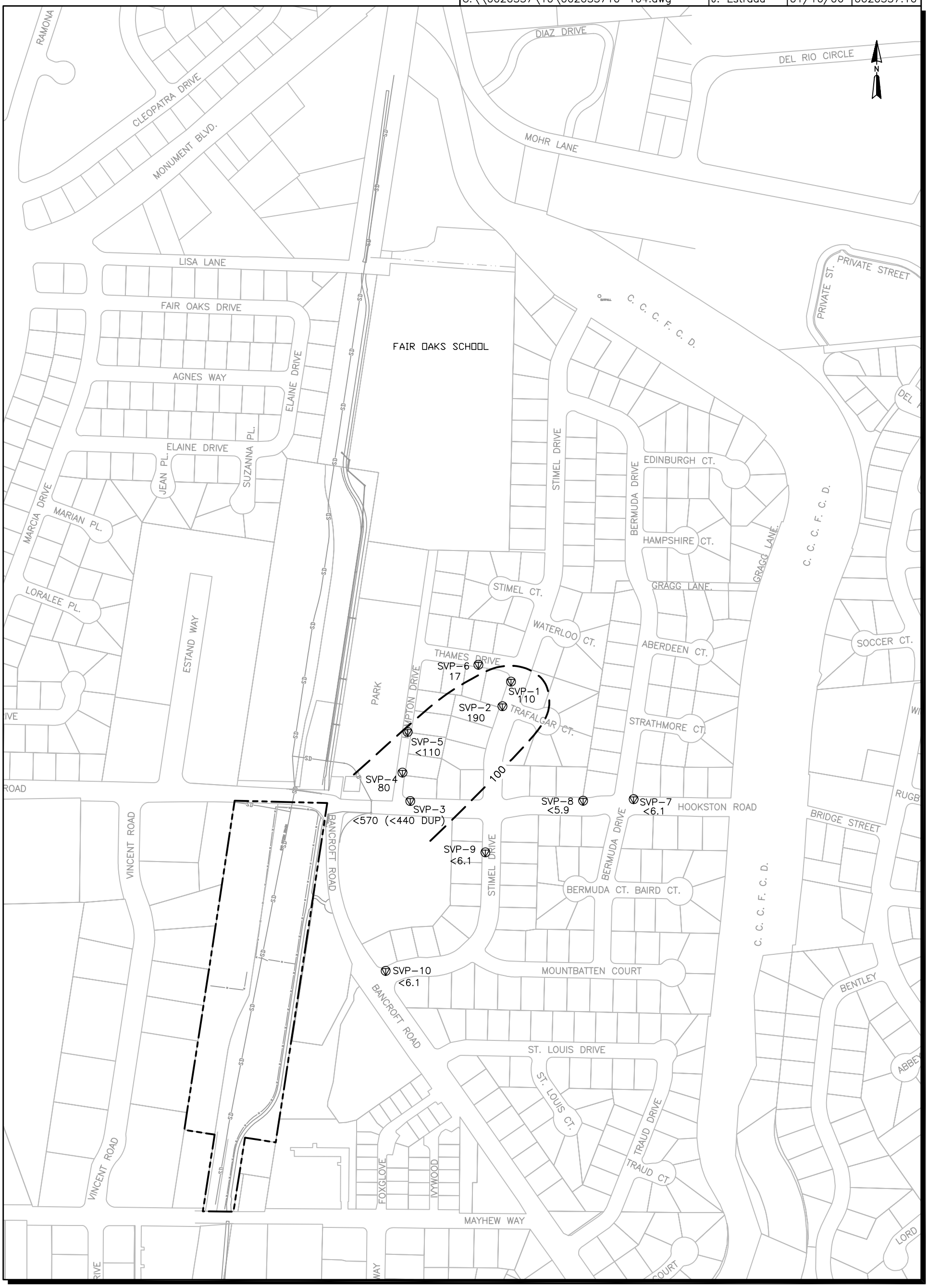


## LEGEND

| | |
|---|---|
| ▽ | Soil Vapor Monitoring Probe Location |
| — - - — | Site Boundary |
| 100 — - - — | PCE Soil Vapor Concentration Contour ($\mu g/m^3$) |
| 190 | PCE Soil Vapor Concentration ($\mu g/m^3$) |
| DUP | Duplicate |

NOTE:
California EPA CHHSL for PCE in soil vapor = 180 $\mu g/m^3$ for residential use.

