LEHR/SCDS
ENVIRONMENTAL RESTORATION

DRAFT 2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT

University of California, Davis

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LIST OF ACRONYMS AND ABBREVIATIONS

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloeoethane
1,2-DCP	1,2-dichloropropane
1,1,2-TCA	1,1,2-trichloroethane
Annual Report	2006 Comprehensive Annual Water Monitoring Report
AOC	Administrative Order on Consent
ASDP	Air Stripper Discharge Pump sampling location
bgs	below ground surface
COC	constituent of concern
CPT	cone penetrometer test
CRDL	contract-required detection limit
CWTP	UC Davis Campus Wastewater Treatment Plant
CVRWQCB	Central Valley Regional Water Quality Control Board
DDC	density-driven convection
DOE	United States Department of Energy
DQO	data quality objective
DWR	California Department of Water Resources
FS	feasibility study
FSP	Field Sampling Plan
ft/s	feet per second
gpm	gallons per minute
HSU	hydrostratigraphic unit
IRA	Interim Removal Action
K	hydraulic conductivity
LEHR/SCDS	Laboratory for Energy-related Health Research/South Campus Disposal Site
LF-1	landfill No. 1 stormwater runoff monitoring point
LF-3	landfill No. 3 stormwater runoff monitoring point
LS-1	lift station No. 1 stormwater runoff monitoring point
LTPS	Land Treatment Pilot Study
LTPS Work Plan	Land Treatment Pilot Study Work Plan
MEK	methyl ethyl ketone
mg/L	milligrams per liter
msl	mean sea level
NOEC	No Observed Effect Concentration
PARCC	precision, accuracy, representativeness, completeness, and comparability
PCB	polychlorinated biphenyl
PCD	Putah Creek downstream sampling location
PCE	tetrachloroethylene
pCi/L	picoCuries per liter
PCU	Putah Creek upstream sampling location
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

QC	quality control
RI/FS	Remedial Investigation/Feasibility Study
RPD	Relative Percent Differences
RPM	remedial project manager
Site	Laboratory for Energy-related Health Research/South Campus Disposal Site
SOW	Statement of Work for Removal Actions and Mitigation/Repair
STPO	UC Davis sewage treatment plant outfall sampling location
TCE	trichloroethylene
TDS	total dissolved solids
TEM	transient electromagnetic
TOC	total organic carbon
TP	temporary wells
TSS	total suspended solids
UC Davis	University of California, Davis
USEPA	United States Environmental Protection Agency
vadose zone	unsaturated material
VOC	volatile organic compound
WDR	Waste Discharge Requirement
μg/L	micrograms per liter

SECTION 0
EXECUTIVE SUMMARY

This report presents the results of the 2006 comprehensive water monitoring programs conducted at the former Laboratory for Energy-related Health Research facility and South Campus Disposal Site (LEHR/SCDS) (Site). The Site is located at the University of California, Davis (UC Davis) campus.

Water monitoring programs discussed in this report include:

- Monitoring for the density-driven convection (DDC) expanded pilot system test;
- Continued monitoring for the Remedial Investigation/Feasibility Study (RI/FS) that includes stormwater runoff, surface water monitoring, and site-wide groundwater monitoring that includes evaluation of the groundwater interim removal action (IRA) wells; and
- IRA influent, effluent, and soil monitoring to assess the Land Treatment Pilot Study (LTPS).

0.1. Expanded DDC Pilot Test Program

The Expanded DDC Pilot Test is an in-situ groundwater treatment system that utilizes convection cells to treat volatile organic compounds (VOCs; primarily chloroform) in shallow groundwater. The DDC system is also intended to prevent the downward migration of VOCs (primarily chloroform) from the vadose zone and uppermost groundwater (hydrostratigraphic unit [HSU], HSU-1) to the underlying more permeable groundwater (hydrostratigraphic unit, HSU-2). Currently, there are six DDC treatment wells (DDC-1 through DDC-6) installed in HSU-1 near the VOC source.

The DDC system is evaluated by monitoring five nested piezometers (temporary wells [TP] TP-1A, TP-1B, and TP-1C through TP-5A, TP-5B, and TP-5C) and five monitoring wells (UCD1-012, UCD1-049, UCD1-050, UCD1-051, and UCD2-048). In 2006, the DDC system monitoring consisted of the first three quarters of samples for all wells. During the third quarter, a change from quarterly to a semi-annual sampling schedule was approved by USEPA. Therefore, the fourth quarter sampling event for the DDC system was not required and not performed.

0.2. RI/FS Monitoring Program

The current groundwater, stormwater and surface water monitoring program provides data to support development of the site Feasibility Study. In site groundwater, five hydrostratigraphic units (HSUs) have been defined, based on drilling and geophysical surveys completed since 1987. In descending order, the units are HSU-1, HSU-2, HSU-3, HSU-4, and an unnamed aquitard. For the purposes of this report, the unsaturated material (vadose zone) from the surface to first encountered groundwater is included in HSU-1.

During 2006, 63 monitoring wells were used in the program; 39 of these wells are completed within HSU-1, 19 are completed within HSU-2, and five are completed within HSU-4. The well locations are shown on Figure 4. The water monitoring program for 2006 included quarterly collection of groundwater samples for winter, spring and summer quarters. The fourth quarter samples were not collected after the change to semi-annual monitoring was approved by USEPA. Approximately 241 groundwater samples were collected in 2006 for various analytes, as shown in Table 2.

Stormwater from LF-1 and surface water were sampled in March and November 2006. Stormwater at LS-1 (monitored and sampled by the United Stated Department of Energy [DOE]) was sampled in February and December 2006. Monitoring locations are shown in Figure 4 and results are discussed in Section 4.7.

0.3. IRA Influent/Effluent Monitoring Program

The groundwater IRA was designed to minimize offsite migration of VOCs, primarily chloroform, in HSU-2 groundwater by conventional extraction and treatment (air stripping for VOCs), followed by effluent discharge to the UC Davis Campus Wastewater Treatment Plant (CWTP) or the Land Treatment Pilot Study. During 2006, IRA influent and effluent samples were monitored monthly to assess IRA operational efficiency and effluent discharge requirements. Influent and effluent samples were inadvertently not collected in May. Effluent met discharge standards for land treatment during 2006 except for low levels of chloroform that resulted from system shutdowns due to blower failure and a power failure (see Section 4.4.2 for further discussion).

0.4. Data Validation

Based on requests to produce the routine monitoring data in a timelier manner, the data validation process was streamlined for groundwater samples. The data validation process for these reports outlined in the Quality Assurance Project Plan (QAPP) was modified to a more streamlined data verification process as outlined in the 2003 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2005).

The results of this data verification conducted during 2006 indicated that the data are valid for their intended purpose.

0.5. Assessment of Water Monitoring Programs and Recommendations

Based on the findings of the data collected between 1999 through 2006, UC Davis is recommending additional changes in the recently approved semi-annual monitoring schedule for the overall groundwater monitoring program in 2007. UC Davis proposes that groundwater monitoring be optimized during the interim period between completion of the FS and startup of remedial actions. Now that Site groundwater characterization is largely complete, UC Davis suggests the focus of current and future monitoring shift toward obtaining the data needed to complete the FS and remedial actions for the Site. Until the FS is complete and the selected groundwater remedy is implemented, we recommend that groundwater monitoring during this interim period focus on:

1. Continue assessing the operation of IRA and DDC systems in minimizing off-Site migration of VOCs (IRA system) and removal of VOCs within the HSU-1 groundwater source area (DDC system);

2. Monitoring groundwater quality for specific constituents in areas with known impacts; and

3. Providing information needed to evaluate remedial alternatives developed in the FS Report.

Refer to Section 6 for a complete discussion of recommendations.

0.5.1. Expanded DDC Pilot Test Performance

The expanded DDC pilot test system operated approximately 71 percent of the time during 2006 and removed approximately 29 pounds of chloroform. Since October 2003, chloroform concentrations in the HSU-2 monitoring well, UCD2-48, continue to be less than 5 micrograms per liter (μg/L) with exception of the February 2006 and August 2006 samples when the DDC system was not operating as designed. During these months, no convection was occurring (see Section 4.3 for more details). With exception of these samples, the results indicate that the DDC system is effective in minimizing the mass transfer of chloroform in the source area from HSU-1 to HSU-2 while removing mass. Based on the information presented in this 2006 Comprehensive Annual Water Monitoring Report, UC Davis recommends no changes for operations or monitoring for the Expanded DDC pilot test system in 2007.

0.5.2. RI/FS Monitoring Program

Consistent with previous data, the primary VOC detected in groundwater samples during 2006 was chloroform. Chloroform was detected above the contract-required detection limit (CRDL) of 0.5 μg/L in 28 of the 46 wells monitored ranging in concentration from 0.543 μg/L (UCD2-046 in June 2006) to 1,380 μg/L (in DDC well UCD2-048 in February 2006). The increased concentration in UCD2-048 was due to the DDC not operating as designed, as discussed in Section 4.3. After repairs were completed in mid February, UCD2-48 was re-sampled and chloroform concentrations declined to 2.81 μg/L on May 17, 2006 and 11.4 μg/L on August 6, 2006. In addition to chloroform, twelve other VOCs were reported at low concentrations in the chloroform source area.

Results from the stormwater and surface water sampling in 2006 were within historical values. Based on the data presented in this 2006 Comprehensive Annual Water Monitoring Report, historical results for surface and storm water, and conclusions of the Site Wide Risk Assessment approved in 2006, UC Davis recommends eliminating surface and storm water monitoring. The SWRA concluded that the Site has not contributed to an increased human or ecological risk to Putah Creek. Future surface and storm water monitoring may be implemented as specified by the USEPA in the Record of Decision for remedial actions implemented at the Site.

0.5.3. IRA Influent/Effluent Monitoring Program

IRA Treatment System. In 2006, the groundwater IRA operated approximately 89 percent of the year removing approximately 13.4 pounds of chloroform. Chloroform was reported in the June, July, August, October and November 2006 effluent samples at concentrations of 15.8 μg/L, 1.98 μg/L, 1.77 μg/L, 1.11 μg/L, and 3.02 μg/L, respectively, all above the CRDL of 0.5 μg/L. The December effluent sample result indicated that chloroform was not detected above the 0.11 μg/L detection limit. The IRA system was shutdown in June and July due to blower failure, in August due to multiple mechanical failures, and in October and November due to power failures. The presence of chloroform in these effluent samples was due to sampling the system shortly after the system was restarted. After the system stabilized due to the mechanical repairs, the effluent was resampled in September and chloroform concentrations declined to below the CRDL.

Because the IRA effluent was sent to the CWTP, low levels of VOCs were treated and removed by the CWTP. No other constituents were present above effluent discharge standards for irrigation with LTPS in 2006. Based on these results, no changes to the IRA influent/effluent monitoring program are recommended.

LTPS. There were no statistically significant changes in 2006 for chromium, cadmium, or selenium at 1, 3 or 5 feet bgs sample depths. Other metals including arsenic, barium, copper, lead, and nickel showed a slight but significant increased concentration at one or more sampling intervals. Based on the fate and transport of these metals, application of LTPS irrigation water could not have resulted in soil arsenic or lead concentration of over 40 mg/kg (as reported by the laboratory) while soil samples at 1 and 3 feet bgs at the same location were reported at less than 10 mg/kg. Based on a comprehensive evaluation of metals content in IRA effluent applied to the LTPS from 2003 to 2006, combined with soil sample evaluations from 2003 to 2005 (compared to baseline samples collected in 2000), UC Davis recommends that no additional soil monitoring on the LTPS is needed and there is sufficient data to evaluate this Pilot Study in the FS.

0.6. Reporting

Beginning in 2007, reporting for the monitoring program includes a semi-annual and annual report. UC Davis proposes that the 2007 Comprehensive Annual Water Monitoring Report include a

detailed assessment of each monitoring program and include a summary of changes to the programs and recommendations for future monitoring. The 2007 annual report will be submitted to the United Stated Environmental Protection Agency (USEPA) by May 1, 2008.

0.7. Site Information Sources

For more information about the Site restoration program, you may contact:

Sue Fields – UC Davis	(530) 752-3044
Vijay Kothari – DOE LM Project Manager	(304) 285-4579

Documents relating to the Site investigation and restoration may be found at the following locations:

Yolo County Public Library, Davis Branch Reference Desk Davis, California (530) 756-2332	UC Davis Shields Library (530) 752-6561

Additional information is also available on the Internet at: http://ehs.ucdavis.edu/enviro/lehr.html

SECTION 1
INTRODUCTION

This report presents the results for the 2006 water monitoring programs conducted at the former Laboratory for Energy-related Health Research facility and South Campus Disposal Site (LEHR/SCDS) (Site). The Site is located on the University of California (UC) Davis Campus east of Old Davis Road approximately 0.75 miles south of Interstate 80 and 1 mile south of the main UC Davis Campus (Figure 1).

Investigations and remediation of this Site conducted by UC Davis are coordinated under an Administrative Order on Consent No. 99-16 (AOC) issued by the United States Environmental Protection Agency (USEPA) (USEPA, 1999a). Support agencies or remedial project managers (RPMs) for the Site include the California Environmental Protection Agency - Department of Toxic Substances Control (Cal-EPA/DTSC); the Central Valley Region of the Regional Water Quality Control Board (RWQCB); the Radiation Health Branch of the California Department of Health Services; and the United States Department of Energy (DOE). The USEPA has also provided a technical advisory grant for a public community group referred to as the Davis South Campus Superfund Oversight Committee (DSCSOC).

Water monitoring has been conducted at the Site under various programs as described in previous water monitoring reports that have been prepared since 1993. The most recent programs are described in the 2005 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2006), and include monitoring of the following components.

- A groundwater treatment system installed as an Interim Removal Action (IRA) at the Site in March 1998 to minimize the offsite migration of volatile organic compounds (VOCs), primarily chloroform. Monitoring for this program followed the requirements listed in the Waste Discharge Requirements (WDRs) (Central Valley California Regional Water Quality Control Board [CVRWQCB], 1997) and later in the Addendum to Statement of Work for Removal Actions and Mitigation/Repair (SOW), by the United States Environmental Protection Agency (USEPA, 2000). This program was modified and combined with the overall groundwater monitoring program described below in the USEPA approved 2002 Comprehensive Water

Monitoring Report (Brown and Caldwell, 2003) and further modified in the 2005 Comprehensive Water Monitoring Report

- An overall water monitoring program conducted in support of the Remedial Investigation/Feasibility Study (RI/FS) for the Site that included the requirements issued in the USEPA's Administrative Order on Consent (AOC) No. 99-16 (USEPA, 1999). This monitoring program was largely based on the Water Monitoring Plan (Pacific Northwest Laboratory, 1994), developed for the United States Department of Energy (DOE) as modified in the 2002 and 2005 Comprehensive Water Monitoring Reports (Brown and Caldwell, 2003 and 2006, respectively).

- A pilot test for the in-situ groundwater treatment of VOCs was proposed by UC Davis in 2000 targeting VOCs in shallow groundwater near the VOC source (URS, 2002). This pilot system was approved by the RPMs and later expanded (Brown and Caldwell, 2002). This in-situ treatment system utilizes density-driven convection (DDC) wells to treat VOCs in groundwater and to prevent the downward migration of chloroform from hydrostratigraphic unit (HSU)-1 to the underlying more permeable HSU-2. A monitoring program focused on documenting the performance of the DDC system was developed and implemented. The overall monitoring program for this system was modified in the 2005 Comprehensive Annual Water Monitoring Report.

This 2006 Comprehensive Annual Water Monitoring Report (Annual Report) is intended to meet the requirements of the monitoring programs outlined in the 2005 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2006). Because this program was not approved by the USEPA until October 2006, most of the quarterly sampling conducted during this year followed the programs outline in the 2002 Annual Report. The sampling programs are also intended to meet the requirements of the monitoring programs outlined in the AOC No. 99-16.

With the exception of the data validation process discussed in Section 4.1, sampling and analytical procedures for all elements were performed in accordance with the Final Revised Field Sampling Plan (FSP) (Dames & Moore, 1998a) and the Final Revised Quality Assurance Project Plan (QAPP) (Dames & Moore, 1998b).

1.1. Purpose and Objectives

The purpose of this 2006 Annual Report is to present a detailed assessment of the monitoring programs identified previously, including a summary of changes to the programs, if any. The goals for monitoring of each of these programs were outlined in the 2004 and 2005 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2005 and 2006). The specific objective of groundwater monitoring for the RI/FS is to assess if unexpected changes in groundwater occurred that warrant changes to the program. The objective of the IRA groundwater treatment system is to minimize the offsite migration of VOCs, primarily chloroform and to monitor effluent discharge. When the IRA discharges treated water to the LTPS for irrigation, the LTPS soil is monitored to assess potential impacts from using IRA effluent as irrigation water to the underlying soil and shallow groundwater system, as identified in the AOC.

The monitoring system developed for the combined RI/FS and IRA Water Monitoring Programs was designed to answer the questions below.

- Is the IRA system continuing to minimize the offsite migration of VOCs?
- Does IRA effluent comply with discharge requirements identified in the SOW?
- Have unexpected changes in Site groundwater, stormwater or surface water occurred that warrant changes to the Site monitoring program?
- Is the expanded DDC pilot system continuing to remove VOC mass?
- What is the impact of the Expanded DDC system on transfer of VOCs from shallow groundwater to deeper units?

An additional objective added to this years Annual Report is to provide a detailed assessment of the overall monitoring program focused on optimizing the existing programs to reduce monitoring costs while maintaining program objectives during the interim between completion of the FS and implementation of remedial actions.

1.2. Organization of Report

This report is organized as indicated as follows:

- Section 0 of this report is the Executive Summary.
- Section 1 is the introduction, including a project overview and descriptions of the purposes and approach to the 2006 Annual Report.
- Section 2 presents the hydrogeological setting of the Site.
- Section 3 provides a discussion of treatment systems and water monitoring programs conducted during 2006.
- Section 4 presents the results of testing collected during 2006.
- Section 5 includes a discussion of the results as they apply to obtainment of current program objectives.
- Section 6 discusses the results of an optimization assessment conducted this year for the overall groundwater monitoring program.
- Section 7 provides recommendations for changes to the overall program.
- Section 8 includes references.

SECTION 2
HYDROGEOLOGY

The hydrogeology in the vicinity of the Site was updated in the 2002 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2003) and included information from recently completed monitoring activities as well as previous Site data. This section summarizes the hydrogeology at the Site as presented in the 2005 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2006). Gradient and groundwater flow conditions from 2006 are discussed in Section 4.4.

2.1. Regional Setting

The Site and surrounding area are located on the geomorphic unit termed "low-alluvial plains and fans" (California Department of Water Resources (DWR), 1978), specifically the Putah Plain. This surface represents distal portions of alluvial fan deposits associated with Putah Creek that are referred to as the Putah Creek Fan (Mann, 1992). Sediments that form these alluvial fan deposits consist primarily of silts and clays with coarse-grained sediments occurring locally. The Putah Creek Fan was formed by a creek that changed course many times throughout this area. The sands and gravels were deposited during high velocity flows at times of floods. Outside the ribbon-like strips of coarse channel deposits, lower velocity waters deposited silts and clays. The age of these deposits range from late Pleistocene to recent. The thickness of the alluvial fan deposits is reported to be between 140 feet (Mann, 1992) and 180 feet (DWR, 1978).

Underlying the Putah Creek Fan is the Plio-Pleistocene Tehama Formation that was eroded prior to the deposition of the overlying alluvial material (Mann, 1992). The Tehama Formation consists of fine-grained sands and silts with discontinuous lenses of coarse sand and gravels. This unit is thought to be coeval with the Laguna Formation located on the east-side of the Sacramento Valley.

2.2. Site Stratigraphy

The subsurface stratigraphy for the Site is described from the geologic well logs, cone penetrometer test (CPT) logs, and the transient electromagnetic (TEM) survey performed at the Site in 1995

(Dames & Moore, 1995). Copies of the geologic boring and CPT logs have been presented in several reports, most of which are in the Phase II Site Characterization Report (Dames & Moore, 1993). The maximum depth penetrated during the drilling of soil borings is 265 feet below mean sea level (msl) (310 feet below ground surface [bgs]) in the soil boring drilled for monitoring well UCD4-033. The maximum depth resolved during the TEM survey was approximately 350 feet below msl at several sounding points.

Figure 3 represents a hydrostratigraphic cross-section constructed using the geologic well logs and TEM sounding points. A summary of the stratigraphy is presented in the following paragraphs.

Both the Putah Creek Fan and Tehama Formations were observed within soil borings and the TEM points completed at the Site. Table 1 summarizes the thickness of these units (as well as designated hydrostratigraphic units, see Section 2.3) as observed during drilling and completion of the TEM survey. The surface unit identified at all soil boring and TEM points is the Putah Creek Fan. Thirteen soil borings and 35 TEM points fully penetrated this unit. At these locations, the Putah Creek Fan ranges in thickness from 67 feet (TEM-17) to 205 feet (TEM-29) and is composed of two units:

- an upper unit consisting of interbedded silts, clays, fine sands, and some coarse sand and gravel deposits; and,
- a lower unit consisting predominantly of coarse sands and gravels.

Where fully penetrated, the upper unit ranged in thickness from 47 feet (TEM-17) to 124 feet (TEM-29) and the lower unit ranged in thickness from 20 feet (UCD4-47, TEM-14, TEM-17) to 81 feet (TEM-29).

Directly underlying the Putah Creek Fan is the Tehama Formation. As shown on the hydrostratigraphic cross section (Figure 3), the depth to the contact between these two formations varies across the site (see Table 1) consistent with the erosion of the Tehama formation from stream channels during the depositional period of the Putah Creek Fan.

The Tehama Formation was only partially penetrated by 13 soil borings and 35 TEM points. Depth of penetration ranged from 0.5 feet (UCD2-40) to 279 feet (TEM-17). The maximum thickness penetrated during drilling of soil borings was 196 feet (310 bgs) for the soil boring completed at UCD4-33. Three units were recognized within the Tehama Formation:

- an upper unit consisting of clays and silts with some small lenses of sand and gravel;
- an intermediate unit consisting of sands and gravel with silt and clay; and
- a lower unit consisting of clay and silt.

Where fully penetrated, the upper unit ranges in thickness from 47 feet (TEM-21) to 236 feet (TEM-17) and the intermediate unit ranges in thickness from 27 feet (UCD4-41) to 106 feet (TEM-18). Of the five soil borings that penetrated these two units, the upper unit ranges in thickness from 119 feet (UCD4-44) to 147 feet (UCD4-41) and the intermediate unit ranges in thickness from 27 feet (UCD4-41) to greater than 52 feet (UCD4-33). The lower unit has only been partially penetrated ranging in depth from 5 feet (UCD4-47) to 49 feet (TEM-25).

2.3. Site Hydrogeology

Five hydrostratigraphic units have been defined at the Site based on drilling and geophysical surveys completed since 1987. In descending order, the units are HSU-1, HSU-2, HSU-3, HSU-4, and an unnamed aquitard. For the purposes of this report, the unsaturated material (vadose zone) from the surface to first encountered groundwater is included in HSU-1.

HSU-1 and HSU-2 form the upper and lower units, respectively, of the Putah Creek Fan and HSU-3, HSU-4, and the unnamed aquitard form the upper, intermediate, and lower units, respectively, of the Tehama Formation (Figure 3). Sub-units within each of these units were distinguished based on relative permeabilities. These sub-units, from lower to higher permeabilities, are as follows:

- clayey silts to silty clays;
- silt with some sand and clay;
- fine grained silty sand;
- fine to coarse grained sand; and
- coarse grained sandy gravel.

HSU-2 and HSU-4 are composed of the coarser gravel deposits and represent aquifers that are used as a source of water in the vicinity of the LEHR site. As reported by Mann, the lower unit of the Putah Creek Fan (HSU-2) is very permeable whereby wells completed in this unit have high specific capacities (Mann, 1992). The average hydraulic conductivity (K) value calculated for this unit from the constant rate pumping test conducted prior to startup of the IRA (Dames & Moore, 1997b) is 1.2×10^{-2} feet per second (ft/s), consistent with a coarse sand to gravel unit. Mann (1992) also reported that wells in the area completed within the gravel unit of the Tehama Formation (HSU-4) have lower specific capacities than those completed within HSU-2.

In contrast with the HSU-2 and HSU-4 coarse material, HSU-1, HSU-3, and the unnamed aquitard are composed predominantly of fined grained silts and clays. Several wells have been completed within HSU-1, all of which indicate low permeabilities as demonstrated by low flow rates during purging. The results of a constant rate pumping test within this unit (Dames & Moore, 1999a) calculated a K value between 2.8 ft/day to 3.3 ft/day. These K values are consistent with a silt to sandy silt unit. Using these K values, the average gradient value for HSU-1 (0.006 feet/feet) and assuming an effective porosity of 0.25, the average seepage velocity for HSU-1 ranges from 25 feet per year to 29 feet per year.

HSU-3 directly underlies HSU-2 and represents a thick sequence of silts and clays within the Tehama Formation separating the HSU-2 aquifer from the HSU-4 aquifer. Samples of these materials collected during the drilling of soil borings at the Site indicated that the moisture content of these materials was lower than the plastic limit. This condition supports a very low permeability of this unit and strongly suggests that HSU-2 and HSU-4 are not hydraulically connected. It is also important to emphasize that the contact between HSU-2 and HSU-3 is an erosional contact between the Putah Creek Fan and Tehama Formation. As such, the gravel unit of HSU-2 does not interfinger with units of the underlying HSU-3 material that, if present, could create potential migration pathways. Although HSU-3 does contain small zones of sand and gravel, as shown on Figure 3, these materials are highly localized and discontinuous. A more detailed discussion of vertical gradients and the lack of hydraulic connection between HSU-2 and HSU-4 is presented in Section 4.4.2. The clays and silt of the unnamed aquitard below HSU-4 are similar in appearance to those in HSU-3.

SECTION 3
2006 WATER MONITORING PROGRAMS

This section describes monitoring activities conducted during 2006. The current water monitoring program is presented in Table 2. Table 3 lists the analytical parameters and associated methods used for all groundwater monitoring. Results of the 2006 monitoring programs are discussed in Section 4.0.

All water and soil samples are shipped by overnight delivery to General Engineering Laboratories in Charleston, South Carolina. Immediately upon receipt of the sample shipment, the laboratory documented the condition of the sample containers on the chain-of-custody forms and acknowledged receipt by faxing a copy of the chain-of-custody form to the task manager. Surface water and stormwater bioassay samples are analyzed by Block Environmental Services.

In the 2001 Annual Groundwater Treatment System and Water Monitoring Report (URS, 2002), UC Davis recommended several changes to the overall water monitoring program which were approved by the USEPA during the July 2002 RPM meeting. The overall water monitoring program was subdivided into three programs that continued to monitor:

- the expanded DDC pilot test program;
- the Site-wide groundwater program, including monitoring wells installed for the RI/FS and groundwater IRA; and
- the LTPS, which includes monitoring the IRA influent, IRA effluent, soil from the land application of treated IRA effluent or selected RI/FS groundwater wells nearby the injection of treated IRA effluent.

Minor changes were recommended to this program in the 2002 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2003) and the 2005 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2006). Changes in the 2002 Annual were approved by the USEPA during the October 2003 RPM meetings following the fourth quarter sampling round. The modified monitoring program was initiated during the first quarter 2004 sampling round and the changes are described below:

- To further assess the reduction of chloroform mass within hydrostratigraphic unit 2 (HSU-2; see Section 2 for discussion of HSUs) reaching the area of the IRA extraction system, sampling of VOCs in monitoring well UCD2-029 was changed from semi-annual monitoring to quarterly monitoring.

- As requested by the CVRWQCB, monitoring wells UCD1-001, UCD1-004, UCD1-010, UCD1-012, UCD1-013, UCD1-018, UCD1-019, UCD1-020, UCD1-022, UCD1-023, UCD1-024, and UCD1-025 were sampled for six Site COCs (VOCs [primarily chloroform], total chromium, nitrate as nitrogen, TDS, and the radionuclides tritium and carbon-14) for one year to establish present water quality conditions and seasonal variations in HSU-1 prior to initiating the Feasibility Study (FS).

- The data validation process for groundwater and surface water/stormwater samples collected on an on-going basis was modified to a more streamlined data verification process (see Section 4 for detailed discussion of change).

Changes recommended in the 2005 Annual report were approved by USEPA during the October 18, 2006 RPM meeting following the third quarter sampling round. The changes are:

- Sampling as part of the RI monitoring program at TP 1-A, B, and C through TP-5-A, B, and C was eliminated because sufficient data has been collected from these wells as requested by the RWQCB.

- The sampling frequency for the DDC wells and all groundwater wells was changed from quarterly to semi-annual sampling.

- The preparation of one semi-annual monitoring report in place of three quarterly reports.

3.1. Expanded DDC Pilot Test Program

A detailed discussion of the initial proposed monitoring program for the expanded phase of the DDC pilot test is presented in the approved Work Plan (Brown and Caldwell, 2002). For 2006, this

monitoring program was continued for the first three quarters. As indicated above, the change in the monitoring schedule to a semi-annual basis for the DDC system took place after the third quarter. Therefore, no samples were collected during the fourth quarter. The continued monitoring of this system in 2006 was conducted to further assess the following:

- the extent of the circulation cell developed by each well individually and in combination;
- how the system affects the migration of chloroform from HSU-1 to the underlying more permeable HSU-2; and
- the effectiveness of the system in removing chloroform from HSU-1.

Prior to construction of the expanded system, the DDC pilot test system consisted of one DDC well treating HSU-1 groundwater in three zones (DDC-1A, B, and C), five nested piezometers monitoring the operation and maintenance of the DDC wells (TP-1A, B, and C through TP-5A, B, and C) and existing HSU-1 monitoring well UCD1-12. The expanded system was installed between August 2002 and December 2002. The expanded system included five new DDC wells treating HSU-1 groundwater for three zones each (DDC-2A, B, and C through DDC-6A, B, and C), three new HSU-1 monitoring wells (UCD1-49 through UCD1-51) and one new HSU-2 well (UCD2-48). Table 4 presents well construction details and Figure 4 shows the location of the monitoring points for the expanded DDC pilot test system.

The expanded system began operation on December 5, 2002, and was monitored quarterly through the first three quarters of 2006. Samples were collected from the DDC wells, UCD1-12, UCD2-48, UCD1-49, UCD1-50 and UCD1-51 and each of the piezometers, TP-1 through TP-5 (A-zone piezometers were sampled in winter and spring, but dry in summer) and submitted for analyses of VOCs. For purposes of operation and maintenance of the DDC system, air samples are collected each sampling round from the combined air flow of all six nested DDC wells and submitted to Air Toxics Laboratory of Rancho Cordova, California, for analysis of VOCs.

In 2006, the expanded DDC pilot test system operated approximately 71 percent of the time. Temporary shutdowns of the system occurred to conduct maintenance of the system such as refitting air lines and regular maintenance of the air compressor.

3.2. RI/FS Monitoring Program

In 2006, RI/FS water monitoring activities focused on groundwater, stormwater, and surface water in addition to groundwater monitoring associated with the IRA operation. A summary of these water monitoring programs are summarized in Table 2 and described below.

3.2.1. RI/FS Groundwater Monitoring

Of the 46 wells used in this program, 22 are completed within HSU-1, 19 are completed within HSU-2, and five are completed within HSU-4. Groundwater levels are collected quarterly from 54 wells at the Site including the IRA extraction well EW2-1 and injection well IW2-1. Groundwater elevations are used to calculate gradients and estimate groundwater flow conditions. Table 4 presents monitoring well construction details and Figure 4 illustrates the well locations.

3.2.2. Stormwater Monitoring

The 2006 stormwater monitoring program consisted of three monitoring locations designated LF-1, LF-3, and LS-1. Stormwater samples are collected twice yearly: one sample is collected early in the rainy season (October through December) and the second sample is collected later, usually January through April. Locations LF-1 and LF-3 monitor stormwater discharges from UC Davis areas and are sampled by UC Davis, while the LS-1 location is sampled by DOE. Figures 4 and 5 shows the locations of these sampling points and Table 2 presents the specific analytes tested from each location.

The three sampling locations represent different portions of the Site and drain areas of varying sizes and surface conditions. For example, most of the area that drains to LS-1 is paved with asphalt, while LF-1 and LF-3 represent unpaved areas. Thus, a discharge can occur at each area at different times in the rainy season or during different storm events.

Prior to 2001, stormwater samples for metals were filtered prior to laboratory analysis. Since then, due to EPA request, unfiltered stormwater samples have been collected to assess potential water

quality impact of suspended solids as well as dissolved metal solids on stormwater samples. A discussion of stormwater sampling for 2006 is provided below.

- UC Davis observed conditions at LF-1 and LF-3 on at least 12 different days during the January 2006 through March 2006 storm events. On March 20 and November 3, 2006 samples were collected from location LF-1; however, there was no discharge from LF-3 on these dates.

- The discharge location at LF-3 drains a much smaller area than LF-1 and observations over time have shown that under most storm conditions, rainfall in this area tends to pond and infiltrate into the soil rather than produce a discharge.

- DOE collected samples at LS-1 on February 27 and December 13, 2006

3.2.3. Surface Water Monitoring

The 2006 surface water monitoring program consisted of collecting samples from three locations along the South Fork of Putah Creek which flows west to east just south of the Site. These locations are shown on Figures 4 and 5 and are designated Putah Creek upstream sampling location (PCU), Putah Creek downstream sampling location (PCD), and UC Davis sewage treatment plant outfall sampling location (STPO). The current program is intended to assess surface water quality and potential impacts upstream and downstream from Site stormwater. As such, surface water samples are only collected after stormwater are collected as discussed in Section 3.2.2. Table 2 presents the specific analytes tested for each surface water location.

Prior to 2001, surface water samples for metals were filtered prior to laboratory analysis. In 2006, raw, unfiltered surface water samples were collected to assess potential water quality impact of suspended solids as well as dissolved metals in both upstream surface water and from Site stormwater runoff.

3.3. IRA Influent/Effluent Monitoring Program

As outlined in the 2003 Comprehensive Annual Water Monitoring Report (Brown and Caldwell, 2005), the IRA monitoring program for 2006 consisted of assessing treatment system operations, IRA performance, compliance with discharge standards and evaluating potential impacts on LTPS soil and groundwater. A description of the 2006 IRA monitoring programs is provided in the following sections.

3.3.1. IRA Monitoring

The IRA treatment system monitoring program is designed to confirm that extracted groundwater is treated to remove VOCs and that effluent meets discharge standards for injection into HSU-2 groundwater and discharge standards. Injection into HSU-2 was discontinued in 2005 due to unsuccessful attempts to rehabilitate injection well IW2-1. In May 2005, the IRA effluent was diverted to the UC Davis Campus Wastewater Treatment Plant (CWTP).

During 2006, IRA treatment plant influent and effluent was sampled monthly, when operating. An exception in May 2006 occurred when the influent and effluent samples were inadvertently not collected. Effluent discharge standards and monitoring parameters are listed in Table 5, and include VOCs, TDS, radionuclides (tritium and carbon-14), metals and general chemical parameters (i.e., nitrate as nitrogen, TDS).

3.3.2. LTPS Monitoring

LTPS monitoring documents the volume and quality of treated IRA effluent used on the LTPS. LTPS monitoring also provides an assessment of soil and groundwater conditions within and beneath the LTPS surface. The purpose of LTPS monitoring is to evaluate if IRA effluent is being managed effectively and used beneficially for pasture irrigation without deleterious affects on soil or groundwater beneath the LTPS.

The volume of the water is recorded by automatic totalizing flow meters that are recorded every two weeks. IRA influent and effluent samples are collected monthly and analyzed for all regulated organic, inorganic and radionuclide constituents. In addition to effluent monitoring, composite soil samples are collected at 1, 3, and 5 feet bgs then tested for metals and other nutrient parameters. Selected groundwater wells upgradient and within the LTPS area were also monitored for Site constituents.

SECTION 4
RESULTS

This section presents the analytical results of sampling and operational data collected for the 2006 water monitoring programs discussed in Section 3.0. Complete tables of the analytical data collected during 2006 are provided in Appendix A through Appendix F. For ease of review for the specific treatment systems, Appendix A contains groundwater and soil vapor data from the DDC monitoring program, Appendix B includes operation logs for the IRA treatment plant, Appendix C contains the analytical results for the IRA treatment system influent and effluent monitoring, and Appendix D presents the analytical results for the LTPS soil and groundwater monitoring program. Surface water and stormwater data can be found in Appendix E. The combined groundwater data from all of the programs, including the DDC system and the LTPS system, is included in Appendix F. The analytical laboratory reports are maintained in the UC Davis project files.

4.1. Data Quality Assessment

This section describes the process and the results of a data quality assessment performed for all the data collected in 2006.

The quality assurance/quality control (QA/QC) procedures conducted by the analytical laboratory for sample analysis are discussed in the QAPP (Dames & Moore, 1998b). The laboratory is required to submit laboratory reports in both electronic and hardcopy formats. The electronic format is consistent with the project's electronic data deliverable format. The electronic data is then loaded into a Microsoft SQL Server database. Database verification reports are generated and compared to the laboratory hardcopy reports to confirm that results in the database match the laboratory hardcopy report.

4.1.1. Quality Assurance Objectives

Quality assurance objectives are the broad goals for data collection and review. The following quality assurance objectives are described below: precision, accuracy, representativeness, completeness, and comparability (PARCC).

- **Precision (P)**: Precision is defined as the degree of reproducibility of the measurements under a given set of conditions. Precision is documented on the basis of replicate/duplicate analyses: usually laboratory duplicate, laboratory control sample duplicates or matrix spike duplicates.

- **Accuracy (A):** Accuracy is defined as the bias in a measurement system. Accuracy is documented on the basis of recovery of surrogates, laboratory control samples, and matrix spikes.

- **Representativeness (R):** Representativeness is defined as the degree to which data represent a characteristic of a set of samples. The representativeness of the analytical data is a function of the procedures and carefulness used in procuring and processing the samples. The representativeness can be documented by the relative percent difference between separately procured, but otherwise identical sample aliquots.

- **Completeness (C):** The completeness objective for an analysis is to provide sufficient data of the acceptable quality such that the goals of the analytical project can be achieved. The overall project completeness is expressed as the percentage of planned data that is usable for its intended purpose.

- **Comparability (C):** The comparability objective is to provide analytical data for which the accuracy, precision, representativeness, completeness and detection limit are similar to these quality indicators for data generated by other laboratories for similar samples. The comparability objectives is documented by inter-laboratory studies carried out by regulatory agencies or carried out for specific projects or contracts; and by comparison of periodically generated statements of accuracy, precision and detection limits with those of other laboratories.

These PARCC data quality objectives were evaluated during the data review process. The process of data review also included a completeness check to ensure that all data has been properly loaded into the database that will be used for report generation. Data that failed to meet the data quality assurance objectives for the project have been qualified as to usability and potential low or high bias during the review process. Data was reviewed against the project specific limits provided in the QAPP. Data review followed the basic guidance provided in the National Functional Guidelines for Data Review (http://www.epa.gov/superfund/programs/clp/guidance.htm) unless the QAPP or other project specific document specified otherwise.

4.1.2. Field Quality Control Samples

Quality control samples collected during the year included trip blanks, equipment blanks and field duplicates. These samples were only collected during water sampling events.

- **Trip Blanks:** Trip blanks are used to evaluate representativeness by identifying any volatile organic compounds that may have been introduced to the samples during shipment, handling, or storage on site and at the laboratory. The trip blanks are laboratory certified clean water samples that are shipped to the field and then shipped back to the laboratory, and are never opened in the field. In 2006, there were 26 trip blanks collected for the 225 regular water samples, which is about 12 percent.

- **Equipment Blanks:** Equipment blanks are used to evaluate representativeness by identifying any potential contamination from field procedures or insufficient decontamination. Equipment blanks were prepared in the field (after decontamination of sampling equipment was complete) by collecting the final rinse water. There were four equipment blanks collected throughout the year.

- **Field Duplicates:** Field duplicates are two samples collected at the same time from the same location, and which are submitted to the laboratory as separate samples (i.e., "blind" duplicates). Field duplicate samples can be used to assess the heterogeneity of compounds within the sample matrix and the consistency of the overall sampling effort, including collection, shipping, and analysis; the purpose of submitting them "blind" is to assess the consistency or precision of the

laboratory's analytical system. Field duplicate samples were analyzed for the same parameters as the corresponding primary sample. For the 225 regular water samples, 22 field duplicates were collected, which is about 10 percent.

4.1.3. Data Review Procedures

As part of the presentation of analytical results, it is important to inform the data users of any results that failed to meet the project's Data Quality Objectives (DQOs). Laboratory data for this project was assessed through internal verification as described in the 2002 Comprehensive Water Monitoring Report (Brown and Caldwell, 2003). Laboratory results that met all the DQOs have been accepted without qualification. Results associated with quality control (QC) parameters that did not meet objectives have been qualified as estimated (J flagged) or rejected as unusable for any purpose (R flagged). Data qualified as estimated is considered usable for its intended purpose. However, the data user should be aware that the reported result may not be accurate or precise. Internal data verification was based on the same QA/QC parameters as data validation, except that raw data record reviews and recalculation of results from the raw data were not performed during verification. Verification was performed internally on the total amount of data produced. The components of data verification are presented in Table 6.

During the evaluation of the data, qualifiers were assigned, if necessary. The valid data qualifiers that were added to the data when necessary are defined below.

- **U** – Analyte not detected at the detection limit concentration.
- **J** – Reported value is an estimated concentration.
- **UJ** – Analyte not detected at an estimated detection limit concentration.
- **R** – This data was rejected and was not used for any purposes.
- **UR** – The analyte was not detected. The detection limit is unreliable and may be representative of a false negative. This data was rejected and is not usable for any purpose.

4.2. Data Quality Summary and Analytical Completeness

Individual analytical results were qualified during the data verification procedures. The percentage of results that are qualified as estimated or rejected due to QC deficiencies is an indication of the overall data quality for a given analytical method.

Water Samples. The following issues described below affected the general quality of the water data.

- **Holding Time Violations**: 36 nitrate and one chloroform result were qualified as estimated due to exceeding holding times.

- **Low Surrogate Recovery**: 28 pesticide results were qualified as estimated with a low bias, due to low surrogate recoveries.

- **Field Blank Contamination**: 149 VOC and two metal results were qualified as not detected with an estimated detection limit, due to the presence of these analytes in associated trip or equipment blanks.

- **Method Blank Contamination**: 70 results (VOCs, metals and pesticides) were qualified as not detected with an estimated detection limit, due to the presence of these compounds in associated method blanks.

- **Lab Control Spike Recovery**: 104 VOC and pesticide records were qualified as estimated due to lab control spike recovery outside the limits.

- **Matrix Spike Recovery**: 48 VOC and metals records were qualified as estimated due to matrix spike recovery outside the limits.

- **Field Duplicate Precision Issues**: 40 (20 normal and 20 field duplicate) results were qualified as estimated due to relative percent differences (RDP) outside the limits.

Table 7 provides a summary of the number of results that were qualified by method. Of the four samples analyzed for oil and grease by method E413.1, two were qualified for RPD outside the limits, which makes the percent quantitative for that method 50 percent. However, none of the oil and grease results analyzed by method SW9070 were qualified. The other two methods that had a higher percentage of qualified data is EPA 300 for anions and SW8081 for pesticides. Both results reported 21 percent of the results as qualified. Overall, the water data are of good quality. No result was rejected, and only about 4 percent of the total data is qualified as estimated. The results of this verification indicate that the data are valid for their intended purpose except as discussed for specific analytes in the following sections.

Also note, the November surface and stormwater samples were not analyzed for VOCs or nitrate due to excessive temperature levels from delayed shipment.

4.3. Expanded DDC Pilot Test Program Operations and Results

During 2006, three quarterly groundwater monitoring events were conducted to assess the performance of the expanded DDC pilot test program in February, May, and September 2006. A summary of the chloroform results collected for each of the sampling rounds is presented in Table 9. Complete analytical results for the DDC system are included in Appendix C.

4.3.1. DDC Operations

The DDC operations summaries for 2006 are presented in Tables 10 and 11. The expanded DDC pilot test system operated approximately 71 percent of the time during 2006 (Table 10). Operations monitoring for the DDC system consisted of air monitoring from all operating DDC wells, water levels collected from the piezometers attached to each DDC well, and VOC testing conducted for water samples collected from each of the operating DDC wells. Appendix A presents the VOC analytical results for samples collected from the DDC piezometers.

An estimate of the chloroform mass removed is calculated by using chloroform concentrations and water level measurements from the DDC C-zone piezometers both during operation and when the

system is shut down. As discussed in the System Summary Report (Brown and Caldwell, 2005), the DDC well is in effect an air-lift recirculating well whereby water from the lower screen (C zone) is extracted and injected into the upper screen (A zone or B zone). Therefore, the difference in the C zone water level when the DDC well is off versus when it is operating represents the drawdown during pumping. This value combined with the difference in chloroform concentrations between the B zone and C zone piezometers and the specific capacity (units of gallons per minute [gpm] per foot of drawdown) for HSU-1 obtained during a pumping test on UCD1-12 (Dames & Moore, 1999b) can be used to estimate the chloroform mass removed. The calculations for this mass removal for 2006 are presented in Table 10. In 2006 an estimated 29.4 pounds of chloroform were removed (Table 10). This amount brings the total estimated amount of chloroform removed since startup of the DDC pilot test system to approximately 227 pounds.

As discussed in the System Summary Report for the expanded DDC system pilot test (Brown and Caldwell, 2005), operation of this system also hydraulically controls the mass flux of chloroform between HSU-1 and HSU-2. Further evidence for this hydraulic control was obtained during 2006 as a result of a brief shutdown of the system from December 2005 to February 2006 for maintenance. For the February 2006 sample collected from HSU-2 well UCD2-48, the chloroform concentration was reported at 1,380 μg/L. This well was installed as part of the DDC system to monitor VOCs directly below the source area in HSU-1 and since startup has reported concentrations of chloroform below 15 μg/L. After restarting the DDC system in March 2006, the reported concentration of chloroform for this well in the sample collected in August 2006 was 11.4 μg/L. These results demonstrate that operation of this system hydraulically controls the mass flux of VOCs from HSU-1 to HSU-2. Efficiencies in separation are adjusted during monthly operations and maintenance of the DDC system.

4.3.2. DDC Monitoring Results

The effectiveness of the DDC system in reducing groundwater VOC concentrations is monitored by sampling the five nested piezometers, TP-1 through TP-5, HSU-1 wells UCD1-12 and UCD1-49 through UCD1-51, and HSU-2 well UCD2-48. Groundwater samples were submitted for analysis of VOCs. Table 11 presents the sampling results of detected VOCs from the DDC system

monitoring during 2006. Chloroform was reported in all samples collected from the DDC monitoring system ranging from 0.739 µg/L (DDC-5A in February 2006) to 2,900 µg/L (DDC-1C in August 2006). A total of 16 other VOCs were also detected at lower levels, including 1,1,2-trichloroethane (1,1,2-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), 1,2- DCA, 1,2-dichloropropane (1,2-DCP), acetone, chloromethane, methyl ethyl ketone (MEK), methylene chloride, tetrachloroethylene (PCE), and trichloroethylene (TCE). Complete analytical results for the DDC system are included in Appendix A.

4.4. IRA Influent/Effluent Monitoring Results

Data collected for the groundwater IRA system includes 2006 operation data, IRA influent and effluent water quality monitoring results, and LTPS soil monitoring results. Each of these data sets is described below.

4.4.1. Groundwater IRA Operations

In 2006, the groundwater IRA extracted and treated more chloroform in HSU-2 since 2000 (13.4 pounds of chloroform in 2006), despite maintaining a relatively low extraction rate (Table 12). In 2006, chloroform concentrations exceeded 100 µg/L for both June and July; the highest VOC levels observed since the IRA was initiated in 1998. The IRA operated with few unanticipated problems in 2006 and operated approximately 88% of the time throughout the year. These results combined with the low reported chloroform concentrations in downgradient wells UCD2-30 and UCD2-40 support the operation of EW2-1 at the lower extraction rates.

The IRA Operations Summary for 2006 is presented in Table 13 and detailed operations logs are provided in Appendix B. The influent and effluent monitoring results are presented in Appendix C and Figure C-1 shows influent and effluent sampling locations. A summary of the monthly 2006 IRA extraction and LTPS application rates are presented in Table 13.

In July 2006, the air stripper was completely disassembled and over 50 pounds of calcium carbonate scale was manually removed from the system. The presence of this scaling results in lower operating blower pressures of the air stripper. Removing the scale significantly improved airflow, but minor

breakthroughs of chloroform in the effluent, as observed in July and August, were associated with startup problems. Other IRA minor system shutdowns that occurred during 2006 were caused by power failures, repair of intake screen, high air stripper sump level, and routine maintenance.

4.4.2. Groundwater IRA Influent/Effluent Monitoring

During 2006, monthly influent and effluent samples were collected while the IRA system was in operation (with the exception of May). Collection of the May 2006 sample was inadvertently missed. The complete analytical results of influent and effluent water quality monitoring are presented in Appendix C.

IRA Effluent Compliance with Discharge Standards for Irrigation. All IRA influent and effluent analytical monitoring data for 2006 are presented in Appendix C. Effluent met discharge standards for land treatment during 2006 with the following exceptions (also summarized in Table 13).

- **Acetone and carbon disulfide**– Acetone was reported in the November 2006 IRA effluent at a concentration of 5.07 μg/L. Carbon disulfide was reported in the July 2006 effluent sample at a concentration of 1.86 μg/L. Both of these constituents were not reported in the corresponding influent samples. Therefore, the presence of these compounds in the effluent and not in the influent is suspect.

- **Chloroform**– Chloroform was reported at 1.11 μg/L to 15.8 μg/L in effluent samples for June 2006 through August 2006 and October 2006, above the LTPS effluent discharge standard of less than 0.5 ug/L. The IRA system was shutdown in June and July 2006 due to blower failure. The presence of chloroform in effluent in July and August were due to sampling the system shortly after the system was reassembled. In October 2006, a power failure occurred that required a delay in the restart of the system. The effluent sample taken was shortly after restart and a low concentration of chloroform was reported in the effluent (1.11 μg/L).

4.4.3. LTPS Operations

As shown on Table 13, the monthly irrigation volume varied from 0 gallons (April 2006) to 1,172,603 gallons (September 2006) per month for 2006

4.4.4. LTPS Soil Analytical Results

To assess any potential deleterious affects of IRA effluent on LTPS soil quality, UC Davis has implemented a soil monitoring program for the LTPS since 2000. As described in more detail in the Land Treatment Pilot Study Work Plan (LTPS Work Plan) (Montgomery Watson, 2000), UC Davis sampled and analyzed a comprehensive list of analytes in soil prior to and following application of treated IRA effluent irrigation water. The baseline soil data was collected in 2000 and the same soil sample locations were resampled following startup of the LTPS in 2003, with samples collected in late 2003, 2004, 2005, and 2006.