0 300
FEET

Figure 18
*PCE in Soil Vapor Samples*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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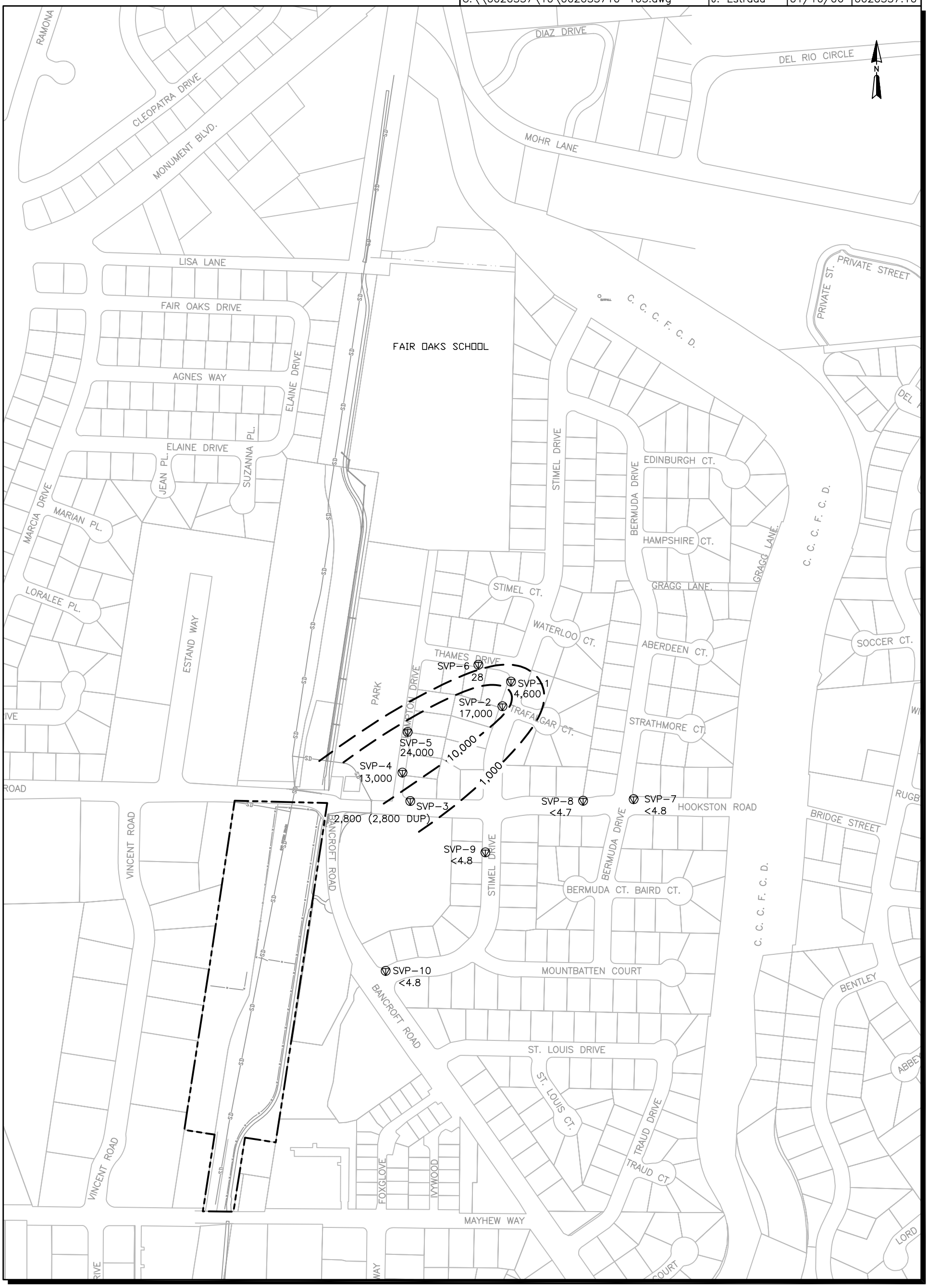


## LEGEND

| | |
|---|---|
| ▽ | Soil Vapor Monitoring Probe Location |
| — - — - — | Site Boundary |
| 1,000 — — — | TCE Soil Vapor Concentration Contour ($\mu g/m^3$) |
| 100 | TCE Soil Vapor Concentration ($\mu g/m^3$) |
| DUP | Duplicate |

NOTE:
California EPA CHHSL for TCE in soil vapor = 528 $\mu g/m^3$ for residential use.

0 300
FEET

Figure 19
*TCE in Soil Vapor Samples*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
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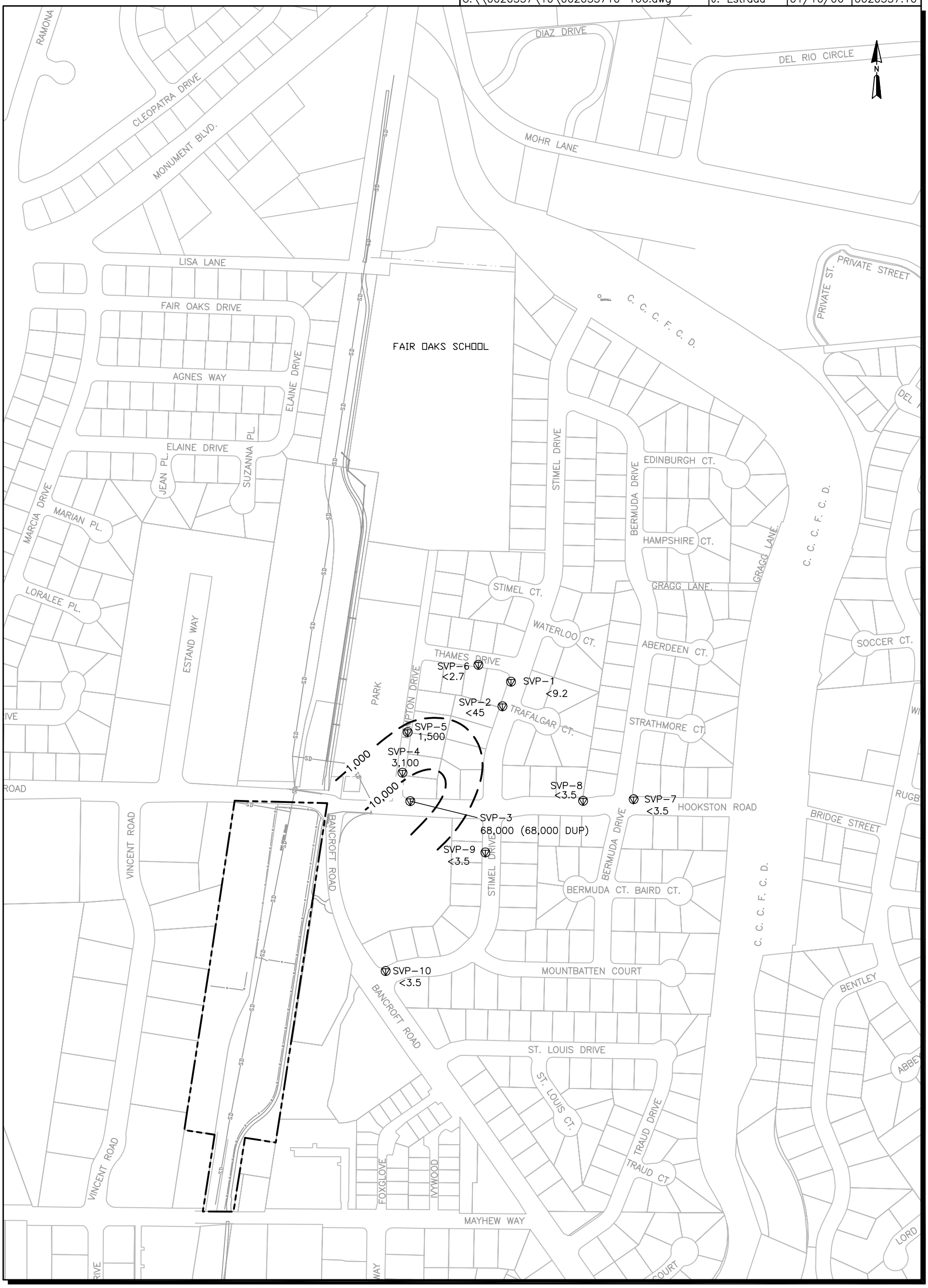