2006 LTPS Soils Results. In December 2006, six composite soil samples were collected from the same LTPS baseline locations sampled prior to initial irrigation in October 2000. These samples were collected to evaluate the effect of the discharged IRA groundwater on LTPS soil quality. As proposed in the LTPS Work Plan (Montgomery Watson, 2000), composite soil samples were collected with hand auger equipment from 1 feet below ground surface (bgs), 3 feet bgs and 5 feet bgs at the locations shown on Figure 6. All LTPS soil samples were analyzed for metals, pH, salts, and total organic carbon; complete soil sample results are provided in Appendix D. Table 14 presents the results of statistical tests between the 2006 results compared to the baseline data collected in October 2000, prior to LTPS irrigation. Table 14 also presents the average, the upper 95 percent confidence limit (UCL) concentrations in addition to parametric ("t-test") and non-parametric ("sign test") statistical comparisons between the 2006 and the 2000 data. The purpose of statistical comparisons is to evaluate significant changes in LTPS soil metals, salts and organic analytes resulting from IRA effluent used as irrigation water between 2000 and 2006.

There were no statistically significant changes in 2006 for chromium, cadmium, or selenium at 1, 3 or 5 feet bgs. Other metals including arsenic, barium, copper, lead, and nickel showed a slight but significant increased concentration at one or more sampling intervals. Outlier sample results for

both arsenic (at 5 feet bgs) and lead (at 5 feet bgs) were observed in 2006. These two samples reported concentrations over three times any previous level observed for any soil sample collected in the LTPS from 2000 to 2006. However, these two results were not rejected as outliers, but included in the statistical analysis and resulted in an apparent increase for these metals. Based on the fate and transport of these metals, application of LTPS irrigation water could not have resulted in soil arsenic or lead concentration of over 40 mg/kg (as reported by the laboratory) while soil samples at 1 and 3 feet bgs at the same location were reported at less than 10 mg/kg.

In 2006, zinc, a common constituent of fertilizer, showed statistically higher concentrations in soil compared to baseline concentrations measured in 2000. Concentrations of mercury showed statistically significant decreases in concentration for one or more soil sampling depths.

As expected, total nitrogen, sulfate, and zinc, showed a statistical increase in 2006 compared to baseline 2000 samples. Animal waste or fertilizer application to the pastures could easily explain these slight, but statistically significant increases. TOC also increased slightly at 5 feet bgs. Nitrate, ammonium and chloride concentrations in soils declined in 2006 compared to baseline levels because application of irrigation water encourage plant uptake of these ions.

Summary of LTPS Soil Results - 2000 to 2006. Table 15 presents a summary of previous statistical comparisons between the baseline 2000 soil data and 2003 through 2006 soil analytical data. The soil metals data compared to baseline show no consistent concentration trend (neither increase nor decrease) over time, with the exception of zinc, which is a plant and animal nutrient that may be increasing because of its trace concentrations in fertilizer or animal waste.

In any given year, soil metals analyses may show slight but statistically significant trends for either parametric or non-parametric statistical test due to natural heterogeneity inherent in metal concentrations in soils. For example, barium concentration declined statistically in 2003, were unchanged in 2004, and were statistically higher in 2006, despite a decline in the 95 percent UCL in 2005 (3 and 5 feet bgs) compared to 2000 baseline data (Table 14). This is only possible because the baseline 2000 barium data was more variable than the 2006 data.

Increases or decreases in LTPS soil constituent concentrations may be due to analytical bias, spatial variability or uptake by pasture grasses. Appendix C presents the analytical results of the IRA effluent. These effluent data show that IRA effluent applied as irrigation to the 2.5 acre IRA constitutes a very small mass of any constituent compared to the mass of soil in the upper foot of the 2.5 acre LTPS.

To assess the effect of metals loading onto the LTPS soils from effluent, the mass of each metal applied as irrigation water from 2003 through 2006 was compared to soil concentrations present in the upper 1 foot of soil prior to effluent application in 2000. Based on this analysis, effluent loading of all metals except for barium and selenium was less than 1 percent of the total concentration present in baseline 2000 data prior to effluent application. Barium (effluent loading from 2003-2006 was approximately 3 percent of baseline soil concentration) and selenium (just over 1 percent of baseline soil content) in IRA effluent are not elevated when compared to background groundwater concentrations, therefore irrigation with any groundwater source would have the same affect on LTPS soil.

4.4.5. LTPS Groundwater Monitoring Beneath the LTPS

Table 16 summarizes HSU-1 groundwater data collected from HSU-1 wells beneath the LTPS and analyzed for metals and inorganic salts. Complete analytical results are presented in Appendix D. Table 16 presents concentrations in HSU-1 for LTPS wells UCD1-25, UCD1-28 and the multiple-screen wells UCD2-27Z1, UCD2-27Z2 and UCD2-27Z3. Table 16 also provides concentrations for site background wells UCD1-18 and the closest HSU-1 well upgradient of the LTPS, UCD1-11.

The groundwater data presented in Table 16 indicate that metal concentrations remained within historical ranges in 2006. Salts (sulfate and chloride, TDS) concentrations in wells beneath the LTPS have stabilized or decreased in concentration since irrigation of the LTPS began in 2003. LTPS groundwater results in Appendix D combined with LTPS soil data in Table 14 and Table 15 and effluent data presented in Appendix C support the conclusion that IRA effluent has had little if any deleterious effects on LTPS soil or groundwater quality between 2000 and 2006.

4.5. RI/FS Groundwater Elevation Results

Groundwater elevations were measured for HSU-1 wells, HSU-2 wells, HSU-4 wells, extraction well EW2-1, and injection well IW2-1 on a monthly schedule in 2006. Due to inadvertent mistakes because of changes in staff and the loss of data, water levels are not available for some HSU-1 and HSU-2 wells in February 2006 and May 2006, and all of the water levels for the HSU-4 wells were lost in February 2006. Groundwater elevations for 2006 are presented in Table 17, and quarterly groundwater elevation graphs and contour maps are presented on Figures 7 through 10. In general, groundwater elevations and trends were consistent with historical data.

4.5.1. Horizontal Groundwater Flow and Gradients

Horizontal groundwater gradients during 2006 ranged from 0.004 feet/foot to 0.01 feet/foot for HSU-1, 0.0004 feet/foot to 0.001 feet/foot for HSU-2, and 0.004 feet/foot to 0.003 feet/foot for HSU-4 (Table 18). Gradients were generally steeper during the spring and the flattest during the fall for all three HSUs. Groundwater flow in HSU-1 was generally to the north-northeast. Groundwater flow in HSU-2 was predominately to the northeast, with the fourth quarter turning east-northeast. Groundwater flow in HSU-4 was to the northeast in the summer and east-northeast in the fall. Previous years indicate groundwater flow in HSU-4 to be northeast in the winter through summer, changing to the east in the fall. All of these flow directions in the HSUs are consistent with historical patterns.

4.5.2. Vertical Groundwater Gradients

Vertical groundwater gradients were evaluated using data from well pairs between HSU-1/HSU-2 and HSU-2/HSU-4. Vertical groundwater gradients for 2006 based on well pairs between HSU-1/HSU-2 and HSU-2/HSU-4 are shown in Table 19. The gradient between HSU-1 and HSU-2 ranged between a downward gradient of 0.0289 feet/foot and an upward gradient of 0.113 feet/foot. Upward vertical gradients between HSU-1 and HSU-2 were most prevalent in May 2006. The gradient between HSU-2 and HSU-4 were mostly downward with a range of 0.0028 feet/foot 0.0488 feet/foot with a upward gradient measured in May 2006 of 0.0026 feet/foot.

Figure 7 illustrates that changes in water levels during the pumping season (i.e., May through August) were distinctly greater between HSU-2 and HSU-4 than between HSU-1 and HSU-2. This pattern has been seen every year since HSU-4 well pairs were installed in 1997. This distinct difference in response to pumping changes between the two HSUs, combined with the hydrogeologic interpretation presented in Section 2.3, suggests that HSU-2 and HSU-4 are not hydraulically connected. As an example, on August 22, 2006, the difference in water levels between HSU-1 and HSU-2 wells UCD1-13 and UCD2-14 was 1.11 feet (downward gradient of 0.0.0489 feet/foot), and the water level difference between HSU-2 and HSU-4 wells UCD2-29 and UCD4-44 was approximately 7.06 feet (downward gradient of 0.0418 feet/foot).

4.6. RI/FS and Expanded DDC Pilot Test Groundwater Monitoring Results

This section presents a summary of analytical results of the six primary COCs for groundwater samples collected for the RI/FS and IRA. Stormwater and surface water samples collected as part of this RI/FS monitoring program are discussed in Section 4.7 and Section 4.8, respectively. The groundwater samples collected from the DDC wells are also included in the discussion for this section. Groundwater analytical data for the Site during 2006 are presented in Appendix F. The lateral distribution of the six primary COCs for 2006 in HSU-1 and HSU-2 are shown in Figures 11 through 22. Selected time versus concentration graphs for HSU-1 and HSU-2 are presented in Figures 23 through 28, and Figure 29 includes concentration versus time graphs for HSU-4.

DOE sampled 10 wells from June 13, 2006 to June 15, 2006 for various VOCs, metals, radionuclides, nitrate, pesticides, and formaldehyde. The results from samples collected by DOE are provided in Appendix G but are discussed in the DOE Draft FS Report (DOE, 2006). Groundwater monitoring results for the RI/FS is discussed in the following subsections.

4.6.1. Volatile Organic Compounds

The primary VOC detected in groundwater samples during 2006, and previous monitoring results, is chloroform. Chloroform was detected above the contract-required detection limit (CRDL) in 30 of the 48 wells monitored from the RI/FS and IRA groundwater monitoring programs ranging in

concentration from 0.543 μg/L (UCD2-046 in June 2006) to 1,380 μg/L (in DDC well UCD2-048 in February 2006). In addition to chloroform, twelve other VOCs were reported at concentrations above the CRDL during 2006: acetone, 1,1-DCA, 1,2-DCA, 1,1-DCE, 1,2-DCP, PCE, 1,1,2-TCA, TCE, carbon disulfide, bromoform, methlyene chloride, and MEK. It should be noted that the highest chloroform concentrations were detected in the DDC wells as part of the DDC monitoring system as discussed in Section 4.2.

Acetone detections both inside and outside the chloroform source area continue to occur sporadically in all HSU's. Because acetone is a common laboratory artifact that has been confirmed in 2006 trip and laboratory method blanks, many of these sporadic detections are considered to be highly suspect and low level concentrations may be false positives.

A summary of VOC results within each of the HSUs is presented in the following paragraphs.

HSU-1. During 2006, 24 HSU-1 wells were monitored for VOCs. Chloroform was detected in 18 of these wells. Nine other VOCs were detected throughout the year only in the DDC treatment area wells.

In DDC treatment area wells, chloroform results ranged from 1.05 μg/L (in DDC5-B on 9/5/06) to 1370 μg/L (in TP4-C on 9/6/06). Other VOCs reported in DDC wells included bromoform, carbon disulfide, 1,1-DCA, 1,1-DCE, 1,2-DCA, 1,1,2-TCA, 1,2-DCP, TCE and PCE. Concentrations ranged between 0.521μg/L TCE (in TP-3 on 5/9/06) and 20.3 μg/L 1,1-DCA (in UCD1-051 on 2/3/06). As discussed above, some acetone results are considered suspect. Although there were many acetone results with detected low concentrations below its CRDL of 5 μg/L, of 138 analyses completed for acetone in HSU-1 during 2006, only 2 were above the CRDL. One result of 7800 μg/L in DDC-2B on 5/9/06 was clearly an outlier and not consistent with other results for that well or nearby wells that day (all below CRDL), nor for previous or subsequent results for that well.

Three HSU-1 wells located outside of the DDC area (UCD1-11, UCD1-25, and UCD1-52) had detections of chloroform. In these wells, chloroform levels remained below 5 μg/L during 2006.

Chloroform isoconcentration contours in HSU-1 for May-June 2006 are presented in Figure 11.

HSU-2. During the RI/FS and IRA 2006 groundwater monitoring programs, chloroform was detected in nine HSU-2 wells downgradient of the source area, ranging from 0.542 μg/L in UCD2-46 in June (duplicate was 0.483 μg/L) to 1380 μg/L in UCD2-48 in February, after the DDC system had been off for the previous 2 months. Results in UCD2-48 decreased to 2.3 μg/L by the next quarter sampling in May after the DDC system was restarted.

When the IRA groundwater treatment system is extracting groundwater, VOCs are pulled toward the monitoring wells close to the extraction well. Based on IRA function, fluctuations during 2006 were seen in monitoring wells UCD2-29 (67.1 μg/L in May to 267 μg/L in Aug) and UCD2-30 (1.94 μg/L in May to 91.8 μg/L in Aug). Four other VOCs consistently reported in source area monitoring well UCD2-48 were also seen during 2006 in IRA area wells UCD2-29 and UCD2-30. These VOCs include 1,1-DCA, 1,1-DCE, 1,2-DCA, and 1,2-DCP; with all 2006 results below 2.5 μg/L in UCD2-30 and below 3.5 μg/L in UCD 2-29.

A few other VOCs were sporadically detected during 2006 at low levels (just above CRDL) in HSU-2 wells. Bromoform was detected in May in background well UCD2-17 at 1.68 μg/L and in UCD2-30 at 1.38 μg/L. Carbon disulfide was detected in the July sample and duplicate from UCD2-30 at 2.72 μg/L and 1.05 (these results were qualified as estimated due to lab spike recovery outside of limits). One acetone detection in UCD2-40 in May was just over the CRDL at 6 μg/L. In February, two other VOCs were detected in DDC area monitoring well UCD2-48 (PCE at 2.12 μg/L and TCE at 1.01 μg/L).

Chloroform isoconcentration contours in HSU-2 for May/June 2006 are presented on Figure 17.

HSU-4. During the RI/FS and IRA 2006 groundwater monitoring programs, chloroform is the only VOC reported above the CRDL in groundwater samples collected from the HSU-4 wells. Chloroform was detected above the CRDL in three of the five HSU-4 wells: UCD4-42, UCD4-43, and UCD4-47 at concentrations ranging from 1.11 μg/L (UCD4-43 on May 24, 2006) to 4.2 μg/L (UCD4-42 on May 24, 2006). Figure 29 illustrates select HSU-4 wells chloroform concentrations over time and that recent concentrations are within historical values.

4.6.2. Chromium, Nitrate as Nitrogen, and Total Dissolved Solids

Figures 12 through 14 (HSU-1) and 18 through 20 (HSU-2) show isoconcentrations for chromium, nitrate as nitrogen, and TDS. Figures 24 through 26 and Figure 29 show graphs of these constituent concentrations over time in selected wells. As seen on these figures and in Appendix F, the 2006 results for these constituents are consistent with previous results.

4.6.3. Carbon-14 and Tritium

Carbon-14 and tritium have been detected during historical monitoring activities on Site. In 1999, the Waste Burial Hole Removal Action removed waste buried on the Site that was indicated to be the source of carbon-14 and tritium found in groundwater. At the end of 2001, results for radiological constituents in the HSU-2 (UCD2-14) well downgradient of this source area indicated decreased concentrations. Overall, carbon-14 and tritium concentrations have continued to decrease through 2006.

Carbon-14. Although the distribution of carbon-14 on the Site is similar to that of tritium (particularly in HSU-1), the concentrations of carbon-14 have historically been significantly lower than concentrations of tritium.

HSU-1. Carbon-14 was detected in four of the 23 HSU-1 wells sampled during 2006. All four wells with detected concentrations are in the DDC area. These detections are consistent with results from 2005, and ranged from 23.8 +/- 9.19 picoCuries per liter (pCi/L) in UCD1-49 (May 17, 2006) to 84.6 +/- 8.76 pCi/L in UCD1-50 (June 2, 2006). See Figure 15 for carbon-14 isoconcentration contours in HSU-1 in May/June 2006 and Figure 27 for graphs of carbon-14 concentrations over time in selected wells. Note, UCD1-13 has historically reported the highest concentrations of Carbon-14 in HSU-1 but was not sampled during 2006. The last reported value of Carbon-14 for this well was 687 pCi/L for the sample collected on May 23, 2005. This well is the HSU-1 well pair to UCD2-14 that was sampled during 2006 as discussed below. UCD1-13 will be returned to the sampling program of calendar year 2007.

HSU-2. After groundwater monitoring began in 1990, carbon-14 had been consistently detected in UCD2-14 (near the Waste Burial Holes), at concentrations near 1000 pCi/L. Over the past 3 years, carbon-14 concentrations are averaging 160 pCi/L. During 2006, carbon-14 in this well was reported at 156 +/- 12.4 pCi/L on May 18. See Figure 21 for carbon-14 isoconcentration contours in HSU-2 during May/June 2006.

HSU-4. In 2006, carbon-14 was not detected in HSU-4 wells at concentrations above the CRDL Selected HSU-4 wells illustrate these results on Figure 29.

Tritium. Consistent detections of tritium have been reported in only two wells, UCD1-13 and UCD2-14, while low sporadic results have been historically reported in other Site wells. In 2006, tritium samples were inadvertently not collected in UCD1-013 and tritium concentrations in UCD2-14 were below the CRDL. Tritium was reported above the CRDL in 2 samples during 2006, in UCD2-38 (393 +/- 190 pCi/L) on May 19 and in UCD1-52 at 1730 +/- 197 pCi/L on June 1.

HSU-1. Tritium was detected above the CRDL in UCD1-52 for the first time at a concentration of 1730 +/- 197 pCi/L on June 1 which was the last sample collected for this well. All previous results for this well were below the CRDL. The next sample collection scheduled for this well is in Winter 2007.

Historically, the highest concentrations of tritium are found in UCD1-13. UCD1-13 was not sampled this year for tritium due to an oversight in the sampling program. However, this well will be returned to the sampling program for 2007. Past results indicate tritium concentrations in UCD1-13 to be consistently below 8,000 pCi/L since 2003. See Figure 16 for tritium isoconcentration contours in HSU-1 for May/June 2006, and Figure 28 for a graph of tritium over time in selected wells.

HSU-2. Of the nineteen HSU-2 wells monitored in 2006, tritium was only detected above the CDRL in UCD2-38. UCD2-38 had a reported estimated concentration of 393 +/- 190 pCi/L on May 19. It is unlikely that the true result is above background, since this well is upgradient to the site, and previous results have not detected tritium in this well. See Figures 22a and 22b for tritium isoconcentration contours in HSU-2 during 2006. In recent years, UCD2-14 reported tritium

concentrations averaging around 1,000 pCi/L. For the past two years, tritium concentrations have been below the CRDL of 300 pCi/L (Figure 28). This indicates that the majority of the source of tritium was removed during the waste burial hole removal action completed in 2000.

HSU-4. In 2006, tritium was not detected in HSU-4 wells at concentrations above the CRDL. Selected HSU-4 wells illustrate these results on Figure 29.

4.7. Stormwater Monitoring Results

Landfill Areas. Stormwater samples were collected from location LF-1 on March 20 and November 3, 2006. As discussed in Section 3.2.2, both LF-1 and LF-3 stormwater sampling locations were observed during numerous storms throughout the rainy season. On March 20, 2006 a sample was collected from location LF-1; however, flow stopped before the aquatic toxicity samples could be collected. There was no discharge from LF-3 on this date. During the next storm event on April 4, 2006, aquatic toxicity samples were collected at LF-1 for Pimephales species with no toxicity and 100% survival of the target species (Pimephales, flathead minnow). The Fall 2006 aquatic toxicity sample again indicated 100% survival.

LF-1 samples were analyzed for field parameters, acute aquatic toxicity, metals, nitrate as nitrogen, oil and grease, pesticides and polychlorinated biphenyls (PCBs), radionuclides, TDS, TOC, total suspended solids (TSS), and VOCs. Of the compounds analyzed, LF-1 had detections above the CRDL for metals, nitrate as nitrogen, TOC, TDS, and TSS as shown in Appendix E. All of the compounds were within the historical ranges. Due to a delayed shipment, stormwater VOC and nitrate samples collected in November were received by the lab at 9°C and therefore results for these samples were not analyzed.

Lift Station. Stormwater sample location LS-1 was sampled by the DOE contractor on February 27 and December 13, 2006. The LS-1 samples were analyzed for acute aquatic toxicity, metals, nitrate as nitrogen, pesticides and PCBs, radionuclides, TOC, TSS, and VOCs. At this location, metals, nitrate as nitrogen, TDS, TOC, TSS, VOC (acetone) and pesticides (chlordane in duplicate sample only) were reported above their respective CRDLs (Appendix E).

A sample and duplicate for acute aquatic toxicity were collected in LS-1 on February 27, 2006. No acute toxicity was indicated in the February sample.

4.8. Surface Water Monitoring Results

A surface water sample was collected from three locations (PCU, PCD, and STPO) on March 21 and November 3, 2006 corresponding to the sample dates for collection of the stormwater samples. Each surface water sample location was sampled for field parameters, metals, nitrate as nitrogen, chronic aquatic toxicity (PCU and PCD only), pesticides and PCBs, radionuclides, TDS, and VOCs. Due to a delayed shipment, surface water samples for VOC and nitrate collected in November were received by the lab at 9°C. Therefore, results for these samples were not analyzed. All monitoring results for surface water samples are presented in Appendix E.

No VOCs, radionuclides, pesticides, or PCBs were detected in 2006 surface water samples. Only nitrate as nitrogen, metals, and TDS were reported above the CRDLs. Nitrate as nitrogen was reported at concentrations ranging from 0.167 milligrams per liter (mg/L) at PCU to 8.25 mg/L at STPO on March 21, 2006. TDS was reported at concentrations ranging from 161 mg/L at PCD to 599 mg/L at STPO on March 21, 2006 and 313 to 549 mg/l on November 3, 2006. The metals reported were barium, boron, iron, manganese, molybdenum, vanadium, and zinc.

Samples for chronic aquatic toxicity were collected on March 21 and November 3, 2006 for the PCU and PCD locations. The Fall samples indicated no toxicity at either location. In the winter samples, results for two species (ceriodaphnia and selenastrium) at both locations indicated no toxicity at 100% sample concentration. For the Pimephales species, results for the PCD sample indicated no toxicity for growth in the 100% sample concentration. In the winter samples, the No Observed Effect Concentration (NOEC) for Pimephales survival was 50% in both PCD and PCU locations. The NOEC for growth was 50% in the PCU location. These results indicate similar Pimephales survival in samples from upstream and downstream locations, although growth results were better in the downstream location.

SECTION 5
ASSESSMENT OF MONITORING PROGRAMS

As discussed in Section 1, specific goals and objectives have been established for the various water monitoring programs conducted at the Site. The primary objective of this section is to assess the results obtained from each of these programs with respect to meeting these objectives.

5.1. Expanded DDC Pilot Test Program Performance

The objective for the continued monitoring of the Expanded DDC system for 2006 was to further assess the following items described below.

- The limits of the circulation cell developed by the DDC system.
- The mass removal of chloroform from HSU-1.
- The system's effect on the mass transfer of chloroform from HSU-1 to the underlying more permeable HSU-2.

Startup of the expanded DDC pilot test system began on December 5, 2002. The DDC system was monitored for three quarters during 2006 and results were discussed in Section 4.3.

5.1.1. Extent of Circulation Cell

As discussed in DDC System Summary Report (Brown and Caldwell, 2005), based on the observance of water level changes versus chloroform concentration changes in wells monitored for the expanded DDC system, the circulation cells developed by the DDC wells extend at least 30 feet in the areas of monitoring wells UCD1-49, and UCD1-50. As shown on Figure 30, this effect continued to be observed during 2006, whereby chloroform concentrations reported for these wells continue to be lower than concentrations reported during baseline sampling conducted before startup of the expanded DDC system. In addition, 2006 reported chloroform concentrations for UCD1-51 also show a decreasing trend, suggesting the effects of the DDC system are extending to this area.

5.1.2. Chloroform Mass Removal

During 2006, the expanded DDC pilot test system removed approximately 29 pounds of chloroform from the HSU-1 system (see Section 4.3.1 and Table 10). In 2006, DDC-1, located at the center of the system, removed nearly 12 pounds of chloroform mass. A significant mass was also removed from DDC-5 (approximately 16 pounds) located in the northeast portion of the system. A detailed analysis of the overall effects of the chloroform mass removal from this system will be included as part of the Feasibility Study for assessing remedial alternatives for the groundwater operable unit.

5.1.3. Mass Transfer of Chloroform from HSU-1 to HSU-2

As discussed in Section 4.3.1, 2006 chloroform concentrations in the HSU-2 monitoring well, UCD2-48, were below 15 μg/L with the exception of the February 2006 sample when the DDC system was down for maintenance. The reported concentration for the sample collected in February 2006 was 1,380 μg/L. After restarting the DDC system in March 2006, the reported concentration of chloroform for this well in the sample collected in May 2006 was 2.3 μg/L. These results demonstrate that operation of this system hydraulically controls the mass flux of VOCs from HSU-1 to HSU-2.

5.2. RI/FS Water Monitoring Program Performance

The objective of the RI/FS and IRA Groundwater Monitoring are to answer the following question: Have unexpected changes in Site groundwater, surface water, or stormwater occurred that warrant changes to the program. The monitoring programs designed to accomplish this objective during 2006 are described in Section 3.2. This section presents an assessment of the groundwater, stormwater, and surface water monitoring programs in meeting this objective.

5.2.1. Groundwater Monitoring

The results of the 2006 groundwater monitoring program are discussed in Section 4.5. As shown in this section and illustrated on the isoconcentration maps, with the exception of tritium in HSU-1 well UCD1-52, the spatial distribution of the six target constituents have remained stable during the past year. As discussed in Section 4.6.3, tritium was reported in the last sample collected from UCD1-52 at 1,730 pCi/L. All other samples collected from this well reported tritium levels below the CRDL. The next scheduled sampling event for this well is in Winter 2007. Reported concentrations for the other target constituents remained relatively stable during 2006.

5.2.2. Stormwater Monitoring

The results of the 2006 stormwater monitoring program are discussed in Section 4.6. Reported detections of analyzed constituents were between the historical average and the historical maximum. Based on these results, no unexpected changes occurred during 2006.

5.2.3. Surface Water Monitoring

The results of the 2006 surface water monitoring program are discussed in Section 4.7. The detections for TDS and nitrate as nitrogen were between the historical average and the historical maximum and the reported metal detections for the upstream sample, PCU, were similar to those reported for the downstream sample, PCD. Based on these results, no unexpected changes occurred during 2006.

5.3. IRA Influent/Effluent Monitoring Program Performance

This section discusses the performance of the groundwater IRA and LTPS systems. This section also provides technical assessment of the efficiency of the groundwater IRA in meeting original design objectives.

5.3.1. Background – Groundwater IRA/LTPS

The groundwater IRA system was originally designed as an interim action prior to development of final remedial actions for Site groundwater. As discussed in the original design documents (Dames & Moore, 1997a), the groundwater IRA system was designed to treat VOCs, primarily chloroform. The original design of the groundwater IRA system was to minimize off-site migration of chloroform in HSU-2, by extracting and treating impacted groundwater prior to injection upgradient of the extraction well. Since there were continued problems with insufficient injection well capacity, injection of treated groundwater was suspended in 2005 with the effluent from the IRA system diverted into the CWTP in mid May 2005.

The groundwater IRA system has been operating nearly nine years, since May 1998. Since the startup of the IRA, approximately 120 pounds of chloroform in HSU-2 have been treated and prevented from migrating off-site (Table 12). Also since 2000, VOC source treatment in HSU-1 (DDC Pilot Study) has been implemented and recently expanded in late 2002. Historical chloroform concentrations in HSU-2 for selected HSU-2 monitoring wells have been plotted on Figure 31. Monthly groundwater extraction rates have also been included on these plots to help visualize the effect of groundwater extraction on chloroform concentrations.

In 2006, chloroform concentrations appear to be stable in downgradient and off-site wells UCD2-40, UCD 2-32, UCD 2-45 and UCD 2-46. As shown by chloroform concentrations in off-site wells, downgradient wells UCD2-45 and UCD2-46 are at or near non-detectable levels of chloroform in 2006.

5.4. Groundwater IRA Performance in 2006

The performance of the groundwater IRA may be evaluated in several ways including:

1. Percentage of the time the IRA system was operating;
2. Chloroform mass removal;
3. Containment of off-site VOC migration in HSU-2; and
4. Attainment of effluent discharge standards.

In regards to items 1 and 2 cited above, the IRA operated as expected in 2006 (89 percent uptime). In 2006, the average groundwater extraction rate of the IRA system was approximately 56 gpm. This extraction rate was higher than the 2004 and 2005 extraction rates, resulting in the removal of 13.4 pounds of chloroform, the highest since 2000.

Attainment of effluent discharge standards (item 3) and reduction of off-site migration (item 4) are linked. During 1998 to 2000, when the IRA extraction rate was 120 gpm to 180 gpm, off-site migration of chloroform was virtually eliminated, but the downward migration of salts increased. When extraction rates were reduced in 2002, effluent nitrate as nitrogen and TDS concentrations had declined to discharge standards or frequently lower, while chloroform capture rates were effectively maintained.

A capture zone analysis for the IRA was performed in 2004 (Brown & Caldwell, 2005). This analysis demonstrated that the chloroform plume in HSU-2 can be controlled by varying the monthly extraction rate from 40 to 90 gpm. As extraction rate declined for various reasons from the period from 2002 to 2006, control of the HSU-2 chloroform plume has been maintained and effluent nitrate-nitrogen and TDS concentrations have significantly declined from 1998 to 2000 levels.

5.4.1. LTPS Operations

A total of 3.0 million gallons or 10 percent of the groundwater treated by the IRA in 2006 was re-used for LTPS irrigation. The use of treated IRA effluent as irrigation water is limited by the small area (2.6 acres of pasture) currently included in the LTPS. If the land treatment option is accepted and expanded, approximately 24 to 30 acres would be required to utilize all IRA effluent for pasture production during the irrigation season, April to October.

Based on the LTPS effluent standards, the LTPS soil monitoring program and the LTPS groundwater evaluation described above in Section 4, no adverse effects have been observed reusing extracted HSU-2 groundwater after treatment for VOCs in the LTPS. The LTPS has been operating successfully for nearly four years and this discharge alternative should be considered in the upcoming UC Davis FS.

SECTION 6
GROUNDWATER MONITORING OPTIMIZATION ASSESSMENT

The 2006 groundwater monitoring program was primarily a product of pre-existing monitoring programs developed in the late 1980's for Site characterization purposes which are now complete. With over fifty monitoring wells, monthly water levels and quarterly water quality data since the early 1990's, Site characterization for the purposes of the RI is complete. The body of groundwater quality data supplemented with Hydropunch™ and aquifer testing has yielded sufficient data to characterize impacts, successfully design and operate interim removal actions and pilot studies for the treatment of Site groundwater, characterize risks and identify preliminary remedial action alternatives. In August 2006, both the RI and SWRA were approved, marking the completion of Site characterization and a transition towards remedial action monitoring.

UC Davis proposes that groundwater monitoring be optimized during the interim period between completion of the FS and startup of remedial actions. Now that Site groundwater characterization is largely complete, UC Davis suggests the focus of current and future monitoring shift toward obtaining the data needed to complete the FS and remedial actions for the Site. Until the FS is complete and the selected groundwater remedy is implemented, we recommend that groundwater monitoring during this interim period focus on:

1. Continue assessing the operation of IRA and DDC systems in minimizing off-Site migration of VOCs (IRA system) and removal of VOCs within the HSU-1 groundwater source area (DDC system).
2. Monitoring groundwater quality for specific constituents in areas with known impacts.
3. Providing information needed to evaluate remedial alternatives developed in the FS Report.

The remainder of this section will provide an optimization assessment focusing on these three objectives.

6.1. Groundwater Treatment for VOCs

Currently, the groundwater IRA system provides VOC plume capture in HSU-2 and the expanded DDC pilot system focuses on treating VOCs in the source area in HSU-1. The IRA system has

been operating since 1998 and the critical data needs for this system include: groundwater extraction rate; influent and effluent water quality; and groundwater quality measured upgradient and downgradient of the IRA extraction well EW2-1. Groundwater extraction rates are adjusted monthly and influent/effluent water quality is also measured monthly. The upgradient and downgradient groundwater monitoring trends have been stable and should continue to be monitored on a semi annual basis. Treated groundwater is discharged either to the campus WWTP or to the LTPS and is no longer discharged at injection well IW2-1. The expanded DDC system has been operating since 1992, and in that time, the critical data needs have been identified as: groundwater levels in the DDC wells; and groundwater quality in the VOC source area.

The extent of VOCs in groundwater is discussed in Section 4.6 and formed the basis for the location of the IRA and DDC systems. UC Davis proposes that an optimized groundwater monitoring network for the interim period for assessment of VOCs before implementation of final remedial actions would include the following:

- HSU-2 wells to assess upgradient and downgradient of the IRA extraction well EW2-1. These wells would include UCD2-29, UCD2-30, UCD2-31, UCD2-32, UCD2-40, and UCD2-46.
- Monitoring wells that assess the continued effectiveness of the expanded DDC pilot test system. These wells include UCD1-12, UCD2-48, UCD1-49, UCD1-50, and UCD1-51.

6.2. Specific Constituent Monitoring

In addition to VOCs, associated with DDC and IRA systems, other specific constituents including chromium, nitrate, TDS and to a lesser extent, tritium and carbon-14 have been identified in areas of the Site. As discussed in Section 5, the remaining constituents, including chromium, nitrate, carbon-14 and tritium are distributed in known areas of the Site and will be further broken down by constituent.

6.2.1. Chromium

Concentrations of chromium exceeding HSU-1 background and regulatory thresholds (considered to vary from 50 to 200 ug/L) have been consistently observed in HSU-1 wells (up to 700 μg/L) in the area of the IRA extraction well, but HSU-2 wells in the same area have shown consistent, but

much lower chromium concentrations (ranging from 20 to 40 ug/L). This significant difference in concentration occurs despite clear hydraulic connection between HSU-1 and HSU-2 as demonstrated during pump tests of extraction well EW2-1.(i.e.. water level in UCD1-28 decreases immediately when the IRA extraction well EW2-1 operates). These data clearly demonstrate chromium attenuation is protecting water quality in HSU-2.

Other HSU-1 wells have historically exceeded State regulatory level (50 ug/L) including UCD1-19, 1-11, 1-12 and 1-25, but concentrations in these wells have declined over the last several years. Based on this information, UC Davis proposes that an optimized groundwater monitoring network for the interim period for assessment of chromium before implementation of final remedial actions would include the following:

- Wells in HSU-1 above the regulatory threshold of 50 ug/L. These wells include UCD1-11, UCD1-12, UCD1-13, UCD1-19, UCD1-25, UCD1-28, UCD1-52, and UCD1-53.
- Wells within HSU-2 directly below the area of the highest concentrations of HSU-1. These wells include UCD2-26, UCD2-29, UCD2-30, UCD2-31, and UCD2-40.

Additional assessment of chromium in groundwater may also be conducted as part of pilot studies conducted to evaluate technologies that may be used during remedial actions at the Site.

6.2.2. Nitrate

Nitrate concentrations have been observed in background groundwater in both HSU-1 and HSU-2 indicating their presence in all Site wells. Similar to chromium, there are several HSU-1 wells with concentrations that exceed background thresholds (22 to 27 mg/L NO_3-N). These impacted HSU-1 wells are more easily identified by their position adjacent to landfills or downgradient of former septic facilities or confined research animals.

Groundwater quality in HSU-2 is much better and only slightly exceeds initial background values (approximately 4 to 7 mg/L NO_3-N) and has only exceeded regulatory threshold (10 mg/L NO_3-N) in two on-site wells (UCD2-7 and UCD2-14). Off-site wells 2-45 and UCD2-46 have consistently exceeded 10 mg/L NO_3-N because of the long history of cultivation and regular fertilization.

Based on this information, UC Davis proposes that an optimized groundwater monitoring network for the interim period for assessment of nitrate before implementation of final remedial actions would include the following:

- Wells in HSU-1 above the background screening level of 17 μg/L used in the SWRA. These wells include UCD1-10, UCD1-11, UCD1-12, UCD1-13, UCD1-19, UCD1-21, UCD1-24, UCD1-25, UCD1-28, UCD1-52, UCD1-53, and UCD1-54.
- Wells within HSU-2 with some previous results above background and the regulatory threshold of 10 ug/L and directly below the area of the highest concentrations of HSU-1. These wells include UCD2-7, UCD2-14, UCD2-29, UCD2-30 and UCD2-48. Monitoring of UCD2-29 and UCD2-30 would also continue to assess the downward migration of nitrate from HSU-1 to HSU-2 resulting from operation of the IRA extraction system.

6.2.3. TDS

Historically, elevated TDS in groundwater has been considered an indicator of impacted groundwater. Although there are no risks associated with TDS, this constituent is still an important indicator. However, EC is an effective indicator parameter for relative TDS concentrations and UC Davis proposes to measure EC in all Site wells sampled for other constituents at the Site.

6.2.4. Tritium and Carbon-14

Tritium and carbon-14 impacts in groundwater are localized and primarily confined to two areas: the former waste burial holes and northern portion of Landfill Unit No. 2, where historically, very low levels of carbon-14 have been detected. Although the SWRA demonstrated that these two constituents were not present at concentrations that would present human or ecological risks, UC Davis recommends the continued monitoring for both tritium and carbon-14 in wells UCD1-11, UCD1-13, UCD2-14, UCD2-39 and carbon-14 in UCD1-12. In addition, as discussed in Section 5, if tritium is continued to be reported in samples collected from well UCD1-52, this well would also be included in the groundwater monitoring network for these constituents.

6.3. Summary of Proposed Groundwater Optimization Program

The 2006 groundwater monitoring program is largely based on previous characterization monitoring. Now that the RI and SWRA are complete, groundwater monitoring should be focused on site issues that present a risk and are being evaluated in the FS.

UC Davis has presented an analysis of the previous groundwater monitoring program and has provided a series of recommendations for optimizing the groundwater monitoring program prior to completing the FS and implementing Site remedial actions. The rationale for the proposed program is provided in Sections 6.1 and 6.2. Table 20 summarizes the proposed groundwater monitoring and constituents.

SECTION 7
RECOMMENDATIONS

As stated in Section 1, the purpose of this 2006 Comprehensive Annual Water Monitoring Report is to present a detailed assessment of the three monitoring programs, including a summary of any recommended changes to the programs. This section presents a summary of the recommended changes for the water monitoring and treatment monitoring programs currently being conducted at the Site.

7.1. Site Monitoring Programs

Based on the information presented in this report, UC Davis recommends that the groundwater optimization program described in Section 6 and summarized on Table 21 be implemented with the following precautions added:

- All Site monitoring wells will be sampled for all six target constituents every two years until the remedial action monitoring programs are implemented as specified in the ROD. The first two-year monitoring program will be conducted for the Winter 2007 monitoring round.

- If the IRA system is shut down for more than a one month period, monitoring wells UCD2-30 and UCD2-40 will be sampled on a monthly basis for VOCs until the system is restarted.

- If the DDC system is shut down for more than a one month period, monitoring well UCD2-48 will be sampled on a monthly basis for VOCs until the system is restarted.

- If a significant increase is noted in any of the six target constituents for specific wells, those wells will be immediately re-sampled for the specific analyte. If the increase is still noted for the re-sampling of the well(s), then quarterly sampling will be re-instituted for the specific wells and analytes that have increased.

UC Davis also recommends the following changes to the comprehensive monitoring programs conducted at the Site:

- Eliminate the annual LTPS soil monitoring program, because the amount of salts and metals from added effluent are insignificant and the soils data has not shown any important reduction in LTPS soil quality.

- Eliminate surface water and stormwater monitoring because the SWRA has concluded that the Site has not contributed to an increased human or ecological risk to Putah Creek. Note that future surface water and stormwater monitoring will probably be included as necessary to assess the effectiveness of remedial actions conducted at the Site.

The proposed programs for 2007 are combined in Table 21 and include continued monitoring for the following:

1. the expanded DDC pilot test system;
2. the IRA influent/effluent monitoring; and
3. the optimized monitoring program for groundwater.

A summary of the content of the two reports to be issued for 2007 is presented below.

Semi-Annual Report: One semi-annual report will include updates for all of the programs described in this Report. These updates will include an assessment of the progress of each system, summary of unexpected changes, and additional data collected, if any, that was not included in the program descriptions. Monthly data collected during the quarter will also be included in this report.

Annual Report: An annual report will present the detailed assessment of each monitoring program and will include a summary of changes to the programs and recommendations for future monitoring. The assessments will include detailed analysis of historical monitoring, including graphical and statistical analysis. The 2007 Comprehensive Annual Water Monitoring Report will be submitted to the USEPA by May 1, 2008.

7.2. IRA Operations

Based on the HSU-2 capture zone analysis performed in 2006, as discussed in Section 5 of this report, the IRA extraction rates are efficiently minimizing or preventing off-site migration of chloroform. A detailed analysis of long-term extraction rates will be presented in the UC Davis FS.

SECTION 8

REFERENCES

Brown and Caldwell, 2003. Final 2002 Comprehensive Annual Water Monitoring Report, LEHR/SCDS Environmental Restoration. December.

Brown and Caldwell, 2005. Final 2003 Comprehensive Annual Water Monitoring Report, LEHR/SCDS Environmental Restoration. March.

Brown and Caldwell, 2006. Final 2005 Comprehensive Annual Water Monitoring Report, LEHR/SCDS Environmental Restoration. May.

California Department of Water Resources (DWR), 1978. Evaluation of Groundwater Resources, Sacramento Valley. Bulletin 118-6, 136pp.

Central Valley Regional Water Quality Control Board (CVRWQCB), 1997. Waste Discharge Requirements Order No. 97-223. November.

Dames & Moore, 1993. Phase II Site Characterization Report. LEHR Environmental Restoration, University of California, Davis, California.

Dames & Moore, 1995. Additional Subsurface Investigation. LEHR Environmental Restoration, University of California, Davis, California.

Dames & Moore, 1997a. Removal Action Work Plan, Groundwater Interim Removal Action, LEHR/SCDS Environmental Restoration, Davis, California. December.

Dames & Moore, 1997b. Revised Engineering Evaluation/Cost Analysis, Groundwater Interim Removal Action, LEHR Environmental Restoration.

Dames & Moore, 1998a. Final Revised Field Sampling Plan, LEHR/SCDS Environmental Restoration. August.

Dames & Moore, 1998b. Final Revised Quality Assurance Project Plan, LEHR/SCDS Environmental Restoration.

Dames & Moore, 1999a. Annual System Evaluation Report, Groundwater Interim Removal Action, LEHR/SCDS Environmental Restoration. August.

Dames & Moore, 1999b. Groundwater Source Investigation, SCDS/LEHR Environmental Restoration, Davis, California.

Mann, Dr. John F. Jr., 1992. Hydrogeology of Lower Putah Creek – Preliminary Discussion. For Solano County Water Agency. January.

Montgomery Watson, 2000. Land Treatment Pilot Study Work Plan, SCDS/LEHR Environmental Restoration. July.

Pacific Northwest Laboratory, 1994. Water Management Plan, LEHR Environmental Restoration. January.

URS, 2002. 2001 Annual Groundwater Treatment System and Water Monitoring Report, LEHR/SCDS Environmental Restoration, Davis, California. October.

USEPA, 1999. Statement of Work for Removal Actions and Mitigation Repair, Administrative Order on Consent No. 99-16.

USEPA, 2000. Addendum to the Statement of Work for Removal Actions and Mitigation Repair, Administrative Order on Consent No. 99-16. July.