## LEGEND

| | |
|---|---|
| ▽ | Soil Vapor Monitoring Probe Location |
| — — — | Site Boundary |
| 1,000 — — — | cis–1,2–DCE Soil Vapor Concentration Contour ($\mu g/m^3$) |
| 10 | cis–1,2–DCE Soil Vapor Concentration ($\mu g/m^3$) |
| DUP | Duplicate |

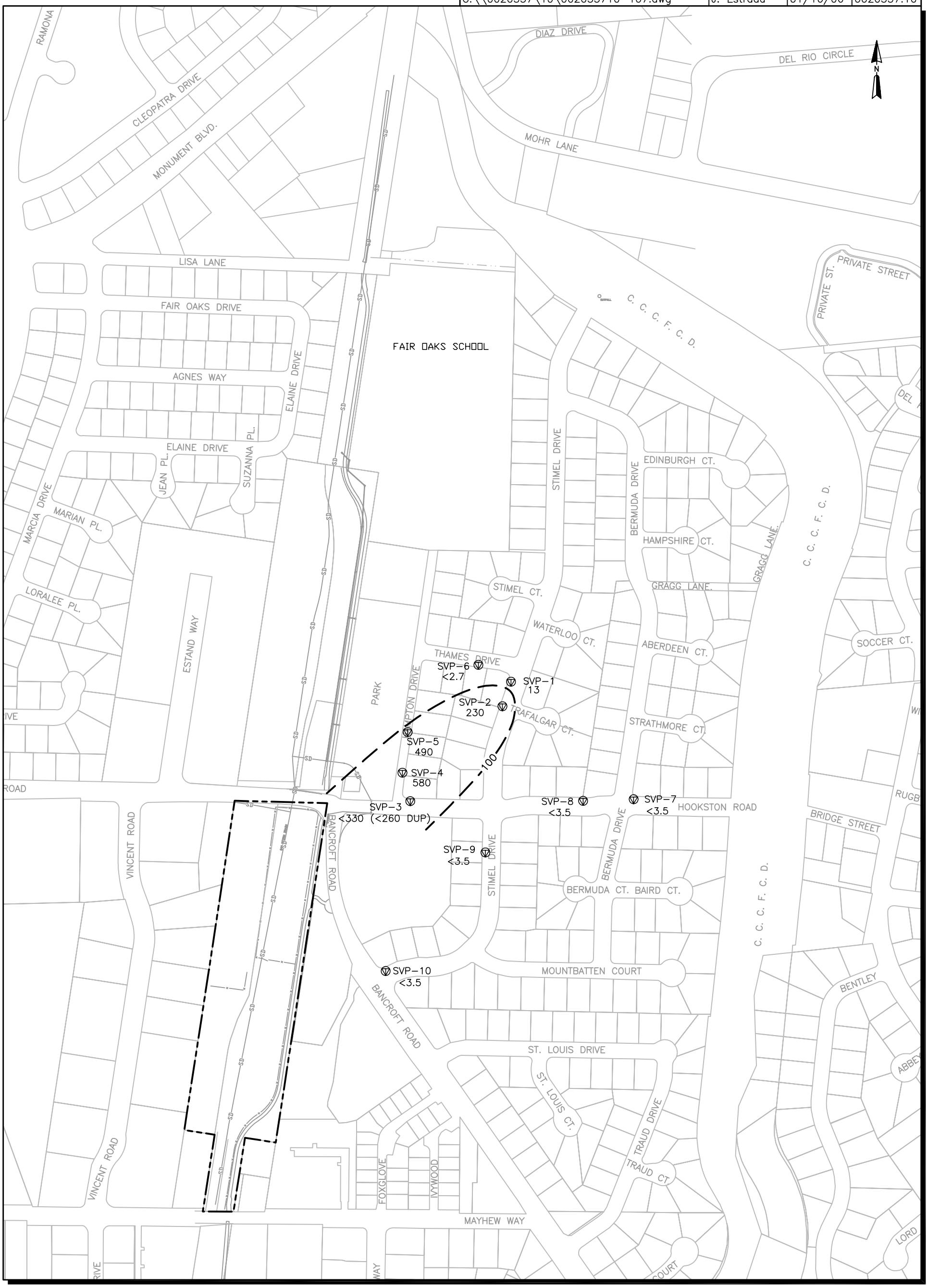
0 300
FEET

NOTE:
California EPA CHHSL for cis–1,2–DCE in soil vapor = 15,900 $\mu g/m^3$ for residential use.

Figure 20
*cis-1,2-DCE in Soil Vapor Samples*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

| CAD File: | Drawn By: | Date: | Project No. |
|---|---|---|---|
| G:\\0020557\10\002055710-107.dwg | J. Estrada | 01/16/06 | 0020557.10 |




## LEGEND

| | |
|---|---|
| ▽ | Soil Vapor Montoring Probe Location |
| — — — | Site Boundary |
| 100 — — — | 1,1–DCE Soil Vapor Concentration Contour (µg/m³) |
| 10 | 1,1–DCE Soil Vapor Concentration (µg/m³) |
| DUP | Duplicate |

NOTE:
California EPA has not established a CHHSL for 1,1–DCE soil vapor.

0 300
FEET

Figure 21
*1,1-DCE in Soil Vapor Samples*
*Fourth Quarter 2005*
*Hookston Station Project*
*Pleasant Hill, California*

ERM 01/06

*Attachment A*
*Data Review and*
*Analytical Laboratory Reports*
*(on CD)*

# Memorandum

**Environmental Resources Management**

1777 Botelho Drive
Suite 260
Walnut Creek, CA 94596
(925) 946-0455
(925) 946-9968 (fax)

**To:** Kimberly Lake

**From:** Jackie Luta

**Date:** 13 January 2006

**Subject:** Data Review of UPRR Hookston Station Groundwater and Soil Vapor Samples Collected in November, 2005

**Project Number:** 0020557.10

**Data Package:** STL-Sacramento Data Packages G5K180382, G5K180391, and G5K180399; and Air Toxics Data Package 0511361

The quality of the data was assessed and any necessary qualifiers were applied following the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* October 1999.

## *HOLDING TIME AND PRESERVATION EVALUATION*

The samples were prepared and analyzed within the method prescribed time period from the date of collection. The sample shipments were received at the laboratory within the method prescribed temperature preservation requirements. None of the data were qualified based on holding time or temperature preservation exceedances.

## *BLANK EVALUATION*

The common laboratory contaminant acetone was detected in the trip blank and field blank. Associated samples were qualified as nondetected (U) in accordance with the *Functional Guidelines'* 10-times rule.

Xylenes were detected in a method blank; however, since no samples had detections for xylenes, no data required qualification.

In addition to acetone, bromodichloromethane, bromoform, dibromochloromethane, and chloroform were detected in the trip blank. Only chloroform was detected in two associated sample results; they were qualified as nondetected (U).

The common laboratory contaminant acetone was detected in the ambient air sample, which is similar to a field blank for soil vapor samples. One associated sample result was qualified as estimated (U) accordance with the *Functional Guidelines'* 10-times rule.

All blank detections and the associated qualified data are presented in Table 1.

***BLANK SPIKE EVALUATION***

The laboratory control sample (LCS) percent recoveries (%R) were within the laboratory's limits of acceptance. The LCS recoveries indicate acceptable laboratory accuracy and precision.

***SURROGATE SPIKE EVALUATION***

The surrogate recoveries were within acceptable limits, indicating minimal matrix interference in the samples.

***DUPLICATE EVALUATION***

Five groundwater samples and one soil vapor sample were submitted in duplicate. ERM calculated the RPDs between detected results. The USEPA has not established control criteria for field duplicate samples, therefore, sample data are not qualified on the basis of field duplicate imprecision. The RPDs are presented in Table 2.

***TPH EVALUATION***

The laboratory noted that the sample chromatograms for the total petroleum hydrocarbons analysis did not resemble the standards in eight sample results, and reported these results as unknown hydrocarbons. ERM compared the sample chromatograms with the calibration chromatograms to identify which fuel was best represented. In most cases, there were distinct peaks in the diesel and motor oil ranges. None of the chromatograms resembled the fuel patterns; rather they contained peaks or patterns that eluted in the fuel ranges. ERM qualified the

affected sample results as tentatively identified and estimated (NJ) as shown in Table 3.

***OVERALL ASSESSMENT***

No data required rejection. All of the data, including qualified data, can be used for decision-making purposes; however, the limitations indicated by the applied qualifiers should be considered when using the data. The quality of the data generated during this investigation is acceptable for the preparation of technically defensible documents.

*Table 1*
*Blank and Associated Suspect Sample Detections*
*4th Quarter 2005 Ground Water Monitoring*
*UPRR Hookston Station*
*Pleasant Hill, California*

| Lab Package | Blank ID | Associated Sample | Detected Compound | Reported Concentration | Report Limit | Units | ERM Qualifier |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **Groundwater Samples** | | | | | | | |
| | | | | | | | |
| G5K180391 | MB | NA | Xylenes | 0.37 | 1.0 | µg/L | NA |
| | | | | | | | |
| G5K180399 | MB | NA | Xylenes | 0.37 | 1.0 | µg/L | NA |
| G5K180399 | Trip Blank | NA | Acetone | 1.9 | 10 | µg/L | NA |
| G5K180399 | Trip Blank | NA | Bromodichloromethane | 2.3 | 1.0 | µg/L | NA |
| G5K180399 | Trip Blank | NA | Bromoform | 0.37 | 1.0 | µg/L | NA |
| G5K180399 | Trip Blank | NA | Dibromochloromethane | 1.7 | 1.0 | µg/L | NA |
| G5K180399 | Trip Blank | See below | Chloroform | 2.1 | 1.0 | µg/L | NA |
| G5K180399 | Field Blank | See below | Acetone | 3.4 | 10 | µg/L | NA |
| G5K180382 | Field Blank | MW-9B | Acetone | 4.0 | 10 | µg/L | 10 U |
| G5K180382 | Field Blank | MW-9B | Chloroform | 0.1 | 1.0 | µg/L | 1.0 U |
| G5K180382 | Field Blank | MW-11A | Acetone | 3.5 | 10 | µg/L | 10 U |
| G5K180382 | Trip Blank | MW-11A | Chloroform | 3.9 | 1.0 | µg/L | 3.9 U |
| G5K180382 | Trip Blank | MW-12A | Chloroform | 1.8 | 1.0 | µg/L | 1.8 U |
| | | | | | | | |
| G5K180391 | Field Blank | MW-15C | Acetone | 3.2 | 10 | µg/L | 10 U |
| G5K180391 | Field Blank | MW-17B (45') | Acetone | 5.7 | 10 | µg/L | 10 U |
| G5K180391 | Field Blank | MW-17B (48') | Acetone | 7.2 | 10 | µg/L | 10 U |
| G5K180391 | Field Blank | MW-17B (51') | Acetone | 5.9 | 10 | µg/L | 10 U |
| G5K180391 | Field Blank | MW-18A | Acetone | 3.9 | 10 | µg/L | 10 U |
| G5K180391 | Field Blank | MW-18B | Acetone | 3.0 | 10 | µg/L | 10 U |
| G5K180391 | Field Blank | MW-19A | Acetone | 1.0 | 10 | µg/L | 10 U |
| G5K180391 | Field Blank | MW-19C | Acetone | 2.5 | 10 | µg/L | 10 U |
| | | | | | | | |
| G5K180399 | Field Blank | MW-23A | Acetone | 3.7 | 10 | µg/L | 10 U |
| G5K180399 | Field Blank | MW-23B | Acetone | 3.5 | 10 | µg/L | 10 U |
| G5K180399 | Field Blank | MW-23C | Acetone | 3.9 | 10 | µg/L | 10 U |
| G5K180399 | Field Blank | MW-25A | Acetone | 5.4 | 10 | µg/L | 10 U |
| G5K180399 | Field Blank | MW-25B | Acetone | 2.5 | 10 | µg/L | 10 U |
| G5K180399 | Field Blank | MW-26B | Acetone | 3.3 | 10 | µg/L | 10 U |
| | | | | | | | |
| **Soil Vapor Samples** | | | | | | | |
| | | | | | | | |
| 0511361 | Ambient Air | See below | Acetone | 9.8 | 8.0 | $\mu g/m^3$ | NA |
| 0511361 | Ambient Air | SVP-6 | Acetone | 6.4 | 6.5 | $\mu g/m^3$ | 6.5 U |
| | | | | | | | |