TABLES

Table 1
Formation Thickness, Soil Borings, and TEM Points
2006 Comprehensive Annual Water Monitoring Report
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Boring/TEM I.D.	Total Depth (feet bgs)	Formation Thickness				
		Putah Creek Fan		Tehama Formation		
		HSU-1	HSU-2	HSU-3	HSU-4	Unnamed Aquitard
UCD1-1	56.5	56.5+	-	-	-	-
UCD1-2	60	60.0+	-	-	-	-
UCD1-3	61.5	61.5+	-	-	-	-
UCD1-4	56.5	56.5+	-	-	-	-
UCD1-5	48.5	48.5+	-	-	-	-
UCD1-6	52.5	52.5+	-	-	-	-
UCD2-7	90	78	12.0+	-	-	-
UCD1-8	56	56.0+	-	-	-	-
UCD1-9	51.5	51.5+	-	-	-	-
UCD1-10	70	70.0+	-	-	-	-
UCD1-11	66.5	66.5+	-	-	-	-
UCD1-12	66.5	66.5+	-	-	-	-
UCD1-13	66.5	66.5+	-	-	-	-
UCD2-14	86	80	6.0+	-	-	-
UCD2-15	120.5	85	33	2.5+	-	-
UCD2-16	122	88	31	3.0+	-	-
UCD2-17	143	84.5	53	5.5+	-	-
UCD1-18	70	70.0+	-	-	-	-
UCD1-19	74.5	74.5+	-	-	-	-
UCD1-20	71.5	71.5+	-	-	-	-
UCD1-21	73.5	73.5+	-	-	-	-
UCD1-22	71.5	71.5+	-	-	-	-
UCD1-23	76.5	76.5+	-	-	-	-
UCD1-24	71.5	71.5+	-	-	-	-
UCD1-25	75	75.0+	-	-	-	-
UCD2-26	102	88	14.0+	-	-	-
UCD2-27	136	81.5	44.5	10.0+	-	-
UCD1-28	70	70.0+	-	-	-	-
UCD2-29	96	75	21.0+	-	-	-
UCD2-30	110	75	35.0+	-	-	-
UCD2-31	110	75	35.0+	-	-	-
UCD2-32	105	81.5	23.5+	-	-	-
UCD4-33	310	86.5	27.5	144	52.0+	-
UCD1-34	80	76	4.0+	-	-	-
UCD2-35	130	76	54.0+	-	-	-
UCD2-36	105	80	25.0+	-	-	-
UCD2-37	123.5	85.5	33	5.0+	-	-
UCD2-38	119	89.5	29.5+	-	-	-
UCD2-39	112	86	26.0+	-	-	-
UCD2-40	108.5	81.5	26.5	0.5+	-	-
UCD4-41	295	81.5	26.5	147	27	13.0+
UCD4-43	295	81	44	125	30	15.0+
UCD4-44	295	80	51	119	30	15.0+
UCD2-45	116	94	25.0+	-	-	-
UCD2-46	105	85	20.0+	-	-	-
UCD4-47	295	95	20	139	36	5.0+
UCD2-48	100	85	15	-	-	-
UCD1-49	71.5	71.5+	-	-	-	-

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Boring/TEM I.D.	Total Depth (feet bgs)	Formation Thickness				
		Putah Creek Fan		Tehama Formation		
		HSU-1	HSU-2	HSU-3	HSU-4	Unnamed Aquitard
UCD1-50	71.5	71.5+	-	-	-	-
UCD1-51	71.5	71.5+	-	-	-	-
UCD1-52	70	70+	-	-	-	-
UCD1-53	70	70+	-	-	-	-
UCD1-54	73	73+	-	-	-	-
EW2-1	125.5	77	37	11.5+	-	-
IW2-1	126.5	87.5	32.5	6.5+	-	-
TEM-1	339	64	40	204	31+	-
TEM-2	299	74	66	126	33+	-
TEM-3	314	74	50	144	46+	-
TEM-4	325	72	39	166	48+	-
TEM-5	325	67	37	174	47+	-
TEM-6	330	64	38	185	43+	-
TEM-7	330	69	37	187	37+	-
TEM-8	329	69	34	189	37+	-
TEM-9	324	69	41	180	34+	-
TEM-10	325	69	55	157	44+	-
TEM-11	340	61	45	188	46+	-
TEM-12	327	70	25	197	35+	-
TEM-13	329	65	17	207	40+	-
TEM-14	335	57	20	220	38+	-
TEM-15	347	57	25	227	38+	-
TEM-16	349	55	23	229	42+	-
TEM-17	346	47	20	236	43+	-
TEM-18	345	84	25	91	106	39+
TEM-19	340	76	43	100	88	33+
TEM-20	320	75	42	73	92	38+
TEM-21	297	77	58	47	73	42+
TEM-22	286	73	55	54	63	41+
TEM-23	297	76	50	56	79	36+
TEM-24	296	76	53	53	77	37+
TEM-25	321	83	53	50	86	49+
TEM-26	311	79	50	53	83	46+
TEM-27	297	74	43	53	79	48+
TEM-28	256	69	52	61	53	21+
TEM-29	350	124	81	73	72+	-
TEM-30	231	110	78	43+	-	-
TEM-31	287	115	74	98+	-	-
TEM-33	143	99	44+	-	-	-
TEM-34	208	107	61	40+	-	-
TEM-35	208	93	69	46+	-	-
TEM-36	208	94	67	47+	-	-
TEM-37	148	112	36+	-	-	-
TEM-38	273	96	43	99	35+	-

Note:
bgs = below ground surface

Table 2
2006 Combined IRA Groundwater Treatment System, RI Groundwater, Surface Water, and Stormwater Monitoring
2006 Comprehensive Annual Water Monitoring Report
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					Radiological Analytes			Chemical Analytes													Bioassay	
HSU	Program	Wells	Number of Wells	Groundwater Level Measurements	Tritium	C-14	Other rads	Formaldehyde	VOC	Pesticides & PCBs	Metals	TOC	Nitrates (as N)	Total Chromium	TDS	Alkalinity	TSS	Oil and Grease	Anions (chloride, sulfate)	Cations (Ca, Mg, Na, K)	Acute Aquatic Toxicity	Chronic Aquatic Toxicity
HSU-1	RI/FS, IRA	UCD1-001	1	Q																		
	RI/FS, IRA	UCD1-003	1																			
	RI/FS, IRA	UCD1-004	1	Q		(DOE Sp)					(DOE Sp)		(DOE Sp)									
	RI/FS, IRA	UCD1-005	1			(DOE Sp)	(DOE Sp)				(DOE Sp)		(DOE Sp)									
	RI/FS, IRA	UCD1-006	1			(DOE Sp)	(DOE Sp)						(DOE Sp)									
	RI/FS, IRA	UCD1-008	1																			
	RI/FS, IRA	UCD1-009	1																			
	RI/FS, IRA	UCD1-010	1	Q					Sp				Sp	Sp	Sp							
	RI/FS, IRA, LTPS	UCD1-011	1	Q	W Sp Su	W Sp Su			W Sp Su		Sp Su	W Sp Su	W Sp Su	W Sp Su	W Sp Su	W Sp Su			W Sp Su			
	RI/FS, IRA, DDC	UCD1-012	1	Q	Sp	Sp			W Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD1-013	1	Q						Sp (DOE Sp)												
	RI/FS, IRA, LTPS	UCD1-018	1	Q	W Sp Su	W Sp Su	(DOE Sp)	(DOE Sp)	W Sp Su		Sp Su	W Sp Su	W Sp Su	W Sp Su	W Sp Su	W Sp Su			W Sp Su			
	RI/FS, IRA	UCD1-019	1	Q																		
	RI/FS, IRA	UCD1-020	1	Q							Sp (DOE Sp)			Sp (DOE Sp)								
	RI/FS, IRA	UCD1-021	1	Q		Sp	Sp				Sp		Sp									
	RI/FS, IRA	UCD1-022	1	Q		Sp	Sp						Sp									
	RI/FS, IRA	UCD1-023	1	Q		(DOE Sp)					Sp		Sp									
	RI/FS, IRA	UCD1-024	1	Q		(DOE Sp)		(DOE Sp)			Sp		Sp									
	RI/FS, IRA, LTPS	UCD1-025	1	Q	W Sp Su	W Sp Su			W Sp Su		W Sp Su	W Sp Su	W Sp Su	W Sp Su	W Sp Su	W Sp Su			W Sp Su			
	RI/FS, IRA, LTPS	UCD1-027Z1 UCD1-027Z2 UCD1-027Z3	1		W Sp Su W Sp Su W Sp	W Sp Su W Sp Su W Sp			W Sp Su W Su W Sp Su		Sp Su Sp Su Sp Su	W Su W Su Su	W Sp Su W Sp Su W Sp Su	W Sp Su W Sp Su W Sp Su	W Sp Su W Sp Su W Sp Su	W Sp Su W Sp Su W Sp Su			W Sp Su W Sp Su W Sp Su			
	RI/FS, IRA, LTPS	UCD1-028	1	Q	W Sp Su	W Sp Su			W Sp Su		W Sp Su	W Sp Su	W Sp Su	W Sp Su	W Sp Su	W Sp Su			W Sp Su			
	RI/FS, IRA	UCD1-034	1	Q																		
	RI/FS, IRA, DDC	UCD1-049	1	Q	Sp	Sp			W Sp Su				Sp	Sp	Sp							
	RI/FS, IRA, DDC	UCD1-050	1	Q	Sp	Sp			W Sp Su		Sp		Sp	Sp	Sp	Sp			Sp			
	RI/FS, IRA, DDC	UCD1-051	1	Q	Sp	Sp			W Sp Su				Sp	Sp	Sp							
	RI/FS, IRA	UCD1-052	1	Q	W Sp	W Sp			W Sp		W Sp	W	W Sp	W Sp	W Sp	W			W			
	RI/FS, IRA	UCD1-053	1	Q	W Sp	W Sp			W Sp		W Sp	W	W Sp	W Sp	W Sp	W			W			
	RI/FS, IRA	UCD1-054	1	Q	Sp	Sp	(DOE Sp)				Sp (DOE Sp)		Sp	Sp	Sp	Sp						
	RI/FS, IRA, DDC	TP-1-A TP-1-B TP-1-C	1	Q Q Q					W Sp W Sp Su W Sp Su													
	RI/FS, IRA, DDC	TP-2-A TP-2-B TP-2-C	1	Q Q Q	-- Su Su	-- Su Su			W Sp W Sp Su W Sp Su				-- Su Su	-- Su Su	-- Su Su							
	RI/FS, IRA, DDC	TP-3-A TP-3-B TP-3-C	1	Q Q Q					W Sp W Sp Su W Sp Su													
	RI/FS, IRA, DDC	TP-4-A TP-4-B TP-4-C	1	Q Q Q					W Sp W Sp Su W Sp Su													
	RI/FS, IRA, DDC	TP-5-A TP-5-B TP-5-C	1	Q Q Q	-- Su Su	-- Su Su			W Sp W Sp Su W Sp Su				-- Su Su	-- Su Su	-- Su Su							

Table 2
2006 Combined IRA Groundwater Treatment System, RI Groundwater, Surface Water, and Stormwater Monitoring
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HSU-1	DDC	DDC-1-A	1	Q					W													
		DDC-1-B		Q					W Sp Su													
		DDC-1-C		Q					W Sp Su													
	DDC	DDC-2-A	1	Q					W Sp													
		DDC-2-B		Q					W Sp Su													
		DDC-2-C		Q					W Sp Su													
	DDC	DDC-3-A	1	Q					W Sp													
		DDC-3-B		Q					W Sp Su													
		DDC-3-C		Q					W Sp Su													
	DDC	DDC-4-A	1	Q					W Sp													
		DDC-4-B		Q					W Sp Su													
		DDC-4-C		Q					W Sp Su													
	DDC	DDC-5-A	1	Q					W Sp													
		DDC-5-B		Q					W Sp Su													
		DDC-5-C		Q					W Sp Su													
	DDC	DDC-6-A	1	Q					W Sp													
		DDC-6-B		Q					W Sp Su													
		DDC-6-C		Q					W Sp Su													
HSU-2	RI/FS, IRA	UCD2-007	1	Q	Sp	Sp	(DOE Sp)	(DOE Sp)	Sp		(DOE Sp)		Sp	Sp (DOE Sp)	Sp							
	RI/FS, IRA	UCD2-014	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-015	1	Q	Sp	Sp			Sp		Sp (DOE Sp)		Sp	Sp	Sp							
	RI/FS, IRA	UCD2-016	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-017	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-026	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-029	1	Q	Sp	Sp			Q				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-030	1	Q	Sp	Sp			M[2]				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-031	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-032	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-035	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-036	1	Q	Sp	Sp	Sp		Sp		Sp		Sp	Sp	Sp							
	RI/FS, IRA	UCD2-037	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-038	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-039	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-040	1	Q	Sp	Sp			Q				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-045	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD2-046	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA, DDC	UCD2-048	1	Q	Sp	Sp			W Sp Su				Sp	Sp	Sp							

Table 2
2006 Combined IRA Groundwater Treatment System, RI Groundwater, Surface Water, and Stormwater Monitoring
2006 Comprehensive Annual Water Monitoring Report
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					Radiological Analytes			Chemical Analytes													Bioassay	
HSU	Program	Wells	Number of Wells	Groundwater Level Measurements	Tritium	C-14	Other rads	Formaldehyde	VOC	Pesticides & PCBs	Metals	TOC	Nitrates (as N)	Total Chromium	TDS	Alkalinity	TSS	Oil and Grease	Anions (chloride, sulfate)	Cations (Ca, Mg, Na, K)	Acute Aquatic Toxicity	Chronic Aquatic Toxicity
HSU-4	RI/FS, IRA	UCD4-041	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD4-042	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD4-043	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD4-044	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	RI/FS, IRA	UCD4-047	1	Q	Sp	Sp			Sp				Sp	Sp	Sp							
	Stormwater	LF-1	0		W F	W F	W F		W F	W F	W F	W F	W F	W F	W F		W F	W F			W F	
		LF-3	0																			
		LS-1	0		W F	W F	W F		W F	W F	W F	W F	W F	W F	W F		W F	W F			W F	
	Surface water	STPO	0		W F	W F	W F		W F	W F	W F		W F	W F	W F							W F
		PCU	0		W F	W F	W F		W F	W F	W F		W F	W F	W F							W F
		PCD	0		W F	W F	W F		W F	W F	W F		W F	W F	W F							W F
	Treatment System	Influent	1	(EW2-01) Q	M^1	M^1			M^1			M^1										
		Effluent	1	(IW2-01) Q					M^1		M^1		M^1	M^1	M^1	M^1			M^1	M^1		
			65 Wells																			

Notes:
W = Sampled in the winter quarter (January - March)
Sp = Sampled in the spring quarter (April - June)
Su = Sampled in the summer quarter (July - September)
F = Sampled in the fall quarter (October - December)
S = Sampled semi-annually in the spring and fall quarters
Q = Measured/Sampled quarterly
M^2 = Sampled monthly, except April and December. However, two samples were collected in May; the 5/1/06 was collected to make up for April.
M^1 = Measured monthly, except in May
(DOE Sp) = Additional samples collected by DOE in the Spring

Table 3
Analytical Parameters and Methods
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SAMPLE PARAMETERS		
Constituent	Units	Method(s)
Field Parameters		
Field		
pH	pH units	Field, SOP
EC	µmhos/cm	Field, SOP
Eh	Mvolts	Field, SOP
Temperature	°C	Field, SOP
Turbidity	ntu	Field, SOP
Laboratory Parameters		
Organic		
Volatile Organic Compounds	µg/L	EPA SW8260B
Semivolatile Organic Compounds	µg/L	EPA SW8260B
Organochlorine Pesticides/PCBs	µg/L	EPA SW8081A/8082
Radiologic		
Gross Alpha	pCi/L	EPA 9310
Gross Beta	pCi/L	EPA 9310
Tritium	pCi/L	EPA 906.0 (M)
Carbon-14	pCi/L	EPA-R4-73-014 or EERF C
Strontium –90	pCi/L	EPA 905.0 (M)
Radium-226	pCi/L	EPA 903.1 (M)
Americium-241	pCi/L	EPA 907.0 (M) or HASL 300M
Plutonium-241	pCi/L	EPA 907.0 (M)
Th-234	pCi/L	EPA 901.1 (M)
Pb-214	pCi/L	EPA 901.1 (M)
Bi-214	pCi/L	EPA 901.1 (M)
Pb-210	pCi/L	EPA 901.1 (M)
U-235	pCi/L	EPA 901.1 (M)
U-238	pCi/L	EPA 901.1 (M)
Na-22	pCi/L	EPA 901.1 (M)
Ac-228	pCi/L	EPA 901.1 (M)
Pb-212	pCi/L	EPA 901.1 (M)
Bi-212	pCi/L	EPA 901.1 (M)
Tl-208	pCi/L	EPA 901.1 (M)
K-40	pCi/L	EPA 901.1 (M)
Co-60	pCi/L	EPA 901.1 (M)
Cs-137	pCi/L	EPA 901.1 (M)
Metals		
Hexavalent Chromium		EPA SW7196
Total Chromium	µg/L	EPA SW6010B/EPA SW 6020
Anitmony	µg/L	EPA SW6020
Arsenic	µg/L	EPA SW6020
Barium	µg/L	EPA SW6020
Beryllium	µg/L	EPA SW6020
Cadmium	µg/L	EPA SW6020
Cobalt	µg/L	EPA SW6020
Copper	µg/L	EPA SW6020
Iron	µg/L	EPA SW6020
Lead	µg/L	EPA SW6020
Mercury	µg/L	EPA SW7470A
Molybdenum	µg/L	EPA SW6020
Nickel	µg/L	EPA SW6020
Selenium	µg/L	EPA SW6020
Silver	µg/L	EPA SW6020
Thallium	µg/L	EPA SW6020
Vanadium	µg/L	EPA SW6020

Table 3
Analytical Parameters and Methods
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SAMPLE PARAMETERS		
Constituent	Units	Method(s)
Zinc	µg/L	EPA SW6020
General Chemicals		
Alkalinity	mg/L	EPA 310.1
Sodium	mg/L	EPA 6010B
Potassium	mg/L	EPA 6010B
Calcium	mg/L	EPA 6010B
Magnesium	mg/L	EPA 6010B
Chloride	mg/L	EPA 300.0
Sulfate	mg/L	EPA 300.0
Phosphorus, dissolved	mg/L	EPA 365A
Nitrate (as Nitrogen)	mg/L	EPA 300.0
Total Dissolved Solids	mg/L	EPA 160.1
Total Suspended Solids	mg/L	EPA 415.2
Total Organic Carbon	mg/L	EPA 9060M
Hardness	mg/L	EPA 130.2
Oil and Grease	mg/L	EPA 9070
Acute Aquatic Toxicity	%	EPA/600/4-90-027F
Chronic Aquatic Toxicity	%	EPA 600/4-91/002

Table 4
Summary of Well Construction Details
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Wells	Date Installed	Total Boring Depth (ft bgs)	PVC Well Diameter (inches)	Screen Interval (ft bgs)	Filter Pack (ft bgs)	Bentonite (ft bgs)	Cement (ft bgs)	Measuring Point Elevation (ft msl)	Elevation Ground Surface (ft msl)
Groundwater Monitoring Wells									
UCD1-001	10/09/87	56.5	2	46.5-56.5	41-56.5	38-41	0-38	50.05	47.9
UCD1-002	Abandoned								
UCD1-003	10/23/87	51.5	2	39-49	34-51.5	a	0-34	50.05	48.2
UCD1-004	10/14/87	56.5	2	45-55	40-56.5	37-40a	0-37	51.69	49.4
UCD1-005	10/22/87	48.5	2	38-48	33-48	a	0-33	48.44	48.4
UCD1-006	10/21/87	52.5	2	40-50	35-50	a	0-35	50.94	49.0
UCD2-007	11/05/87	90	2	80-90	75-90	a	0-75	51.65	49.3
UCD1-008	11/03/87	56	2	43.5-53.5	39-53.5	a	0-39	51.51	49.2
UCD1-009	11/04/87	51.5	2	40-50	35-50	a	0-35	51.38	49.0
UCD1-010	10/11/89	70	4	54-69	52-70	49-52	0-49	49.87	47.4
UCD1-011	10/17/89	66.5	4	50-65	47-66.5	44-47	0-44	50.67	47.6
UCD1-012	10/19/89	65	4	49.5-64.5	47-65	44-47	0-44	51.76	48.8
UCD1-013	10/26/89	65	4	50-65	47-65	44.5-47	0-44.5	52.19	49.2
UCD2-014	11/15/89	86	4	75-85	69-86	64-69	0-64	51.72	49.0
UCD2-015	03/28/90	120.5	4b	91-116	86-120.5	65-86	0-65	51.49	49.4
UCD2-016	04/04/90	122	4b	92-117	86-122	71-86	0-71	49.95	48.2
UCD2-017	04/10/90	143	4b	88-113	81-113	78-81	0-78	51.83	49.6
UCD1-018	10/04/90	70	4b	54-69	51-70	48-51	0-48	48.56	46.7
UCD1-019	10/01/90	74.5	4b	56.5-71.5	53.5-72.5	50.5-53.5	0-50.5	51.33	49.3
UCD1-020	10/09/90	73.5	4b	57-72	54-73.5	51-54	0-51	49.78	48.0
UCD1-021	10/11/90	73.5	4b	57-72	54-73.5	51-54	0-51	48.77	48.7
UCD1-022	10/25/90	73	4b	57-72	54-73	51-54	0-51	49.07	49.0
UCD1-023	10/17/90	76.5	4b	56.5-71.5	53.5-73	50.5-53.5	0-50.5	49.39	49.2
UCD1-024	10/22/90	73	4b	57-72	54-73	51-54	0-51	48.91	48.8
UCD1-025	10/06/95	75	4c	60-75	56.9-75	52-56.9	0-52	47.38	-
UCD2-026	10/06/95	102	4c	87-102	54-102	79-84	0-79	48.79	-

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UCD2-027Z1	10/06/95	136	5c	53-55	51.5-57.5	49-51.5	0-49	47.52	-
UCD2-027Z2	10/06/95	136	5c	63-65	61.5-66.5	57.5-61.5	0-49	47.52	-
UCD2-027Z3	10/06/95	136	5c	73-75	71.5-76.5	66.5-71.5	0-49	47.52	-
UCD2-027Z4	10/06/95	136	5c	86-88	84.9-90	76.5-84.9	0-49	47.52	-
UCD2-027Z5	10/06/95	136	5c	96-98	94.5-100	90-94.5	0-49	47.52	-
UCD2-027Z6	10/06/95	136	5c	106-108	104.5-109.5	100-104.5	0-49	47.52	-
UCD2-027Z7	10/06/95	136	5c	116-118	114.5-119	109.5-114.5	0-49	47.52	-
UCD1-028	09/05/96	70	2b	53-68	51-70	47-51	0-47	47.48	48.1
UCD2-029	09/04/96	97	2b	80-95	76.7-97	72-76.7	0-72	47.58	48.1
UCD2-030	09/10/96	110	2b	95-110	91-110	89.5-91	0-89.5	47.20	47.6
UCD2-031	09/11/96	110	2b	94-109	91-110	87-91	0-87	47.21	47.5
UCD2-032	04/03/97	105	2b	83-103	81-105	77-81	0-77	45.41	45.1
UCD4-033	Abandoned in May 1997 and replaced by UCD4-42								
UCD1-034	10/06/95	80	4c	61-76	57-76	50-57	0-50	55.70	-
UCD2-035	10/06/95	130	4c	107-122	103-122	98-103	0-98	55.71	-
UCD2-036	11/06/97	105	2b	82-102	79-105	73-79	0-73	48.31	-
UCD2-037	10/20/97	118.5	2b	94-114	91-118.5	85-91	0-85	49.63	-
UCD2-038	10/23/97	119	2b	95-115	89-95	83-89	0-83	57.20	-
UCD2-039	10/30/97	112	2b	87-107	84-112	80.5-84	0-81.5	49.63	47.4
UCD2-040	11/07/97	108.5	2b	86-106	83-108.5	78-83	0-78	46.49	46.5
UCD4-041	10/10/97	295	4b	257-277	253-280	248.5-253	0-248.5	46.60	47.0
UCD4-042	11/03/97	272	4b	248.5-268.5	245-269	240-245	0-246	47.22	47.0
UCD4-043	10/02/97	295	4b	248-268	242.5-274	233-242.5	0-237	45.06	44.5
UCD4-044	04/07/99	295	4b	246.5-266.5	242-273	237-242	0-237	47.43	-
UCD2-045	11/30/99	114	2b	93-113	89.5-113.5	84.5-89.5	0-84.5	46.33	45.0
UCD2-046	05/05/00	106	2b	84.5-104.5	81.75-106	79-81.75	0-79	44.79	51.5
UCD4-047	05/20/00	299	4b	266-286	263.5-288.9	257-263	0-257	47.04	45.0
UCD2-048	08/28/02	104	4b	90-100	88.3-104	84-88.3	0-84	51.21	-
UCD1-049	08/14/02	69.5	4b	49.5-69.5	47-69.5	43-47	0-43	51.16	-
UCD1-050	08/13/02	69.5	4b	49.5-69.5	47.5-69.5	43.5-47.5	0-43.5	52.08	-
UCD1-051	08/12/02	70	4b	49.7-69.7	48-70	44-48	0-44	51.62	-
UCD1-052	02/12/04	70	2	53.5 - 68.5	51 - 70	50 - 51	0 - 50	47.46	-
UCD1-053	02/13/04	70	2	52.5 - 67.5	48 - 70	45 - 48	0 - 48	47.49	-

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Wells	Date Installed	Total Boring Depth (ft bgs)	PVC Well Diameter (inches)	Screen Interval (ft bgs)	Filter Pack (ft bgs)	Bentonite (ft bgs)	Cement (ft bgs)	Measuring Point Elevation (ft msl)	Elevation Ground Surface (ft msl)
UCD1-054	02/06/04	73	2	58 - 73	56 - 73	54 - 56	0 - 56	-	-
DDC Treatment System									
DDC-1	10/27/00	86	4b	20-35 40-55 65-80	19-35.5 40-55.7 60-80.5	17-19 35.7-40 80.5-85	0.5-17	52.82	-
DDC-1A	10/27/00	86	1.25b	32.5-35	19-35.5	17-19	0.5-17	51.42	-
DDC-1B	10/27/00	86	1.25b	50-52.5	40-55.7	35.7-40	0.5-17	51.32	-
DDC-1C	10/27/00	86	1.25b	70-75	60-80.5	80.5-85	0.5-17	51.42	-
DDC-2	09/16/02	80	4b	19.7-34.7 39.7-54.7 64.7-79.7	16-36 38-56.5 62.3-80	14.3-16 36-38 56.5-62.3	0-14.3	51.34	-
DDC-2A	09/16/02	80	1.25b	30-35	16-36	14.3-16	0-14.3	51.50	-
DDC-2B	09/16/02	80	1.25b	50-55	38-56.5	36-38	0-14.3	51.52	-
DDC-2C	09/16/02	80	1.25b	65-70	62.3-80	56.5-62.3	0-14.3	51.47	-
DDC-3	09/18/02	80	4b	19-34 39-54 64-69.7	16-35 37-56.7 62-80	14.3-16 35-37 56.7-62	0-14.3	52.53	-
DDC-3A	09/18/02	80	1.25b	28-34	16-35	14.3-16	0-14.3	51.75	-
DDC-3B	09/18/02	80	1.25b	49-54	37-56.7	35-37	0-14.3	51.68	-
DDC-3C	09/18/02	80	1.25b	64-79.7	62-80	56.7-62	0-14.3	51.74	-
DDC-4	09/19/02	80	4b	19.5-34.5 39.5-54.5 64.5-79.5	16-35.5 37-56.5 62-80	14.3-16 35.5-37 56.5-62	0-14.3	50.86	-
DDC-4A	09/19/02	80	1.25b	29.5-34.5	16-35.5	14.3-16	0-14.3	51.22	-
DDC-4B	09/19/02	80	1.25b	49.5-54.5	37-56.5	35.5-37	0-14.3	51.23	-
DDC-4C	09/19/02	80	1.25b	64.5-69.5	62-80	56.5-62	0-14.3	51.84	-
DDC-5	09/20/02	80	4b	18.5-33.5 38.5-53.5 63.5-78.5	16-34.5 36.5-55.7 61-80	14-16 34.5-36.5 55.7-61	0-14	51.18	-
DDC-5A	09/20/02	80	1.25b	28.5-33.5	16-34.5	14-16	0-14	51.02	-
DDC-5B	09/20/02	80	1.25b	48.5-53.5	36.5-55.7	34.5-36.5	0-14	51.04	-
DDC-5C	09/20/02	80	1.25b	73.5-78.5	61-80	55.7-61	0-14	51.01	-

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Wells	Date Installed	Total Boring Depth (ft bgs)	PVC Well Diameter (inches)	Screen Interval (ft bgs)	Filter Pack (ft bgs)	Bentonite (ft bgs)	Cement (ft bgs)	Measuring Point Elevation (ft msl)	Elevation Ground Surface (ft msl)
DDC-6	09/13/02	80.3	4b	20-35 40-55 65-80	16-36 38-56.5 62-80.3	14.3-16 36-38 56.5-62	0-14.3	51.37	-
DDC-6A	09/13/02	80.3	1.25b	30-35	16-36	14.3-16	0-14.3	51.56	-
DDC-6B	09/13/02	80.3	1.25b	50-55	38-56.5	36-38	0-14.3	51.58	-
DDC-6C	09/13/02	80.3	1.25b	65-70	62-80.3	56.5-62	0-14.3	51.51	-
Piezometers									
TP-1A	11/04/00	80	2	30-35	17-35.5	14-17	0.5-14	49.65	-
TP-1B	11/04/00	80	2	47-52	45-55	35.7-45	0.5-14	49.90	-
TP-1C	11/04/00	80	2	70-75	60-80.5	55-60	0.5-14	49.81	-
TP-2A	10/31/00	79	2	28-33	14-33	12-14	0.5-12	51.43	-
TP-2B	10/31/00	79	2	47.5-52.5	45-55	33-45	0.5-12	51.15	-
TP-2C	10/31/00	79	2	70-75	60-79	55-60	0.5-12	51.10	-
TP-3A	11/03/00	80.5	2	30-35	20-33.5	15-20	0.5-15	51.05	-
TP-3B	11/03/00	80.5	2	47.5-52.5	45-55	35.5-45	0.5-15	51.10	-
TP-3C	11/03/00	80.5	2	70-75	60-80.5	55-60	0.5-15	51.08	-
TP-4A	11/02/00	80.5	2	30-35	19-35	12-19	0.5-17	51.07	-
TP-4B	11/02/00	80.5	2	47.5-52.5	45-55	35-45	0.5-17	51.06	-
TP-4C	11/02/00	80.5	2	70-75	60-80.5	55-60	0.5-17	51.17	-
TP-5A	10/26/00	80	2	30-35	20-35.5	15-20	0.5-15	51.93	-
TP-5B	10/26/00	80	2	47.5-52.5	45-55.3	35.5-45	0.5-15	51.87	-
TP-5C	10/26/00	80	2	74.5-79.5	60-80	55.25-60	0.5-15	51.79	-
IRA Treatment System									
EW2-1	09/20/96	125.65	8b	79.4-119.4	74.4-125.65	68.4-74.4	0-68.4	49.17	47.3
IW2-1	10/17/97	126.5	10b	84.5-119.5	80-126.5	75-80	0-75	49.39	-

[a] well constructed with #60 sand seal and no bentonite

[b] stainless steel, wire-wrap screen

[c] stainless steel, blank casing, and wire wrap screen

EW = extraction well

ft bgs = feet below ground surface

ft msl = feet mean sea level datum

IW = injection well

Table 5
IRA LTPS Effluent Discharge Standards for Irrigation
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Effluent Discharge Standards for Irrigation

Analyte	Units	Standard
Arsenic	µg/L	10
Barium	µg/L	490
Boron	µg/L	791
Cadmium	µg/L	1
Carbon-14	pCi/L	50
Chloride	mg/L	106
Chloroform	µg/L	0.5
Chromium (total)	µg/L	44.6
Lead	µg/L	2
Manganese	µg/L	50
Mercury	µg/L	1.2
Nickel	µg/L	100
NO_3-N	mg/L	27.4
SO_4-S	mg/L	250
Tritium	pCi/L	300
Zinc	µg/L	2,000

Table 6
Data Verification Requirements
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Review Item	Checked During Data Verification
Case Narrative	X
Chain-of-Custody Documentation	X
Summary of Results	X
Holding Times	X
Method Blank Analysis Results	X
Field/Trip Blank Analysis Results	X
Surrogate Standard %R	X
Laboratory Control Samples - %R	X
Matrix Spike – %R	X
LCS/LCS Duplicate - RPD	X
MS/MS Duplicate - RPD	X
Laboratory Replicate - RPD	X
Field Duplicate - RPD	X

Note:
%R = percent recoveries
RPD = relative percent difference

Table 7
Analytical Completeness by Method for Water Samples
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

				Number of results				Completeness	
Method	Parameter	Samples Analyzed (N+FD)	Analytes per sample	Total	Rejected	Estimated due to QC deficiencies	Estimated due to >MDL but <PQL	Percent usable	Percent quantitative*
E160.1	Total Dissolved Solids	86+8	1	94	0	0	0	100%	100%
E160.2	Total Suspended Solids	3+3	1	6	0	0	0	100%	100%
E300	Anions	89+9	1-3	174	0	37	0	100%	79%
E310.1	Alkalinity	36+2	1	38	0	0	0	100%	100%
E413.1	Oil and Grease	2+2	1	4	0	2	1	100%	50%
E415.1	Total Organic Carbon	30+4	1	34	0	0	6	100%	100%
E600.4	Aquatic Toxicity	8+2	1-5	26	0	0	0	100%	100%
E901.1	Radionclides	1	1	1	0	0	0	100%	100%
E903.1	Radium-226	17+3	1	20	0	0	1	100%	100%
E905.0	Strontium	14+3	1	17	0	0	1	100%	100%
E906.0	Tritium	73+8	1	81	0	1	2	100%	99%
EERF C	Carbon-14	80+9	1	89	0	0	2	100%	100%
HASL 300	Americium-241 and Cesium-137	9	1-2	12	0	0	0	100%	100%
SW6010B	Metals by ICP/AES	80+7	1-6	154	0	6	24	100%	96%
SW6020	Metals by ICP/MS	51+6	18	825	0	53	224	100%	94%
SW7196A	Hexavalent Chromium	4	1	4	0	0	0	100%	100%
SW7470A	Mercury	49+5	1	54	0	1	2	100%	98%
SW8081	Pesticides	11+4	28	383	0	81	13	100%	79%
SW8260B	Volatile Organics	196+18	40	8856	0	270	352	100%	97%
SW8315A	Formaldehyde	4	1	4	0	0	0	100%	100%
SW9060	Total Organic Carbon	3	1	3	0	0	1	100%	100%
SW9070	Oil and Grease	1+1	1	2	0	0	1	100%	100%

Notes:
*Estimations due solely to results <PQL do not affect the calculated completeness.
Calculations do not include any required field or laboratory QC samples, except field duplicates.
FD = field duplicate samples
N = normal environmental samples

Table 8
Analytical Completeness by Method for Soil Samples
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

				Number of results				Completeness	
Method	Parameter	Samples Analyzed (N+FD)	Analytes per sample	Total	Rejected	Estimated due to QC deficiencies	Estimated due to >MDL but <PQL	Percent usable	Percent quantitative*
E300	Anions	18	4	72	0	14	0	100%	81%
E350.1	Ammonia	18	1	18	0	3	0	100%	83%
E351.2	Total Kjeldahl Nitrogen	18	1	18	0	0	0	100%	100%
SW6010B	Metals by ICP/AES	18	10	178	0	0	19	100%	100%
SW7471A	Mercury	18	1	18	0	1	0	100%	94%
SW9045C	pH	18	1	18	0	18	0	100%	0%
SW9060	Total Organic Carbon	18	1	18	0	0	0	100%	100%

Notes:
*Estimations due solely to results <PQL do not affect the calculated completeness.
Calculations do not include any required field or laboratory QC samples, except field duplicates.
FD = field duplicate samples
N = normal environmental samples

Table 9
DDC Pilot Test System - Chloroform Results
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

Location	Sample ID	Date	µg/L
DDC-1A	GWDC0146	2/9/2006	23.4
	GWDC0166	5/11/2006	30.1
DDC-1B	GWDC0147	2/9/2006	20.9
	GWDC0148	2/9/2006	23.6
	GWDC0167	5/11/2006	49.1
	GWDC0188	8/31/2006	43.2
DDC-1C	GWDC0149	2/9/2006	834
	GWDC0168	5/11/2006	1910
	GWDC0189	8/31/2006	2900
DDC-2A	GWDC0150	2/8/2006	250
	GWDC0169	5/9/2006	291
	GWDC0170	5/9/2006	336
DDC-2B	GWDC0151	2/8/2006	76.9
	GWDC0171	5/9/2006	89.3
	GWDC0191	8/31/2006	26
DDC-2C	GWDC0152	2/8/2006	90.9
	GWDC0172	5/9/2006	220
	GWDC0192	8/31/2006	259
DDC-3A	GWDC0153	2/9/2006	42.4
	GWDC0173	5/4/2006	161
DDC-3B	GWDC0154	2/9/2006	51
	GWDC0174	5/11/2006	86.1
	GWDC0194	8/31/2006	107
DDC-3C	GWDC0155	2/9/2006	130
	GWDC0175	5/11/2006	136
	GWDC0195	8/31/2006	228
DDC-4A	GWDC0156	2/8/2006	128
	GWDC0176	5/9/2006	179
DDC-4B	GWDC0157	2/8/2006	158
	GWDC0177	5/9/2006	252
	GWDC0199	9/5/2006	183
DDC-4C	GWDC0158	2/8/2006	266
	GWDC0178	5/11/2006	385
	GWDC0179	5/11/2006	386
	GWDC0200	9/5/2006	289
DDC-5A	GWDC0159	2/8/2006	0.739
	GWDC0180	5/9/2006	5.58
DDC-5B	GWDC0160	2/8/2006	0.856
	GWDC0181	5/9/2006	6.79
	GWDC0202	9/5/2006	1.05

Table 9
DDC Pilot Test System - Chloroform Results
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

Location	Sample ID	Date	µg/L
DDC-5C	GWDC0161	2/8/2006	656
	GWDC0182	5/9/2006	962
	GWDC0203	9/5/2006	2100
DDC-6A	GWDC0163	2/8/2006	28
	GWDC0183	5/9/2006	66.9
	GWDC0184	5/9/2006	67
DDC-6B	GWDC0162	2/8/2006	29.3
	GWDC0185	5/9/2006	36.8
	GWDC0205	9/5/2006	83.7
DDC-6C	GWDC0164	2/8/2006	44.4
	GWDC0186	5/9/2006	37.4
	GWDC0206	9/5/2006	75.9

Table 10
2006 Estimated Chloroform Mass Removal
Expanded DDC Pilot Test
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration, Davis, CA

Date	DDC Well	C-Well Chloroform Concentration (µg/L)	B-Well Chloroform Concentration (µg/L)	Chloroform Concentration Removed (µg/L)	Number of Days Operating[1]	Volume of Water Pumped Between Zones (liters)	Mass of Chloroform Removed (µg)	Mass of Chloroform Removed (lbs)
2/9/2006	DDC-1	834	23.6	810.4	84	1,089,644	883,047,472	1.95
5/11/2006		1910	49.1	1860.9	58	752,373	1,400,091,318	3.09
8/31/2006		2900	43.2	2856.8	84	1,089,644	3,112,894,888	6.86
							Total DDC-1:	11.90
2/8/2006	DDC-2	90.9	76.9	14.0	84	50,362	705,064	0.00
5/9/2006		220	89.3	130.7	58	34,774	4,544,903	0.01
8/31/2006		259	26	233.0	84	50,362	11,734,275	0.03
							Total DDC-2:	0.04
2/9/2006	DDC-3	130	51	79.0	84	572,292	45,211,068	0.10
5/11/2006		136	86.1	49.9	58	395,154	19,718,185	0.04
8/31/2006		228	107	121.0	84	572,292	69,247,332	0.15
							Total DDC-3:	0.30
2/8/2006	DDC-4	266	158	108.0	84	721,851	77,959,905	0.00
5/9/2006		386	252	134.0	58	498,421	66,788,402	0.15
9/5/2006		289	183	106.0	84	721,851	76,516,203	0.17
							Total DDC-4:	0.32
2/8/2006	DDC-5	656	0.856	655.1	84	2,226,597	1,458,741,932	3.22
5/9/2006		962	6.79	955.2	58	1,537,412	1,468,551,790	3.24
9/5/2006		2100	1.05	2099.0	84	2,226,597	4,673,516,630	10.30
							Total DDC-5:	16.76
2/8/2006	DDC-6	44.4	29.3	15.1	84	2,524,189	38,115,258	0.08
5/9/2006		37.4	36.8	0.6	58	1,742,893	1,045,736	0.00
9/5/2006		75.9	83.7	0.0	84	2,524,189	-	0.00
				%DDC Uptime for 2006:	*71%*		Total DDC-6:	0.09
							Total Estimated Mass Removed in the Expanded Phase DDC System in 2006:	**29.4**

Notes:

[1]Days operating reflects number of days that the system was running during the quarter in which the sample was taken.

µg/L = micrograms per liter

lbs = pounds

Table 11
VOCs in Groundwater in 2006
Expanded DDC Pilot Test
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

		Sample Name	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Acetone	Chloroform	Methyl Ethyl Ketone (2-Butanone)	Tetrachloroethylene (PCE)	Toluene	Trichloroethylene (TCE)	Xylenes, Total
		CRDL	1.0	0.5	0.5	0.5	0.5	5.0	0.5	1.0	0.5	0.5	0.5	1.0
Location	Sample ID	Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
TP-1A	GWTP0140	2/10/2006	0.291 J	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**37**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0157	5/15/2006	0.355 J	0.144 J	< 0.1	0.255 J	< 0.103	< 2.02 UJ	**35.3**	0.691 J	< 0.1	< 0.056	< 0.2	< 0.175
TP-1B	GWTP0141	2/14/2006	0.947 J	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**31.8**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0142	2/14/2006	**1.04**	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**36.5**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0158	5/15/2006	0.811 J	0.245 J	< 0.1	0.288 J	< 0.103	< 1.49 UJ	**52.8**	0.716 J	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0174	9/7/2006	0.698 J	0.197 J	< 0.1	0.238 J	< 0.103	1.55 J	**45.9**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
TP-1C	GWTP0143	2/14/2006	**2.67**	**1.06**	**0.869**	**0.584**	< 0.103	< 0.37	**308**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0159	5/15/2006	**1.76**	**1.15**	**0.583**	**0.65**	< 0.103	< 1.74 UJ	**201**	0.666 J	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0175	9/7/2006	0.643 J	0.245 J	< 0.1	0.286 J	< 0.103	2.34 J	**41.8**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
TP-2A	GWTP0154	2/8/2006	< 0.104	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**16.3**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0160	5/16/2006	0.128 J	< 0.101	< 0.1	< 0.1	< 0.103	< 1.9 UJ	**23.2**	< 0.438	< 0.1	< 0.0705 UJ	< 0.2	< 0.175
TP-2B	GWTP0145	2/9/2006	0.852 J	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**54.5**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0161	5/16/2006	0.591 J	0.142 J	< 0.1	0.148 J	< 0.103	< 1.54 UJ	**41.7**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0177	9/6/2006	0.782 J	0.253 J	< 0.1	0.307 J	< 0.103	0.958 J	**54.7**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
TP-2C	GWTP0146	2/9/2006	**5.02**	**2.42**	**2.32**	**1.48**	< 0.103	< 0.37	**833**	< 0.438	< 0.1	< 0.056	0.382 J	< 0.175
	GWTP0162	5/15/2006	**3.06**	**1.42**	**1.14**	**1.07**	< 0.103	< 1.49 UJ	**402**	0.698 J	0.133 J	< 0.056	0.228 J	< 0.175
	GWTP0178	9/6/2006	**3.18**	**5.04**	**2.2**	**2.72**	0.176 J	1.12 J	**710**	< 0.438	0.301 J	< 0.056	0.366 J	< 0.175
TP-3A	GWTP0147	2/9/2006	< 0.104	< 0.101	< 0.1	< 0.1	< 0.103	0.65 J	**36.3**	0.765 J	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0163	5/9/2006	0.349 J	< 0.101	< 0.1	< 0.1	< 0.103	< 1.28 UJ	**27.6**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0164	5/9/2006	0.36 J	< 0.101	< 0.1	< 0.1	< 0.103	< 1.79 UJ	**29.4**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
TP-3B	GWTP0148	2/15/2006	0.907 J	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**36**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0165	5/9/2006	0.906 J	0.19 J	< 0.1	0.252 J	< 0.103	< 1.15 UJ	**52.8**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0180	9/6/2006	0.772 J	0.308 J	< 0.1	0.476 J	< 0.103	1.75 J	**59.2**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
TP-3C	GWTP0149	2/15/2006	**6.22**	**2.12**	**2.8**	**0.871**	< 0.103	< 0.37	**1040**	< 0.438	< 0.1	< 0.056	0.448 J	< 0.175
	GWTP0166	5/9/2006	**6.36**	**2.87**	**2.23**	**1.03**	< 0.103	< 1.49 UJ	**1040**	< 0.438	0.212 J	< 0.056	**0.521**	< 0.175
	GWTP0181	9/6/2006	**4.79**	**3.83**	**2.31**	**1.36**	< 0.103	1.4 J	**888**	< 0.438	0.26 J	< 0.056	0.327 J	< 0.175
TP-4A	GWTP0150	2/10/2006	0.457 J	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**52.6**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0167	5/12/2006	0.538 J	0.138 J	< 0.1	0.105 J	< 0.103	< 2.4 UJ	**39.9**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
TP-4B	GWTP0151	2/14/2006	**1.06**	< 0.101	< 0.1	0.268 J	< 0.103	< 0.37	**52.8**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0168	5/12/2006	**1.03**	**2.33**	**0.745**	**1.67**	< 0.103	< 0.37	**440**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0183	9/6/2006	0.879 J	**2.88**	**0.859**	**2.06**	< 0.103	1.73 J	**456**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
TP-4C	GWTP0152	2/14/2006	**4.24**	**12.1**	**4.79**	**3.31**	0.414 J	< 0.37	**900**	< 0.438	**1.51**	< 0.056	**1.39**	< 0.175
	GWTP0169	5/10/2006	**3.46**	**12.2**	**4.52**	**3.93**	0.414 J	< 1.22 UJ	**875**	0.626 J	**1.27**	< 0.056	**1.11**	< 0.175
	GWTP0184	9/6/2006	**3.04**	**17.5**	**5.29**	**7.86**	**0.58**	1.84 J	**1370**	< 0.438	**1.69**	< 0.056	**0.914**	< 0.175
TP-5A	GWTP0153	2/10/2006	0.608 J	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**36.4**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0170	5/16/2006	0.883 J	0.222 J	< 0.1	0.246 J	< 0.103	< 1.4 UJ	**55.1**	< 0.438	< 0.1	< 0.0846 UJ	< 0.2	< 0.175
TP-5B	GWTP0154	2/14/2006	**1.05**	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**40**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0171	5/16/2006	0.794 J	0.106 J	< 0.1	0.141 J	< 0.103	< 1.01 UJ	**30.2**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0187	9/6/2006	**2.81**	**1.13**	0.373 J	0.82	< 0.103	1.66 J	**279**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175

Table 11
VOCs in Groundwater in 2006
Expanded DDC Pilot Test
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

		Sample Name	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Acetone	Chloroform	Methyl Ethyl Ketone (2-Butanone)	Tetrachloroethylene (PCE)	Toluene	Trichloroethylene (TCE)	Xylenes, Total
		CRDL	1.0	0.5	0.5	0.5	0.5	5.0	0.5	1.0	0.5	0.5	0.5	1.0
Location	Sample ID	Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
TP-5C	GWTP0155	2/14/2006	**8.54**	**4.49**	**3.56**	**1.56**	< 0.103	< 0.37	**1060**	< 0.438	0.451 J	< 0.056	**0.735**	< 0.175
	GWTP0156	2/14/2006	**7.88**	**4.14**	**3.33**	**1.41**	< 0.103	< 0.37	**1190**	< 0.438	0.439 J	< 0.056	**0.72**	< 0.175
	GWTP0172	5/16/2006	**2.35**	**0.88**	0.294 J	0.471 J	< 0.103	< 1.81 UJ	**250**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWTP0188	9/7/2006	**2.25**	**0.901**	0.272 J	**0.601**	< 0.103	1.39 J	**224**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
UCD1-012	GWGW1986	2/1/2006	0.848 J	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**37.1**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWGW2009	5/18/2006	**1.31**	0.484 J	< 0.1	0.409 J	< 0.103	< 1.05 UJ	**104**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
UCD1-049	GWGW1994	2/3/2006	**1.2**	< 0.101	**1.28**	< 0.1	< 0.103	< 0.37	**146**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWGW2017	5/17/2006	**1.11**	0.341 J	**1.11**	0.107 J	< 0.103	< 0.862 UJ	**239**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWGW2065	8/3/2006	0.961 J	**0.586**	**0.839**	0.253 J	< 0.103	0.92 J	**348**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
UCD1-050	GWGW1995	2/3/2006	**6.28**	0.79	**2.06**	< 0.1	< 0.103	< 0.37	**513**	< 0.438	< 0.1	< 0.056	0.457 J	< 0.175
	GWGW2018	6/2/2006	**7.57**	**1.61**	**1.86**	0.39 J	< 0.103	< 2.58 UJ	**579**	< 0.438	< 0.1	< 0.056	0.287 J	< 0.175
	GWGW2066	8/3/2006	**9.93**	**1.3**	**0.834**	0.475 J	< 0.103	1.38 J	**433**	< 0.438	< 0.1	< 0.056	0.285 J	< 0.175
UCD1-051	GWGW1996	2/3/2006	**3.67**	**20.2**	**6.84**	**9.46**	**0.671**	< 0.37	**1300**	< 0.438	**2.38**	< 0.056	**1.08**	< 0.175
	GWGW1997	2/3/2006	**3.87**	**20.3**	**6.86**	**9.39**	**0.652**	< 0.37	**1300**	< 0.438	**2.32**	< 0.056	**1.06**	< 0.175
	GWGW2019	5/18/2006	**1.89**	**6.49**	**2.07**	**5.53**	0.334 J	< 1.05 UJ	**407**	< 0.438	**1.41**	< 0.056	**0.524**	< 0.175
	GWGW2067	8/2/2006	0.837 J	**2.4**	**0.515**	**3.4**	0.245 J	1.25 J	**162**	< 0.438	**0.826**	< 0.056	0.221 J	< 0.175
UCD2-048	GWGW2002	2/7/2006	**3.68**	**20.3**	**5.79**	**9.61**	**0.679**	< 0.37	**1380**	< 0.438	**2.12**	< 0.056	**1.01**	< 0.175
	GWGW2043	5/17/2006	< 0.104	< 0.101	< 0.1	< 0.1	< 0.103	< 0.72 UJ	**2.31**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175
	GWGW2072	8/2/2006	< 0.104	< 0.101	< 0.1	< 0.1	< 0.103	< 0.37	**11.4**	< 0.438	< 0.1	< 0.056	< 0.2	< 0.175

Notes:
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
µg/L = micrograms per liter

Table 12
IRA Chloroform Mass Removal
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

Month	Average Chloroform Concentration (µg/L)	Average Chloroform Concentration (kg/L)	Volume of Extracted Groundwater (gal)	Volume of Extracted Groundwater (L)	Mass of Chloroform Removed* (kg)	Mass of Chloroform Removed* (lbs)
Apr-98	29.9	2.99E-08	375,250	1,420,321	0.04	0.09
May-98	35.2	3.52E-08	1,531,590	5,797,068	0.20	0.45
Jun-98	37.3	3.73E-08	3,865,155	14,629,612	0.55	1.20
Jul-98	68.0	6.80E-08	5,968,366	22,590,265	1.54	3.39
Aug-98	80.0	8.00E-08	7,564,438	28,631,398	2.29	5.05
Sep-98	52.0	5.20E-08	8,221,465	31,118,245	1.62	3.57
Oct-98	58.0	5.80E-08	4,261,762	16,130,769	0.94	2.06
Nov-98	34.0	3.40E-08	4,786,293	18,116,119	0.62	1.36
Dec-98	25.3	2.53E-08	5,397,711	20,430,336	0.52	1.14
1998			***41,972,030***	***158,864,134***	***8.31***	***18.31***
Jan-99	23.1	2.31E-08	4,942,820	18,708,574	0.43	0.95
Feb-99	19.7	1.97E-08	4,838,400	18,313,344	0.36	0.80
Mar-99	14.5	1.45E-08	4,645,800	17,584,353	0.25	0.56
Apr-99	15.1	1.51E-08	5,010,000	18,962,850	0.29	0.63
May-99	23.6	2.36E-08	5,683,950	21,513,751	0.51	1.12
Jun-99	59.5	5.95E-08	6,480,000	24,526,800	1.46	3.22
Jul-99	106	1.06E-07	7,073,410	26,772,857	2.84	6.26
Aug-99	61.7	6.17E-08	7,588,800	28,723,608	1.77	3.91
Sep-99	44.1	4.41E-08	4,976,641	18,836,586	0.83	1.83
Oct-99	35.6	3.56E-08	6,453,540	24,426,649	0.87	1.92
Nov-99	2.8	2.80E-09	7,252,200	27,449,577	0.08	0.17
Dec-99	20.1	2.01E-08	5,730,825	21,691,173	0.44	0.96
1999			***70,676,386***	***267,510,121***	***10.12***	***22.32***
Jan-00	23.4	2.34E-08	5,200,800	19,685,028	0.46	1.02
Feb-00	23.8	2.38E-08	4,176,000	15,806,160	0.38	0.83
Mar-00	23.2	2.32E-08	2,394,000	9,061,290	0.21	0.46
Apr-00	29.2	2.92E-08	4,314,000	16,328,490	0.48	1.05
May-00	47.4	4.74E-08	4,741,200	17,945,442	0.85	1.88
Jun-00	67.5	6.75E-08	6,448,200	24,406,437	1.65	3.63
Jul-00	82.2	8.22E-08	7,197,300	27,241,781	2.24	4.94
Aug-00	70.9	7.09E-08	7,029,000	26,604,765	1.89	4.16
Sep-00	54.1	5.41E-08	5,406,000	20,461,710	1.11	2.44
Oct-00	53.7	5.37E-08	6,095,010	23,069,613	1.24	2.73
Nov-00	52.4	5.24E-08	2,226,850	8,428,627	0.44	0.97
Dec-00	38.4	3.84E-08	1,602,900	6,066,977	0.23	0.51
2000			***56,831,260***	***215,106,319***	***11.17***	***24.62***
Jan-01	50.2**	5.02E-08	449,313	1,700,650	0.09	0.19
Feb-01	50.2**	5.02E-08	162,940	616,728	0.03	0.07
Mar-01	50.2**	5.02E-08	62,700	237,320	0.01	0.03
Apr-01	50.2**	5.02E-08	263,634	997,855	0.05	0.11
May-01	50.2**	5.02E-08	797,451	3,018,352	0.15	0.33
Jun-01	50.2**	5.02E-08	709,686	2,686,162	0.13	0.30
Jul-01	50.2**	5.02E-08	40,060	151,627	0.01	0.02
Aug-01	62.0	6.20E-08	2,665,183	10,087,718	0.63	1.38
Sep-01	51.8	5.18E-08	895,401	3,389,093	0.18	0.39
Oct-01	41.6	4.16E-08	3,441,750	13,027,024	0.54	1.19
Nov-01	43.0	4.30E-08	2,750,430	10,410,378	0.45	0.99
Dec-01	44.1***	4.41E-08	294,673	1,115,337	0.05	0.11
2001			***12,533,221***	***47,438,241***	***2.31***	***5.10***

Table 12
IRA Chloroform Mass Removal
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

Month	Average Chloroform Concentration (µg/L)	Average Chloroform Concentration (kg/L)	Volume of Extracted Groundwater (gal)	Volume of Extracted Groundwater (L)	Mass of Chloroform Removed* (kg)	Mass of Chloroform Removed* (lbs)
Jan-02	45.1	4.51E-08	544,724	2,061,780	0.09	0.20
Feb-02	48.0	4.80E-08	2,516,876	9,526,376	0.46	1.01
Mar-02	29.6	2.96E-08	2,925,660	11,073,623	0.33	0.72
Apr-02	29.9	2.99E-08	3,319,827	12,565,545	0.38	0.83
May-02	41.9	4.19E-08	3,067,445	11,610,279	0.49	1.07
Jun-02	50.4****	5.04E-08	2,809,088	10,632,398	0.54	1.18
Jul-02	37.3****	3.73E-08	3,320,687	12,568,800	0.47	1.03
Aug-02	36.8	3.68E-08	3,145,128	11,904,309	0.44	0.97
Sep-02	32.8	3.28E-08	2,983,863	11,293,921	0.37	0.82
Oct-02	30.0	3.00E-08	2,432,162	9,205,733	0.28	0.61
Nov-02	44.9	4.49E-08	1,478,467	5,595,998	0.25	0.55
Dec-02	31.5	3.15E-08	2,309,269	8,740,583	0.28	0.61
2002			***30,853,196***	***116,779,347***	***4.36***	***9.60***
Jan-03	29.8	2.98E-08	1,249,925	4,730,966	0.14	0.31
Feb-03	34.1	3.41E-08	1,830,956	6,930,168	0.24	0.52
Mar-03	32.0	3.20E-08	961,671	3,639,925	0.12	0.26
Apr-03	28.5	2.85E-08	2,592,823	9,813,835	0.28	0.62
May-03	37.8	3.78E-08	1,507,418	5,705,577	0.22	0.48
Jun-03	37.8	3.78E-08	2,873,040	10,874,456	0.41	0.91
Jul-03	46.4	4.64E-08	3,935,911	14,897,423	0.69	1.52
Aug-03	59.5	5.95E-08	4,727,962	17,895,336	1.06	2.35
Sep-03	34.1	3.41E-08	1,173,818	4,442,901	0.15	0.33
Oct-03	37.1	3.71E-08	2,558,755	9,684,888	0.36	0.79
Nov-03	42.6	4.26E-08	3,008,790	11,388,270	0.49	1.07
Dec-03	32.3	3.23E-08	1,396,012	5,283,905	0.17	0.38
2003			***27,817,081***	***105,287,652***	***4.32***	***9.53***
Jan-04	31.3	3.13E-08	2,014,641	7,625,416	0.24	0.53
Feb-04	29.3	2.93E-08	2,174,737	8,231,380	0.24	0.53
Mar-04	17.8	1.78E-08	1,784,979	6,756,146	0.12	0.27
Apr-04	21.7	2.17E-08	2,076,523	7,859,640	0.17	0.38
May-04	54.9	5.49E-08	2,125,245	8,044,052	0.44	0.97
Jun-04	86.6	8.66E-08	1,624,490	6,148,695	0.53	1.17
Jul-04	83.4	8.34E-08	1,761,489	6,667,236	0.56	1.23
Aug-04	67.3	6.73E-08	2,102,050	7,956,259	0.54	1.18
Sep-04	69.0	6.90E-08	2,052,145	7,767,369	0.54	1.18
Oct-04	76.9	7.69E-08	1,507,468	5,705,766	0.44	0.97
Nov-04	47.4	4.74E-08	1,708,687	6,467,380	0.31	0.68
Dec-04	50.9	5.09E-08	976,880	3,697,491	0.19	0.41
2004			***21,909,334***	***82,926,829***	***4.31***	***9.49***
Jan-05	NC	NC	0	0	0.00	0.00
Feb-05	NC	NC	0	0	0.00	0.00
Mar-05	NC	NC	0	0	0.00	0.00
Apr-05	NC	NC	0	0	0.00	0.00
May-05	37.29****	3.72E-08	1,602,719	6,066,291	0.23	0.50
Jun-05	41.87****	4.18E-08	2,368,549	8,964,958	0.37	0.83
Jul-05	58.69****	5.86E-08	2,779,372	10,519,923	0.62	1.36
Aug-05	62.69****	6.26E-08	2,727,404	10,323,224	0.65	1.42
Sep-05	49.7	4.97E-08	2,392,174	9,054,379	0.45	0.99
Oct-05	46.5	4.65E-08	3,157,138	11,949,767	0.56	1.23
Nov-05	33.7	3.37E-08	1,437,031	5,439,162	0.18	0.40
Dec-05	39.2	3.92E-08	1,720,866	6,513,478	0.26	0.56
2005			***18,185,253***	***68,831,183***	***3.31***	***7.29***

Table 12
IRA Chloroform Mass Removal
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Month	Average Chloroform Concentration (µg/L)	Average Chloroform Concentration (kg/L)	Volume of Extracted Groundwater (gal)	Volume of Extracted Groundwater (L)	Mass of Chloroform Removed* (kg)	Mass of Chloroform Removed* (lbs)
Jan-06	29.8	2.98E-08	2,433,465	9,210,665	0.27	0.61
Feb-06	25.4	2.54E-08	1,717,473	6,500,635	0.17	0.36
Mar-06	13.2	1.32E-08	2,210,609	8,367,155	0.11	0.24
Apr-06	10.5	1.05E-08	2,721,957	10,302,607	0.11	0.24
May-06	NC	NC	2,750,319	10,409,957	NC	NC
Jun-06	38.5****	3.85E-08	3,603,153	13,637,934	0.53	1.16
Jul-06	166.02****	1.66E-07	2,672,985	10,117,248	1.68	3.70
Aug-06	108.23****	1.08E-07	3,129,613	11,845,585	1.28	2.82
Sep-06	73.8	7.38E-08	2,538,446	9,608,018	0.71	1.56
Oct-06	63.29****	6.32E-08	1,978,915	7,490,193	0.47	1.04
Nov-06	43.28****	4.32E-08	2,976,134	11,264,667	0.49	1.07
Dec-06	56.0	5.60E-08	1,268,125	4,799,853	0.27	0.59
2006			***30,001,194***	***113,554,519***	***6.08***	***13.40***
		GRAND TOTAL	**310,778,955**	**1,176,298,345**	**54.28**	**119.67**

Notes:
Annual Averages given in *Italics*
Totals given in **Bold**
* Mass Removed = Average Concentration x Volume of Extracted Groundwate
** Average Concentration calculated from Dec-00 and Aug-01
*** Average Concentration calculated from Nov-01 and Jan-02
**** Concentration represents the difference between the influent and effluent concentrations
µg/L = micrograms per liter
kg/L = kilograms per liter
gal = gallons
L = liters
kg = kilograms
lbs = pounds
NC = Not Collected

Table 13
2006 IRA Operations Summary
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

Month	%IRA Uptime	Groundwater Extracted (gallons)	Effective Monthly Extraction Rate (gpm)[1]	Recommended Monthly Extraction Rate (gpm)[2]	Chloroform Removed (pounds)	LTPS Irrigation Flow (gal)	Exceedances of Effluent Discharge Limits for Irrigaton
Jan	96%	2,433,465	55	40	0.61	1,108	
Feb	87%	1,717,473	38	40	0.36	79,464	
Mar	100%	2,210,609	50	40	0.24	1,000	
Apr	94%	2,721,957	61	80	0.24	0	
May	84%	2,750,319	62	45	NC	167,792	
Jun	89%	3,603,153	81	90	1.16	577,038	Chloroform, 15.8 µg/L
Jul	79%	2,672,985	60	60	3.70	415,674	Chloroform, 1.98 µg/L
Aug	93%	3,129,613	70	60	2.82	106,406	Chloroform, 1.77 µg/L
Sep	96%	2,538,446	57	60	1.56	1,172,603	
Oct	94%	1,978,915	46	50	1.04	257,787	Chloroform, 1.11 µg/L
Nov	69%	2,976,134	67	45	1.07	194,413	Chloroform, 3.02 µg/L
Dec	85%	1,268,125	28	40	0.59	70,380	
2006 Totals:	***89%***	***30,001,194***	***56***	***54***	***13.40***	***3,043,665***	

Notes:

1. Includes IRA system downtime (Effective Extraction Rate = Monthly Volume Extracted / Number of Minutes per Month).
2. The recommended extraction rate is based on the capture zone analysis completed in the Characterization of Chloroform in Groundwater/IRA Capture Zone Analysis (Geomatrix, 2004) and is the calculated rate required to maintain capture of the chloroform plume based on the average monthly gradient.

gal = gallons
gpm = gallons per minute
lbs = pounds
µg/L = micrograms per liter
NC =Not collected

Table 14
Summary of LTPS Soils Analytical Results
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

Analyte	Depth (feet bgs)	Average Concentration (mg/kg)					95% Upper Confidence Limits (mg/kg)					Significant Increase?		Significant Decrease?	
		Oct 2000	Nov 2003	Dec 2004	Dec 2005	Nov-06	Oct 2000	Nov 2003	Dec 2004	Dec 2005	Nov-06	t-Test[1]	Sign Test [2]	t-Test[1]	Sign Test [2]
Arsenic	1	7.1	7.3	7.4	8.0	7.8	11.0	8.6	9.6	12.2	9.5	no	no	no	no
	3	6.9	6.6	7.6	6.5	7.4	8.9	8.7	9.6	10.5	9.5	no	**Yes**	no	no
	5	6.7	6.6	7.2	6.5	10.6*	9.1	7.4	8.3	8.8	40.4	no	**Yes**	no	no
Barium	1	173.0	172.2	165.3	200.0	189.2	245.0	211.3	196.4	272.3	267.9	no	Yes	no	no
	3	172.5	139.8	157.8	170.5	166.5	258.2	209.8	287.0	229.6	209.4	no	no	no	no
	5	154.3	145.7	151.5	163.2	166.8	309.1	204.5	228.0	188.9	220.3	no	**Yes**	no	no
Cadmium	1	NC	0.1	1.2	NC	1.1	NC	0.2	1.3	NC	1.4	no	no	no	no
	3	NC	0.1	1.1	NC	0.9	NC	0.1	1.6	NC	1.2	no	no	no	no
	5	NC	0.1	1.1	NC	0.9	NC	0.2	1.4	NC	1.5	no	no	no	no
Chloride	1	74.9	8.5	13.5	12.7	8.1	105.7	20.9	48.1	34.9	17.9	no	no	**Yes**	**Yes**
	3	75.3	4.2	11.4	7.9	6.9	97.2	13.6	35.2	14.8	9.9	no	no	**Yes**	**Yes**
	5	76.8	3.2	5.9	8.0	7.1	105.5	7.8	16.0	24.6	17.1	no	no	**Yes**	**Yes**
Chromium	1	157.5	147.3	125.8	148.5	153.8	207.3	222.8	192.2	185.7	226.8	no	no	no	no
	3	151.3	172.8	140.0	166.3	171.7	271.0	282.4	218.2	221.2	232.7	no	no	no	no
	5	166.8	154.2	138.5	169.8	177.8	305.4	221.2	203.5	244.3	301.2	no	no	no	no
Copper	1	34.3	38.4	36.7	42.4	38.9	55.5	47.3	73.2	61.9	59.1	no	**Yes**	no	no
	3	32.4	30.0	33.6	34.3	30.7	52.1	45.8	60.5	51.5	36.0	no	no	no	no
	5	29.5	31.4	33.6	31.8	32.5	59.4	46.4	67.0	40.9	41.9	no	**Yes**	no	no
Lead	1	7.7	8.0	7.4	8.8	7.9	17.1	15.4	9.5	13.2	13.4	no	no	no	no
	3	5.9	6.6	8.6	6.9	6.1	8.9	13.2	27.5	9.2	17.0	no	no	no	no
	5	7.4	8.9	7.2	7.3	10.8*	21.9	35.7	17.6	14.3	40.9	no	**Yes**	no	no
Mercury	1	1.5	1.2	1.2	1.4	1.0	3.8	4.8	4.3	4.6	3.2	no	no	no	**Yes**
	3	1.6	1.0	0.8	1.1	0.8	4.5	3.9	2.5	3.8	2.7	no	no	**Yes**	**Yes**
	5	1.2	1.4	1.6	1.1	0.8	2.2	3.5	6.2	2.3	1.9	no	no	**Yes**	**Yes**
Nickel	1	275.7	278.8	233.8	287.3	283.8	335.0	384.5	330.6	352.0	340.2	no	**Yes**	no	no
	3	253.2	261.7	225.2	290.3	288.3	412.8	370.0	330.7	336.6	360.3	**Yes**	no	no	no
	5	267.7	274.7	238.5	294.4	300.5	454.4	366.2	294.7	392.5	371.2	no	**Yes**	no	no
Nitrate-N	1	7.6	0.7	2.8	7.3	ND	23.9	2.0	9.6	60.9	NC	no	no	no	**Yes**
	3	5.5	3.0	1.8	0.9	ND	14.6	12.8	5.7	1.9	NC	no	no	no	**Yes**
	5	9.6	6.6	7.6	0.7	ND	36.8	40.3	67.5	2.0	NC	no	no	no	**Yes**
Ammonia-N	1	10.9	8.7	17.3	16.2	2.8	33.0	31.5	46.4	32.6	5.2	no	no	**Yes**	**Yes**
	3	9.6	3.1	9.3	9.0	2.5	41.5	12.0	33.7	18.5	5.4	no	no	**Yes**	**Yes**
	5	5.9	3.2	8.1	7.4	3.6	10.4	11.6	36.0	14.8	10.4	no	no	no	**Yes**

Table 14
Summary of LTPS Soils Analytical Results
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

Analyte	Depth (feet bgs)	Average Concentration (mg/kg)					95% Upper Confidence Limits (mg/kg)					Significant Increase?		Significant Decrease?	
		Oct 2000	Nov 2003	Dec 2004	Dec 2005	Nov-06	Oct 2000	Nov 2003	Dec 2004	Dec 2005	Nov-06	t-Test(1)	Sign Test (2)	t-Test(1)	Sign Test (2)
Total-N	1	476.3	543.3	802.8	696.7	620.7	1038.7	886.6	2008.3	1554.7	1368.8	no	no	no	no
	3	379.7	325.7	428.5	357.0	274.7	1569.4	720.5	1530.5	728.5	670.3	no	no	no	**Yes**
	5	224.7	313.7	383.7	290.2	358.0	417.1	709.3	1675.5	440.4	1116.9	no	**Yes**	no	no
Phosphate	1	6.2	3.7	4.2	3.6	ND	15.0	13.1	NC	15.1	NC	no	no	no	no
	3	NC	NC	2.4	0.4	ND	NC	NC	3.6	1.2	NC	no	no	no	no
	5	NC	NC	3.5	0.3	ND	NC	NC	NC	NC	NC	no	no	no	no
pH	1	7.8	8.0	7.9	7.8	7.9	8.3	8.5	8.8	8.1	8.5	no	no	no	no
	3	7.9	8.2	8.1	7.8	8.0	8.7	8.7	8.6	8.3	8.6	no	no	no	no
	5	8.3	8.6	8.2	8.0	8.2	9.5	9.4	8.9	8.6	8.5	no	no	no	**Yes**
Selenium	1	2.1	NC	1.2	NC	ND	2.9	NC	3.2	NC	NC	no	no	no	no
	3	2.2	NC	1.4	NC	ND	2.9	NC	3.2	NC	NC	no	no	no	no
	5	2.4	NC	1.2	NC	ND	3.5	NC	2.3	NC	NC	no	no	no	no
Sulfate	1	12.9	24.7	34.6	24.4	17.6	52.5	31.6	113.8	69.4	45.3	no	no	no	no
	3	12.3	15.4	21.9	17.0	15.4	22.3	52.3	61.5	37.9	22.9	no	**Yes**	no	no
	5	13.4	16.6	22.3	20.5	17.7	46.6	33.3	57.9	34.0	28.9	no	no	no	no
Zinc	1	64.4	72.4	62.2	80.4	79.6	88.4	88.0	77.5	114.8	104.0	**Yes**	**Yes**	no	no
	3	61.6	61.0	61.3	68.1	67.6	89.3	92.6	120.7	921.8	73.0	**Yes**	**Yes**	no	no
	5	57.2	66.0	59.5	65.4	70.9	104.0	116.9	111.8	77.8	81.6	**Yes**	**Yes**	no	no
TOC	1	6126.7	5526.7	7626.7	6760.0	5658.3	20930.9	14471.5	20038.5	16295.7	11082.9	no	no	no	no
	3	3258.3	2393.3	3366.7	3443.3	2585.0	12710.1	6569.3	14020.5	8856.1	4046.3	no	no	no	no
	5	2275.0	2680.0	4095.0	2680.0	2675.0	7720.5	8408.1	16642.8	4760.4	5886.9	no	**Yes**	no	no

(1) "student's t" test - a parametric statitistical test, assuming a normal data distribution (Gilbert, 1987).
(2) "Sign Test" a non parametric test for using paired data with small sample sizes (Gilbert, 1987).
(3) Tested using alpha = 0.05.
NC - Not calculated non-detectable values.
ND = Non detect, results were below detection limit.
* = Sample average is significantly higher than expected due to one of the results being more than 3 times the historical average

Table 15
Summary of LTPS Soils Analytical Results
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Analyte	Depth (feet bgs)	Average Concentration (mg/kg) Oct 2000	Nov 2003	Dec 2004	Dec 2005	Nov 2006	Total applied as effluent 2003-2006 (1) (lbs)	Statistically[2] Significant Change? Nov 2003	Dec 2004	Dec 2005	Nov 2006
Arsenic	1	7.1	7.3	7.4	8.0	7.8		no	no	no	no
	3	6.9	6.6	7.6	6.5	7.4		no	↗	no	↗
	5	6.7	6.6	7.2	6.5	10.6*	0.09	no	no	no	↗
Barium	1	173.0	172.2	165.3	200.0	189.2		no	no	↗	↗
	3	172.5	139.8	157.8	170.5	166.5		↘	no	no	no
	5	154.3	145.7	151.5	163.2	166.8	12.5	no	no	↗	↗
Cadmium	1	NC	0.1	1.2	NC	1.1		no	↗	no	no
	3	NC	0.1	1.1	NC	0.9		no	↗	no	no
	5	NC	0.1	1.1	NC	0.9	0.0036	no	↗	no	no
Chloride	1	74.9	8.5	13.5	12.7	8.1		↘	↘	↘	↘
	3	75.3	4.2	11.4	7.9	6.9		↘	↘	↘	↘
	5	76.8	3.2	5.9	8.0	7.1	NC	↘	↘	↘	↘
Chromium	1	157.5	147.3	125.8	148.5	153.8		no	↗	no	no
	3	151.3	172.8	140.0	166.3	171.7		no	no	no	no
	5	166.8	154.2	138.5	169.8	177.8	1.7	no	↗	no	no
Copper	1	34.3	38.4	36.7	42.4	38.9		no	no	↗	↗
	3	32.4	30.0	33.6	34.3	30.7		no	no	no	no
	5	29.5	31.4	33.6	31.8	32.5	0.16	no	no	↗	↗
Lead	1	7.7	8.0	7.4	8.8	7.9		no	no	no	no
	3	5.9	6.6	8.6	6.9	6.1		no	no	↗	no
	5	7.4	8.9	7.2	7.3	10.8*	0.024	no	no	↗	↗
Mercury	1	1.5	1.2	1.2	1.4	1.0		no	no	no	↘
	3	1.6	1.0	0.8	1.1	0.8		no	↘	↘	↘
	5	1.2	1.4	1.6	1.1	0.8	0.002	no	no	no	↘
Nickel	1	275.7	278.8	233.8	287.3	283.8		no	↘	↗	↗
	3	253.2	261.7	225.2	290.3	288.3		no	↘	↗	no
	5	267.7	274.7	238.5	294.4	300.5	0.133	no	no	no	↗
Nitrate-N	1	7.6	0.7	2.8	7.3	ND		↘	↘	↘	↘
	3	5.5	3.0	1.8	0.9	ND		↘	↘	↘	↘
	5	9.6	6.6	7.6	0.7	ND	NC	↘	no	↘	↘
Ammonia-N	1	10.9	8.7	17.3	16.2	2.8		no	no	↗	↘
	3	9.6	3.1	9.3	9.0	2.5		no	no	↗	↘
	5	5.9	3.2	8.1	7.4	3.6	NC	no	no	no	↘
Total-N	1	476.3	543.3	802.8	696.7	620.7		no	↗	no	no
	3	379.7	325.7	428.5	357.0	274.7		no	no	no	↘
	5	224.7	313.7	383.7	290.2	358.0	NC	↗	↘	↗	↗
Phosphate	1	6.2	3.7	4.2	3.6	ND		no	no	no	no
	3	NC	NC	2.4	0.4	ND		no	↗	no	no
	5	NC	NC	3.5	0.3	ND	NC	no	↘	no	no
pH	1	7.8	8.0	7.9	7.8	7.9		↗	no	no	no
	3	7.9	8.2	8.1	7.8	8.0		↗	↗	no	no
	5	8.3	8.6	8.2	8.0	8.2	NC	↗	no	no	↘
Selenium	1	2.1	NC	1.2	NC	ND		no	no	no	no
	3	2.2	NC	1.4	NC	ND		no	no	no	no
	5	2.4	NC	1.2	NC	ND	0.111	no	no	no	no
Sulfate	1	12.9	24.7	34.6	24.4	17.6		↗	↗	↗	no
	3	12.3	15.4	21.9	17.0	15.4		no	no	↗	↗
	5	13.4	16.6	22.3	20.5	17.7	NC	no	↗	no	no
Zinc	1	64.4	72.4	62.2	80.4	79.6		↗	no	↗	↗
	3	61.6	61.0	61.3	68.1	67.6		no	no	↗	↗
	5	57.2	66.0	59.5	65.4	70.9	NC	↗	↗	↗	↗
TOC	1	6126.7	5526.7	7626.7	6760.0	5658.3		no	no	no	no
	3	3258.3	2393.3	3366.7	3443.3	2585.0		no	no	no	no
	5	2275.0	2680.0	4095.0	2680.0	2675.0	NC	no	↗	↗	↗

(1) mass calculated based on measured volume and quality of irrigation water applied to 2.6 acre LTPS, 2003 to 2005
(2) "Sign Test" a non parametric test (alpha = 0.05) for data with small sample sizes (Gilbert, 1987).
↗ - indicates statistically significant increased concentration compared to 2000 baseline
↘ - indicates statistically significant decreased concentration compared to 2000 baseline
NC - Not calculated, present in animal waste or fertilizer.
ND = Non detect, results were below detection limit.
* = Sample average is significantly higher than expected due to one of the results being more than 3 times the historical average

Table 16
2006 LTPS HSU-1 Groundwater Analytical Results
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Analyte	Well	Units	Baseline Concentration (including all available data prior to 2003) [3]		2006 Data			
			Low	High	Q1	Q2	Q3	Q4
Arsenic	UCD1-011[1]	µg/L	1.38	7.85	NS	2.57	4.32	NS
	UCD1-018[2]	µg/L	1.1	8.11	NS	2.63	<4.26	NS
	UCD1-025	µg/L	<0.117	5.1	1.79	<1.5	2.73	NS
	UCD1-027Z1	µg/L	1.11	8.6	NS	<1.5	3.11	NS
	UCD1-027Z2	µg/L	<0.818	8.4	NS	<1.5	2.09	NS
	UCD1-027Z3	µg/L	<0.818	5	NS	<1.5	1.64	NS
	UCD1-028	µg/L	<0.117	7.7	<1.5	2.36	<4.02	NS
Barium	UCD1-011[1]	µg/L	120	369	NS	336	**379**	NS
	UCD1-018[2]	µg/L	50	226	NS	116	122	NS
	UCD1-025	µg/L	124	346	317	288	279	NS
	UCD1-027Z1	µg/L	188	240	NS	**14.9**	238	NS
	UCD1-027Z2	µg/L	194	228	NS	**243**	**303**	NS
	UCD1-027Z3	µg/L	152	190	NS	175	**207**	NS
	UCD1-028	µg/L	202	329	326	296	311	NS
Cadmium	UCD1-011[1]	µg/L	<0.014	<1	NS	<0.1	<0.1	NS
	UCD1-018[2]	µg/L	<0.014	<1	NS	<0.1	0.202	NS
	UCD1-025	µg/L	<0.014	<1	<0.1	<0.1	<0.1	NS
	UCD1-027Z1	µg/L	0.335	0.34	NS	**<0.1**	**<0.1**	NS
	UCD1-027Z2	µg/L	0.026	0.03	NS	<0.1	<0.1	NS
	UCD1-027Z3	µg/L	<0.022	<5	NS	<0.1	<0.1	NS
	UCD1-028	µg/L	<0.014	<1	<0.1	<0.1	<0.1	NS
Chloride	UCD1-011[1]	mg/L	35.6	92	53.1	61.8	55	NS
	UCD1-018[2]	mg/L	16.5	44	**14.2**	**12.7**	**11.9**	NS
	UCD1-025	mg/L	24	65	38	44.7	39.6	NS
	UCD1-027Z1	mg/L	62.5	62.5	**17.1**	**21.7**	**31.4**	NS
	UCD1-027Z2	mg/L	34.2	34.2	**44.1**	**34.6**	**38.4**	NS
	UCD1-027Z3	mg/L	23.7	32	29.2	23.9	25.8	NS
	UCD1-028	mg/L	23.5	58.9	46	45	46.9	NS
Chromium	UCD1-011[1]	µg/L	152	450	**149**	**143**	**141**	NS
	UCD1-018[2]	µg/L	13	50	**9.97**	**8.18**	**7.5**	NS
	UCD1-025	µg/L	248	392	**171**	**201**	**168**	NS
	UCD1-027Z1	µg/L	<0.082	3.8	<1	**40.8**	<1	NS
	UCD1-027Z2	µg/L	<0.082	4.7	<1	<1	<1	NS
	UCD1-027Z3	µg/L	<0.082	5.1	NS	<1	<1	NS
	UCD1-028	µg/L	454	613	**446**	550	462	NS
Copper	UCD1-011[1]	µg/L	0.885	10	NS	**0.711**	**<1.11**	NS
	UCD1-018[2]	µg/L	<0.033	1.7	NS	0.962	1.09	NS
	UCD1-025	µg/L	<0.039	4.7	<3.26	1.22	1.01	NS
	UCD1-027Z1	µg/L	<0.026	<1.91	NS	0.626	1.38	NS
	UCD1-027Z2	µg/L	<0.026	<1.77	NS	0.728	<1	NS
	UCD1-027Z3	µg/L	<0.026	<1.69	NS	0.606	<1	NS
	UCD1-028	µg/L	0.75	13.7	<3.58	1.34	1.04	NS

Table 16
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Analyte	Well	Units	Baseline Concentration (including all available data prior to 2003) [3]		2006 Data			
			Low	High	Q1	Q2	Q3	Q4
Lead	UCD1-011[1]	µg/L	<0.008	7.4	NS	<0.5	<0.5	NS
	UCD1-018[2]	µg/L	<0.008	1.3	NS	<0.5	<0.5	NS
	UCD1-025	µg/L	<0.008	2.4	<0.5	<0.5	<0.5	NS
	UCD1-027Z1	µg/L	<0.002	0.125	NS	<0.5	<0.5	NS
	UCD1-027Z2	µg/L	<0.002	0.076	NS	<0.5	<0.5	NS
	UCD1-027Z3	µg/L	<0.002	0.185	NS	<0.5	<0.5	NS
	UCD1-028	µg/L	<0.01	0.24	<0.5	<0.5	<0.5	NS
Mercury	UCD1-011[1]	µg/L	<0.039	0.44	NS	<0.06	<0.06	NS
	UCD1-018[2]	µg/L	<0.039	0.38	NS	<0.06	<0.06	NS
	UCD1-025	µg/L	<0.039	<0.2	<0.05	<0.06	<0.06	NS
	UCD1-027Z1	µg/L	<0.039	<0.2	NS	**0.838**	<0.06	NS
	UCD1-027Z2	µg/L	<0.039	<0.2	NS	<0.06	<0.06	NS
	UCD1-027Z3	µg/L	<0.039	<0.2	NS	<0.06	<0.06	NS
	UCD1-028	µg/L	<0.039	<0.2	<0.05	<0.06	<0.06	NS
Nickel	UCD1-011[1]	µg/L	0.692	40	NS	<2.1	2.07	NS
	UCD1-018[2]	µg/L	2.57	96	NS	**1.75**	**1.77**	NS
	UCD1-025	µg/L	3.9	233	25.6	23.8	20.7	NS
	UCD1-027Z1	µg/L	32.5	1710	NS	**17100**	665	NS
	UCD1-027Z2	µg/L	11.6	1170	NS	670	529	NS
	UCD1-027Z3	µg/L	6.9	410	NS	156	200	NS
	UCD1-028	µg/L	1.6	27.5	3.02	2.89	1.91	NS
Nitrate-N	UCD1-011[1]	mg/L	4.7	30	**35.1**	**34.5**	**31.6**	NS
	UCD1-018[2]	mg/L	2	27	2.39	**1.84**	**1.92**	NS
	UCD1-025	mg/L	11	32.7	28.5	**37.1**	32.6	NS
	UCD1-027Z1	mg/L	<0.1	7.6	4.95	**21.4**	**28.6**	NS
	UCD1-027Z2	mg/L	<0.1	2.8	**14.8**	**22.4**	**23.4**	NS
	UCD1-027Z3	mg/L	<0.1	4	**6.49**	**7.33**	**7.38**	NS
	UCD1-028	mg/L	5.4	63.9	**64.7**	**66.3**	62.7	NS
pH	UCD1-011[1]	SU	6.95	7.85	7.16	7.77	7.4	NS
	UCD1-018[2]	SU	7.11	7.89	NS	**8.95**	**8.2**	NS
	UCD1-025	SU	6.84	7.95	NS	7.32	7.6	NS
	UCD1-027Z1	SU	6.63	7.9	**8.19**	7.4	7.02	NS
	UCD1-027Z2	SU	6.76	7.3	**7.8**	**7.7**	**7.6**	NS
	UCD1-027Z3	SU	6.68	7.6	**7.94**	**7.68**		NS
	UCD1-028	SU	6.9	7.59	NS	7.33	**8**	NS
Selenium	UCD1-011[1]	µg/L	3.7	31	NS	11.3	7.39	NS
	UCD1-018[2]	µg/L	<0.431	5.6	NS	<2.5	<2.5	NS
	UCD1-025	µg/L	5.5	9.5	<2.5	<2.5	<2.5	NS
	UCD1-027Z1	µg/L	<0.49	4.15	NS	3.96	<2.5	NS
	UCD1-027Z2	µg/L	<0.49	1.63	NS	**3.23**	<2.5	NS
	UCD1-027Z3	µg/L	<0.49	1.48	NS	<2.5	<2.5	NS
	UCD1-028	µg/L	8	15.9	12.5	13.2	12.3	NS

Table 16
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Analyte	Well	Units	Baseline Concentration (including all available data prior to 2003) (3)		2006 Data			
			Low	High	Q1	Q2	Q3	Q4
Sulfate	UCD1-011(1)	mg/L	39	232	36.2	37.6	37.4	NS
	UCD1-018(2)	mg/L	32	50	35.6	33.5	32.4	NS
	UCD1-025	mg/L	37	72.2	30.9	31.8	28.4	NS
	UCD1-027Z1	mg/L	115	115	**25.1**	**24.3**	**26.2**	NS
	UCD1-027Z2	mg/L	36.7	36.7	**36.2**	**36.6**	**36.2**	NS
	UCD1-027Z3	mg/L	19	40.1	37.7	38.2	38	NS
	UCD1-028	mg/L	37.5	42.4	**44**	40	40.9	NS
Zinc	UCD1-011(1)	ug/L	1.62	30	NS	<3.65	3.25	NS
	UCD1-018(2)	ug/L	<0.059	30	NS	<3.02	4.91	NS
	UCD1-025	ug/L	<0.142	65.7	<7.13	<5.99	<6.83	NS
	UCD1-027Z1	ug/L	559	740	NS	**24.8**	**251**	NS
	UCD1-027Z2	ug/L	218	286	NS	**212**	**197**	NS
	UCD1-027Z3	ug/L	5.4	97.1	NS	**113**	**108**	NS
	UCD1-028	ug/L	<0.142	58.4	<5.64	<3.2	3.69	NS
Total Organic Carbon (TOC)	UCD1-011(1)	mg/L	<0.5	1.9	**2.05**	1.87	**2.03**	NS
	UCD1-018(2)	mg/L	<0.5	5.2	1.63	1.37	1.27	NS
	UCD1-025	mg/L	0.66	1.3	**2.14**	**2.16**	**1.84**	NS
	UCD1-027Z1	mg/L	7.59	7.59	**4.78**	NS	**18.8**	NS
	UCD1-027Z2	mg/L	4.09	4.09	**4.51**	NS	**3.3**	NS
	UCD1-027Z3	mg/L	7	10	NS	NS	**5.82**	NS
	UCD1-028	mg/L	0.33	22.1	1.96	2.01	2.05	NS
Total Dissolved Solids (TDS)	UCD1-011(1)	mg/L	77	9190	879	928	945	NS
	UCD1-018(2)	mg/L	428	2450	**418**	**417**	**414**	NS
	UCD1-025	mg/L	390	910	777	828	837	NS
	UCD1-027Z1	mg/L	882	940	**510**	**721**	**857**	NS
	UCD1-027Z2	mg/L	460	655	**756**	**751**	**774**	NS
	UCD1-027Z3	mg/L	370	680	643	575	581	NS
	UCD1-028	mg/L	988	1230	1180	1140	1140	NS

Notes:
(1) Upgradient of LTPS, see Figure 4 for location.
(2) Background HSU-1 groundwater monitoring well, see Figure 4 for location.
(3) Baseline data includes all groundwater data collected prior to operation of LTPS.
Results in **BOLD** fall outside of the baseline data range.
NS = not sampled
SU = Standard pH units
µg/L = micrograms per liter
mg/L = milligrams per liter

Table 17
2006 Groundwater Elevation Data
2006 Comprehensive Annual Water Monitoring Report
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Davis, California

HSU	Well	Feb-06	May-06	22-Aug-06	1-Nov-06
HSU-1	UCD1-001	NM	30.07	7.08	11.64
	UCD1-003	NM	NM	6.73	11.23
	UCD1-004	NM	29.78	8.62	12.18
	UCD1-005	NM	NM	6.89	11.72
	UCD1-006	NM	NM	7.38	12.18
	UCD1-008	NM	NM	6.82	11.12
	UCD1-009	NM	NM	6.14	10.91
	UCD1-010	NM	29.3	5.06	10.77
	UCD1-011	17.9	28.7	5.57	10.76
	UCD1-012	18.38	28.71	6.14	10.92
	UCD1-013	NM	29.83	6.82	11.11
	UCD1-018	26.23	31.13	9.56	9.80
	UCD1-019	NM	28.7	6.09	11.02
	UCD1-020	NM	28.61	6.68	11.26
	UCD1-021	NM	27.47	6.8	11.37
	UCD1-022	NM	29.46	7.41	11.86
	UCD1-023	NM	30.34	8.17	12.02
	UCD1-024	NM	NM	3.2	12.23
	UCD1-025	17.65	25.94	5.12	10.08
	UCD1-028	17.65	25.75	4.67	10.62
	UCD1-034	NM	NM	8.68	12.28
	UCD1-049	18.21	29.04	5.92	10.85
	UCD1-050	18.25	28.96	6.51	10.74
	UCD1-051	18.62	28.99	6.03	10.75
	UCD1-052	17.79	24.34	4.87	10.88
	UCD1-053	17.82	25.82	4.55	10.77
	UCD1-054	NM	NM	8.74	10.43
HSU-2	UCD2-007	NM	28.3	6.08	11.36
	UCD2-014	NM	28.02	5.71	11.10
	UCD2-015	NM	32.78	6.65	11.61
	UCD2-016	NM	28.34	6.35	11.61
	UCD2-017	NM	29.03	7.5	12.05
	UCD2-026	NM	23.88	5.21	10.87
	UCD2-029	17.68	28.8	4.99	10.41
	UCD2-030	NM	27.14	3.78	10.44
	UCD2-031	NM	28.88	3.58	10.76
	UCD2-032	NM	26.47	4.06	10.16
	UCD2-035	NM	38.08	6.13	11.32
	UCD2-036	NM	26.18	6.06	11.52
	UCD2-037	NM	28.4	6.85	12.05
	UCD2-038	NM	38.99	6.98	11.82
	UCD2-039	NM	28.4	5.23	10.95
	UCD2-040	17.31	24.94	3.85	10.12
	UCD2-045	NM	27.63	3.73	10.13
	UCD2-046	NM	26.05	1.37	8.58
	UCD2-048	17.87	27.97	5.48	11.00
UCD-4	UCD4-041	NM	25.39	-2.11	8.95
	UCD4-042	NM	25.18	-3.93	8.96
	UCD4-043	NM	20.79	-4.72	8.74
	UCD4-044	NM	20.72	-2.07	9.93
	UCD4-047	NM	22.07	-7.66	7.38
IRA System	EW2-01	NM	NM	NM	11.56
	IW2-01	NM	NM	NM	11.79

Notes:
All data shown is in feet mean sea level (ft msl)
February 2006 data was collected from 2/1/06 through 2/7/06
May 2006 data was collected from 5/1/06 through 5/22/06
NM = Not Measured

Table 18
2006 Groundwater Flow and Gradients
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

	Range of general flow directions	Range of horizontal gradients (feet/feet)
HSU-1		
February 2006	northeast to north-northeast	0.001 to 0.004
May 2006	east to north-northeast	0.01 to 0.002
July 2006	northeast to north-northeast	0.001 to 0.004
November 2006	east to northeast	0.003 to 0.003
HSU-2		
February 2006	northeast	0.0004 to 0.001
May 2006	northeast	0.001
July 2006	northeast	0.001 to 0.005
November 2006	east to northeast	0.0005 to 0.001
HSU-4		
Not Measured	--	--
May 2006	Could not be determined	Could not be determined
July 2006	northeast	0.003 to 0.004
November 2006	east-northeast	0.001 to 0.03

Table 19
Vertical Gradient between Select HSU-1/HSU-2 and HSU-2/HSU-4 Wells
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

Date Measured	UCD1-021 and UCD2-007	UCD1-028 and UCD2-029	UCD1-013 and UCD2-014	UCD1-051 and UCD2-048	UCD2-029 and UCD4-044	UCD2-040 and UCD4-041	UCD2-032 and UCD4-042
February-06	--	-0.0011	--	0.0212	--	--	--
May-06	-0.0371	-0.1130	0.0797	0.0289	0.0478	-0.0026	0.0079
August-06	0.0321	-0.0119	0.0489	0.0156	0.0418	0.0350	0.0488
November-06	0.0004	0.0078	0.0004	-0.0071	0.0028	0.0069	0.0073
Difference of Screens (feet)	22.4	27	22.7	35.3	169	170.5	163.58

Notes:

Vertical Gradient = feet/foot

Water levels for all wells were not measured due to staffing issues during February.

A negative value denotes an upward gradient.

Table 20
Summary of Proposed 2007 Groundwater Monitoring
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

Well	VOC	Chromium	Nitrate	EC	Tritium	Carbon-14
UCD2-7			X	X		
UCD1-10			X	X		
UCD1-11		X	X	X	X	X
UCD1-12	X	X	X	X		X
UCD1-13		X	X	X	X	X
UCD2-14			X	X	X	X
UCD1-19		X	X	X		
UCD1-21			X	X		
UCD1-24			X	X		
UCD1-25		X	X	X		
UCD2-26		X		X		
UCD1-28		X	X	X		
UCD2-29	X	X	X	X		
UCD2-30	X	X	X	X		
UCD2-31	X	X		X		
UCD2-32	X			X		
UCD2-39				X	X	X
UCD2-40	X	X		X		
UCD2-46	X			X		
UCD2-48	X		X	X		
UCD1-49	X			X		
UCD1-50	X			X		
UCD1-51	X			X		
UCD1-52		X	X	X		
UCD1-53		X	X	X		
UCD1-54			X	X		

Table 21
Proposed 2007 Combined Groundwater and IRA Treatment System Program
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

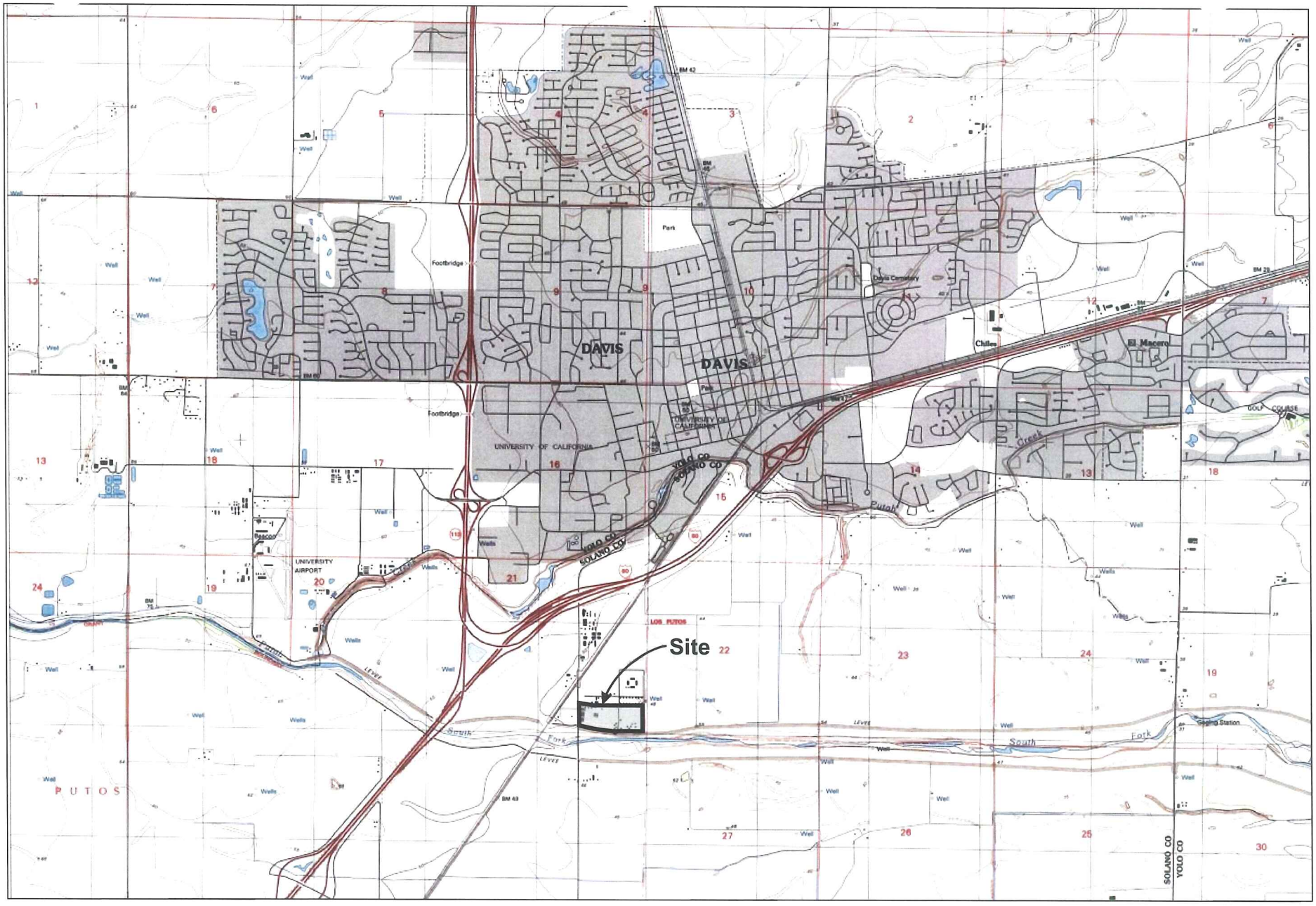
HSU	Program	Wells	Groundwater Level	Radiological Analytes		Chemical Analytes									Electrical Conductivity (EC)
				Tritium	C-14	VOC	Nitrates (as N)	Total Chromium	Metals	TOC	TDS	Alkalinity	Anions	Cations	
HSU-1	RI/FS, IRA, LTPS	UCD1-010	Q	--	--	--	W Su	--	--	--	--	--	--	--	W Su
	RI/FS, IRA, DDC	UCD1-011	Q	W Su	W Su	--	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD1-012	Q	--	W Su	W Su	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD1-013	Q	W Su	W Su	--	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD1-019	Q	--	--	--	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD1-021	Q	--	--	--	W Su	--	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD1-024	Q	--	--	--	W Su	--	--	--	--	--	--	--	W Su
	RI/FS, IRA, LTPS	UCD1-025	Q	--	--	--	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA, LTPS	UCD1-028	Q	--	--	--	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA, DDC	UCD1-049	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	RI/FS, IRA, DDC	UCD1-050	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	RI/FS, IRA, DDC	UCD1-051	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD1-052	Q	--	--	--	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD1-053	Q	--	--	--	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD1-054	Q	--	--	--	W Su	--	--	--	--	--	--	--	W Su
	DDC	DDC-1-A, B, and C	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	DDC	DDC-2-A, B, and C	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	DDC	DDC-3-A, B, and C	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	DDC	DDC-4-A, B, and C	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	DDC	DDC-5-A, B, and C	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	DDC	DDC-6-A, B, and C	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
HSU-2	RI/FS, IRA	UCD2-007	Q	--	--	--	W Su	--	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-014	Q	W Su	W Su	--	W Su	--	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-026	Q	--	--	--	--	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-029	Q	--	--	W Su	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-030	Q	--	--	W Su	W Su	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-031	Q	--	--	W Su	--	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-032	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-039	Q	W Su	W Su	--	--	--	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-040	Q	--	--	W Su	--	W Su	--	--	--	--	--	--	W Su
	RI/FS, IRA	UCD2-046	Q	--	--	W Su	--	--	--	--	--	--	--	--	W Su
	RI/FS, IRA, DDC	UCD2-048	Q	--	--	W Su	W Su	--	--	--	--	--	--	--	W Su
	Treatment System	Influent	(EW2-01) Q	M	M	M	--	--	--	M	--	--	--	--	--
		Effluent	(IW2-01) Q	--	--	M	M	M	M	--	M	M	M	M	--

Notes:

1. All Site wells will be sampled every two years for all six target constituents.
2. Water levels will be measured quarterly in all TP wells.
3. If the IRA Groundwater Treatment System is shut down for a significant amount of time, groundwater monitoring well UCD2-30 and UCD2-40 will be sampled for VOCs on a monthly basis until the IRA System is back online.
4. If the Expanded DDC Pilot Test System is shut down for a significant amount of time, groundwater monitoring well UCD2-48 will be sampled for VOCs on a monthly basis.
5. If significant increases of target constituents are noted in the semi-annual results, quarterly monitoring will be reinstated for those constituents.
6. Significant increases in groundwater monitoring wells UCD2-30 or UCD2-40 specifically will result in a more frequent sampling schedule of those wells.