*Table 1*
*Blank and Associated Suspect Sample Detections*
*4th Quarter 2005 Ground Water Monitoring*
*UPRR Hookston Station*
*Pleasant Hill, California*

| Lab Package | Blank ID | Associated Sample | Detected Compound | Reported Concentration | Report Limit | Units | ERM Qualifier |
|---|---|---|---|---|---|---|---|

**Key:**
U = Qualified as nondetected
µg/L = Micrograms per liter
µg/$m^3$ = Micrograms per cubic meter
MB = Method blank
= Not applicable

*Table 2*
*Field Duplicate Results and Calculated Relative Percent Differences*
*4th Quarter 2005 Ground Water Monitoring*
*UPRR Hookston Station*
*Pleasant Hill, California*

| Lab Package | Sample ID | Compound | Concentration | | Units | RPD (%) |
|---|---|---|---|---|---|---|
| | | | Sample | Duplicate | | |
| **Field Duplicate Results** | | | | | | |
| G5K180382 | MW-06 | Tetrachloroethene | 1.1 | 0.99 | µg/L | 10.5 |
| G5K180391 | MW-14A | cis-1,2-Dichloroethene | 1400 | 1300 | µg/L | 7.4 |
| G5K180391 | MW-14A | 1,1-Dichloroethene | 180 | 230 | µg/L | 24.4 |
| G5K180391 | MW-14A | Trichloroethene | 1500 | 1500 | µg/L | 0 |
| G5K180391 | MW-14A | Vinyl chloride | 280 | 310 | µg/L | 10.2 |
| G5K180391 | MW-15B | cis-1,2-Dichloroethene | 200 | 250 | µg/L | 22.2 |
| G5K180391 | MW-15B | 1,1-Dichloroethene | 150 | 130 | µg/L | 14.3 |
| G5K180391 | MW-15B | Trichloroethene | 1600 | 1700 | µg/L | 6.1 |
| G5K180399 | MW-20B | cis-1,2-Dichloroethene | 2800 | 2700 | µg/L | 3.6 |
| G5K180399 | MW-20B | trans-1,2-Dichloroethene | 25 | 21 | µg/L | 17.4 |
| G5K180399 | MW-20B | Tetrachloroethene | 1000 | 970 | µg/L | 3.0 |
| G5K180399 | MW-20B | Trichloroethene | 480 | 480 | µg/L | 0 |
| G5K180399 | MW-20B | Vinyl chloride | 84 | 77 | µg/L | 8.7 |
| G5K180399 | MW-24B | 1,1-Dichloroethane | 1.7 | 1.5 | µg/L | 12.5 |
| G5K180399 | MW-24B | cis-1,2-Dichloroethene | 7.6 | 8.6 | µg/L | 12.3 |
| G5K180399 | MW-24B | 1,1-Dichloroethene | 27 | 26 | µg/L | 3.8 |
| G5K180399 | MW-24B | Trichloroethene | 490 | 460 | µg/L | 6.3 |
| G5K180399 | MW-24B | Vinyl chloride | 2.4 | 3.0 | µg/L | 22.2 |
| 0511361 | SVP-3 | Vinyl chloride | 10000 | 10000 | µg/m$^3$ | 0 |
| 0511361 | SVP-3 | trans-1,2-Dichloroethene | 2800 | 2800 | µg/m$^3$ | 0 |
| 0511361 | SVP-3 | Hexane | 780 | 910 | µg/m$^3$ | 15.4 |
| 0511361 | SVP-3 | cis-1,2-Dichloroethene | 68000 | 68000 | µg/m$^3$ | 0 |
| 0511361 | SVP-3 | Cyclohexane | 7300 | 7500 | µg/m$^3$ | 2.7 |
| 0511361 | SVP-3 | Benzene | 360 | 500 | µg/m$^3$ | 32.6 |
| 0511361 | SVP-3 | Trichloroethene | 2800 | 2800 | µg/m$^3$ | 0 |
| 0511361 | SVP-3 | Toluene | <320 | 250 | µg/m$^3$ | NC |
| **Analytical Duplicate Results** | | | | | | |
| 0511361 | SVP-1 | 1,1-Dichloroethene | 13 | 14 | µg/m$^3$ | 7.4 |
| 0511361 | SVP-1 | Trichloroethene | 4600 | 4300 | µg/m$^3$ | 6.7 |
| 0511361 | SVP-1 | Tetrachloroethene | 110 | 100 | µg/m$^3$ | 9.5 |