W = Sampled During Winter Quarter
Su = Sampled During Summer Quarter
Q = Measured Quarterly
M = Measured Monthly

FIGURES



NORTH

0 2000 4000

Scale in Feet

Source: TOPO! 2001, National Geographic

SITE VICINITY MAP

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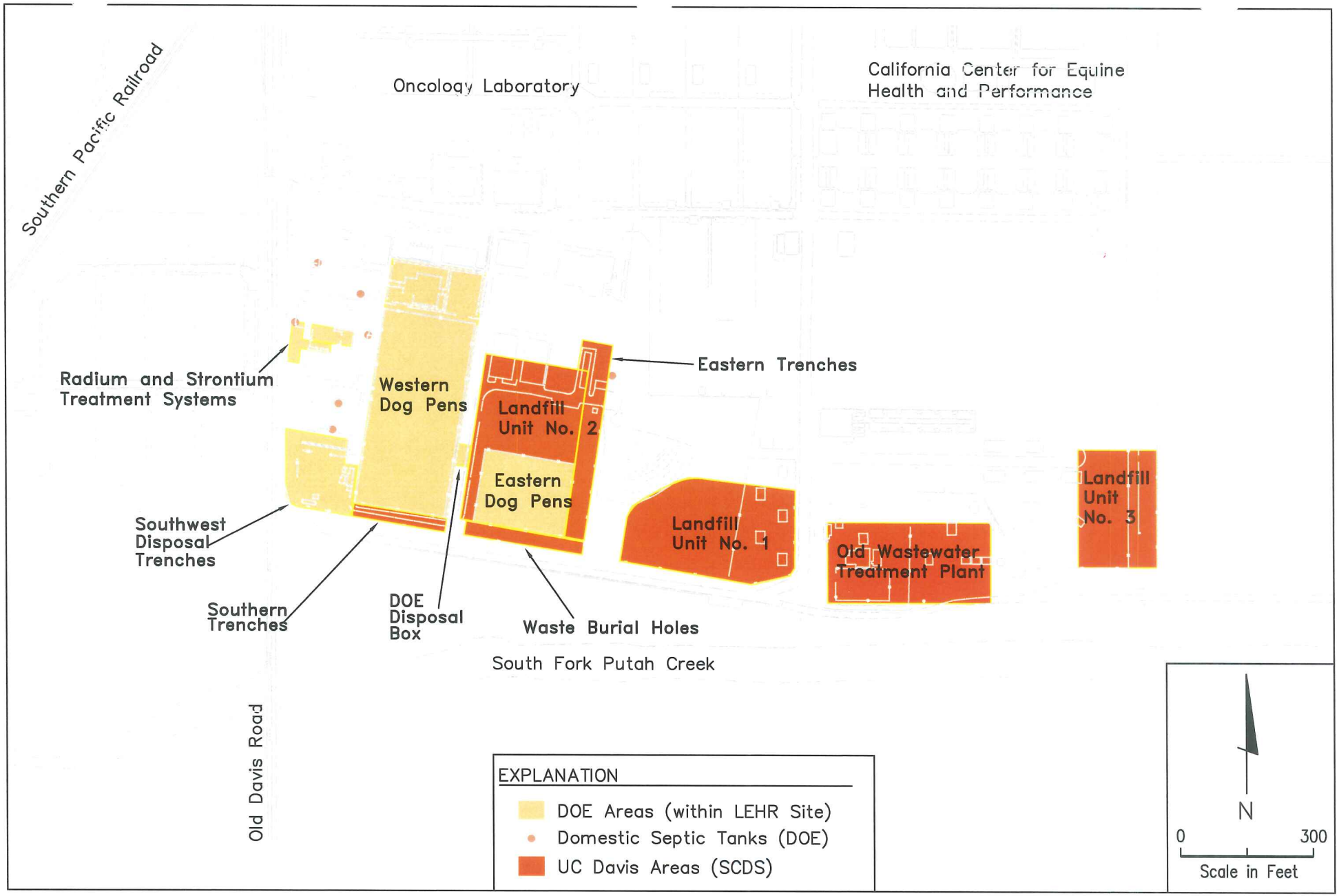
DAVIS, CALIFORNIA

P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures 11-21-06 Ann06-Fig1-SiteVic.cdr

FIGURE 1



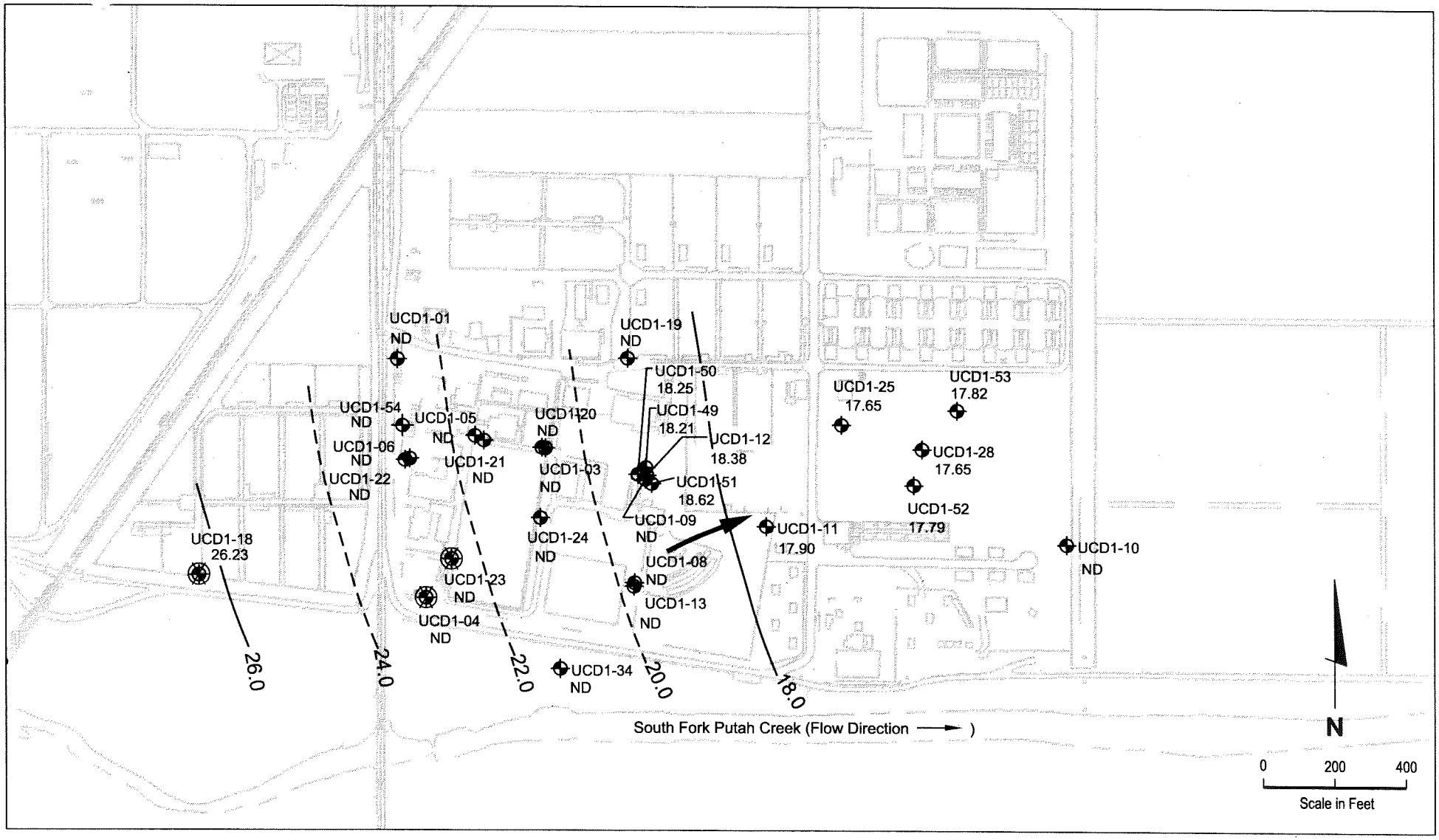
UC DAVIS AND DOE AREAS

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
DAVIS, CALIFORNIA

Source: MWH

P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures 11-21-06 Ann06-Fig2-MWH-WasteDisposal.cdr

FIGURE 2



EXPLANATION

UCD1-11 HSU-1 Monitoring Well

10.55 Groundwater Elevation Above Mean Sea Level

Groundwater Contour Line, Contour Interval = 2.0

Approximate Groundwater Flow Direction

ND No Data - Data Inadvertantly Lost

GROUNDWATER ELEVATION CONTOUR MAP - HSU-1 FEBRUARY 1-6, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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FIGURE 8A

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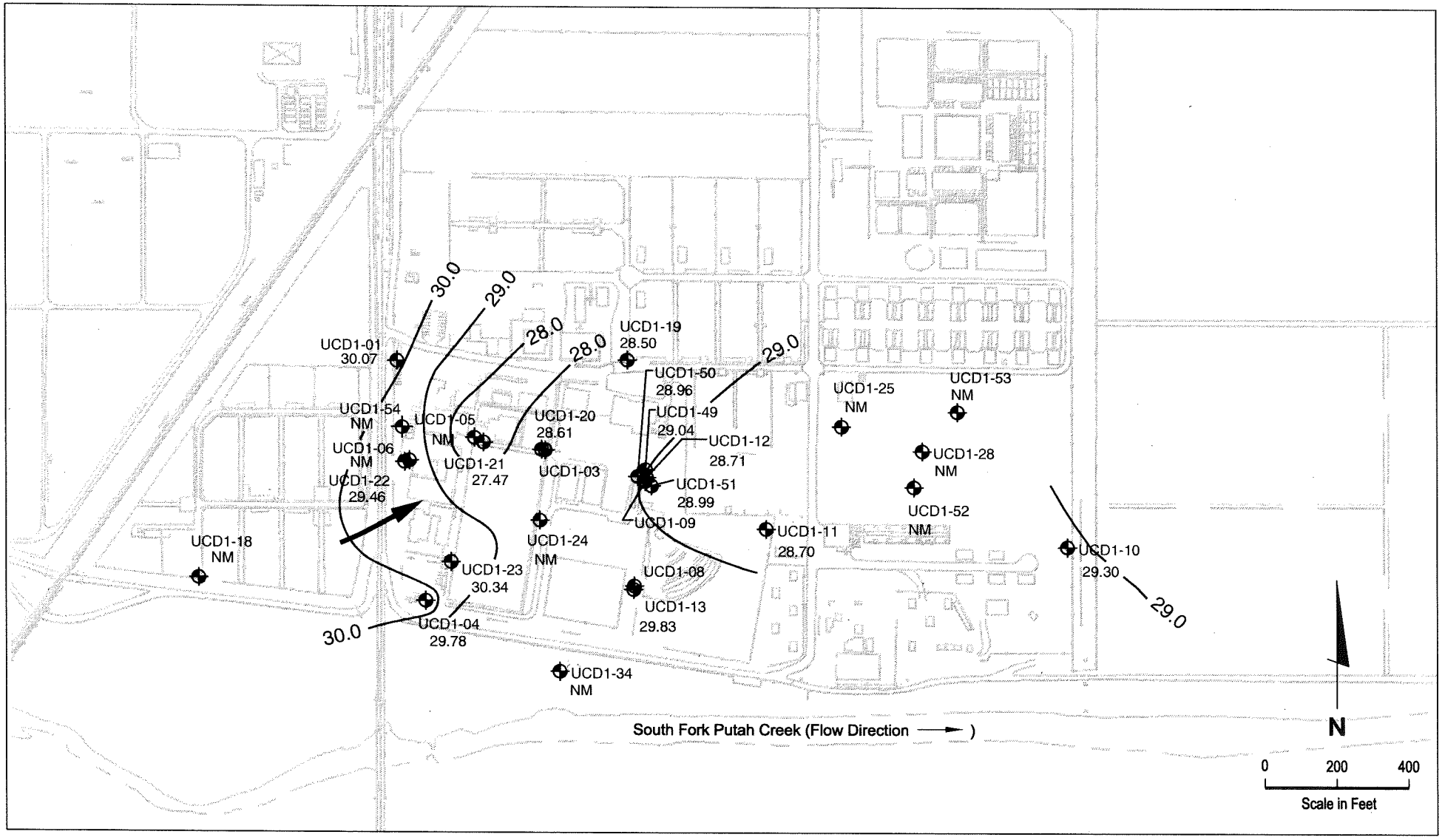

EXPLANATION

UCD1-11 HSU-1 Monitoring Well

10.55 Groundwater Elevation Above Mean Sea Level

Groundwater Contour Line, Contour Interval = 2.0

Approximate Groundwater Flow Direction

NM Not Measured

GROUNDWATER ELEVATION CONTOUR MAP - HSU-1 MAY 2, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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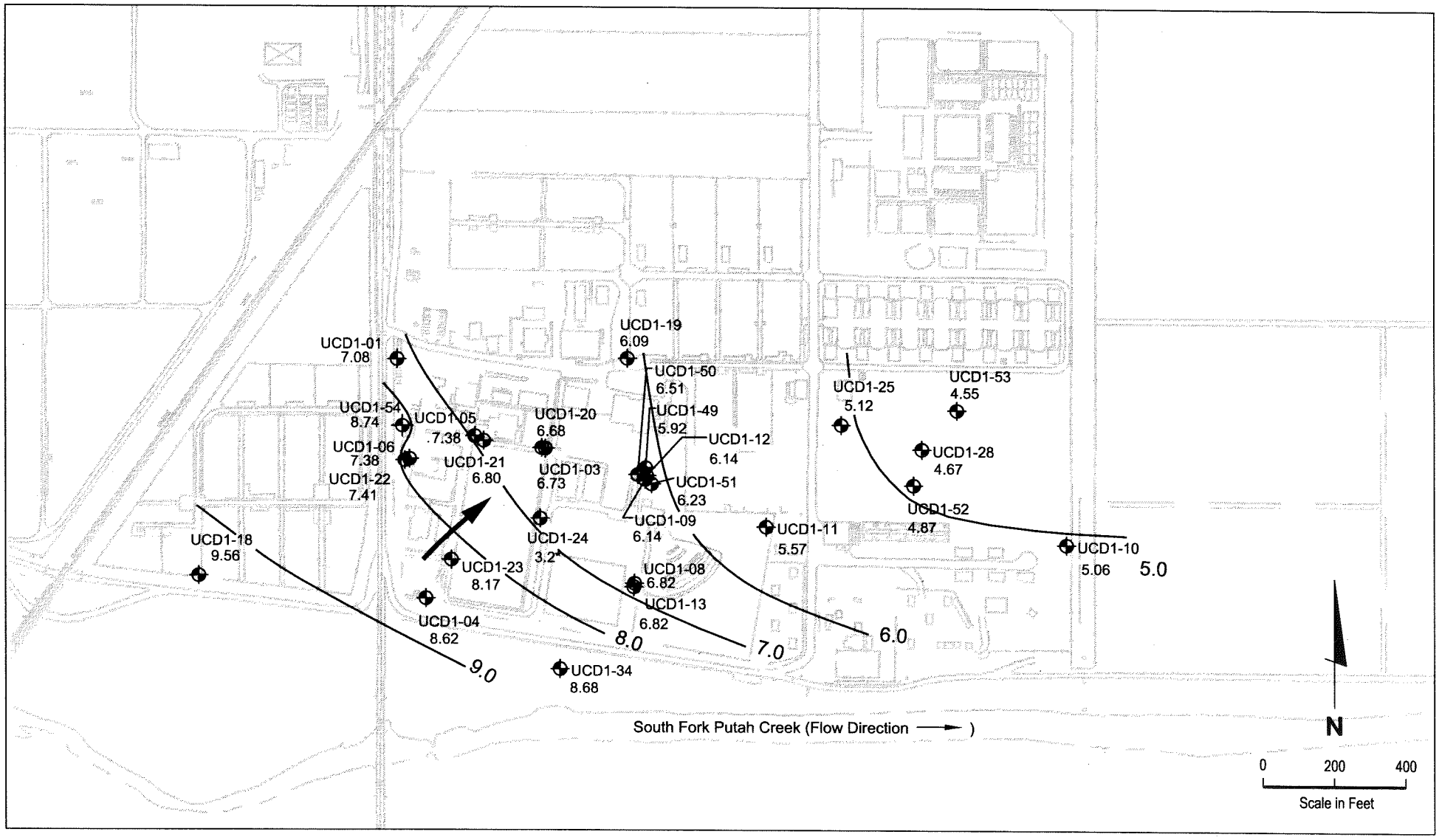
DAVIS, CALIFORNIA

FIGURE 8B

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig8B-HSU1-GW-5-06 Plot date: Feb 22, 2007-02:47:22pm CAD User: jrogers



EXPLANATION

UCD1-11 HSU-1 Monitoring Well

10.55 Groundwater Elevation Above Mean Sea Level

Groundwater Contour Line, Contour Interval = 1.0

Approximate Groundwater Flow Direction

NM Not Measured

* Not Used in Contouring

GROUNDWATER ELEVATION CONTOUR MAP - HSU-1

August 22, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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FIGURE 8C

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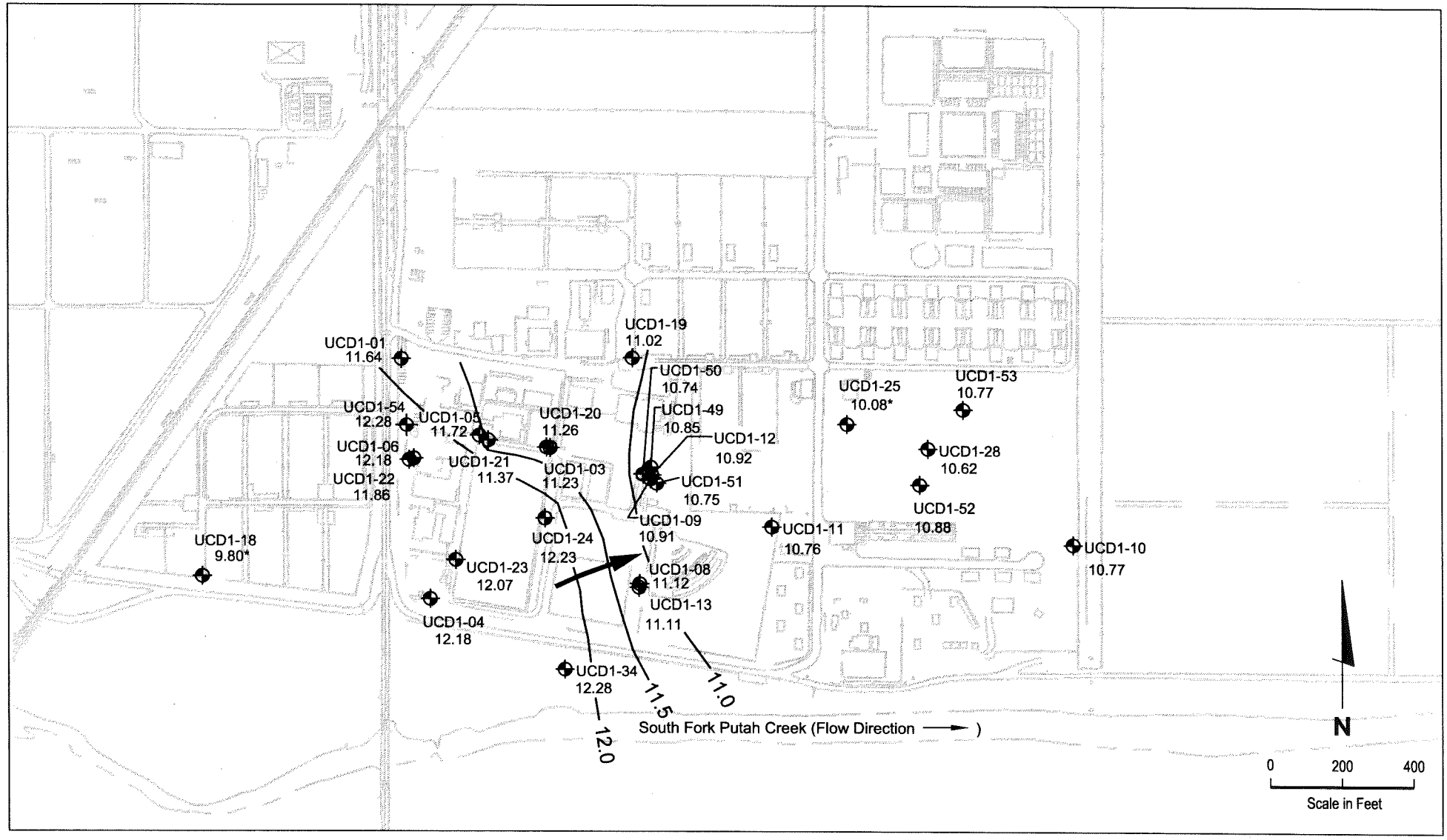

EXPLANATION

UCD1-11 HSU-1 Monitoring Well

10.55 Groundwater Elevation Above Mean Sea Level

Groundwater Contour Line, Contour Interval = 0.5

Approximate Groundwater Flow Direction

NM Not Measured

* Not Used in Contouring

GROUNDWATER ELEVATION CONTOUR MAP - HSU-1 NOVEMBER 1, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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FIGURE 8D

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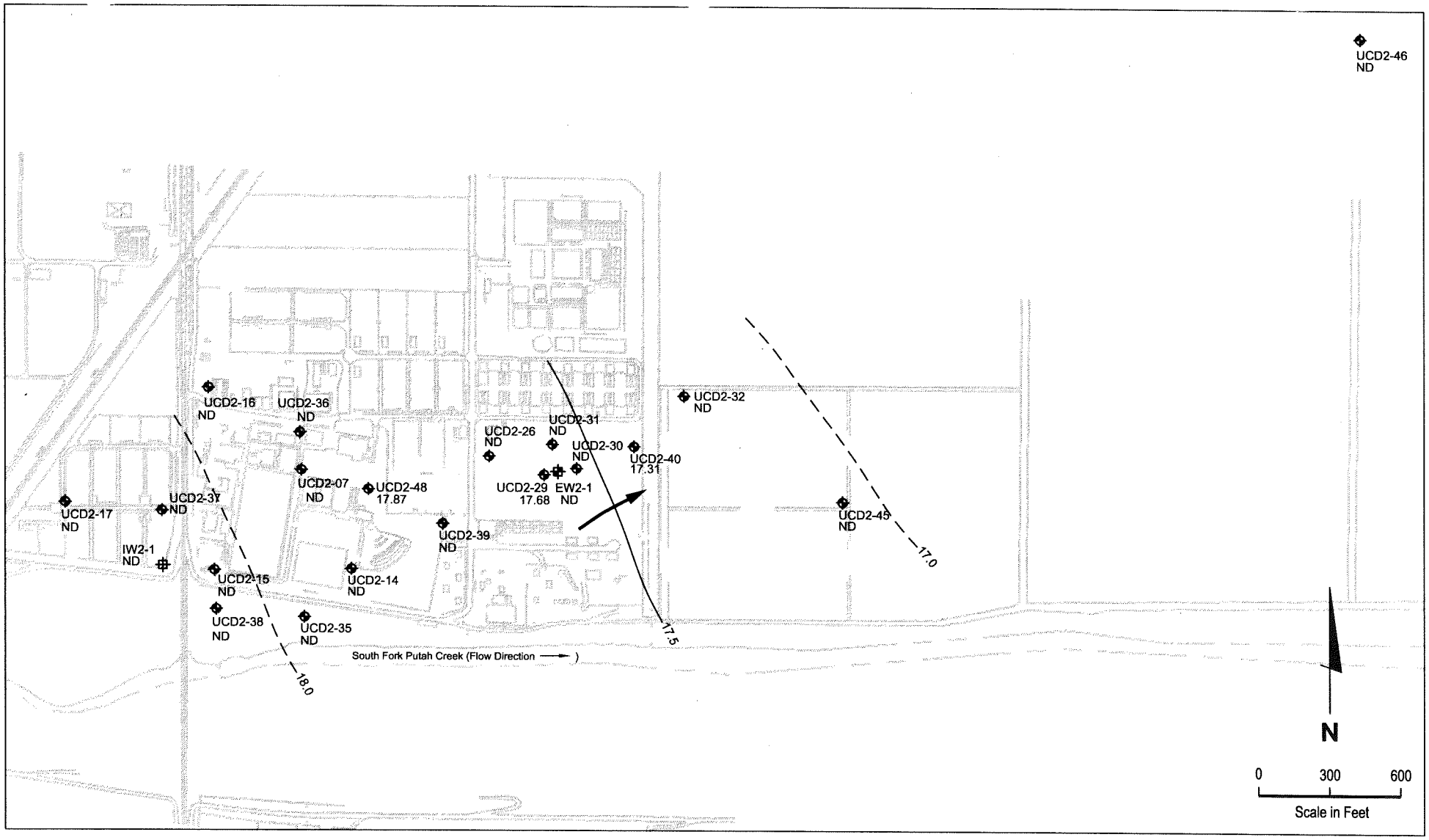

EXPLANATION

- UCD2-17 HSU-2 Monitoring Well
- EW2-1 HSU-2 Extraction Well
- IW2-1 HSU-2 Injection Well
- Inferred Groundwater Contour line Based on Historical Water Levels at Same Time of Year
- 10.28 Groundwater Elevation Above Mean Sea Level
- Groundwater Contour Line, Contour Interval = 1.0
- Approximate Groundwater Flow Direction
- ND No Data - Data Inadvertantly Lost

GROUNDWATER ELEVATION CONTOUR MAP - HSU-2 FEBRUARY 7, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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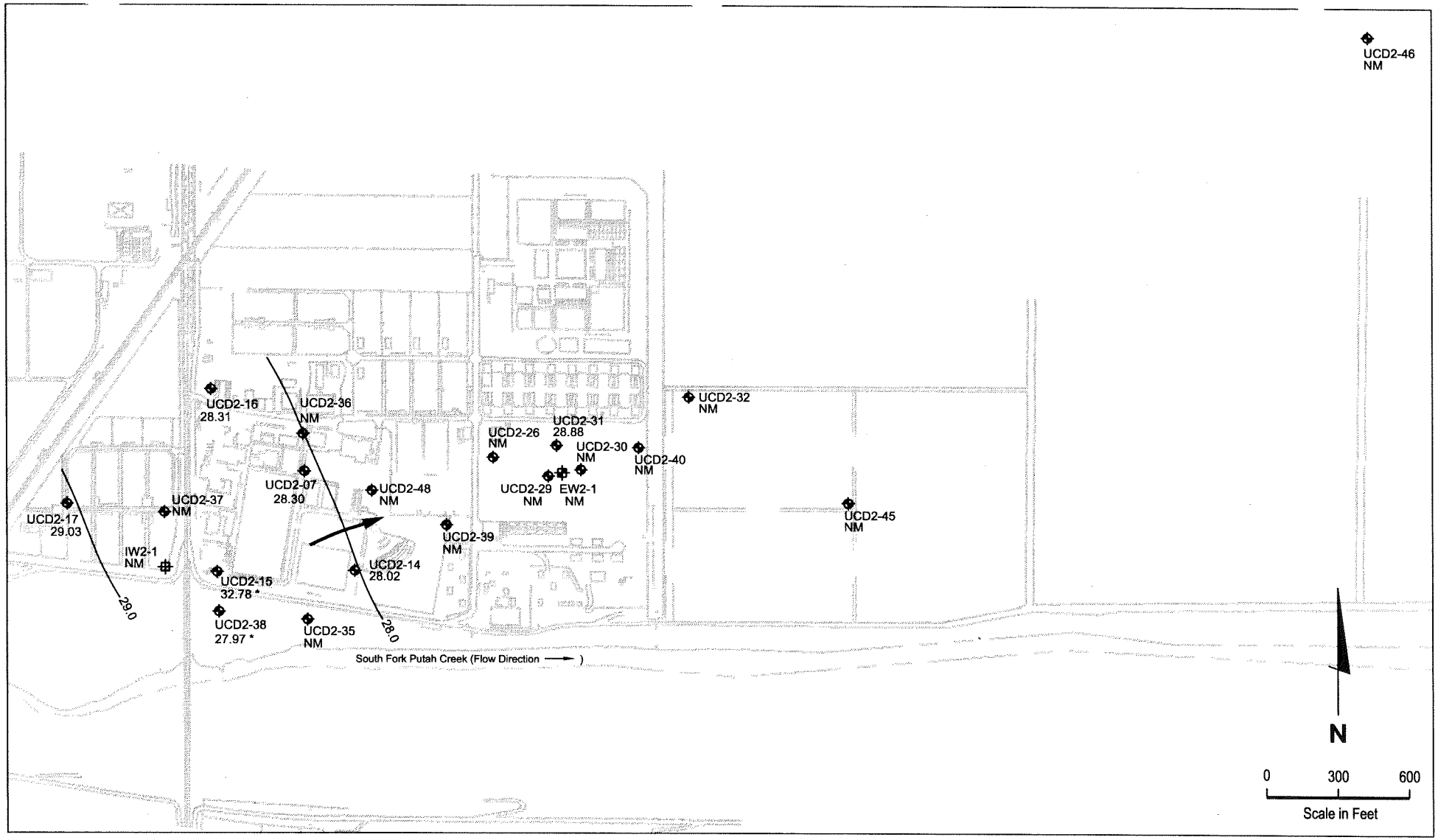
FIGURE 9A

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig9A-HSU2-GW-2-06 Plot date: Nov 21, 2006-02:29:26pm CAD User: jrogers



EXPLANATION

UCD2-17	HSU-2 Monitoring Well	10.28	Groundwater Elevation Above Mean Sea Level
EW2-1	HSU-2 Extraction Well		Groundwater Contour Line, Contour Interval = 1.0
IW2-1	HSU-2 Injection Well		Approximate Groundwater Flow Direction
		NM	Not Measured
		*	Not used in contouring

GROUNDWATER ELEVATION CONTOUR MAP - HSU-2 MAY 2, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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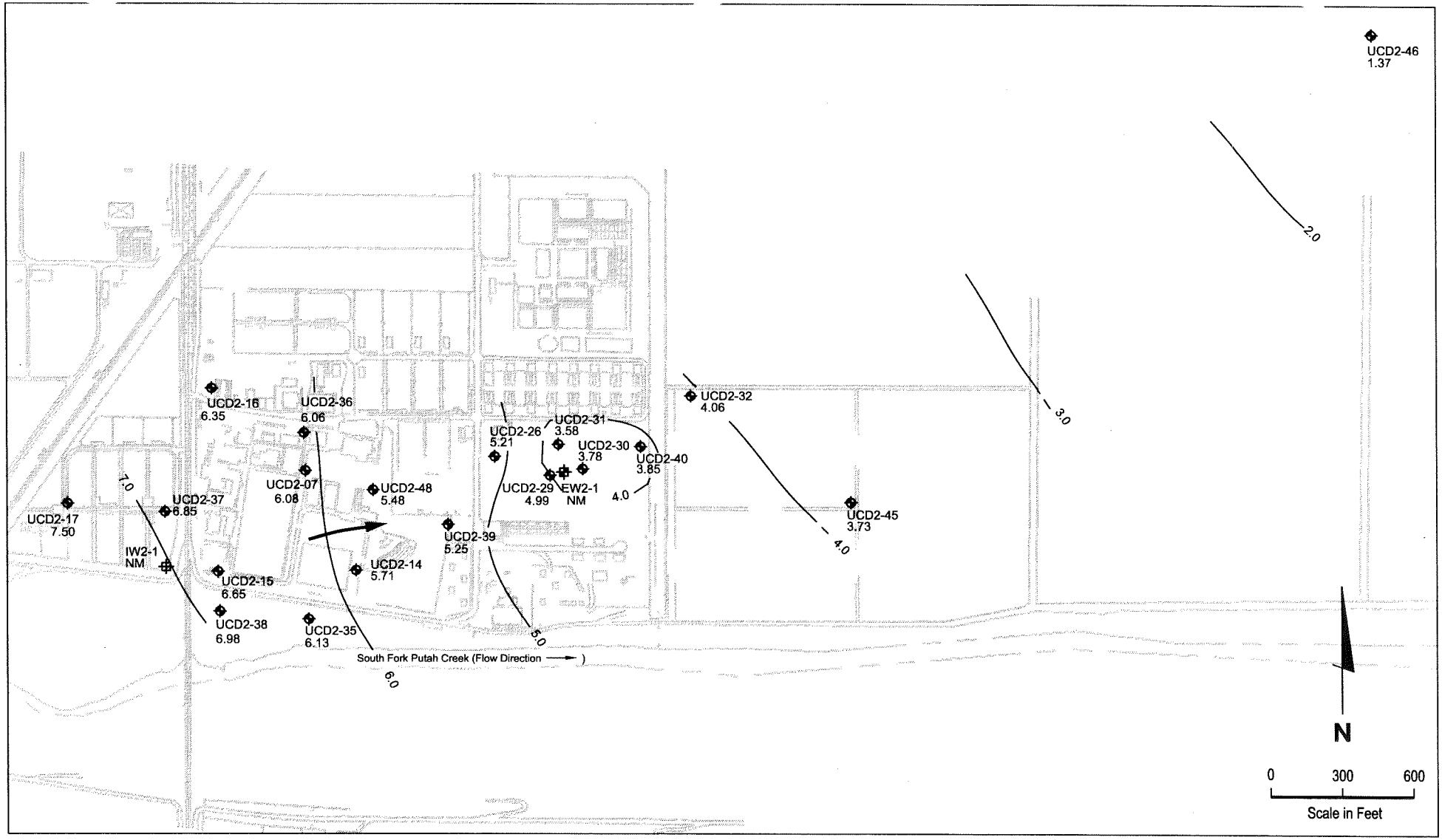
FIGURE 9B

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig9B-HSU2-GW-5-06 Plot date: Nov 21, 2006-02:30:19pm CAD User: jrogers



EXPLANATION

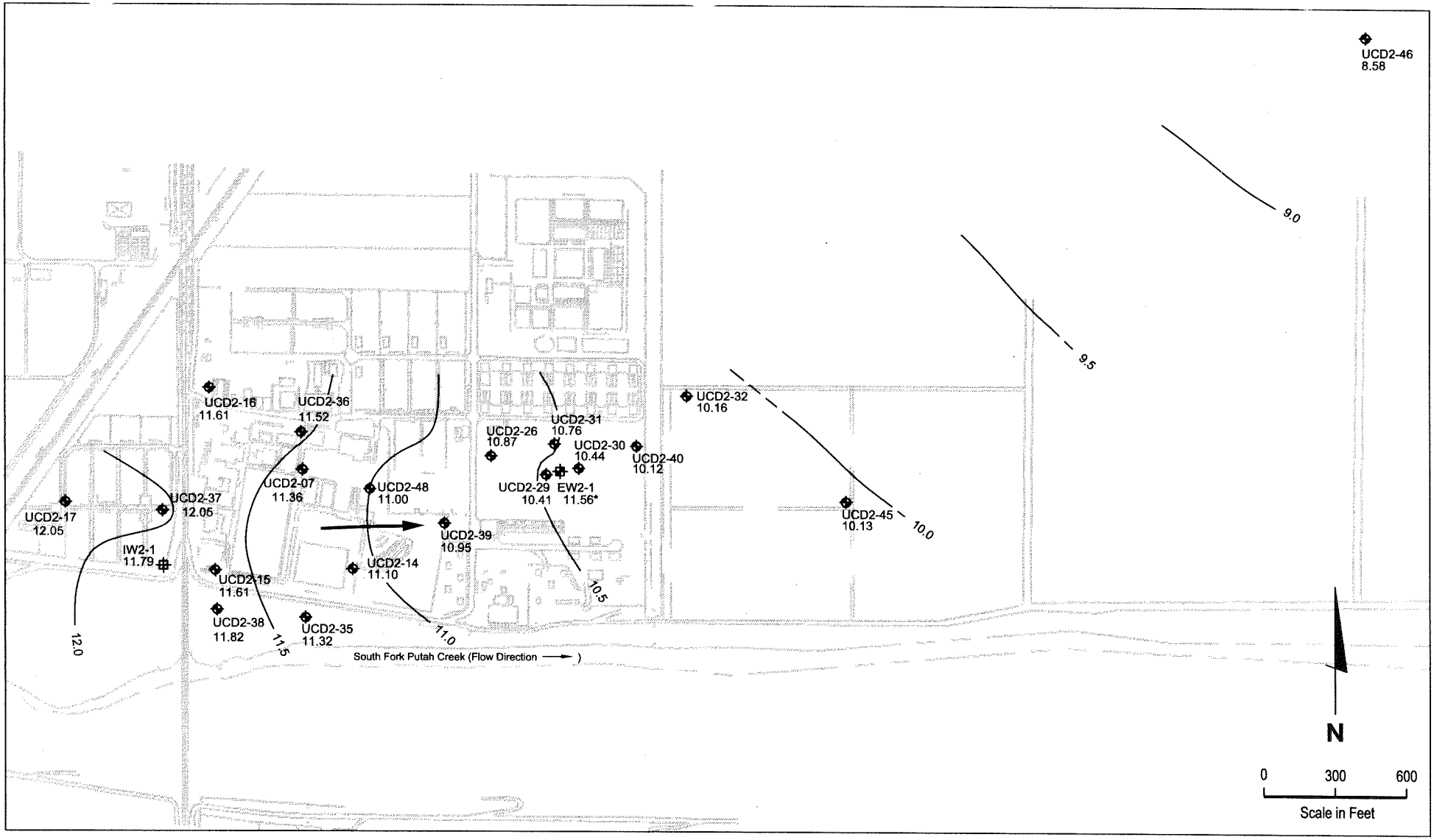
UCD2-17	HSU-2 Monitoring Well	10.28	Groundwater Elevation Above Mean Sea Level
EW2-1	HSU-2 Extraction Well		Groundwater Contour Line, Contour Interval = 1.0
IW2-1	HSU-2 Injection Well		Approximate Groundwater Flow Direction
		NM	Not Measured
		*	Not used in contouring

GROUNDWATER ELEVATION CONTOUR MAP - HSU-2
August 22, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
DAVIS, CALIFORNIA

FIGURE 9C

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig9C-HSU2-GW-8-06 Plot date: Nov 21, 2006-02:31:06pm CAD User: jrogers



EXPLANATION

UCD2-17	HSU-2 Monitoring Well	10.28	Groundwater Elevation Above Mean Sea Level
EW2-1	HSU-2 Extraction Well		Groundwater Contour Line, Contour Interval = 0.5
IW2-1	HSU-2 Injection Well		Approximate Groundwater Flow Direction
		NM	Not Measured
		*	Not used in contouring

GROUNDWATER ELEVATION CONTOUR MAP - HSU-2 NOVEMBER 1, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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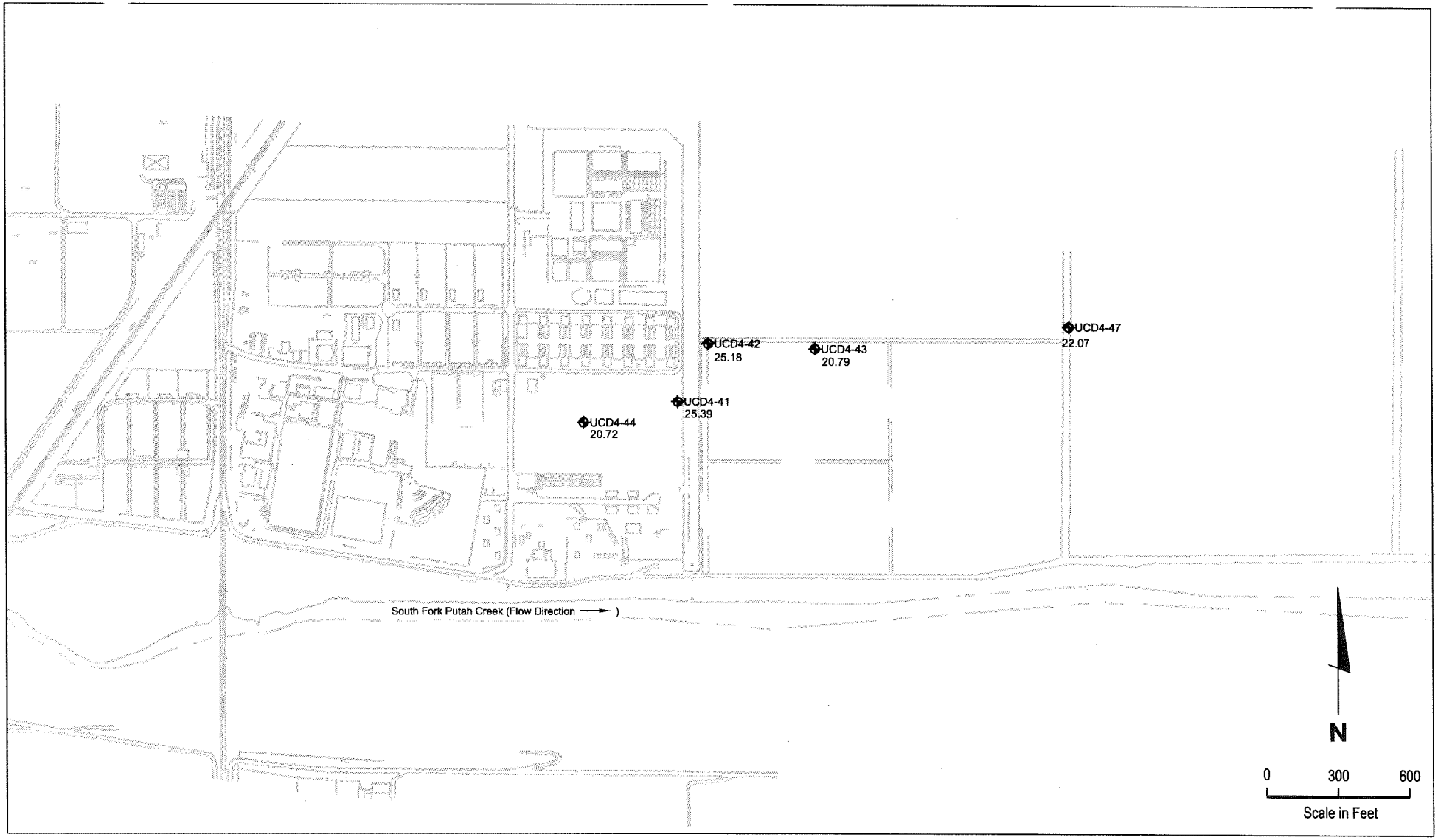
DAVIS, CALIFORNIA

FIGURE 9D

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig9D-HSU2-GW-Nov-06 Plot date: Nov 21, 2006-02:32:00pm CAD User: jrogers



EXPLANATION

UCD4-44 HSU-4 Monitoring Well

20.72 Groundwater Elevation Above Mean Sea Level

GROUNDWATER ELEVATION CONTOUR MAP - HSU-4 MAY 8, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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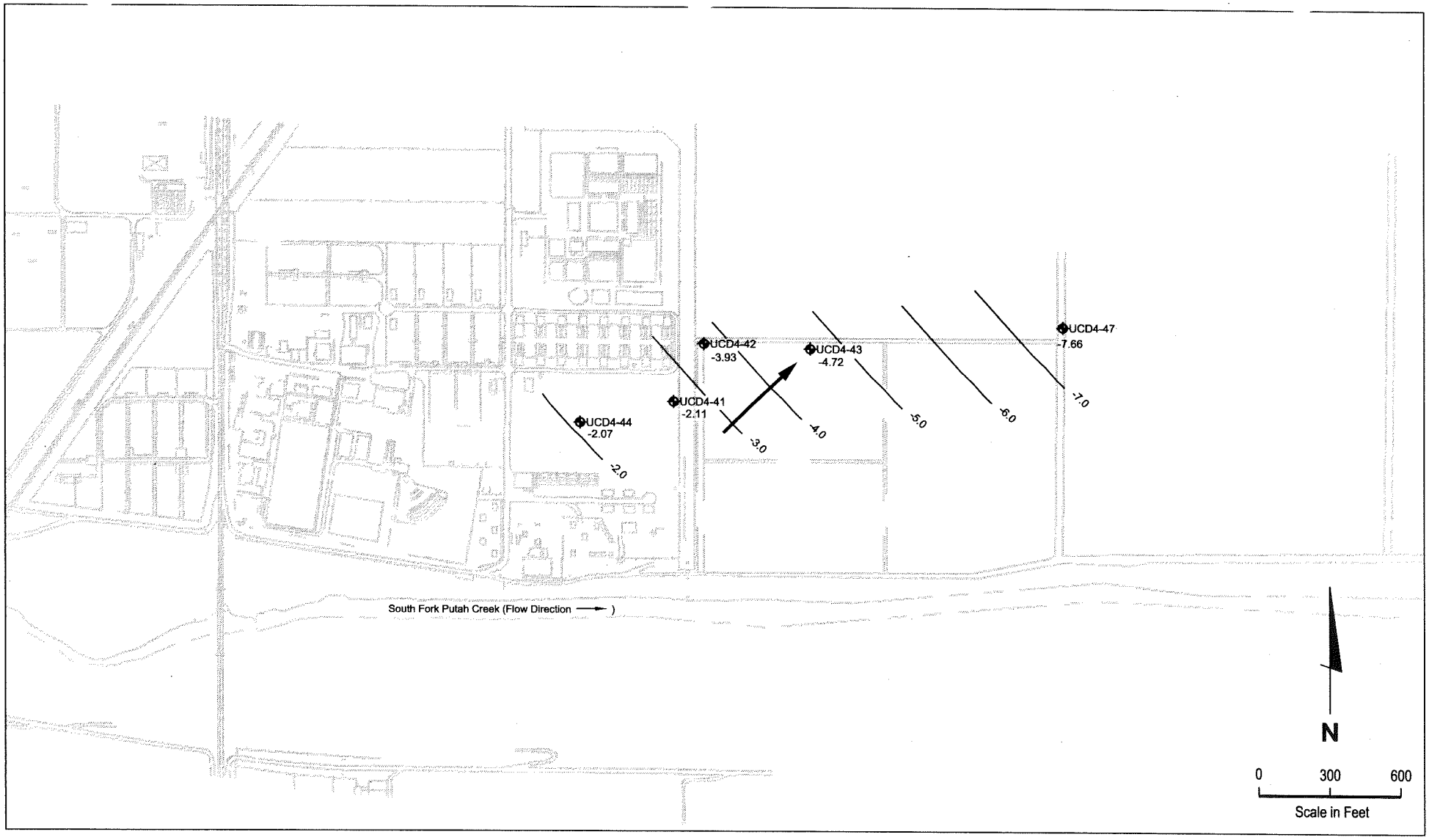
FIGURE 10A

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig10A-HSU4-GW-5-06 Plot date: Nov 21, 2006-02:35:35pm CAD User: jrogers



EXPLANATION

UCD4-44 HSU-4 Monitoring Well

20.72 Groundwater Elevation Above Mean Sea Level

Groundwater Contour Line, Contour Interval = 1.0

Approximate Groundwater Flow Direction

GROUNDWATER ELEVATION CONTOUR MAP - HSU-4 AUGUST 22, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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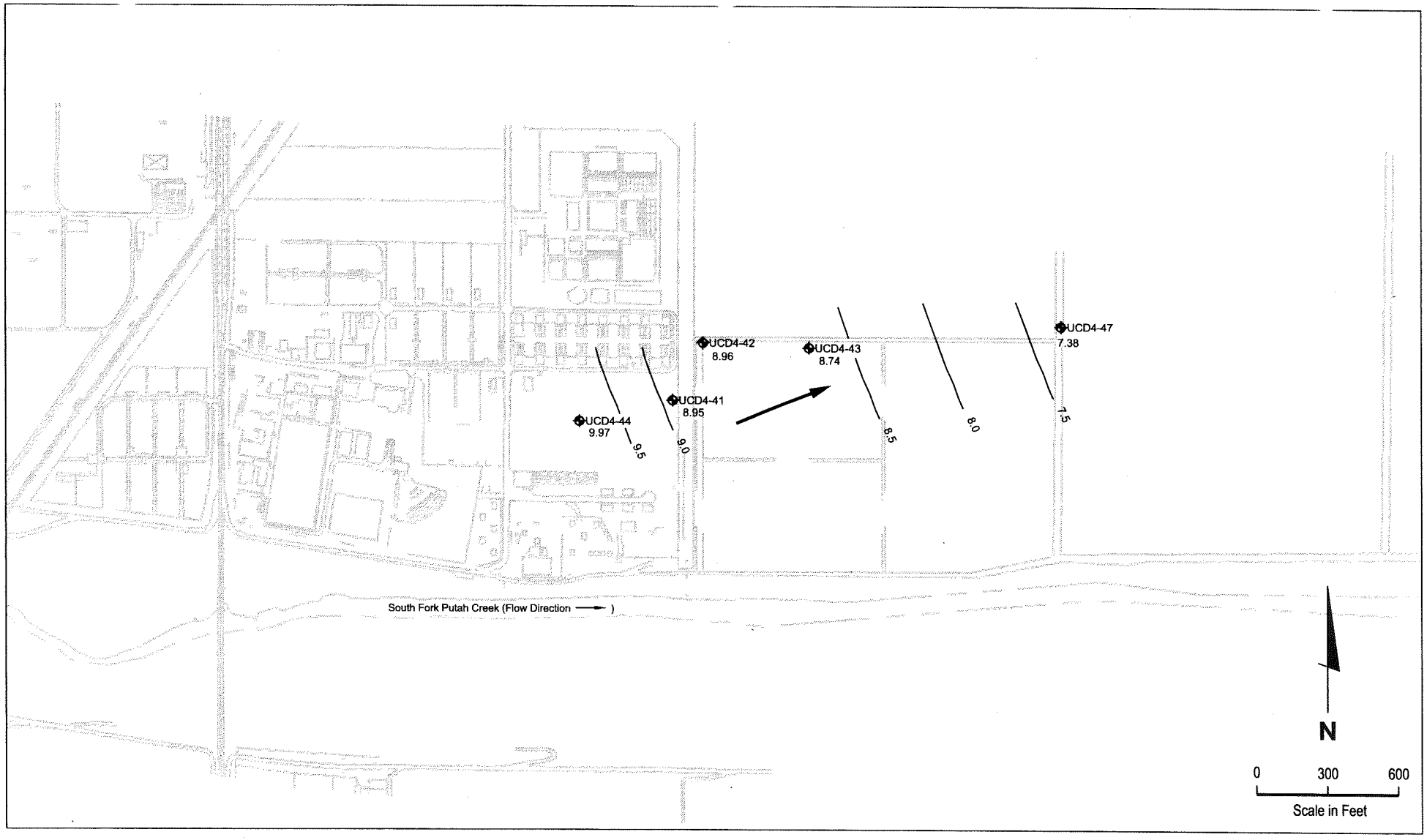
DAVIS, CALIFORNIA

FIGURE 10B

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig10B-HSU4-GW-8-06 Plot date: Nov 28, 2006-07:47:44am CAD User: jrogers



EXPLANATION

UCD4-44 HSU-4 Monitoring Well

20.72 Groundwater Elevation Above Mean Sea Level

Groundwater Contour Line, Contour Interval = 0.5

Approximate Groundwater Flow Direction

GROUNDWATER ELEVATION CONTOUR MAP - HSU-4 NOVEMBER 1, 2006

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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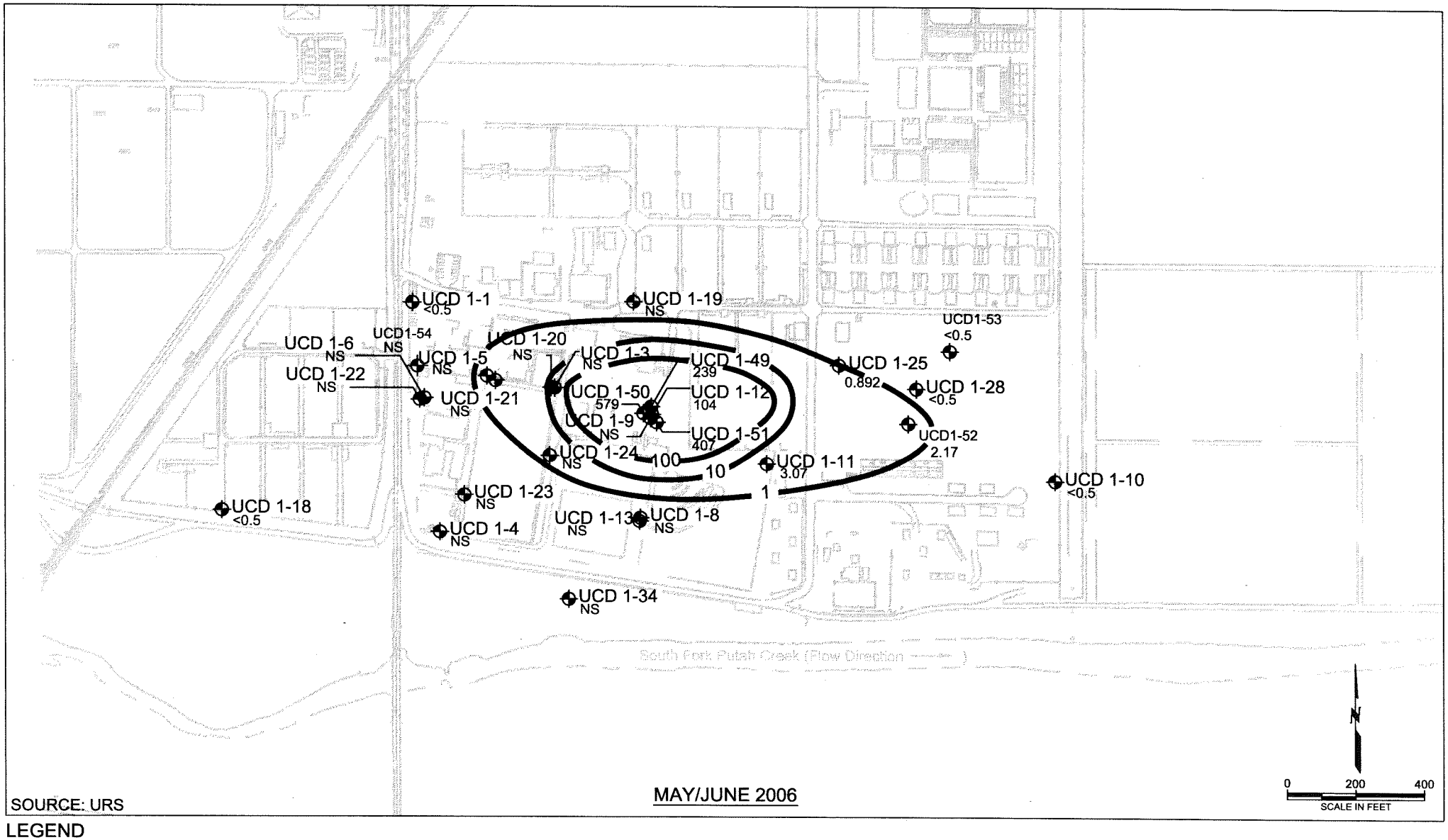
FIGURE 10C

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig10C-HSU4-GW-Nov-06 Plot date: Nov 28, 2006-07:50:28am CAD User: jrogers



SOURCE: URS

MAY/JUNE 2006

LEGEND

UCD1-11	HSU-1 MONITORING WELL
<0.5	RESULT IS LESS THAN THE CRDL
NS	NOT SAMPLED
*	NOT USED IN CONTOURING

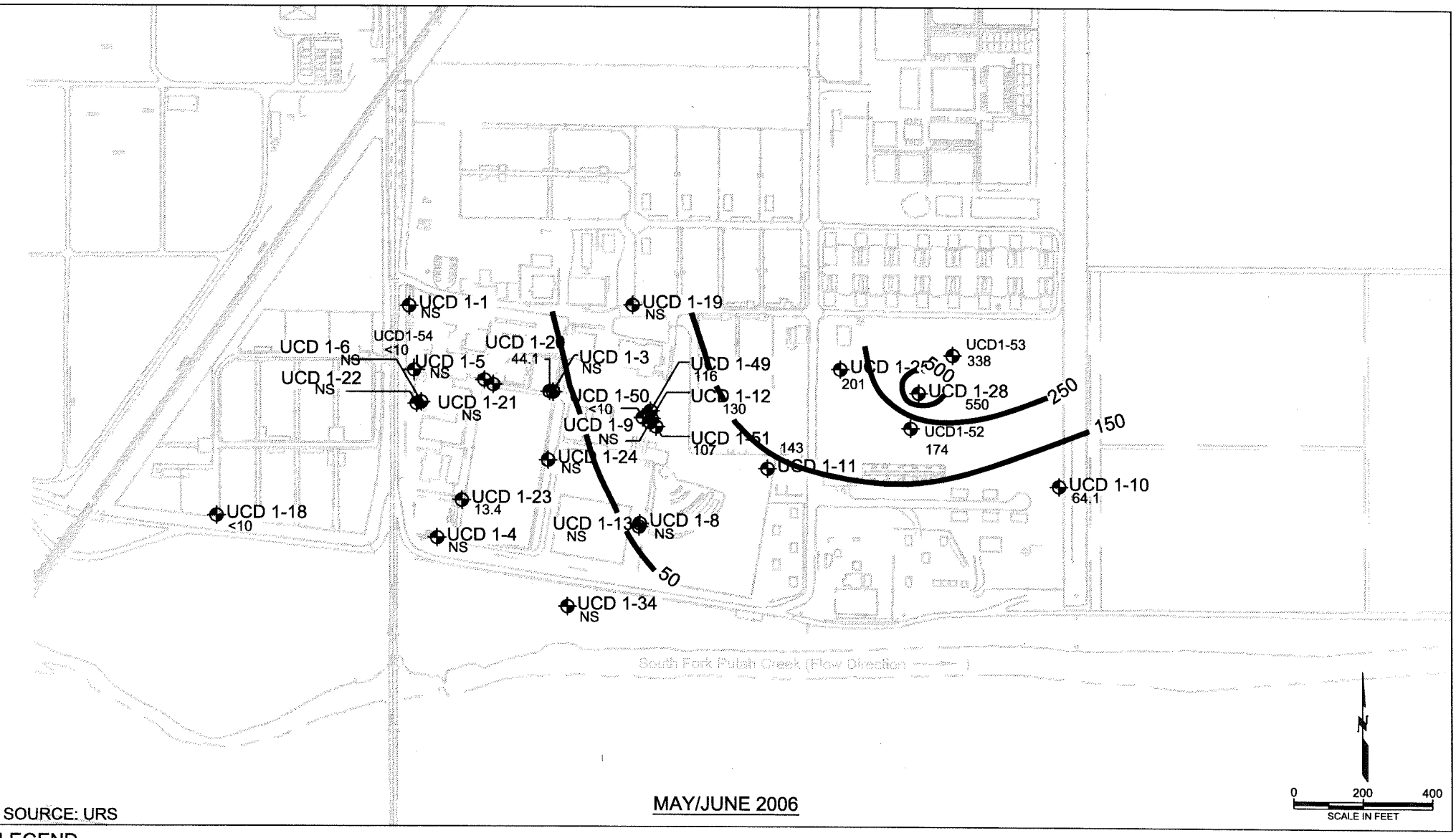
ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L.

CHLOROFORM ISOCONCENTRATION CONTOURS IN HSU-1

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
DAVIS, CALIFORNIA

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig11-HSU-1 Plot date: Nov 22, 2006-01:55:13pm CAD User: jrogers

FIGURE 11



MAY/JUNE 2006

SOURCE: URS

LEGEND

UCD1-11	HSU-1 MONITORING WELL
<10	RESULT IS LESS THAN THE CRDL
NS	NOT SAMPLED

50 ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L.

CHROMIUM ISOCONCENTRATION CONTOURS IN HSU-1

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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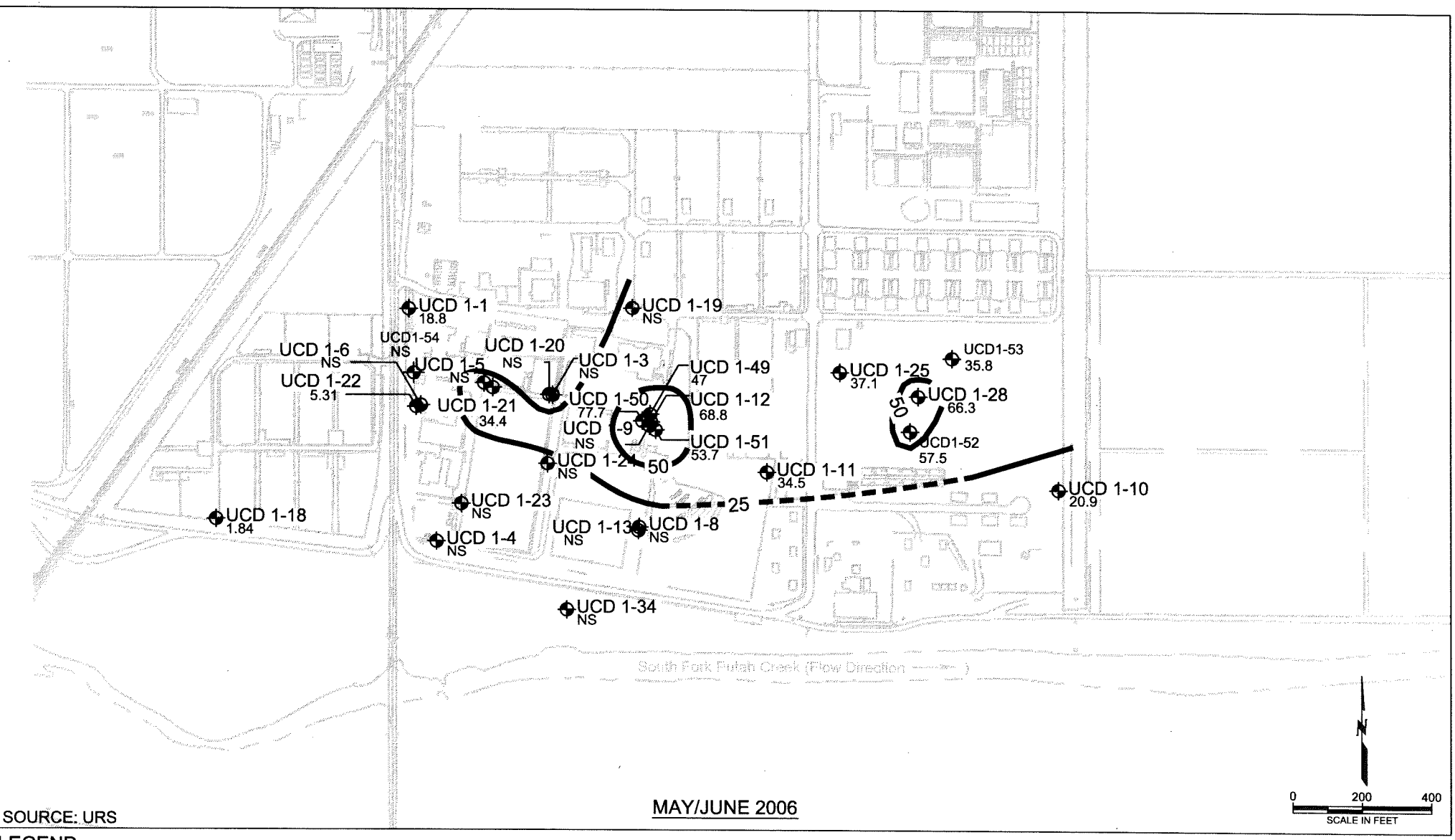
DAVIS, CALIFORNIA

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig12-HSU-1 Plot date: Nov 22, 2006-01:54:43pm CAD User: jrogers

FIGURE 12



MAY/JUNE 2006

SOURCE: URS

LEGEND

UCD1-11 HSU-1 MONITORING WELL

<0.1 RESULT IS LESS THAN THE CRDL

NS NOT SAMPLED

25 ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L.

NITRATE AS N ISOCONCENTRATION CONTOURS IN HSU-1

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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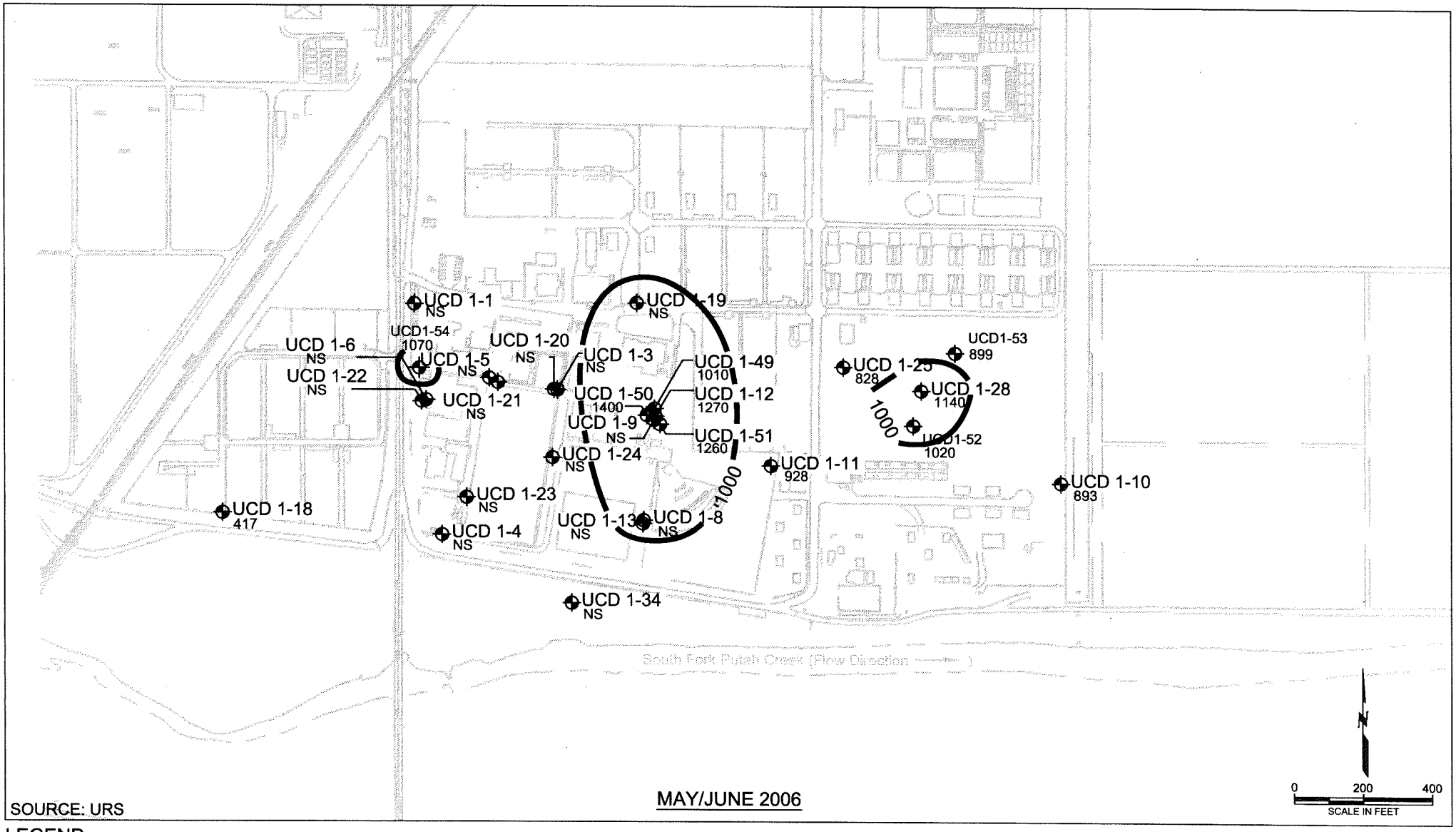
Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig13-HSU-1 Plot date: Nov 22, 2006-01:54:07pm CAD User: jrogers

FIGURE 13



SOURCE: URS

MAY/JUNE 2006

LEGEND

UCD1-11 HSU-1 MONITORING WELL

<20 RESULT IS LESS THAN THE CRDL

NS NOT SAMPLED

1000 ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L.

TDS ISOCONCENTRATION CONTOURS IN HSU-1

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
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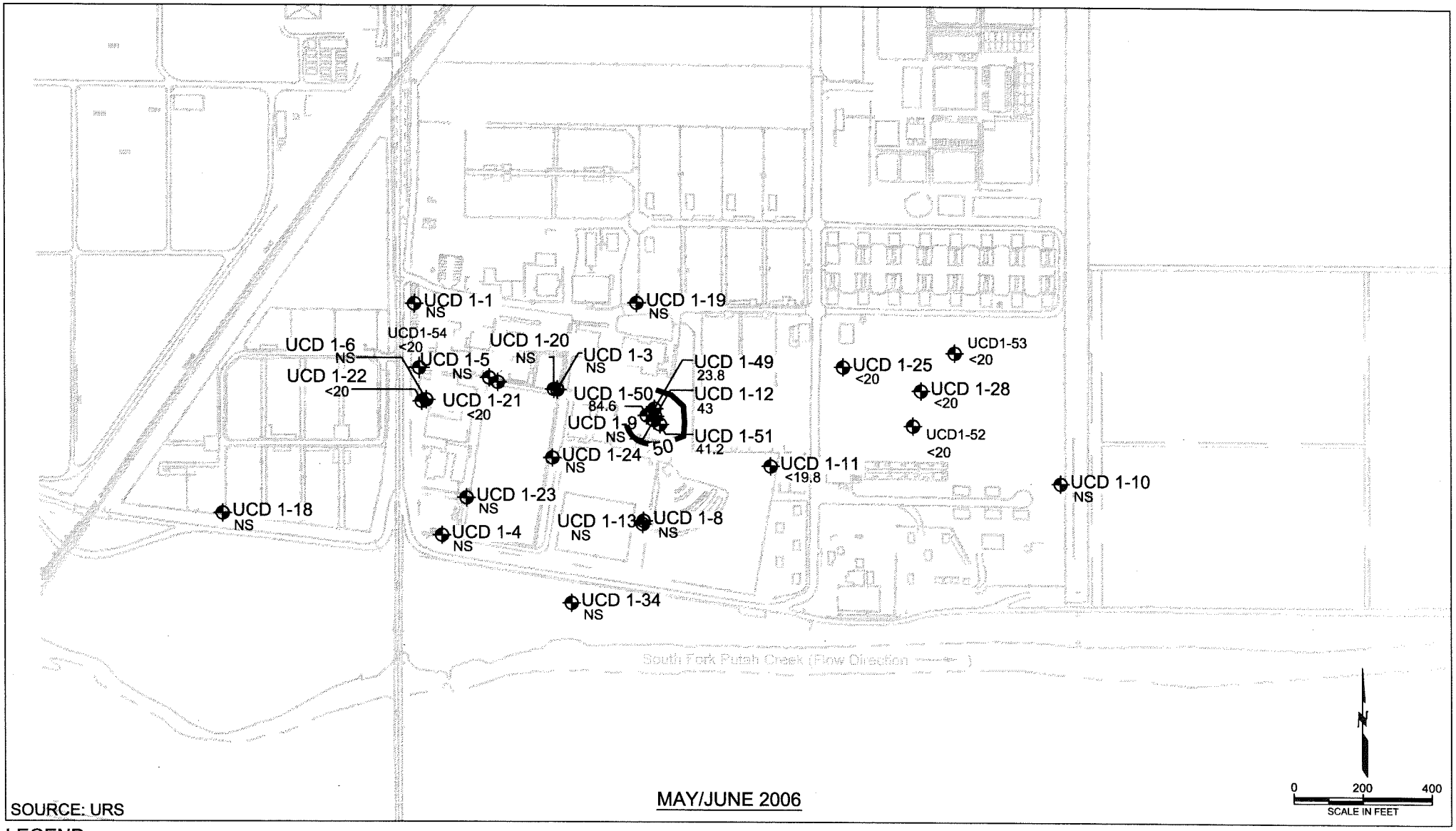
Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig14-HSU-1 Plot date: Nov 22, 2006-01:53:30pm CAD User: jrogers

FIGURE 14



SOURCE: URS

MAY/JUNE 2006

LEGEND

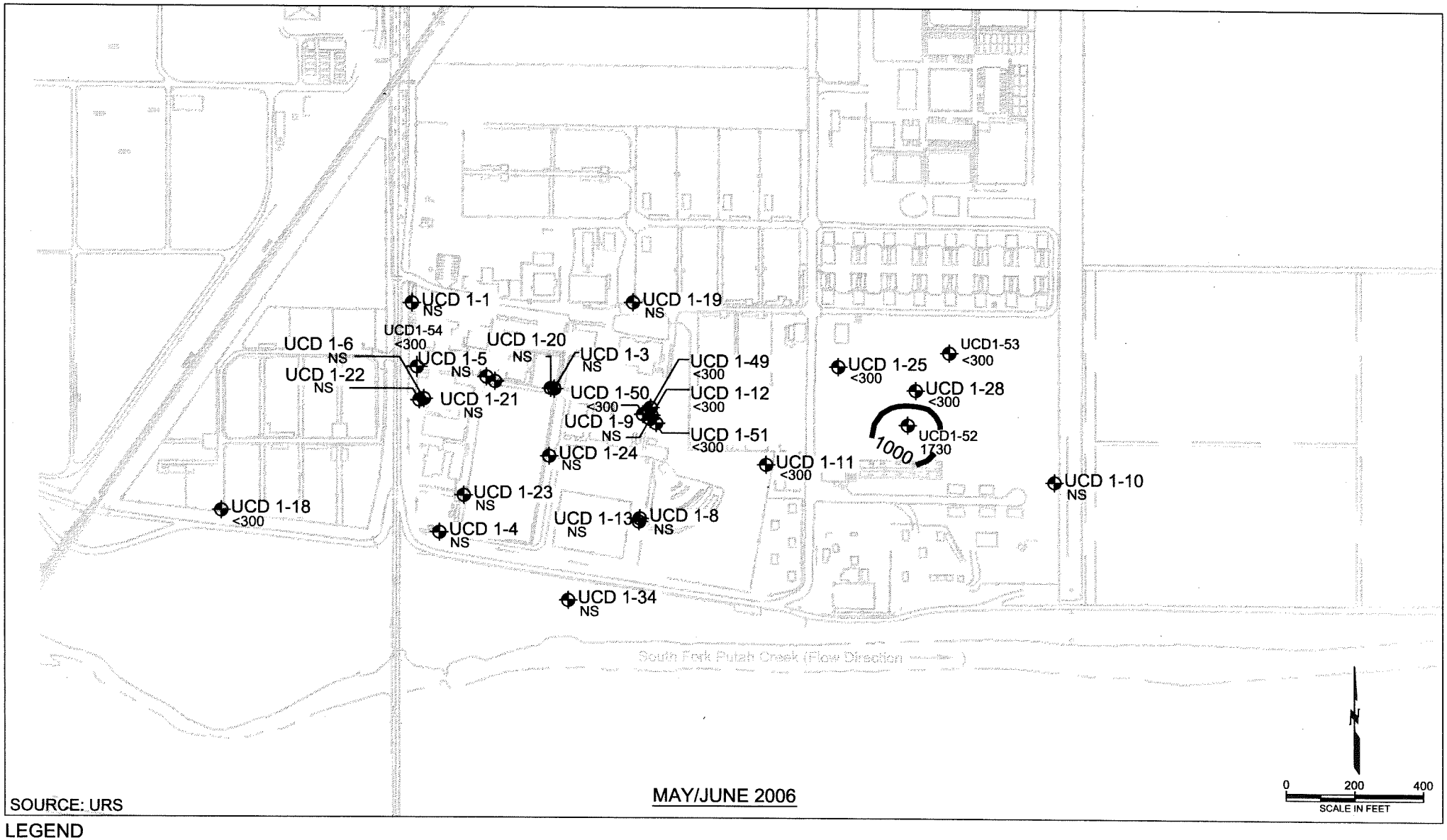
UCD1-11	HSU-1 MONITORING WELL
<20	RESULT IS LESS THAN THE CRDL
NS	NOT SAMPLED
50	ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L.

CARBON-14 ISOCONCENTRATION CONTOURS IN HSU-1

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
DAVIS, CALIFORNIA

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig15-HSU-1 Plot date: Nov 28, 2006-08:00:06am CAD User: jrogers

FIGURE 15



SOURCE: URS

MAY/JUNE 2006

LEGEND

UCD1-11 HSU-1 MONITORING WELL

<300 RESULT IS LESS THAN THE CRDL

NS NOT SAMPLED

1000 ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L.

TRITIUM ISOCONCENTRATION CONTOURS IN HSU-1

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
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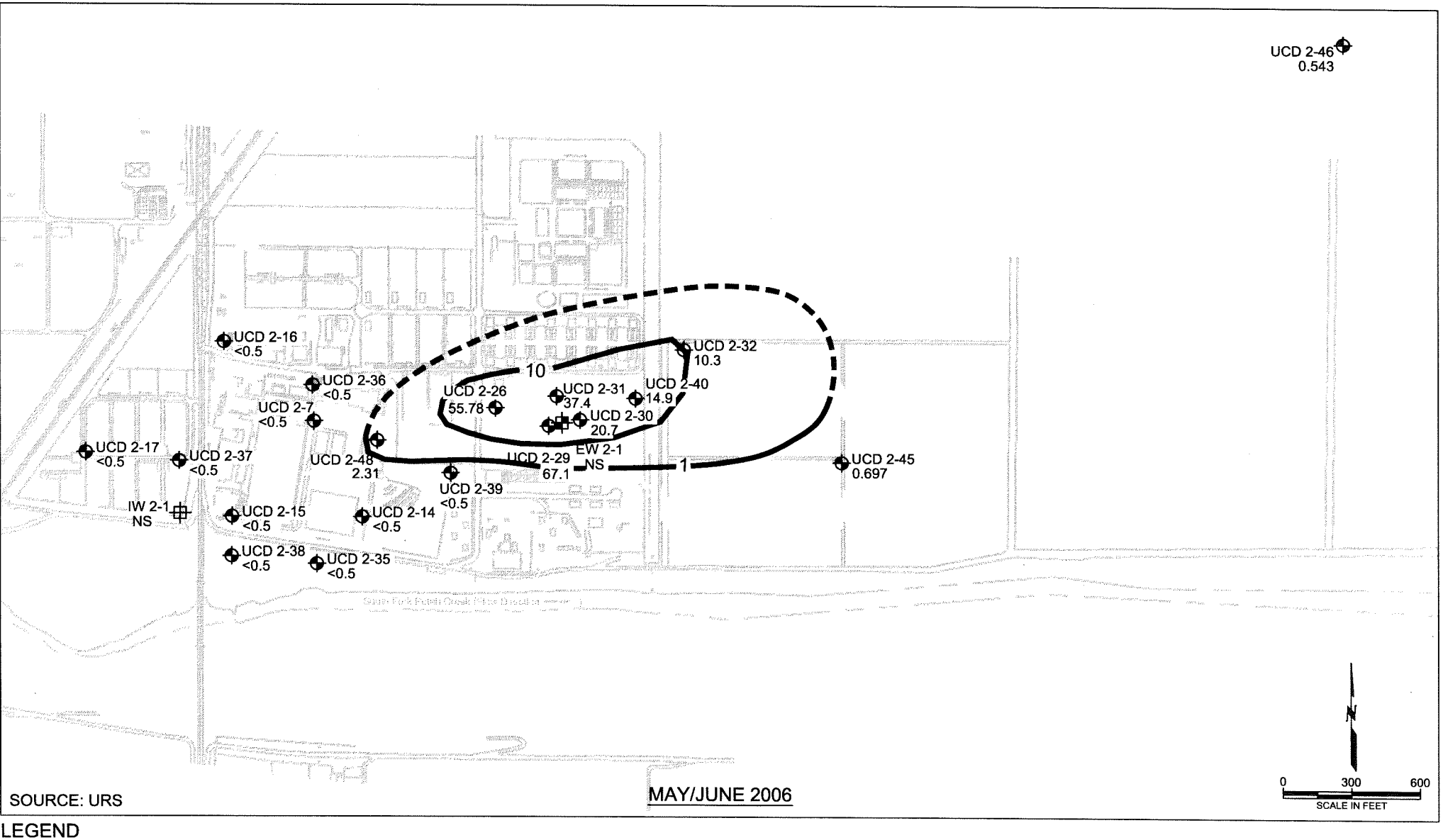
Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig16-HSU-1 Plot date: Nov 22, 2006-01:52:15pm CAD User: jrogers

FIGURE 16



SOURCE: URS

MAY/JUNE 2006

LEGEND

UCD1-11	HSU-2 MONITORING WELL	10	ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L
IW 2-1	HSU-2 EXTRACTION WELL		
IW 2-1	HSU-2 INJECTION WELL	<0.5	RESULT IS LESS THAN CRDL
NS	NOT SAMPLED		NOTE: 1,000 UG/L AND 100 UG/l CONTOUR LINES BASED ON 2004 HYDROPUNCH SAMPLES

CHLOROFORM ISOCONCENTRATION CONTOURS IN HSU-2

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
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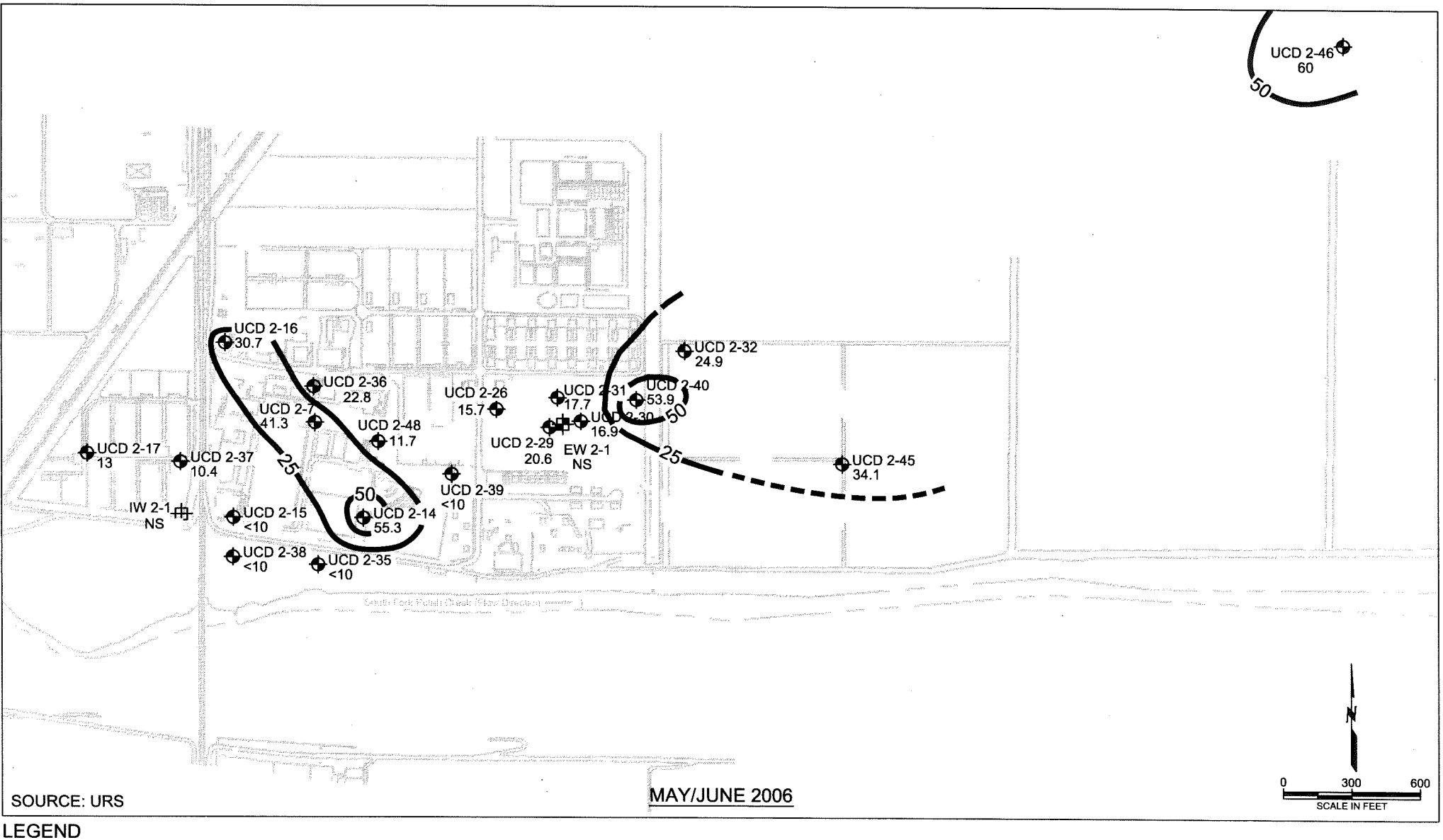
DAVIS, CALIFORNIA

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig17-HSU-2 Plot date: Nov 22, 2006-03:13:34pm CAD User: jrogers

FIGURE 17



SOURCE: URS

MAY/JUNE 2006

LEGEND

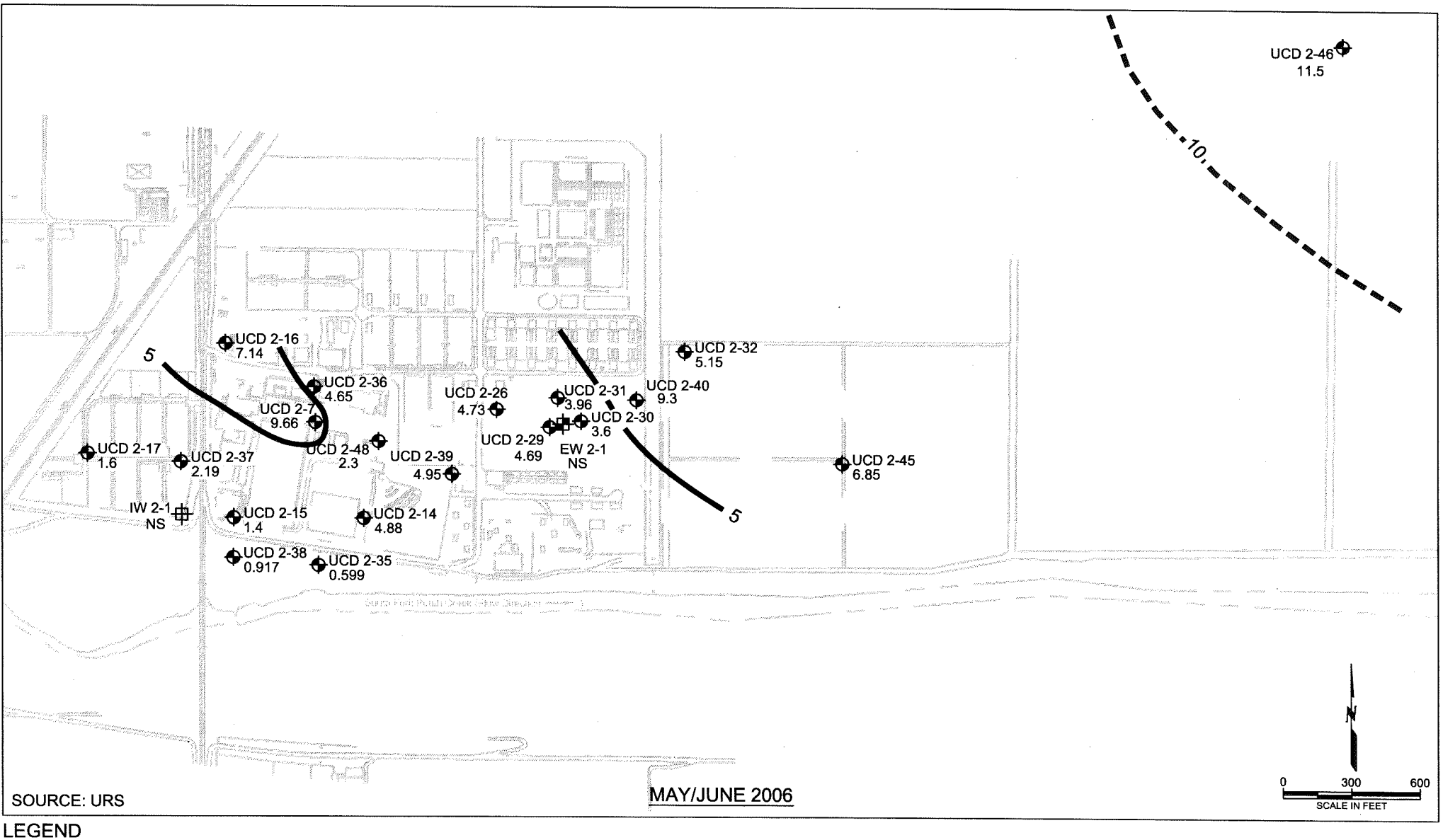
UCD1-11	HSU-2 MONITORING WELL	25	ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L
IW 2-1	HSU-2 EXTRACTION WELL		
IW 2-1	HSU-2 INJECTION WELL	<10	RESULT IS LESS THAN CRDL
NS	NOT SAMPLED		

CHROMIUM ISOCONCENTRATION CONTOURS IN HSU-2

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
DAVIS, CALIFORNIA

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig18-HSU-2 Plot date: Dec 04, 2006-04:00:30pm CAD User: jrogers

FIGURE 18



SOURCE: URS

MAY/JUNE 2006

LEGEND

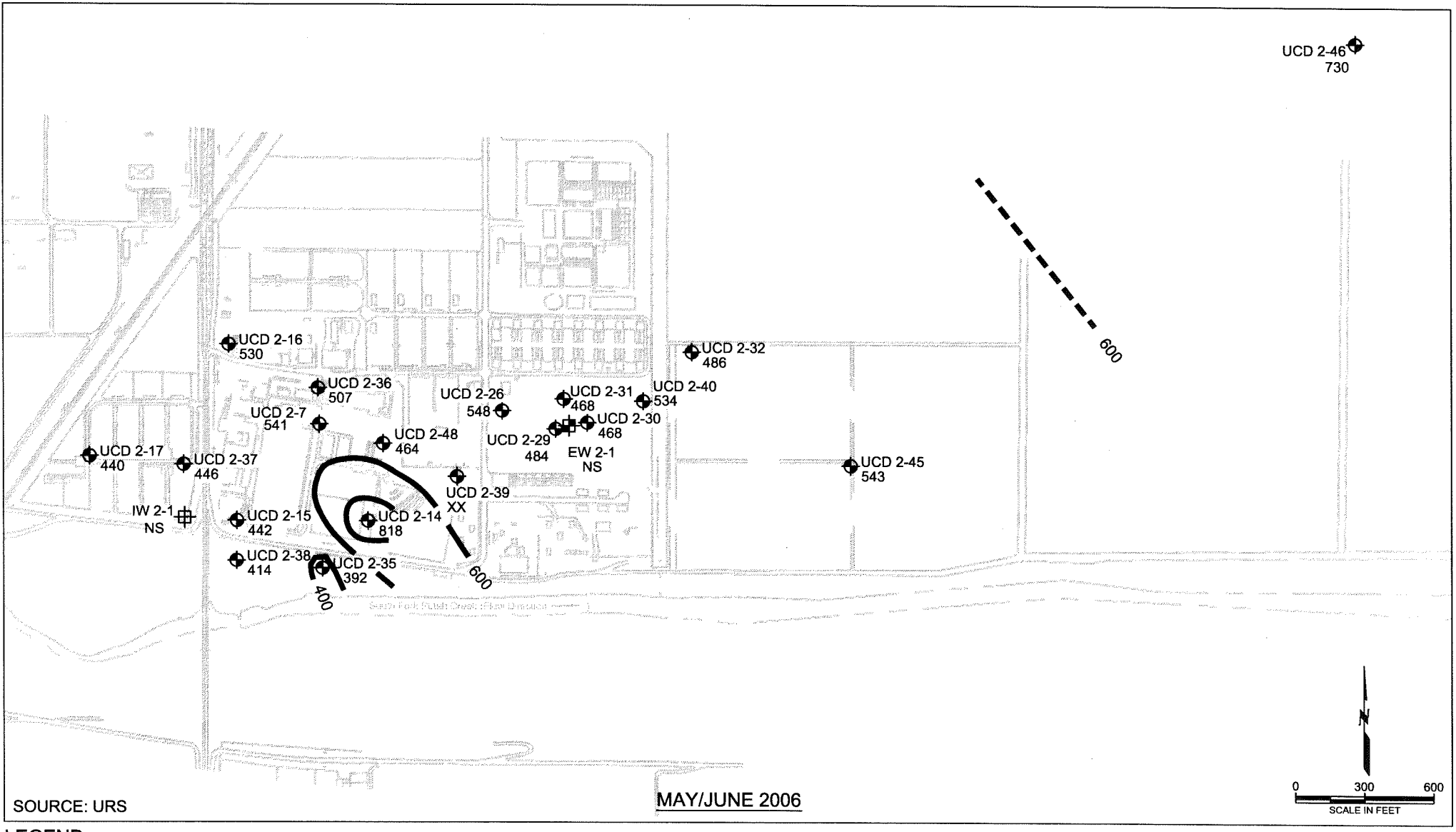
UCD1-11	HSU-2 MONITORING WELL	10	ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L
IW 2-1	HSU-2 EXTRACTION WELL		
IW 2-1	HSU-2 INJECTION WELL	<0.1	RESULT IS LESS THAN CRDL
NS	NOT SAMPLED		

NITRATE AS N ISOCONCENTRATION CONTOURS IN HSU-2

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
DAVIS, CALIFORNIA

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig19-HSU-2 Plot date: Nov 22, 2006-03:15:05pm CAD User: jrogers

FIGURE 19



SOURCE: URS

MAY/JUNE 2006

LEGEND

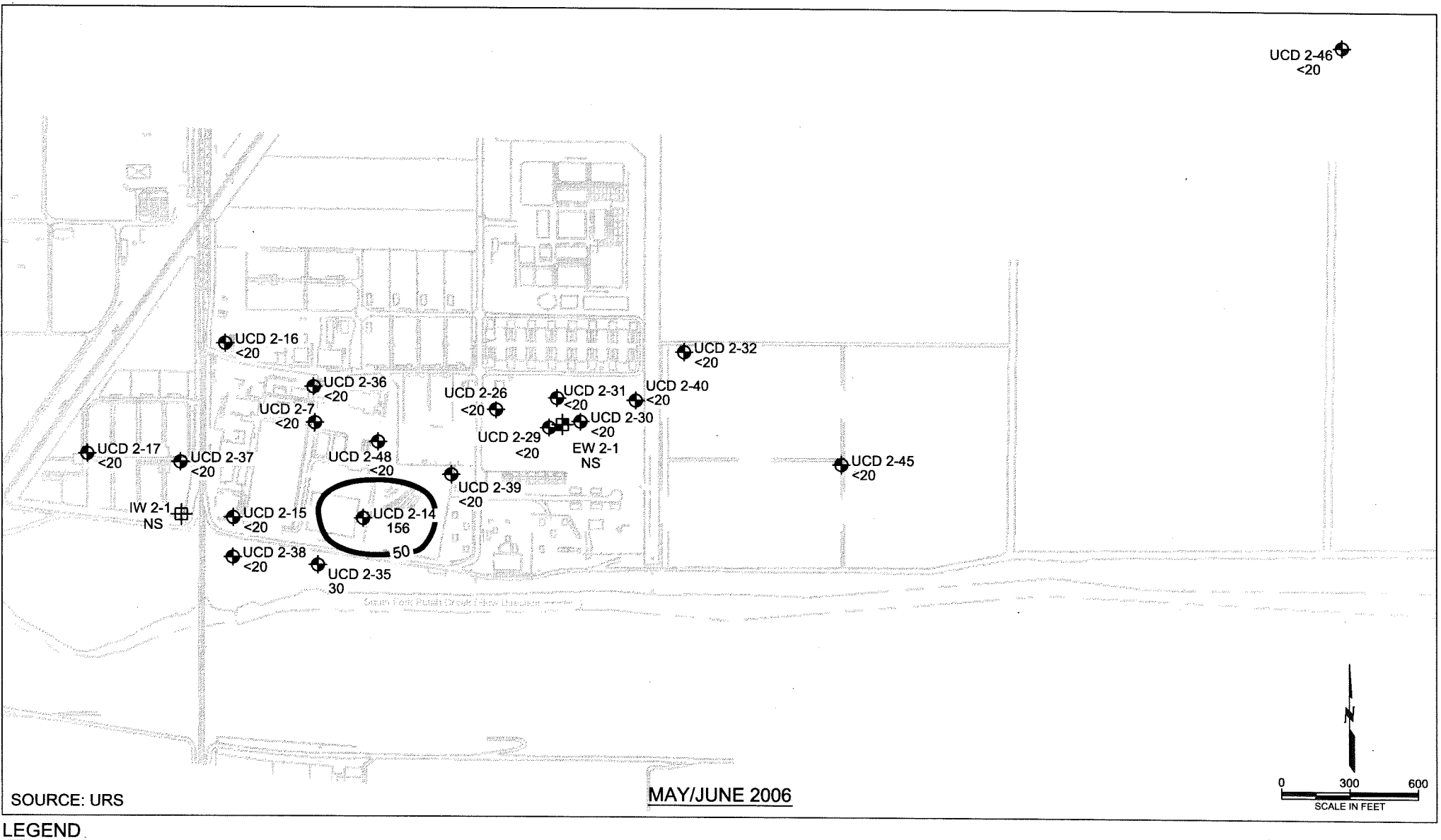
UCD1-11	HSU-2 MONITORING WELL	400	ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L
IW 2-1	HSU-2 EXTRACTION WELL		
IW 2-1	HSU-2 INJECTION WELL	<20	RESULT IS LESS THAN CRDL
NS	NOT SAMPLED		

TDS ISOCONCENTRATION CONTOURS IN HSU-2

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
DAVIS, CALIFORNIA

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig20-HSU-2 Plot date: Nov 22, 2006-03:21:47pm CAD User: jrogers

FIGURE 20



SOURCE: URS

MAY/JUNE 2006

LEGEND

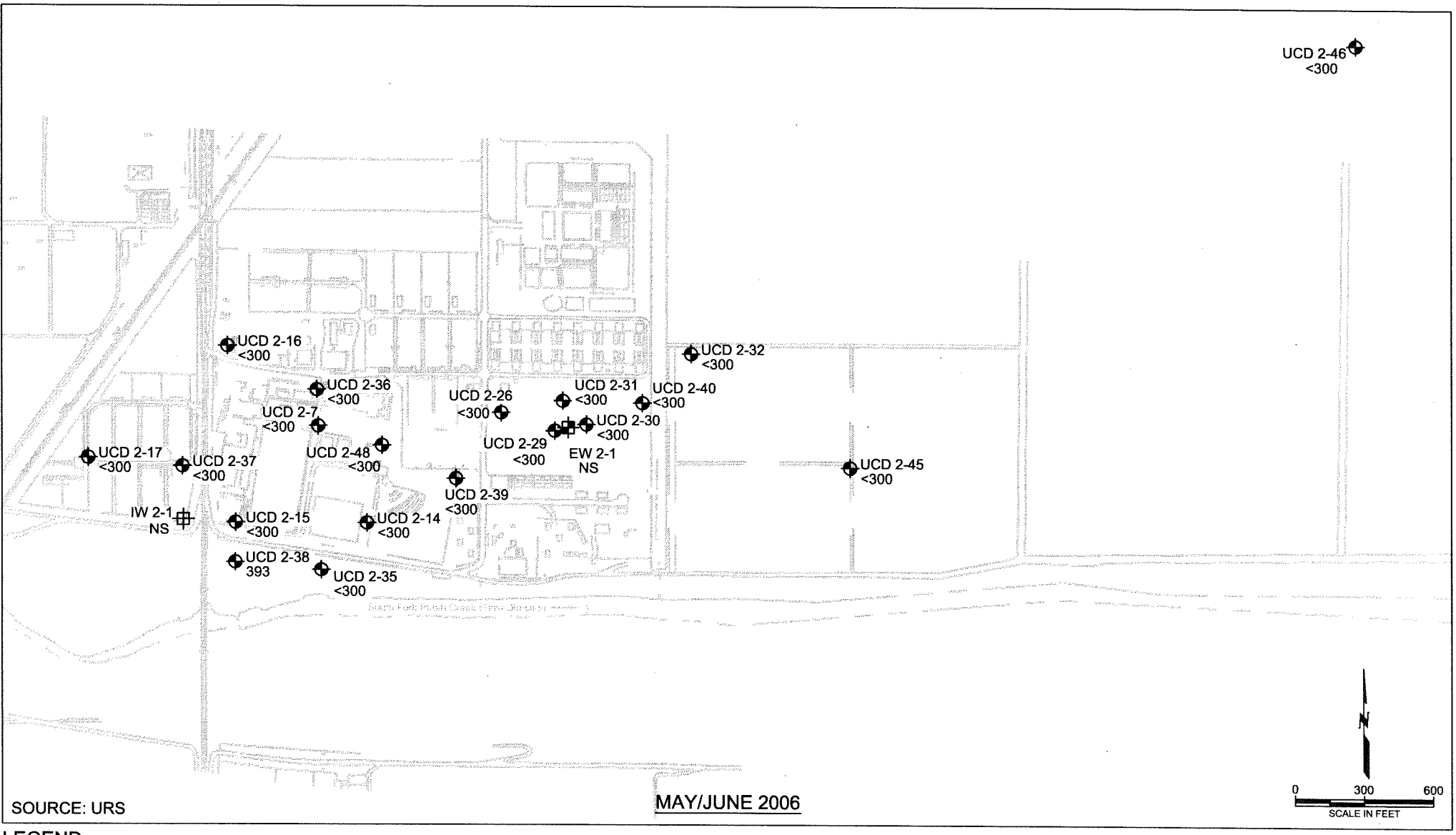
UCD1-11	HSU-2 MONITORING WELL	50	ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L
IW 2-1	HSU-2 EXTRACTION WELL		
IW 2-1	HSU-2 INJECTION WELL	<20	RESULT IS LESS THAN CRDL
NS	NOT SAMPLED		

CARBON-14 ISOCONCENTRATION CONTOURS IN HSU-2

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
DAVIS, CALIFORNIA

Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig21-HSU-2 Plot date: Nov 28, 2006-08:03:04am CAD User: jrogers

FIGURE 21



SOURCE: URS

MAY/JUNE 2006

LEGEND

UCD1-11	HSU-2 MONITORING WELL	1000	ISOCONCENTRATION CONTOUR. ALL RESULTS REPORTED IN UG/L
IW 2-1	HSU-2 EXTRACTION WELL		
IW 2-1	HSU-2 INJECTION WELL	<300	RESULT IS LESS THAN CRDL
NS	NOT SAMPLED		