*Table 2*
*Field Duplicate Results and Calculated Relative Percent Differences*
*4th Quarter 2005 Ground Water Monitoring*
*UPRR Hookston Station*
*Pleasant Hill, California*

| Lab Package | Sample ID | Compound | Concentration | | Units | RPD (%) |
|---|---|---|---|---|---|---|
| | | | Sample | Duplicate | | |

**Key:**
NC = Not calculated, one result was detected and the other result was nondetected
µg/L = Micrograms per liter
µg/$m^3$ = Micrograms per cubic meter
RPD = Relative percent difference

*Table 3*
*Suspect Compound Quantitation*
*4th Quarter 2005 Ground Water Monitoring*
*UPRR Hookston Station*
*Pleasant Hill, California*

| Lab Package | Sample ID | Analysis Method | Compound | Result | ERM Qualifier | Notes |
|---|---|---|---|---|---|---|
| | | | | | | |
| G5K180391 | MW-20A | TPH-d | Unknown hydrocarbon | 65 | NJ | Disticnt peaks in both diesel and motor oil ranges |
| G5K180391 | MW-20A, SiGel | TPH-d | Unknown hydrocarbon | 63 | NJ | Disctinct peaks in motor oil range |
| | | | | | | |
| G5K180399 | MW-20B | TPH-d | Unknown hydrocarbon | 520 | NJ | Distinct peaks in diesel range; mostly motor oil range |
| G5K180399 | MW-21A | TPH-d | Unknown hydrocarbon | 84 | NJ | Distinct peaks in diesel range; mostly motor oil range |
| G5K180399 | MW-21B | TPH-d | Unknown hydrocarbon | 170 | NJ | Disticnt peaks in both diesel and motor oil ranges |
| G5K180399 | MW-20B, SiGel | TPH-d | Unknown hydrocarbon | 580 | NJ | Distinct peaks in diesel range; mostly motor oil range |
| G5K180399 | MW-21A, SiGel | TPH-d | Unknown hydrocarbon | 73 | NJ | Distinct peaks in diesel range; mostly motor oil range |
| G5K180399 | MW-21B, SiGel | TPH-d | Unknown hydrocarbon | 190 | NJ | Distinct peaks in diesel range; mostly motor oil range |
| | | | | | | |

**Key:**
SiGel = Silica gel cleanup was used
TPH-d = Total petroleum hydrocarbons, diesel
NJ = Estimated value - chromatogram did not resemble the standard hydrocarbon pattern