TRITIUM ISOCONCENTRATION CONTOURS IN HSU-2

2006 COMPREHENSIVE ANNUAL WATER MONITORING REPORT
LEHR/SCDS
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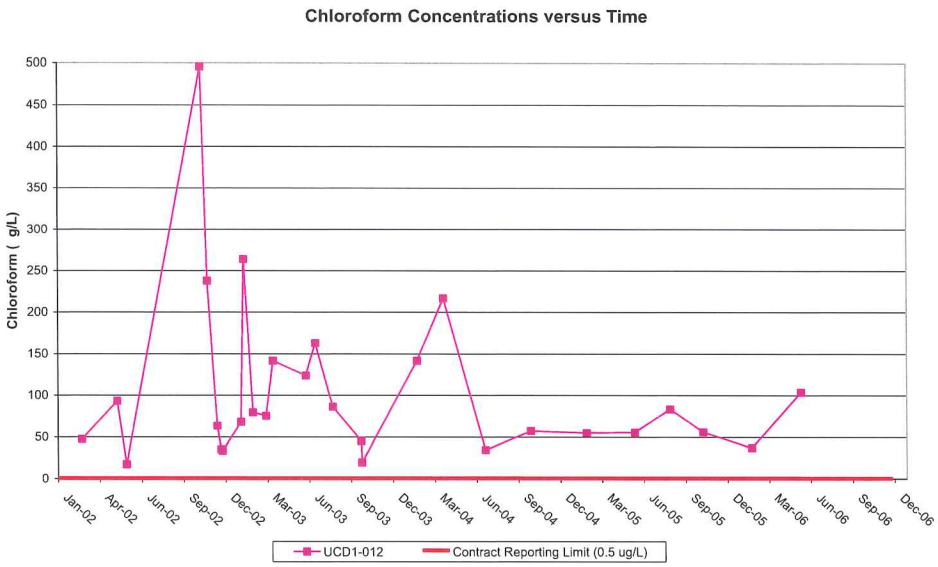
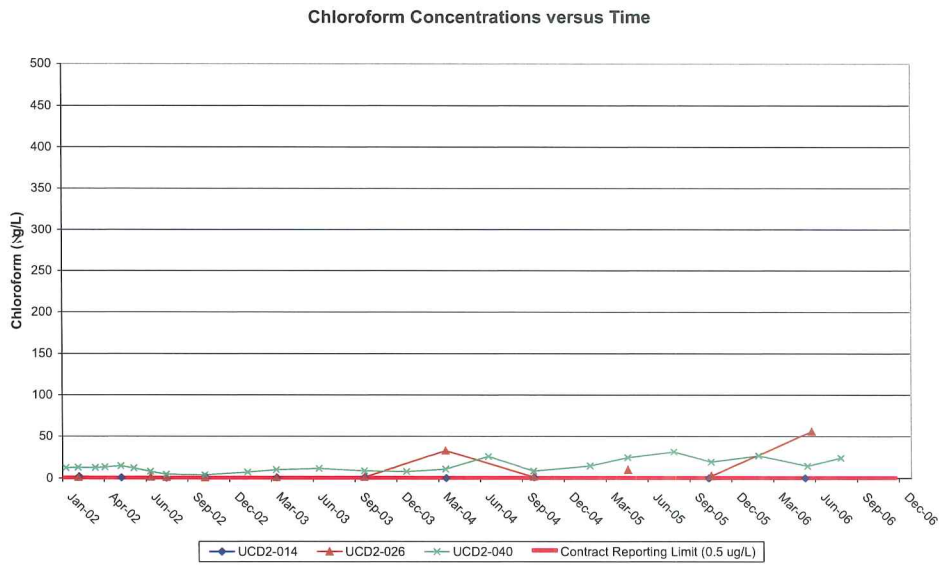
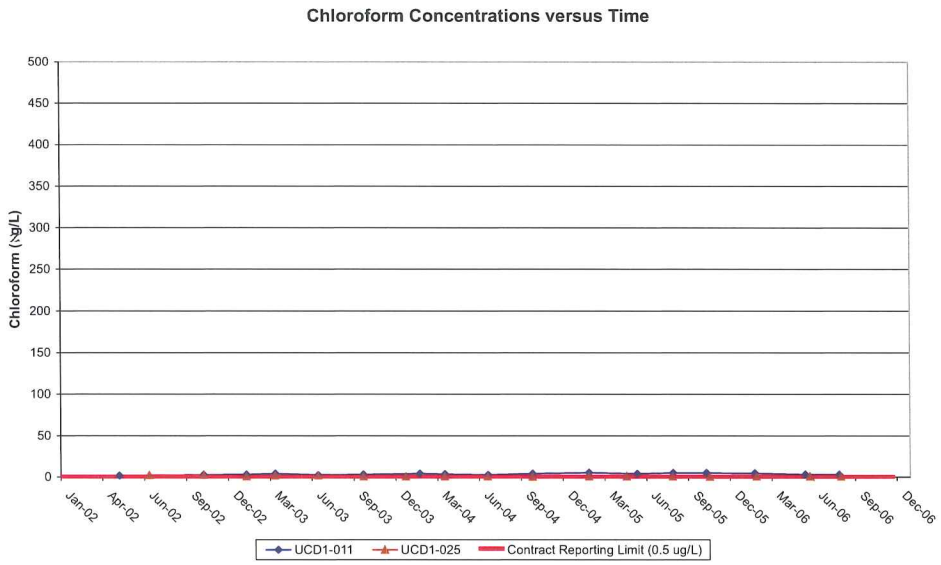
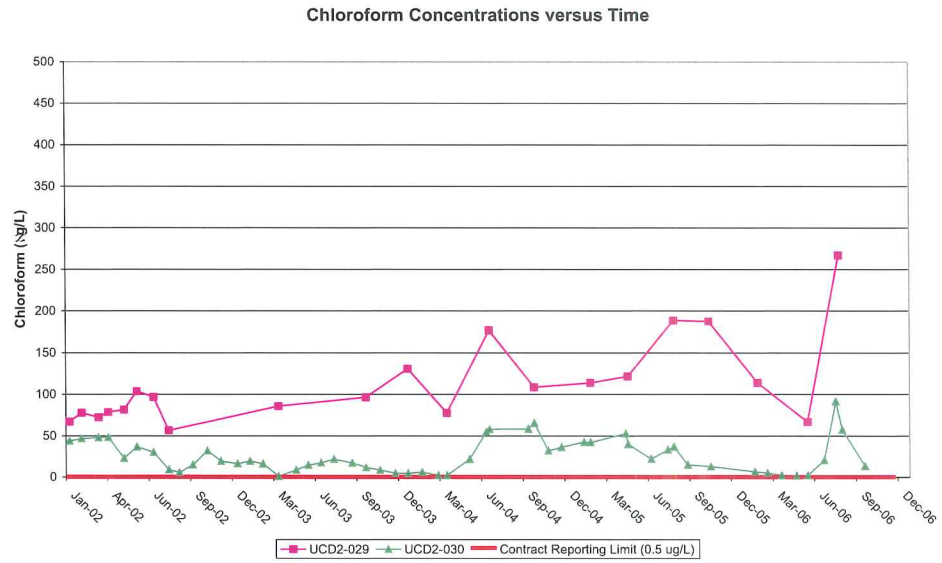
Path: P:\31000\131261 - LEHR\2006 Annual\Annual 06 figures\ Filename: Ann06-Fig22-HSU-2 Plot date: Nov 28, 2006-08:04:10am CAD User: jrogers

FIGURE 22



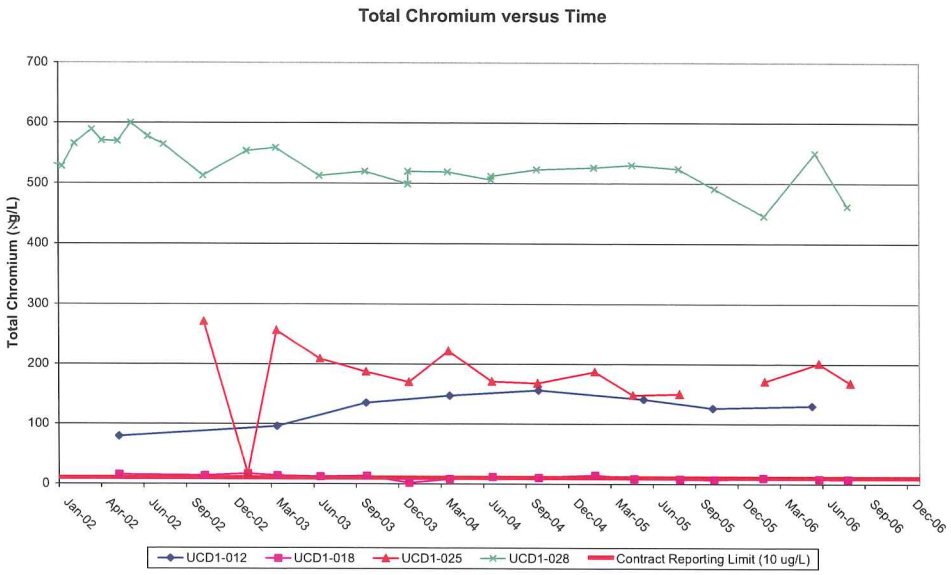


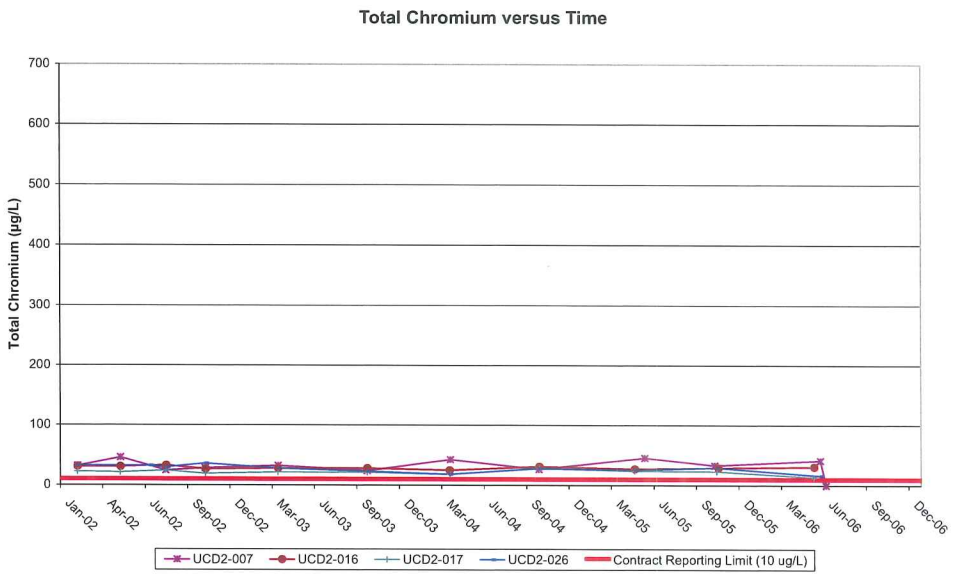




PLOTS OF CHLOROFORM VERSUS TIME IN SELECTED HSU-1 AND HSU-2 WELLS

2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS
Davis, California





PLOTS OF TOTAL CHROMIUM VERSUS TIME IN SELECTED HSU-1 AND HSU-2 WELLS

2006 Comprehensive Annual Water Monitoring Report
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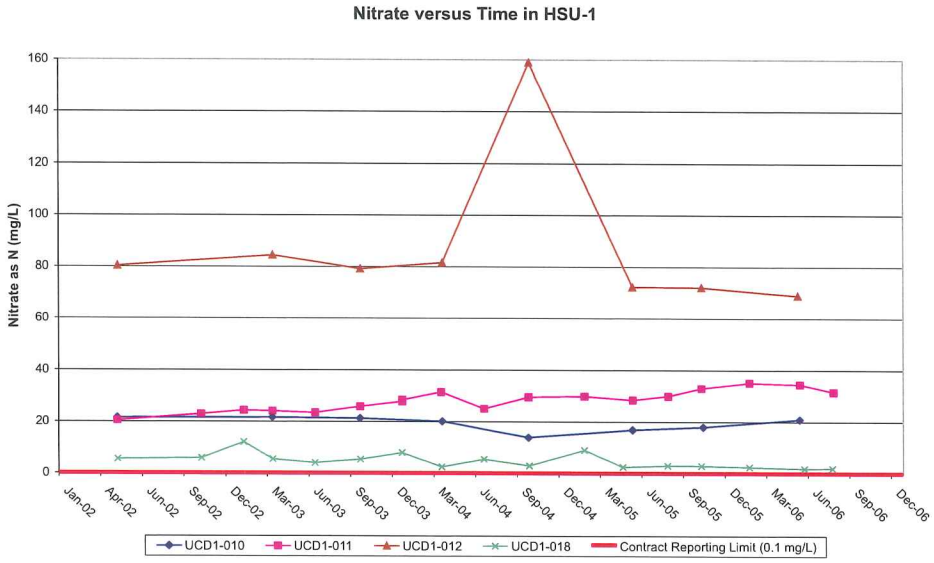
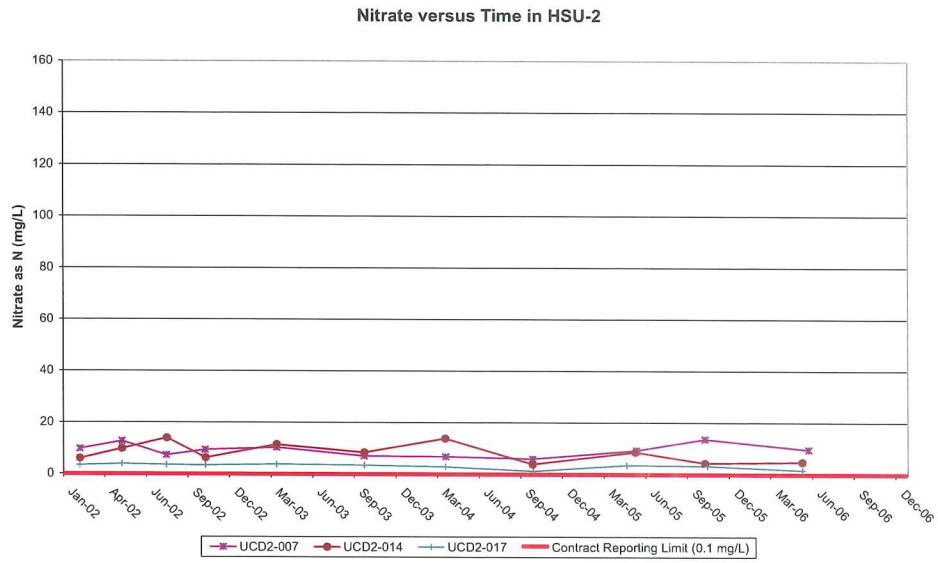
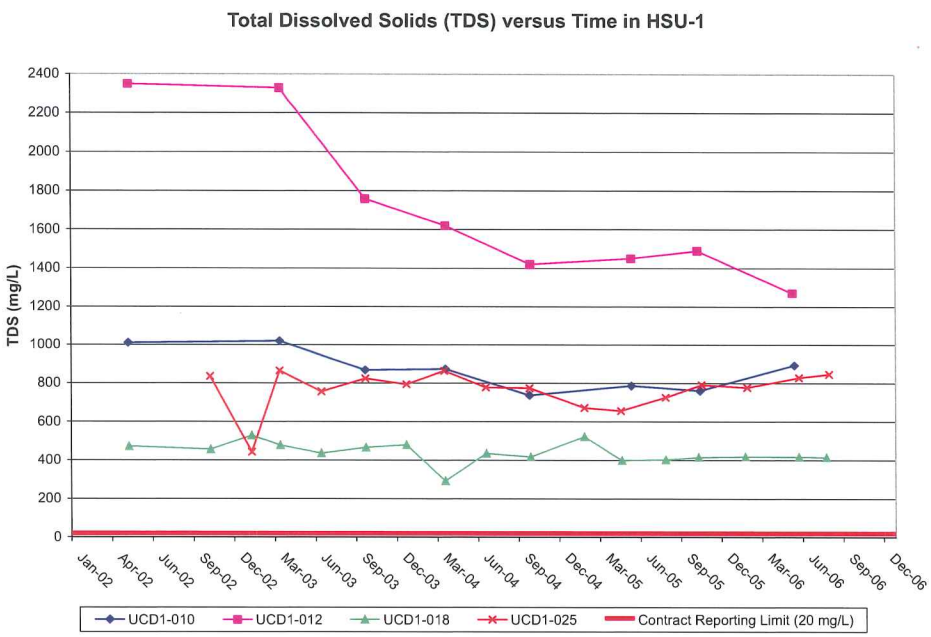
Davis, California

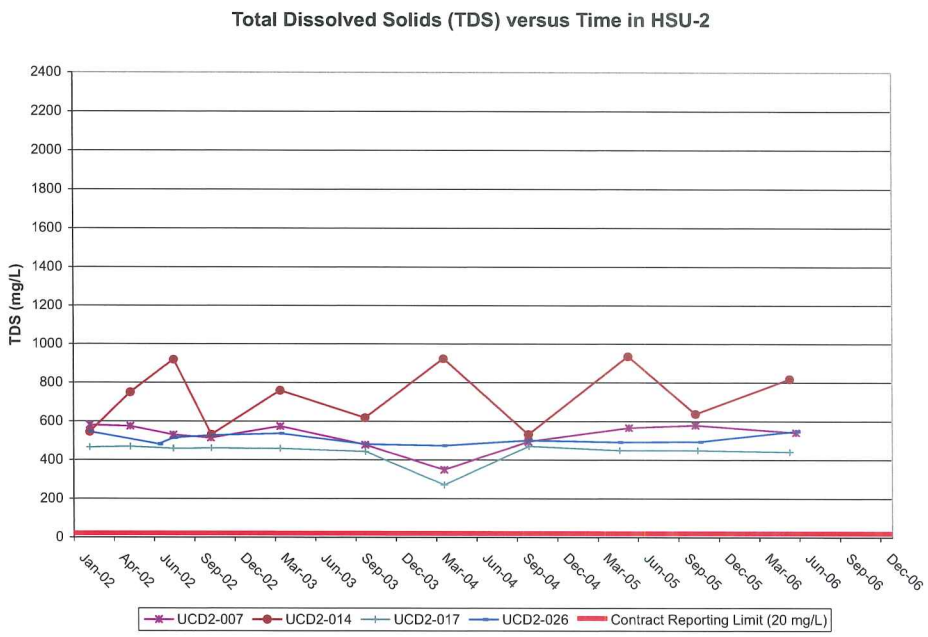




PLOTS OF NITRATE AS N VERSUS TIME IN SELECTED HSU-1 AND HSU-2 WELLS

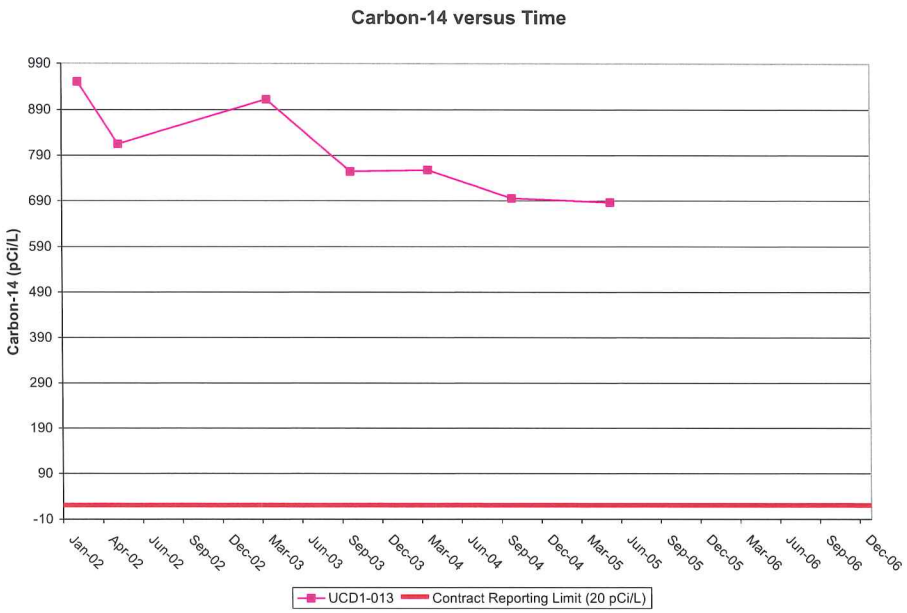
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS
Davis, California

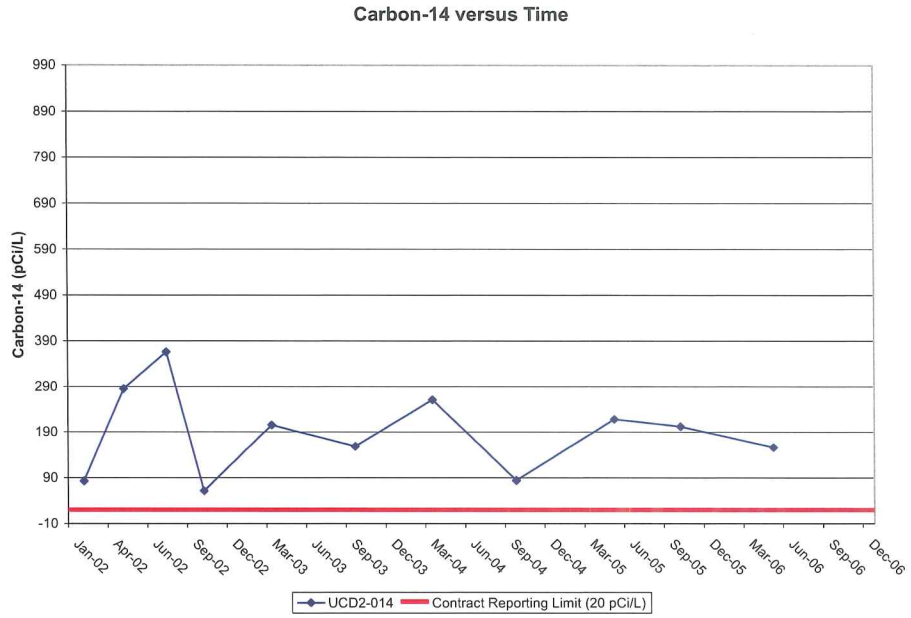


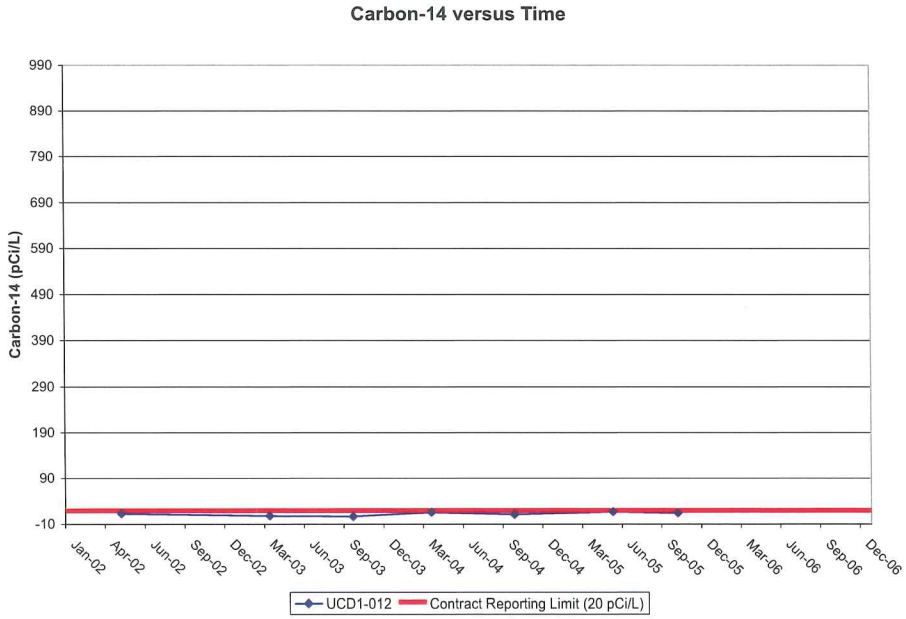


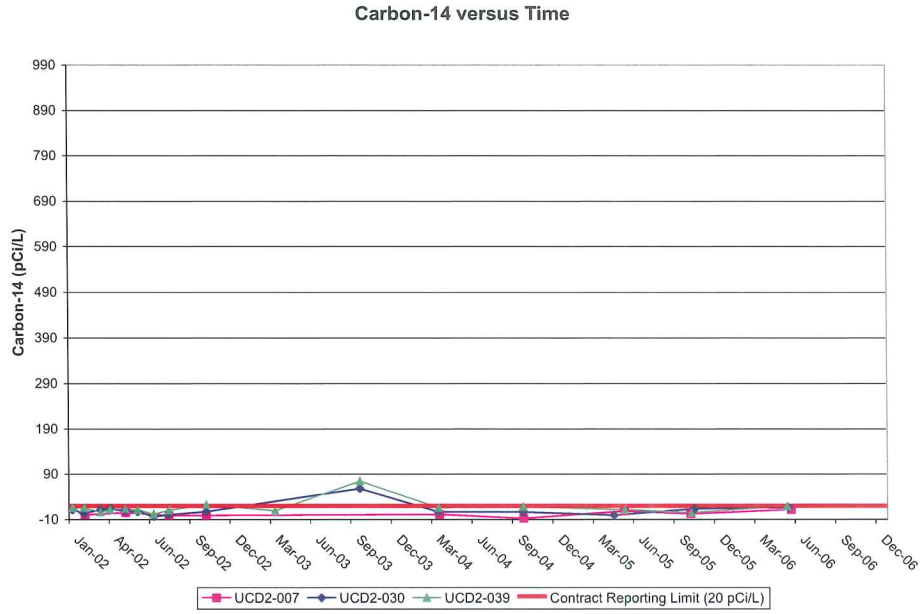
PLOTS OF TDS VERSUS TIME IN SELECTED HSU-1 AND HSU-2 WELLS

2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS
Davis, California



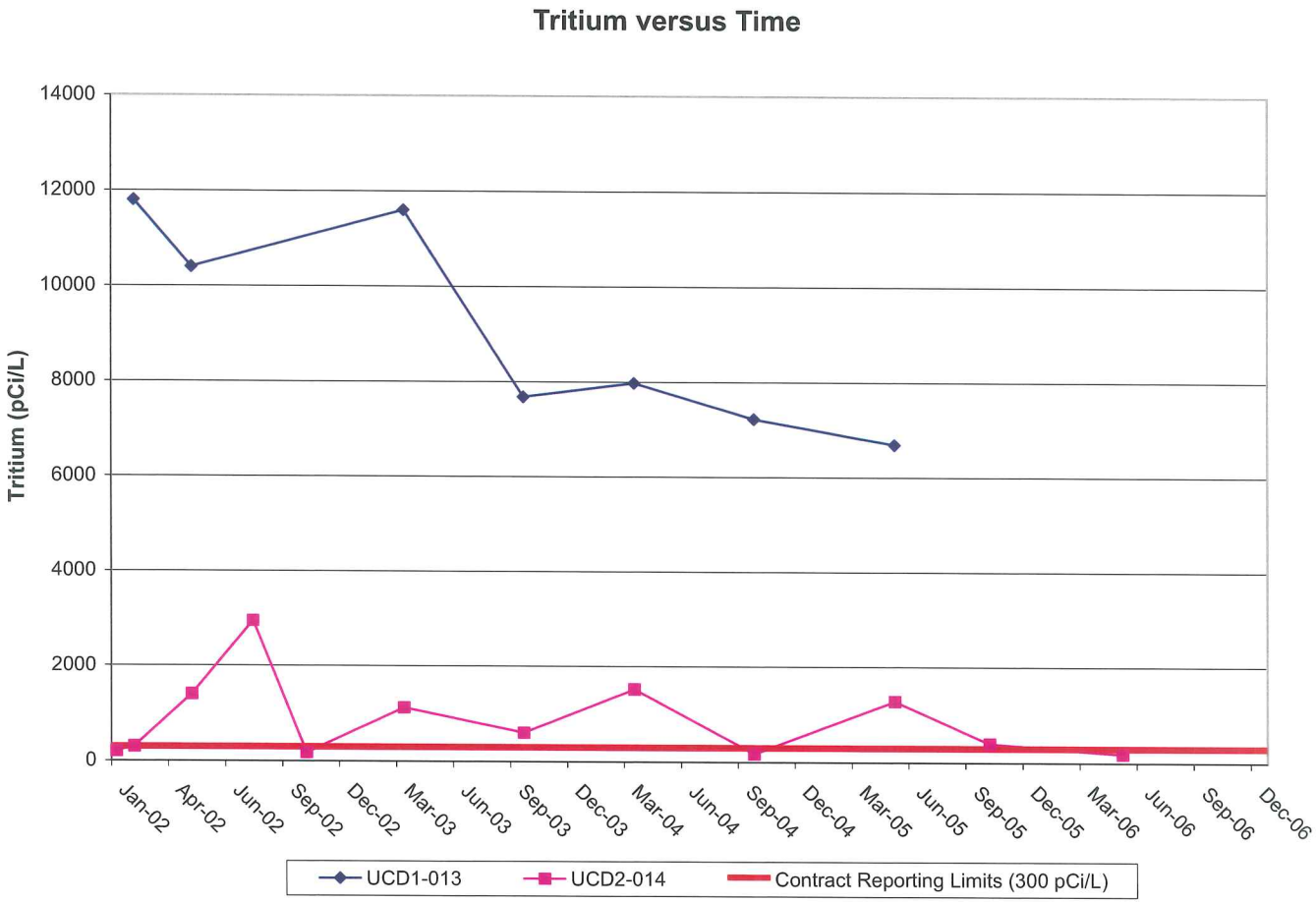






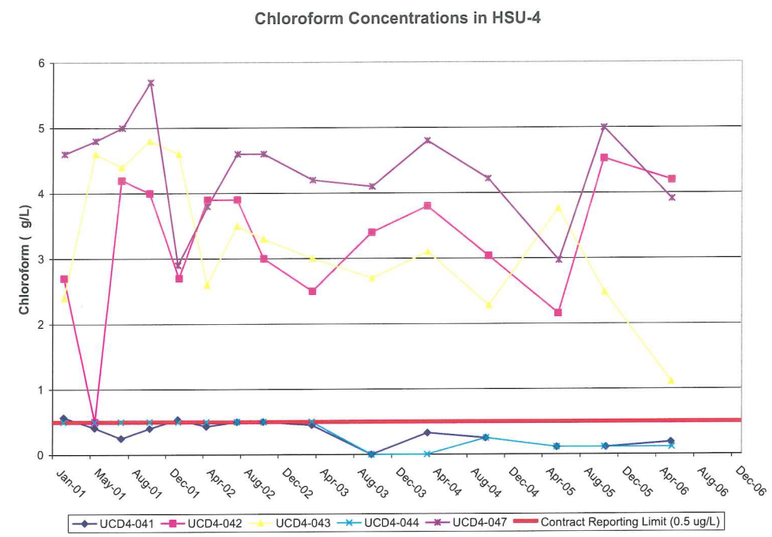
PLOTS OF CARBON-14 VERSUS TIME IN SELECTED HSU-1 AND HSU-2 WELLS

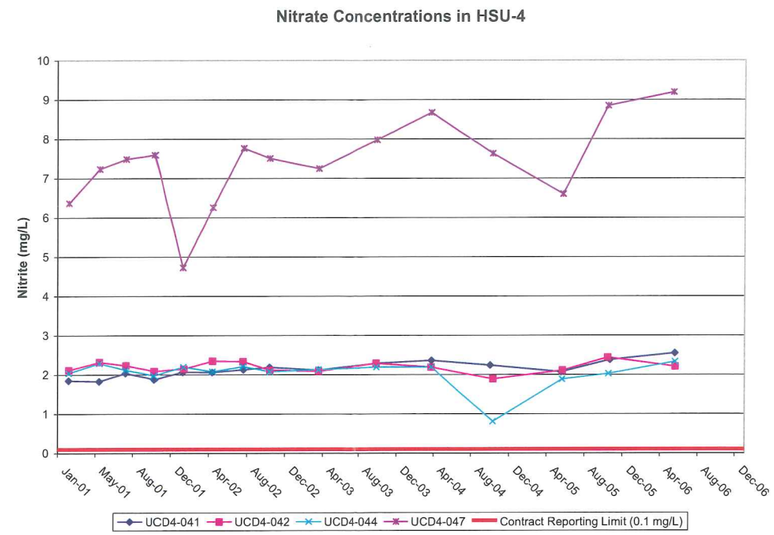
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS
Davis, California

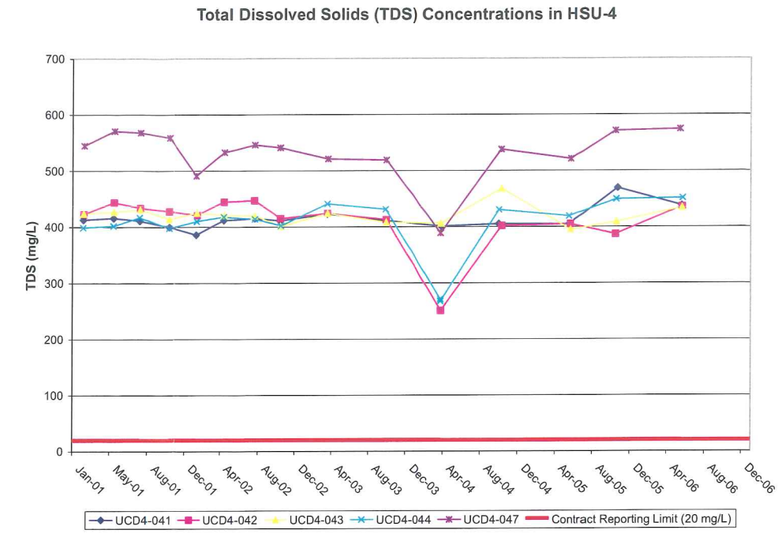


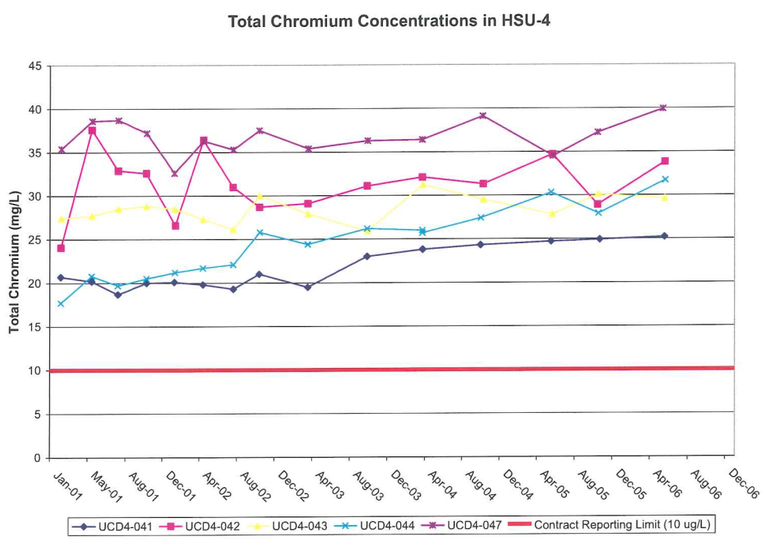
PLOT OF TRITIUM VERSUS TIME IN SELECTED HSU-1 AND HSU-2 WELLS

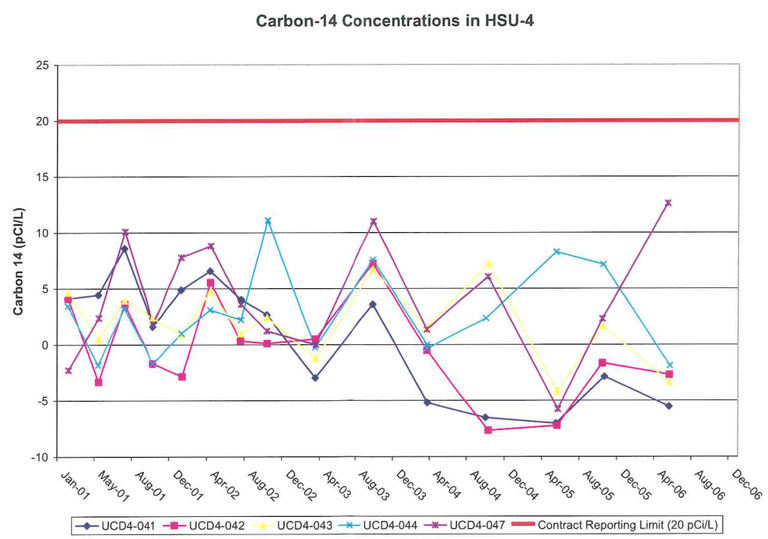
2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS
Davis, California

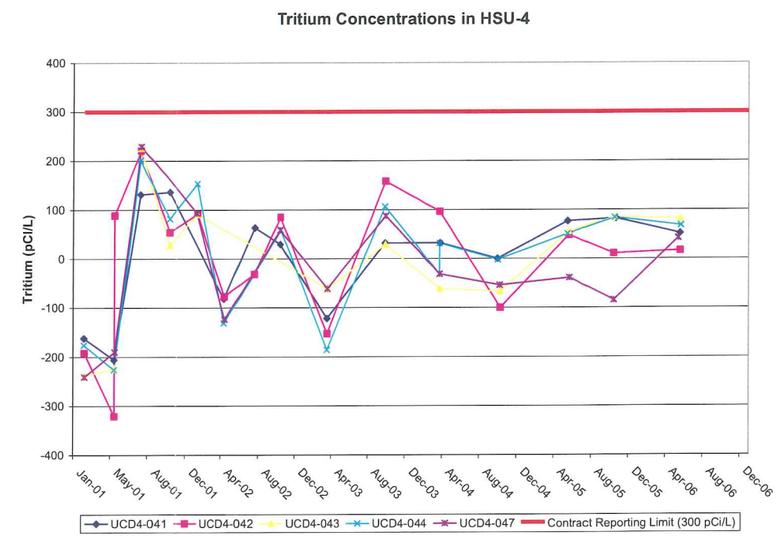






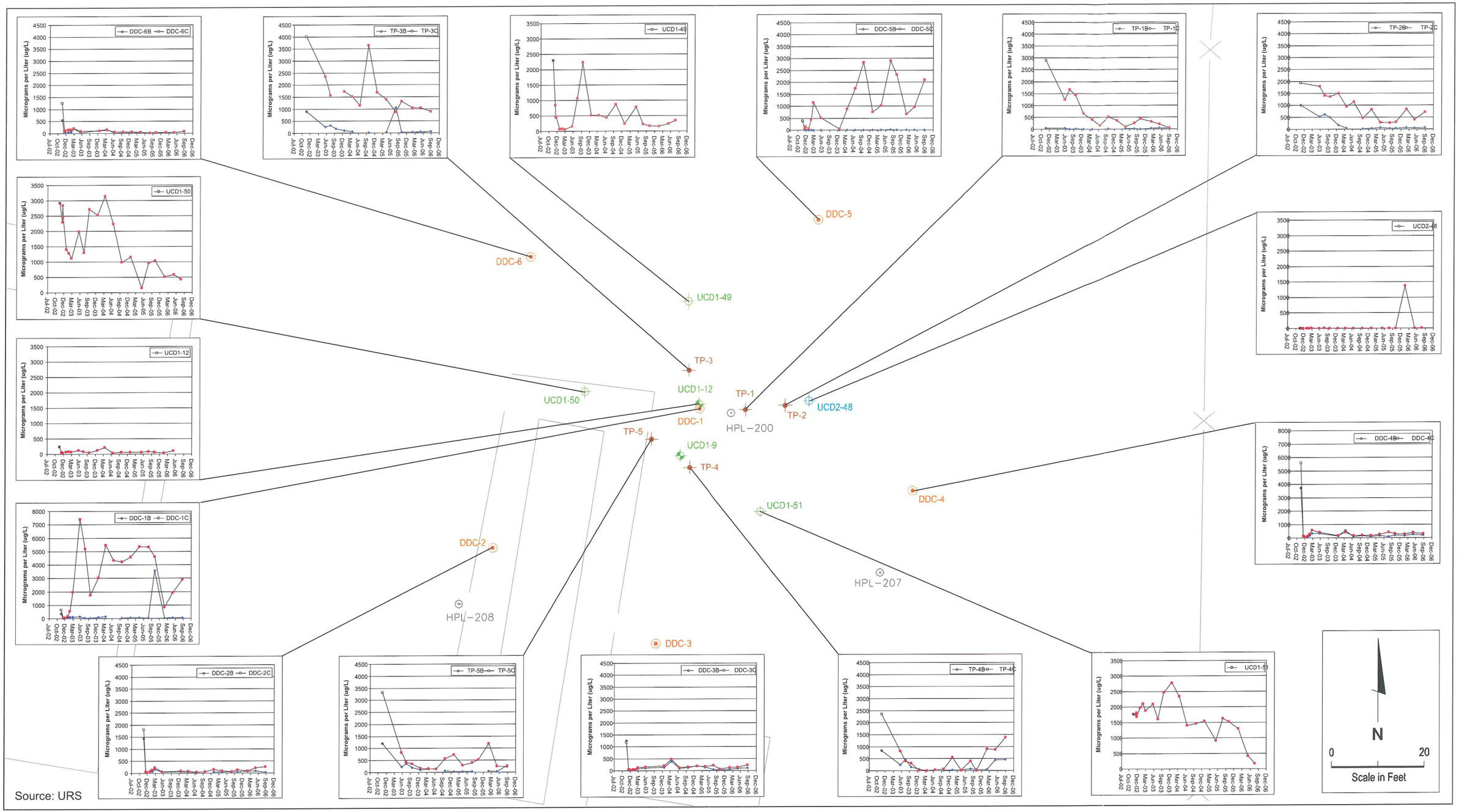






TIME VS. CONCENTRATIONS IN HSU-4 GRAPHS

2006 Comprehensive Annual Water Monitoring Report
LEHR/SCDS
Davis, California



Source: URS

EXPLANATION

- UCD1-11 HSU-1 Monitoring Well
- UCD2-17 HSU-2 Monitoring Well
- EW2-1 HSU-2 Extraction Well
- IW2-1 HSU-2 Injection Well
- UCD4-33 HSU-4 Monitoring Well
- 22N Former Irrigation Well
- STPO Surface Water Sample Location
- LS-1 Stormwater Sample Location
- DDC-1 DDC Well Location
- TP-1 Nested Piezometer Location
- HPL-210 Hydropuch Location

CHLOROFORM CONCENTRATION VS. TIME PLOTS FOR THE EXPANDED DDC PILOT TEST

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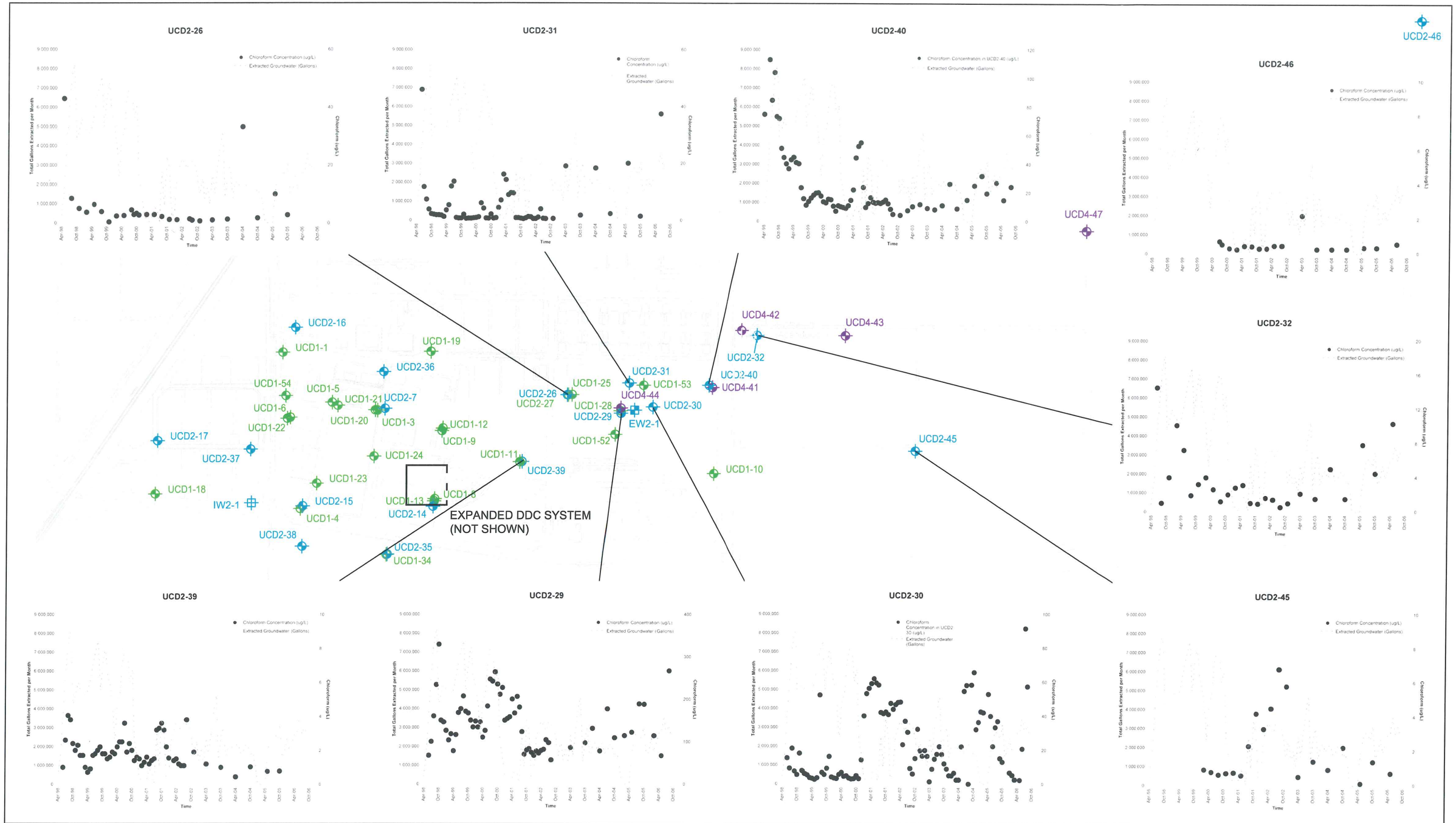

EXPLANATION

- UCD1-11 HSU-1 Monitoring Well
- UCD2-17 HSU-2 Monitoring Well
- EW2-1 HSU-2 Extraction Well
- IW2-1 HSU-2 Injection Well
- UCD4-33 HSU-4 Monitoring Well
- Former Irrigation Well

N

0 400
Scale in Feet

CHLOROFORM CONCENTRATION IN HSU-2 VERSUS TIME 1998-2006

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FIGURE 31

APPENDIX A

2006 Analytical Results for the DDC Monitoring System

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-1A	DDC-1A	DDC-1B	GWDC0148	DDC-1B	DDC-1B	DDC-1C
		Sample ID	GWDC0146	GWDC0166	GWDC0147	Dup	GWDC0167	GWDC0188	GWDC0149
		Date	02/09/06	05/11/06	02/09/06	02/09/06	05/11/06	08/31/06	02/09/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.803 J	0.747 J	0.731 J	0.838 J	0.924 J	0.776 J	**2.98**
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	0.256 J	**1.21**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**1.47**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	0.287 J	0.482 J	**1.12**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 1.75 UJ	< 0.37	< 0.37	< 1.89 UJ	2.54 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	0.712 J	< 0.446	< 0.608 UJ	0.603 J	< 0.446	< 0.671 UJ
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**23.4**	**30.1**	**20.9**	**23.6**	**49.1**	**43.2**	**834**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	**1.61**	< 0.438	**1.42**	**1.89**	< 0.438	0.916 J	**1.71**
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**1.92**	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	0.08 J	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-1C	DDC-1C	DDC-2A	DDC-2A	DDC-2A	DDC-2B	DDC-2B
		Sample ID	GWDC0168	GWDC0189	GWDC0150	GWDC0169	GWDC0170 Dup	GWDC0151	GWDC0171
		Date	05/11/06	08/31/06	02/08/06	05/09/06	05/09/06	02/08/06	05/09/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**11.1**	**17.5**	**17.9**	**17.9**	**17.9**	**9.4**	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	**3.79**	**6.34**	**0.893**	**1.94**	**1.94**	0.318 J	**0.642**
1,1-DICHLOROETHENE	0.5	UG/L	**4.66**	**8.91**	< 0.1	0.238 J	0.266 J	< 0.1	**1.8**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**3.8**	**5.41**	0.405 J	**0.952**	**0.982**	< 0.1	0.394 J
1,2-DICHLOROPROPANE	0.5	UG/L	0.427 J	**0.607**	< 0.103	0.136 J	0.124 J	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.597 J
ACETONE	5	UG/L	< 1.82 UJ	1.88 J	< 0.37	< 1.81 UJ	< 1.7 UJ	< 0.37	**7800**
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	0.444 J
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	0.171 J	0.227 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	**1.66**	< 0.446	< 0.446	0.725 J	0.676 J	< 2.07 UJ	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**1910**	**2900 J**	**250**	**291**	**336**	**76.9**	**89.3**
CHLOROMETHANE	0.5	UG/L	< 0.24	0.306 J	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	**1.4**	< 0.438	< 0.438	**1.01**	**6.17**
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 1.24 UJ	< 2.12 UJ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.213 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	0.188 J	0.463 J	< 0.1	0.159 J	0.113 J	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	**0.605**	**1.22**	0.433 J	0.453 J	0.493 J	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-2B	DDC-2C	DDC-2C	DDC-2C	DDC-3A	DDC-3A	DDC-3B
		Sample ID	GWDC0191	GWDC0152	GWDC0172	GWDC0192	GWDC0153	GWDC0173	GWDC0154
		Date	08/31/06	02/08/06	05/09/06	08/31/06	02/09/06	05/04/06	02/09/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**1.64**	**6.77**	**12.8**	**7.28**	0.386 J	0.855 J	0.447 J
1,1-DICHLOROETHANE	0.5	UG/L	0.33 J	**0.558**	**1.3**	**3.37**	**0.784**	**3.53**	**0.964**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	0.305 J	**0.808**	**0.835**	< 0.1	0.171 J	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	0.286 J	**1.45**	**2.04**	**1.61**	**1.88**	**5.9**	**2.39**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	0.159 J	< 0.103	**0.617**	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.22 J	< 0.37	< 3.11 UJ	**5.9**	< 0.37	< 1.52 UJ	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.115 J	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	**1.59**	0.594 J	< 0.446	< 0.446	0.766 J	0.816 J
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**26**	**90.9**	**220**	**259**	**42.4**	**161**	**51**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	**1.01**	0.954 J	< 0.438	**1.21**	**1.72**	< 0.438	**1.83**
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.203 UJ	**1.97**	< 0.2	< 0.339 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	0.314 J	0.472 J	< 0.1	0.147 J	< 0.1
TOLUENE	0.5	UG/L	0.0931 J	< 0.056	< 0.056	0.0581 J	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	0.427 J	**0.931**	**0.769**	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	0.274 J	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

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Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-3B	DDC-3B	DDC-3C	DDC-3C	DDC-3C	DDC-4A	DDC-4A
		Sample ID	GWDC0174	GWDC0194	GWDC0155	GWDC0175	GWDC0195	GWDC0156	GWDC0176
		Date	05/11/06	08/31/06	02/09/06	05/11/06	08/31/06	02/08/06	05/09/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.487 J	0.668 J	0.589 J	0.602 J	0.749 J	0.954 J	**1.26**
1,1-DICHLOROETHANE	0.5	UG/L	**1.87**	**3.06**	**4.04**	**3.42**	**6.74**	**0.948**	**1.28**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	0.437 J	0.274 J	**0.56**	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**3.03**	**6.05**	**3.81**	**4.23**	**6.85**	**4.06**	**5.97**
1,2-DICHLOROPROPANE	0.5	UG/L	0.322 J	**0.654**	0.401 J	0.475 J	**0.979**	**0.503**	**0.687**
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.08 UJ	1.11 J	< 0.37	< 1.32 UJ	1.35 J	< 0.37	< 2.93 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.131 J
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 4.14 UJ	0.685 J	< 0.446	< 0.446	0.698 J
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**86.1**	**107**	**130**	**136**	**228**	**128**	**179**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	0.673 J	**1.2**	< 0.438	< 0.438	**1.31**	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.296 UJ	**1.69**	< 0.2	< 0.2	0.821 J	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	0.323 J	0.266 J	0.463 J	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-4B	DDC-4B	DDC-4B	DDC-4C	DDC-4C	DDC-4C	DDC-4C	DDC-5A
		Sample ID	GWDC0157	GWDC0177	GWDC0199	GWDC0158	GWDC0178	GWDC0179	GWDC0200	GWDC0159
		Date	02/08/06	05/09/06	09/05/06	02/08/06	05/11/06	Dup 05/11/06	09/05/06	02/08/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**1.16**	**1.3**	**1.19**	**1.33**	**1.32**	**1.26**	**1.53**	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	**1.14**	**2.06**	**1.57**	**1.91**	**3.4**	**2.95**	**3.42**	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	0.153 J	< 0.1	< 0.1	**0.533**	0.478 J	0.379 J	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**5.06**	**7.04**	**7.05**	**6.03**	**7.55**	**6.88**	**10.6**	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	**0.609**	**1.03**	**1**	**0.854**	**1.34**	**1.16**	**1.69**	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 2.13 UJ	1.06 J	< 0.37	< 1.57 UJ	< 1.63 UJ	1.19 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	0.177 J	< 0.1	< 0.1	0.192 J	0.175 J	0.24 J	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	**1.21**	0.51 J	< 0.446	0.569 J	0.901 J	**1.27**	< 0.446	< 0.497 UJ
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**158**	**252**	**183**	**266**	**385**	**386**	**289**	**0.739**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	0.769 J	< 0.438	< 0.438	**2.02**	< 0.438	< 0.438	< 0.438	**1.93**
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2 UJ	< 0.2	< 0.329 UJ	< 0.2 UJ	< 0.219 UJ	< 0.206 UJ	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-5A	DDC-5B	DDC-5B	DDC-5B	DDC-5C	DDC-5C	DDC-5C	DDC-6A
		Sample ID	GWDC0180	GWDC0160	GWDC0181	GWDC0202	GWDC0161	GWDC0182	GWDC0203	GWDC0163
		Date	05/09/06	02/08/06	05/09/06	09/05/06	02/08/06	05/09/06	09/05/06	02/08/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	**3.77**	**4.81**	**11.8**	**2.46**
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	**1.1**	**1.09**	**4.1**	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	**1.68**	**1.61**	**7.44**	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	**0.884**	**0.742**	**1.63**	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.73 UJ	< 0.37	< 1.92 UJ	1.18 J	< 0.37	< 1.52 UJ	1.04 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	0.259 J	**1.38**	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.568 UJ	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.579 UJ
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**5.58**	**0.856**	**6.79**	**1.05**	**656**	**962**	**2100**	**28**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	0.571 J	< 0.438	< 0.438	**1.75**	< 0.438	< 0.438	**1.1**
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.242 UJ	< 0.2	< 0.2	< 0.452 UJ	< 1.29 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.332 J	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.242 J	**0.929**	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-6A	DDC-6A	DDC-6B	DDC-6B	DDC-6B	DDC-6C	DDC-6C
		Sample ID	GWDC0183	GWDC0184 Dup	GWDC0162	GWDC0185	GWDC0205	GWDC0164	GWDC0186
		Date	05/09/06	05/09/06	02/08/06	05/09/06	09/05/06	02/08/06	05/09/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**4.11**	**4.09**	**2.66**	**3.09**	**4.98**	**1.36**	**2.63**
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**1.13**	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.42 UJ	< 2.02 UJ	< 0.37	< 2.01 UJ	1.39 J	< 0.37	< 2.04 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.994 UJ	0.454 J	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**66.9**	**67**	**29.3**	**36.8**	**83.7**	**44.4**	**37.4**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	**1.02**	< 0.438	< 0.438	**1.16**	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.28 UJ	< 0.249 UJ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-6C	TP-1A	TP-1A	TP-1B	GWTP0142	TP-1B	TP-1B	TP-1C
		Sample ID	GWDC0206	GWTP0140	GWTP0157	GWTP0141	Dup	GWTP0158	GWTP0174	GWTP0143
		Date	09/05/06	02/10/06	05/15/06	02/14/06	02/14/06	05/15/06	09/07/06	02/14/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**3.7**	0.291 J	0.355 J	0.947 J	**1.04**	0.811 J	0.698 J	**2.67**
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	0.144 J	< 0.101	< 0.101	0.245 J	0.197 J	**1.06**
1,1-DICHLOROETHENE	0.5	UG/L	0.129 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.869**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25 UJ	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	0.255 J	< 0.1	< 0.1	0.288 J	0.238 J	**0.584**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.02 J	< 0.37	< 2.02 UJ	< 0.37	< 0.37	< 1.49 UJ	1.55 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 1.6 UJ	< 0.446	**1.5 J**	< 0.446 UJ	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**75.9**	**37**	**35.3**	**31.8**	**36.5**	**52.8**	**45.9**	**308**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	0.691 J	< 0.438	< 0.438	0.716 J	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.271 UJ	< 0.2 UJ	< 0.2 UJ	< 0.275 UJ	< 0.662 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-1C	TP-1C	TP-2A	TP-2A	TP-2B	TP-2B	TP-2B	TP-2C
		Sample ID	GWTP0159	GWTP0175	GWTP0154	GWTP0160	GWTP0145	GWTP0161	GWTP0177	GWTP0146
		Date	05/15/06	09/07/06	02/08/06	05/16/06	02/09/06	05/16/06	09/06/06	02/09/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**1.76**	0.643 J	< 0.104	0.128 J	0.852 J	0.591 J	0.782 J	**5.02**
1,1-DICHLOROETHANE	0.5	UG/L	**1.15**	0.245 J	< 0.101	< 0.101	< 0.101	0.142 J	0.253 J	**2.42**
1,1-DICHLOROETHENE	0.5	UG/L	**0.583**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**2.32**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25 UJ	< 0.25	< 0.25 UJ	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**0.65**	0.286 J	< 0.1	< 0.1	< 0.1	0.148 J	0.307 J	**1.48**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.74 UJ	2.34 J	< 0.37	< 1.9 UJ	< 0.37	< 1.54 UJ	0.958 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.493 UJ	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**201**	**41.8**	**16.3**	**23.2**	**54.5**	**41.7**	**54.7**	**833**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	0.666 J	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.325 UJ	< 0.625 UJ	< 0.2	< 0.301 UJ	< 0.2	< 0.299 UJ	< 0.741 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.0705 UJ	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.382 J
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

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Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-2C	TP-2C	TP-3A	TP-3A	TP-3A	TP-3B	TP-3B
		Sample ID	GWTP0162	GWTP0178	GWTP0147	GWTP0163	GWTP0164	GWTP0148	GWTP0165
		Date	05/15/06	09/06/06	02/09/06	05/09/06	Dup 05/09/06	02/15/06	05/09/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**3.06**	**3.18**	< 0.104	0.349 J	0.36 J	0.907 J	0.906 J
1,1-DICHLOROETHANE	0.5	UG/L	**1.42**	**5.04**	< 0.101	< 0.101	< 0.101	< 0.101	0.19 J
1,1-DICHLOROETHENE	0.5	UG/L	**1.14**	**2.2**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25 UJ	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**1.07**	**2.72**	< 0.1	< 0.1	< 0.1	< 0.1	0.252 J
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	0.176 J	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.49 UJ	1.12 J	0.65 J	< 1.28 UJ	< 1.79 UJ	< 0.37	< 1.15 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.451 UJ	0.466 J	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**402**	**710**	**36.3**	**27.6**	**29.4**	**36**	**52.8**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	0.698 J	< 0.438	0.765 J	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.64 UJ	< 0.404 UJ	< 0.2	< 0.337 UJ	< 0.3 UJ	< 0.2 UJ	< 0.348 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	0.133 J	0.301 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	0.228 J	0.366 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	0.318 J	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-3B	TP-3C	TP-3C	TP-3C	TP-4A	TP-4A
		Sample ID	GWTP0180	GWTP0149	GWTP0166	GWTP0181	GWTP0150	GWTP0167
		Date	09/06/06	02/15/06	05/09/06	09/06/06	02/10/06	05/12/06
AnalyteNameShort	CRDL	UnitsID						
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.772 J	**6.22**	**6.36**	**4.79**	0.457 J	0.538 J
1,1-DICHLOROETHANE	0.5	UG/L	0.308 J	**2.12**	**2.87**	**3.83**	< 0.101	0.138 J
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	**2.8**	**2.23**	**2.31**	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 UJ	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	0.476 J	**0.871**	**1.03**	**1.36**	< 0.1	0.105 J
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.75 J	< 0.37	< 1.49 UJ	1.4 J	< 0.37	< 2.4 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**59.2**	**1040**	**1040**	**888**	**52.6**	**39.9**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.526 UJ	< 0.2	< 0.377 UJ	< 0.439 UJ	< 0.2	< 0.341 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	0.212 J	0.26 J	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	0.448 J	**0.521**	0.327 J	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-4B	TP-4B	TP-4B	TP-4C	TP-4C	TP-4C
		Sample ID	GWTP0151	GWTP0168	GWTP0183	GWTP0152	GWTP0169	GWTP0184
		Date	02/14/06	05/12/06	09/06/06	02/14/06	05/10/06	09/06/06
AnalyteNameShort	CRDL	UnitsID						
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**1.06**	**1.03**	0.879 J	**4.24**	**3.46**	**3.04**
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	**2.33**	**2.88**	**12.1**	**12.2**	**17.5**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	**0.745**	**0.859**	**4.79**	**4.52**	**5.29**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	0.268 J	**1.67**	**2.06**	**3.31**	**3.93**	**7.86**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	0.414 J	0.414 J	**0.58**
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 0.37	1.73 J	< 0.37	< 1.22 UJ	1.84 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**52.8**	**440**	**456**	**900**	**875**	**1370**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	0.626 J	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2 UJ	< 0.274 UJ	< 0.349 UJ	< 0.2	< 0.283 UJ	< 0.726 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	**1.51**	**1.27**	**1.69**
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	**1.39**	**1.11**	**0.914**
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-5A	TP-5A	TP-5B	TP-5B	TP-5B	TP-5C	TP-5C
		Sample ID	GWTP0153	GWTP0170	GWTP0154	GWTP0171	GWTP0187	GWTP0155	GWTP0156 Dup
		Date	02/10/06	05/16/06	02/14/06	05/16/06	09/06/06	02/14/06	02/14/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.608 J	0.883 J	**1.05**	0.794 J	**2.81**	**8.54**	**7.88**
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	0.222 J	< 0.101	0.106 J	**1.13**	**4.49**	**4.14**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	0.373 J	**3.56**	**3.33**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25 UJ	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	0.246 J	< 0.1	0.141 J	**0.82**	**1.56**	**1.41**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 1.4 UJ	< 0.37	< 1.01 UJ	1.66 J	< 0.37	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**36.4**	**55.1**	**40**	**30.2**	**279**	**1060**	**1190**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.337 UJ	< 0.2	< 0.305 UJ	< 0.683 UJ	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.451 J	0.439 J
TOLUENE	0.5	UG/L	< 0.056	< 0.0846 UJ	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**0.735**	**0.72**
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
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UJ - Estimated value falls below reporting limit.

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		Location	TP-5C	TP-5C	UCD1-012	UCD1-012	UCD1-049	UCD1-049	UCD1-049
		Sample ID	GWTP0172	GWTP0188	GWGW1986	GWGW2009	GWGW1994	GWGW2017	GWGW2065
		Date	05/16/06	09/07/06	02/01/06	05/18/06	02/03/06	05/17/06	08/03/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**2.35**	**2.25**	0.848 J	**1.31**	**1.2**	**1.11**	0.961 J
1,1-DICHLOROETHANE	0.5	UG/L	**0.88**	**0.901**	< 0.101	0.484 J	< 0.101	0.341 J	**0.586**
1,1-DICHLOROETHENE	0.5	UG/L	0.294 J	0.272 J	< 0.1	< 0.1	**1.28**	**1.11**	**0.839**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	0.471 J	**0.601**	< 0.1	0.409 J	< 0.1	0.107 J	0.253 J
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.81 UJ	1.39 J	< 0.37	< 1.05 UJ	< 0.37	< 0.862 UJ	0.92 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**250**	**224**	**37.1**	**104**	**146**	**239**	**348**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.319 UJ	< 0.565 UJ	< 0.2 UJ	< 0.25 UJ	< 0.2 UJ	< 0.306 UJ	0.493 J
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-050	UCD1-050	UCD1-050	UCD1-051	UCD1-051	UCD1-051	UCD1-051
		Sample ID	GWGW1995	GWGW2018	GWGW206	GWGW199	GWGW1997 Dup	GWGW2019	GWGW2067
		Date	02/03/06	06/02/06	6 08/03/06	6 02/03/06	02/03/06	05/18/06	08/02/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**6.28**	**7.57**	**9.93**	**3.67**	**3.87**	**1.89**	0.837 J
1,1-DICHLOROETHANE	0.5	UG/L	**0.79**	**1.61**	**1.3**	**20.2**	**20.3**	**6.49**	**2.4**
1,1-DICHLOROETHENE	0.5	UG/L	**2.06**	**1.86**	**0.834**	**6.84**	**6.86**	**2.07**	**0.515**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	0.39 J	0.475 J	**9.46**	**9.39**	**5.53**	**3.4**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	**0.671**	**0.652**	0.334 J	0.245 J
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 2.58 UJ	1.38 J	< 0.37	< 0.37	< 1.05 UJ	1.25 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**513**	**579**	**433**	**1300**	**1300**	**407**	**162**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2 UJ	< 0.423 UJ	0.277 J	< 0.2 UJ	< 0.2 UJ	< 0.372 UJ	0.421 J
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	**2.38**	**2.32**	**1.41**	**0.826**
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	0.457 J	0.287 J	0.285 J	**1.08**	**1.06**	**0.524**	0.221 J
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
VOLATILE ORGANIC COMPOUNDS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD2-048	UCD2-048	UCD2-048
		Sample ID	GWGW2002	GWGW2043	GWGW2072
		Date	02/07/06	05/17/06	08/02/06
AnalyteNameShort	CRDL	UnitsID			
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**3.68**	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	**20.3**	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	**5.79**	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25 UJ	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**9.61**	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	**0.679**	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 0.72 UJ	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**1380**	**2.31**	**11.4**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.308 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	**2.12**	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	**1.01**	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175

NS - Not Sampled
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J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
METALS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-012	UCD1-049	UCD1-050	UCD1-051	UCD2-048
		Sample ID	GWGW2009	GWGW2017	GWGW2018	GWGW2019	GWGW2043
		Date	05/18/06	05/17/06	06/02/06	05/18/06	05/17/06
AnalyteNameShort	CRDL	UnitsID					
ANTIMONY	5	UG/L	NS	NS	< 0.5	NS	NS
ARSENIC	3	UG/L	NS	NS	2.57 J	NS	NS
BARIUM	20	UG/L	NS	NS	**457**	NS	NS
BERYLLIUM	1	UG/L	NS	NS	< 0.1	NS	NS
BORON	50	UG/L	NS	NS	**1040**	NS	NS
CADMIUM	1	UG/L	NS	NS	< 0.1	NS	NS
CHROMIUM, TOTAL	10	UG/L	**130**	**116**	2.2 J	**107**	**11.7**
COBALT	10	UG/L	NS	NS	0.712 J	NS	NS
COPPER	10	UG/L	NS	NS	1.29 J	NS	NS
IRON	100	UG/L	NS	NS	**186**	NS	NS
LEAD	3	UG/L	NS	NS	< 0.5	NS	NS
MANGANESE	10	UG/L	NS	NS	< 1	NS	NS
MERCURY	0.2	UG/L	NS	NS	< 0.06	NS	NS
MOLYBDENUM	10	UG/L	NS	NS	0.378 J	NS	NS
NICKEL	20	UG/L	NS	NS	1.51 J	NS	NS
SELENIUM	3	UG/L	NS	NS	**14.5**	NS	NS
SILVER	10	UG/L	NS	NS	< 0.2	NS	NS
THALLIUM	10	UG/L	NS	NS	< 0.4	NS	NS
VANADIUM	10	UG/L	NS	NS	**23.1 J**	NS	NS
ZINC	20	UG/L	NS	NS	< 2.78 UJ	NS	NS

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
RADS IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-012	UCD1-049	UCD1-050	UCD1-051	UCD2-048
		Sample ID	GWGW2009	GWGW2017	GWGW2018	GWGW2019	GWGW2043
		Date	05/18/06	05/17/06	06/02/06	05/18/06	05/17/06
AnalyteNameShort	CRDL	UnitsID					
CARBON-14	20	PCI/L	**43 +/- 8.42**	**23.8 +/- 9.19**	**84.6 +/- 8.76**	**41.2 +/- 8.23**	< 11.4
TRITIUM (HYDROGEN-3)	300	PCI/L	< 152	< 205	< 225	< 151	< 195

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX A
WET CHEMISTRY IN THE DDC SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-012	UCD1-049	UCD1-050	UCD1-051	UCD2-048
		Sample ID	GWGW2009	GWGW2017	GWGW2018	GWGW2019	GWGW2043
		Date	05/18/06	05/17/06	06/02/06	05/18/06	05/17/06
AnalyteNameShort	CRDL	UnitsID					
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	NS	NS	**670**	NS	NS
CHLORIDE (AS CL)	1	MG/L	NS	NS	**11.2**	NS	NS
NITRATE AS NITROGEN	0.1	MG/L	**68.8 J**	**47**	**77.7 J**	**53.7 J**	**2.3**
SULFATE (AS SO4)	1	MG/L	NS	NS	**127**	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**1270**	**1010**	**1400**	**1260**	**464**

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX B

Groundwater IRA Treatment System 2006 Operation Log

Appendix B
IRA SYSTEM 2006 OPERATION LOG
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, CA

			EXTRACTION SYSTEM						IRRIGATION	
			System On		System Off		Flow Rate	Totalizer	Totalizer	
DATE	TIME	Blower Run Time	Note	Hours	Note	Hours	(gpm)	(gallons)	(gallons)	Notes
12/28/05	14:00	--	R	193.00	--	0.00	54	120,824,215	9,711,098	Restarted GWT system. Discharging to sewer. Use influent meter for effluent totals.
01/03/06	15:00	--	R	145.00	--	0.00	62	121,030,152	9,711,097	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
01/10/06	13:20	--	R	166.33	--	0.00	63	121,929,810	9,712,768	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
01/17/06	13:30	--	R	168.17	--	0.00	62	122,563,607	9,712,768	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
01/24/06	13:30	--	R	168.00	--	0.00	62	123,199,482	9,712,769	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
01/24/06	19:30	--	--	6.00	A	0.00	--	--	9,712,769	System shut down due to high influent tank water level.
01/25/06	14:00	--	X	0.00	--	18.50	--	--	9,712,770	Restarted GWT system. Discharging to sewer. Use influent meter for effluent totals.
01/30/06	21:00	--	--	127.00	A	0.00	--	--	9,712,770	System shut down due to high influent tank water level.
01/31/06	15:00	--	X	0.00	--	18.00	45	123,257,680	9,712,206	System was shut down for much of the day for PLC maintenance. Back up at 15:00
January Totals				780.50		36.50	59	2,433,465	1,108	January Uptime: 96%
02/07/06	16:00	--	R	169.00	--	0.00	53	123,777,555	9,720,713	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
02/12/06	11:00	--	--	115.00	A	0.00	--	--	--	System shut down automatically due to effluent tank high level alarm, however effluent tank was empty upon arrival
02/13/06	9:15	--	X	0.00	--	22.25	55	124,148,751	9,735,649	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
02/13/06	19:30	--	--	10.25	A	0.00	--	--	--	System shut down automatically due to effluent tank high level alarm.
02/14/06	14:40	--	X	0.00	--	19.17	55	124,180,290	--	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
02/14/06	21:00	--	--	6.33	A	0.00	--	--	--	System shut down automatically due to effluent tank high level alarm.
02/16/06	14:00	--	X	0.00	--	41.00	53	124,200,415	9,740,757	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
02/22/06	14:30	--	R	144.50	--	0.00	40	124,661,863	9,764,635	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
02/27/06	17:00	--	R	122.50	--	0.00	45	124,975,153	9,791,670	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
February Totals				567.58		82.42	50	1,717,473	79,464	February Uptime: 87%

Appendix B
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			EXTRACTION SYSTEM						IRRIGATION	
		Blower Run	System On		System Off		Flow Rate	Totalizer	Totalizer	
DATE	TIME	Time	Note	Hours	Note	Hours	(gpm)	(gallons)	(gallons)	Notes
03/07/06	13:20	--	R	188.33	--	0.00	47	123,777,555	9,792,670	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
03/13/06	8:00	--	R	138.67	--	0.00	48	125,899,672	9,792,670	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
03/21/06	14:30	--	R	198.50	--	0.00	47	126,462,136	9,792,670	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
03/30/06	13:30	--	R	215.00	--	0.00	55	127,185,762	9,792,670	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
March Totals				740.50		0.00	49	2,210,609	1,000	March Uptime: 100%
04/05/06	16:00	--	R	146.50	--	0.00	63	127,739,460	9,792,670	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
04/05/06	16:30	--	--	0.50	A	0.00	--	--	9,792,670	System shut down due to high effluent tank level.
04/07/06	8:30	--	X	0.00	--	40.00	80	--	9,792,670	Started system and adjusted flow out of effluent tank. Effluent tank discharge pumps can now pump up to 110 gpm each.
04/13/06	11:30	--	R	147.00	--	0.00	80	128,427,399	9,792,670	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
04/18/06	16:00	--	R	124.50	--	0.00	80	129,014,704	9,792,670	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
04/27/06	14:30	--	--	214.50	M	0.00	--	--	9,792,670	Shut system off to test autodialer.
04/27/06	16:00	--	X	0.00	--	1.50	80	129,907,719	9,792,670	System startup after manual shut down.
04/28/06	11:00	--	--	19.00	A	0.00	--	--	--	System shut down. High Irrigation tank level.
April Totals				652.00		41.50	77	2,721,957	0	April Uptime: 94%

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DATE	TIME	Blower Run Time	EXTRACTION SYSTEM System On Note	System On Hours	System Off Note	System Off Hours	Flow Rate (gpm)	Totalizer (gallons)	IRRIGATION Totalizer (gallons)	Notes
05/02/06	10:30	--	X	0.00	--	95.50	80	130,114,509	--	Reset alarm and started system up. GWT system running. Discharging to sewer. Use influent meter for effluent totals.
05/10/06	12:45	--	R	194.25	--	0.00	85	131,086,169	9,893,589	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
05/18/06	13:00	--	R	192.25	--	0.00	80	132,049,710	9,940,500	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
05/23/06	13:00	--	R	120.00	--	0.00	80	132,658,038	9,960,462	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
May Totals				506.50		95.50	81	2,750,319	167,792	May Uptime: 84%
06/01/06	18:00	--	--	221.00	A	0.00	--	--	--	System shut down due to blower failure.
06/02/06	12:30	--	X	0.00	--	18.50	80	133,755,719	10,033,400	System Startup.
06/08/06	21:00	--	--	152.50	A	0.00	--	--	--	System shut down due to blower failure.
06/09/06	7:00	--	X	0.00	--	10.00	80	134,506,279	10,197,315	System Startup.
06/12/06	3:00	--	--	68.00	A	0.00	--	--	--	System shut down due to blower failure and irrigation tank low level/no flow to tank.
06/13/06	11:00	--	X	0.00	--	32.00	--	--	--	Shut control power off and rewired switch between berryessa system and irrigation tank, so tank will no longer demand water
06/19/06	7:00	--	--	140.00	A	0.00	--	--	--	System shut down due to blower failure.
06/20/06	8:30	--	X	0.00	--	25.50	80	135,427,228	10,327,645	Started system; greased all pumps.
06/27/06	8:00	--	R	167.50	--	0.00	80	136,261,191	10,537,500	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
06/28/06	6:00	--	--	22.00	A	0.00	--	--	--	System shut down due to blower failure.
06/28/06	9:00	--	X	0.00	--	3.00	--	--	--	System Startup.
06/29/06	9:30	--	--	24.50	M	0.00	--	--	--	Manual shutdown due to WWTP operations
06/29/06	14:30	--	X	0.00	--	5.00	--	--	--	System Startup.
June Totals				795.50		94.00	80	3,603,153	577,038	June Uptime: 89%

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			EXTRACTION SYSTEM						IRRIGATION	
			System On		System Off		Flow Rate	Totalizer	Totalizer	
DATE	TIME	Blower Run Time	Note	Hours	Note	Hours	(gpm)	(gallons)	(gallons)	Notes
07/05/06	5:45	--	--	135.25	A	0.00	--	--	--	System shut down due to blower failure.
07/05/06	7:00	--	X	0.00	--	1.25	85	137,178,111	10,714,300	System Startup.
07/10/06	9:00	--	--	122.00	M	0.00	--	--	--	Manual shut down for air stripper descaling operation
07/12/06	16:30	--	X	0.00	--	55.50	80	137,718,669	10,855,463	Start up after air stripper descaling.
07/14/06	13:00	--	--	44.50	A	0.00	--	--	--	Shut down due to high irrigation tank level
07/17/06	8:00	--	X	0.00	--	67.00	--	--	--	System Startup.
07/21/06	8:30	--	R	96.50	--	0.00	85	138,363,441	11,097,300	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
07/29/06	18:00	--	--	201.50	A	0.00	--	--	--	Shut down due to high air stripper sump
07/31/06	8:30	--	X	0.00	--	38.50	83	139,161,321	11,129,974	System Startup.
July Totals				599.75		162.25	83	2,672,985	415,674	July Uptime: 79%
08/01/06	7:00	--	--	22.50	A	0.00	--	--	--	System shut down due to high air stripper sump level.
08/01/06	16:30	--	X	0.00	--	9.50	--	--	--	Startup. Replaced vacuum release valve the other day, valve was stuck and would not pump from stripper sump, manually released vacuum. Also, ETDP1 was rotor locked, took apart pump, partially cleaned out and started up.
08/07/06	12:00	--	--	139.50	A	0.00	--	--	--	System Shut down due to alarm #3
08/08/06	7:00	--	X	0.00	--	19.00	80	139,912,758	--	System Startup.
08/09/06	12:00	--	--	29.00	A	0.00	--	--	--	System Shut down due to alarm #3
08/10/06	10:00	--	X	0.00	--	22.00	--	--	--	System Startup.
08/16/06	13:00	54,979	R	147.00	--	0.00	80	140,722,061	11,261,600	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
08/23/06	8:30	55,098	R	163.50	--	0.00	80	141,341,700	11,463,825	Changed filter bags, both filters back up.
08/31/06	10:33	55,291	R	194.05	--	0.00	80	142,290,934	11,236,380	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
August Totals				695.55		50.50	80	3,129,613	106,406	August Uptime: 93%

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			EXTRACTION SYSTEM						IRRIGATION	
		Blower Run	System On		System Off		Flow Rate	Totalizer	Totalizer	
DATE	TIME	Time	Note	Hours	Note	Hours	(gpm)	(gallons)	(gallons)	Notes
09/05/06	17:00	--	--	320.50	A	0.00	--	--		System shut down due to Alarm 3 and 4
09/06/06	7:00	--	X	0.00	--	14.00	--	--		System started up by Steve Twomey.
09/06/06	11:45	55,423	R	4.75	--	0.00	--	142,944,113	11,881,700	System running, discharging to LTPS at the time.
09/12/06	8:30	55,564	R	140.75	--	0.00	85	143,665,474	12,042,135	GWT system running. Discharging to sewer. Use influent meter for
09/12/06	16:00	--	--	7.50	A	0.00	--	--	--	System shut down due to Alarm 3 and 4
09/13/06	7:30	--	X	0.00	--	15.50	--	--	--	Started by Steve Twomey.
09/13/06	11:30	--	--	4.00	A	0.00	--	--	--	System shut down due to alarm 3
09/13/06	13:30	--	X	0.00	--	2.00	--	--	--	Started by Steve Twomey.
09/19/06	13:30	55,683	R	144.00	--	0.00	85	144,274,422	12,205,425	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
09/25/06	5:30	--	--	136.00	A	0.00	--	--	--	System shut down due to alarm 3
09/25/06	6:30	--	X	0.00	--	1.00	--	--	--	Started by Steve Twomey.
09/26/06	17:00	55,791	R	34.50	--	0.00	75	144,829,380	12,408,983	Changed one filter bag. Filled tray sumps with water, this should make the stripper run more effectively.
September Totals				792.00		32.50	82	2,538,446	1,172,603	September Uptime: 96%
10/04/06	9:00	55,980	R	184.00	--	0.00	72	145,625,601	12,516,160	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
10/10/06	8:00	56,118	R	143.00	--	0.00	70	146,246,015	12,571,320	Replaced both filter bags, not much scale, but bags were dirty.
10/17/06	11:30	56,290	R	171.50	--	0.00	75	147,016,072	12,694,196	Greased all pumps. Blower fan was squealing, lubed it.
10/17/06	12:30	--	--	1.00	A	0.00	--	--	--	Shut down due to high air stripper sump level.
10/17/06	17:00	--	X	0.00	--	4.50	--	--	--	Pumped down air stripper sump and system started back up. Squealing from ASB has stopped.
10/22/06	19:30	--	--	122.50	A	0.00	--	--	--	System shut down due to a power outage.
10/24/06	14:50	56,420	X	0.00	--	43.33	75	147,604,516	12,773,947	Took a while to figure it out, but I had to reset all parts of the system including the Berryessa pannel.
10/29/06	6:00	--	--	111.17	A	0.00	--	--	--	System shut down due to high air stripper sump level.
October Totals				733.17		47.83	73	1,978,915	257,787	October Uptime: 94%

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			EXTRACTION SYSTEM						IRRIGATION	
			System On		System Off		Flow Rate	Totalizer	Totalizer	
DATE	TIME	Blower Run Time	Note	Hours	Note	Hours	(gpm)	(gallons)	(gallons)	Notes
11/02/06	9:00	565,701	X	0.00	--	99.00	--	148,302,730	12,969,360	Startup.
11/07/06	8:30	56,689	R	119.50	--	0.00	75	148,866,864	12,968,360	Everything seems to be running smoothly. Changed both bag filters.
11/14/06	8:30	56,857	R	168.00	--	0.00	75	149,659,436	12,968,360	GWT system running. Discharging to sewer. Use influent meter for effluent totals.
11/19/06	9:00	--	--	120.50	A	0.00	--	--	--	System shut down due to high air stripper sump level.
11/22/06	10:00	56,972	X	0.00	--	73.00	80	150,202,548	12,968,360	Startup.
11/25/06	2:00	--	--	64.00	A	0.00	--	--	--	System shut down due to power outage.
11/27/06	7:30	57,009	X	0.00	--	53.50	85	150,376,445	12,968,360	Startup, changed both filter bags and greased all pumps.
November Totals				510.00		225.50	79	2,976,134	194,413	November Uptime: 69%
12/02/06	18:00	--	--	130.50	A	0.00	--	--	--	Shut down due to high air stripper sump level.
12/06/06	8:30	57,123	X	0.00	--	86.50	80	150,989,062	12,995,381	Startup.
12/21/06	9:50	57,225	R	361.33	--	0.00	95	151,644,570	13,038,740	System running smoothly; changed bag filter 1
December Totals				491.83		86.50	88	1,268,125	70,380	December Uptime: 85%
Annual Totals				7864.88		955.00	71	30,001,194	3,043,665	2006 Uptime: 89%

Notes:

A = Automatic Shut-off.
M = Manual Shut-off.
NA = Totalizer Reading not taken.
O = System Off.
R = System Running.
X = System Start-up.
-- = Not Applicable

APPENDIX C

2006 IRA Treatment System Analytical Results

APPENDIX C
VOLATILE ORGANIC COMPOUNDS - IRA SYSTEM
Groundwater Treatment System and Water Monitoring Report
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		Location	ASDP	ASDP	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2
		Sample ID	ASDP0338	ASDP0341	TPIN0331	TPIN0332	TPIN0333	TPIN0334	TPIN0336	TPIN0337
		Date	09/26/06	12/21/06	01/31/06	02/27/06	03/30/06	04/28/06	06/30/06	07/25/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	0.128 J	0.243 J
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	0.354 J	0.257 J	< 0.101	< 0.101	**0.565**	**0.964**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.288 J	0.462 J
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	**0.644**	0.485 J	0.283 J	< 0.1	**0.813**	**1.44**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	**0.718**	**0.528**	0.31 J	< 0.103	**1.08**	**2.24**
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.52 J	**6.47**	< 0.37	< 0.37	< 2.23 UJ	< 1.51 UJ	0.882 J	< 1.4 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.142 J
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446 UJ	< 0.446	0.756 J
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	0.11 J	**29.8**	**25.4**	**13.2**	**10.5**	**54.3**	**168**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.2 UJ	< 0.2	**1.09**
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

Notes:
NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX C
VOLATILE ORGANIC COMPOUNDS - IRA SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	SP-2	SP-2	SP-2	SP-2	SP-2	SP-5	SP-5	SP-5
		Sample ID	TPIN0037	TPIN0338	TPIN0339	TPIN0340	TPIN0341	TPEF0331	TPEF0332	TPEF0333
		Date	08/08/06	09/26/06	10/24/06	11/16/06	12/21/06	01/31/06	02/27/06	03/30/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.279 J	0.179 J	0.136 J	0.111 J	0.11 J	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	**1.29**	**0.748**	**0.566**	0.359 J	0.475 J	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	0.496 J	0.396 J	0.298 J	0.204 J	0.245 J	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**2.33**	**1.19**	**0.852**	**0.61**	**0.793**	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	**3.08**	**1.62**	**1.19**	**0.737**	**0.989**	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.25 J	1.06 J	4.7 J	< 0.37	1.65 J	< 0.37	< 0.37	< 1.97 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	0.162 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**110**	**73.8**	**64.3**	**46.3**	**56**	< 0.11	< 0.11	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	0.377 J	< 0.2	< 373 UJ	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	0.0963 J	< 0.056	< 0.056	< 0.056 UJ	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

Notes:
NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX C
VOLATILE ORGANIC COMPOUNDS - IRA SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5
		Sample ID	TPEF0334	TPEF0336	TPEF0337	TPEF0037	TPEF0338	TPEF0339	TPEF0340	TPEF0341
		Date	04/28/06	06/30/06	07/25/06	08/08/06	09/26/06	10/24/06	11/16/06	12/21/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	0.116 J	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	0.434 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	0.39 J	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.76 UJ	1.05 J	< 3.55 UJ	1.79 J	2.25 J	**5.07**	< 0.37	**6.49**
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446 UJ	< 0.446	**1.86 J**	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	**15.8**	**1.98**	**1.77**	< 0.11	**1.11**	**3.02**	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2 UJ	< 0.2	0.339 J	0.35 J	< 0.231 UJ	< 0.2	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056 UJ	< 0.6 UJ
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

Notes:
NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX C
METALS - IRA SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5
		Sample ID	TPEF0331	TPEF0332	TPEF0333	TPEF0334	TPEF0336	TPEF0337	TPEF0037	TPEF0338	TPEF0339	TPEF0340
		Date	01/31/06	02/27/06	03/30/06	04/28/06	06/30/06	07/25/06	08/08/06	09/26/06	10/24/06	11/16/06
AnalyteNameShort	CRDL	UnitsID										
ANTIMONY	5	UG/L	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ARSENIC	3	UG/L	1.63 J	< 1.5	< 15	2.65 J	< 1.5	2.15 J	2.13 J	2.57 J	< 1.5	2.62 J
BARIUM	20	UG/L	**177**	**172**	**153**	**159**	**171**	**169**	**162**	**176**	**172**	**166**
BERYLLIUM	1	UG/L	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BORON	50	UG/L	**527**	**528**	**579**	**523**	**548**	**553**	**510**	**483**	**99.5**	**473**
CADMIUM	1	UG/L	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CALCIUM	2000	UG/L	**35600**	**36500**	**38600**	**37100**	**40200**	**41800**	NS	NS	**38700**	**40300**
CHROMIUM, TOTAL	10	UG/L	**20.8**	**19.8**	**23.2 J**	**19.6**	**19.1**	**20.7**	**24.1**	**22.7**	**19.5**	**23**
COBALT	10	UG/L	0.521 J	0.577 J	< 1	0.344 J	0.28 J	0.367 J	0.343 J	0.477 J	0.389 J	0.462 J
COPPER	10	UG/L	< 4.48 UJ	< 2.02 UJ	< 2	< 1.26 UJ	0.91 J	2.11 J	1.03 J	< 1.51 UJ	1.65 J	1.34 J
IRON	100	UG/L	**322**	< 154 UJ	**176 J**	**144**	**156**	**179**	**158**	**191**	**197**	89.1 J
LEAD	3	UG/L	0.694 J	< 0.5	< 5	0.683 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MAGNESIUM	2000	UG/L	**62800**	**62800**	**68100**	**64700**	**69200**	**74500**	NS	NS	**68600**	**73300**
MANGANESE	10	UG/L	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MERCURY	0.2	UG/L	< 0.05	< 0.05	< 0.5	< 0.05	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
MOLYBDENUM	10	UG/L	1.91 J	1.86 J	1.62 J	1.85 J	1.88 J	1.67 J	1.76 J	1.74 J	1.71 J	1.77 J
NICKEL	20	UG/L	2.22 J	2.2 J	< 5	1.63 J	1.33 J	1.86 J	1.5 J	2.29 J	2.22 J	2.04 J
POTASSIUM	2000	UG/L	757 J	745 J	628 J	743 J	939 J	729 J	NS	NS	866 J	790 J
SELENIUM	3	UG/L	< 2.5	< 2.5	< 25	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
SILVER	10	UG/L	< 0.2	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
SODIUM	2000	UG/L	**35900**	**35600**	**39000**	**36800**	**38700**	**38600**	NS	NS	**37000**	**42300**
THALLIUM	10	UG/L	< 0.4	< 0.4	< 4	0.47 J	0.511 J	0.652 J	< 0.4	< 0.4	< 0.4	0.457 J
VANADIUM	10	UG/L	7.78 J	**20.8 J**	< 20	6.13 J	2.16 J	**11.1 J**	9.44 J	**10.2 J**	**10.5 J**	**10.4 J**
ZINC	20	UG/L	14.3 J	< 7.01 UJ	< 20	< 4.09 UJ	2.98 J	5.03 J	< 3.58 UJ	5.85 J	5.62 J	< 2.3 UJ

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UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX C
METALS - IRA SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	SP-5
		Sample ID	TPEF0341
		Date	12/21/06
AnalyteNameShort	CRDL	UnitsID	
ANTIMONY	5	UG/L	< 0.5
ARSENIC	3	UG/L	1.96 J
BARIUM	20	UG/L	**172**
BERYLLIUM	1	UG/L	< 0.1
BORON	50	UG/L	**535**
CADMIUM	1	UG/L	< 0.1
CALCIUM	2000	UG/L	NS
CHROMIUM, TOTAL	10	UG/L	**22**
COBALT	10	UG/L	0.272 J
COPPER	10	UG/L	1.19 J
IRON	100	UG/L	**309**
LEAD	3	UG/L	< 0.5
MAGNESIUM	2000	UG/L	NS
MANGANESE	10	UG/L	< 1
MERCURY	0.2	UG/L	< 0.06
MOLYBDENUM	10	UG/L	1.81 J
NICKEL	20	UG/L	1.59 J
POTASSIUM	2000	UG/L	NS
SELENIUM	3	UG/L	< 2.5
SILVER	10	UG/L	< 0.2
SODIUM	2000	UG/L	NS
THALLIUM	10	UG/L	< 0.4
VANADIUM	10	UG/L	8.76 J
ZINC	20	UG/L	2.39 J

NS - Not Sampled
J - Validation qualifier for estimated values; Sample
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRI

APPENDIX C
RADS - IRA SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	SP-2 TPIN0331 01/31/06	SP-2 TPIN0332 02/27/06	SP-2 TPIN0333 03/30/06	SP-2 TPIN0334 04/28/06	SP-2 TPIN0336 06/30/06	SP-2 TPIN0337 07/25/06	SP-2 TPIN0037 08/08/06	SP-2 TPIN0338 09/26/06	SP-2 TPIN0339 10/24/06	SP-2 TPIN0340 11/16/06	SP-2 TPIN0341 12/21/06
CARBON-14	20	PCI/L	< 13.7	< 20.6	17.8 +/- 9.07 J	< 17.2	< 15.1	< 17.8	< 11.9	< 14.2	< 15.9	< 15	< 9.48
TRITIUM (HYDROGEN-3)	300	PCI/L	< 261	< 252	< 261	< 294	< 286	< 288	< 197	< 276	< 175	< 154	< 239

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX C
WET CHEMISTRY - IRA SYSTEM
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	ASDP ASDP0331 01/31/06	ASDP ASDP0332 02/27/06	ASDP ASDP0333 03/30/06	ASDP ASDP0334 04/28/06	ASDP ASDP0336 06/30/06	ASDP ASDP0337 07/25/06	ASDP ASDP0037 08/08/06	ASDP ASDP0338 09/26/06	ASDP ASDP0339 10/24/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L	**4.65**	**4.53**	**3.66**	**3.76**	**5.1 J**	**6.91**	**7.85**	**6.88 J**	**6.31**
SULFATE (AS SO4)	1	MG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**493**	**466**	**450**	**461**	**500**	**500**	**531**	**508**	**483**
TOTAL ORGANIC CARBON	1	MG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

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AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	ASDP ASDP0340 11/16/06	ASDP ASDP0341 12/21/06	SP-2 TPIN0331 01/31/06	SP-2 TPIN0332 02/27/06	SP-2 TPIN0333 03/30/06	SP-2 TPIN0334 04/28/06	SP-2 TPIN0336 06/30/06	SP-2 TPIN0337 07/25/06	SP-2 TPIN0037 08/08/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L		**5.77**	**6.25**	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L		**450**	**506**	NS	NS	NS	NS	NS	NS	NS
TOTAL ORGANIC CARBON	1	MG/L		NS	NS	**1.41**	0.97 J	0.741 J	**1.55**	0.928 J	0.983 J	0.877 J

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX C
WET CHEMISTRY - IRA SYSTEM
Groundwater Treatment System and Water Monitoring Report
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Davis, California

AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	SP-2 TPIN0338 09/26/06	SP-2 TPIN0339 10/24/06	SP-2 TPIN0340 11/16/06	SP-2 TPIN0341 12/21/06	SP-5 TPEF0331 01/31/06	SP-5 TPEF0332 02/27/06	SP-5 TPEF0333 03/30/06	SP-5 TPEF0334 04/28/06	SP-5 TPEF0336 06/30/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	NS	NS	NS	NS	**363**	**368**	**392**	**385**	**383**
CHLORIDE (AS CL)	1	MG/L	NS	NS	NS	NS	**20.2**	**19.3**	**18.9**	**19.9**	**20**
NITRATE AS NITROGEN	0.1	MG/L	NS	NS	NS	NS	**4.7**	**4.53**	**3.65**	**3.78**	**5.11 J**
SULFATE (AS SO4)	1	MG/L	NS	NS	NS	NS	**38.5**	**38.2**	**37.4**	**37.8**	**38.6**
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	NS	NS	NS	NS	**497**	**473**	**456**	**460**	**506**
TOTAL ORGANIC CARBON	1	MG/L	**1.17**	**1.27**	0.89 J	0.534 J	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

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AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	SP-5 TPEF0337 07/25/06	SP-5 TPEF0037 08/08/06	SP-5 TPEF0338 09/26/06	SP-5 TPEF0339 10/24/06	SP-5 TPEF0340 11/16/06	SP-5 TPEF0341 12/21/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	**380**	**412**	**401**	**397**	**375**	**401**
CHLORIDE (AS CL)	1	MG/L	**21.7**	**22.7**	**21.8**	**22.5**	**20.8**	**21.6**
NITRATE AS NITROGEN	0.1	MG/L	**6.9**	**7.82**	**6.87 J**	**6.42**	**5.77**	**6.12**
SULFATE (AS SO4)	1	MG/L	**39**	**37.4**	**39.3**	**40.4**	**37.8**	**38.6**
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**498**	**529**	**523**	**484**	**460**	**499**
TOTAL ORGANIC CARBON	1	MG/L	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX D

2006 Analytical Results for LTPS Soil and Groundwater

APPENDIX D
VOLATILE ORGANIC COMPUNDS - 2006 LTPS SOIL SAMPLING RESULTS
Groundwater Treatment System and Water Monitoring Report
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		Location	UCD1-011	UCD1-011	UCD1-011	UCD1-018	UCD1-018	UCD1-018	UCD1-025	UCD1-025	UCD1-025
		Sample ID	GWGW1985	GWGW2008	GWGW2056	GWGW1987	GWGW2010	GWGW2058	GWGW1988	GWGW2011	GWGW2059
		Date	02/02/06	05/22/06	08/03/06	02/02/06	06/07/06	08/01/06	02/06/06	06/01/06	08/07/06
AnalyteNameShort	CRDL	UnitsID									
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	1.05 J	0.951 J	< 0.37	< 2.28 UJ	1.39 J	< 0.37	< 1.24 UJ	1.82 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**4.49**	**3.07**	**3.05**	< 0.11	< 0.11	< 0.11	**0.677**	**0.892**	**0.706**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2 UJ	< 0.526 UJ	< 0.2	< 0.2 UJ	< 0.241 UJ	0.214 J	< 0.2 UJ	< 0.2	0.372 J
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	0.0935 J	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

Results in **BOLD** indicate detections above the CRDL.
NS - Not Sampled
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

APPENDIX D
VOLATILE ORGANIC COMPUNDS - 2006 LTPS SOIL SAMPLING RESULTS
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-025	UCD1-027Z1	UCD1-027Z1	UCD1-027Z1	UCD1-027Z3	UCD1-027Z3	UCD1-027Z3	UCD1-027Z3
		Sample ID	GWGW2060 Dup	GWGW1989	GWGW2013	GWGW2061	GWGW1991	GWGW1992 Dup	GWGW2015	GWGW2063
		Date	08/07/06	02/09/06	05/22/06	08/04/06	02/09/06	02/09/06	05/22/06	08/04/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	2.16 J	< 0.37	1.44 J	< 1.61 UJ	< 0.37	< 0.37	1.45 J	< 1.44 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25 UJ	< 0.25	< 0.25	< 0.25 UJ	< 0.25 UJ	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	0.48 J	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**0.764**	< 0.11	0.226 J	< 0.11	< 0.11	< 0.11	0.202 J	< 0.185 UJ
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	0.0866 J
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	0.473 J	< 0.2	< 0.456 UJ	< 1.22 UJ	< 0.2	< 0.2	< 0.445 UJ	< 1.63 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.0827 UJ	< 0.056	< 0.056	0.137 J	< 0.056	< 0.056	< 0.056	0.152 J
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	0.394 J

Results in **BOLD** indicate detections above the CRDL.
NS - Not Sampled
J - Validation qualifier for estimated value; sample exceeds quantitation range.
UJ - Estimated value falls below reporting limit.

VOLATILE ORGANIC COMPUNDS - 2006 LTPS SOIL SAMPLING RESULTS
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		Location	UCD1-028	UCD1-028	UCD1-028
		Sample ID	GWGW1993	GWGW2016	GWGW2064
		Date	02/06/06	05/26/06	08/02/06
AnalyteNameShort	CRDL	UnitsID			
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 0.37	1.14 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	0.114 J	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	**1.7**	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	< 0.11	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2 UJ	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	0.155 J
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175

Results in **BOLD** indicate detections above the CRDL.
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APPENDIX D
METALS - 2006 LTPS SOIL SAMPLING RESULTS
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		Location	UCD1-011	UCD1-011	UCD1-011	UCD1-018	UCD1-018	UCD1-018	UCD1-025	UCD1-025	UCD1-025	UCD1-025	UCD1-027Z1
		Sample ID	GWGW1985	GWGW2008	GWGW2056	GWGW1987	GWGW2010	GWGW2058	GWGW1988	GWGW2011	GWGW2059	GWGW2060 Dup	GWGW1989
		Date	02/02/06	05/22/06	08/03/06	02/02/06	06/01/06	08/01/06	02/06/06	06/01/06	08/07/06	08/07/06	02/09/06
AnalyteNameShort	CRDL	UnitsID											
ANTIMONY	5	UG/L	NS	< 0.5	< 0.5	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NS
ARSENIC	3	UG/L	NS	2.57 J	**4.32 J**	NS	2.63 J	< 4.26 UJ	1.79 J	< 1.5	2.73 J	1.7 J	NS
BARIUM	20	UG/L	NS	**336**	**379**	NS	**116**	**122**	**317**	**288**	**279**	**296**	NS
BERYLLIUM	1	UG/L	NS	< 0.1	< 0.1	NS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NS
BORON	50	UG/L	NS	**910**	**97.3 J**	NS	**439**	**488**	**771**	**721**	**790**	**763**	NS
CADMIUM	1	UG/L	NS	< 0.1	< 0.1	NS	< 0.1	0.202 J	< 0.1	< 0.1	< 0.1	< 0.1	NS
CHROMIUM, TOTAL	10	UG/L	**149 J**	**143**	**141**	9.97 J	8.18 J	7.5 J	**171**	**201**	**168**	**162**	< 1
COBALT	10	UG/L	NS	0.616 J	0.451 J	NS	0.219 J	0.294 J	1.21	0.53 J	0.687 J	0.756 J	NS
COPPER	10	UG/L	NS	0.711 J	< 1.11 UJ	NS	0.962 J	1.09 J	< 3.26 UJ	1.22 J	1.01 J	1.03 J	NS
IRON	100	UG/L	NS	**246**	**242**	NS	**115**	**107**	**226**	**185**	**160**	**168**	NS
LEAD	3	UG/L	NS	< 0.5	< 0.5	NS	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NS
MANGANESE	10	UG/L	NS	< 1	< 1	NS	< 1	< 1	**36.8**	**32.4**	**33.3**	**36.1**	NS
MERCURY	0.2	UG/L	NS	< 0.06	< 0.06	NS	< 0.06	< 0.06	< 0.05	< 0.06	< 0.06	< 0.06	NS
MOLYBDENUM	10	UG/L	NS	< 0.909 UJ	0.824 J	NS	1.29 J	1.46 J	0.513 J	0.473 J	0.437 J	0.428 J	NS
NICKEL	20	UG/L	NS	< 2.1 UJ	2.07 J	NS	1.75 J	1.77 J	**25.6**	**23.8**	**20.7**	**21.1**	NS
SELENIUM	3	UG/L	NS	**11.3**	**7.39**	NS	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	NS
SILVER	10	UG/L	NS	< 0.2	< 0.2	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NS
THALLIUM	10	UG/L	NS	< 0.4	< 0.4	NS	< 0.4	0.507 J	< 0.4	< 0.4	< 0.4	< 0.4	NS
VANADIUM	10	UG/L	NS	**40.5**	< 10	NS	9.05 J	< 2.77 UJ	**41.9**	**38.1**	**11.2 J**	**13.4 J**	NS
ZINC	20	UG/L	NS	< 3.65 UJ	3.25 J	NS	< 3.02 UJ	4.91 J	< 7.13 UJ	< 5.99 UJ	< 6.83 UJ	< 6.57 UJ	NS

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APPENDIX D
METALS - 2006 LTPS SOIL SAMPLING RESULTS
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		Location	UCD1-027Z1	UCD1-027Z1	UCD1-027Z3	UCD1-027Z3	UCD1-028	UCD1-028	UCD1-028
		Sample ID	GWGW2013	GWGW2061	GWGW2015	GWGW2063	GWGW1993	GWGW2016	GWGW2064
		Date	05/22/06	08/04/06	05/22/06	08/04/06	02/06/06	05/26/06	08/02/06
AnalyteNameShort	CRDL	UnitsID							
ANTIMONY	5	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ARSENIC	3	UG/L	< 1.5	**3.11**	< 1.5	1.64 J	< 1.5	2.36 J	< 4.02 UJ
BARIUM	20	UG/L	14.9 J	**238**	**175**	**207**	**326**	**296**	**311**
BERYLLIUM	1	UG/L	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1
BORON	50	UG/L	**467**	**629**	**687**	**112 J**	**1100**	**1180**	**1070**
CADMIUM	1	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHROMIUM, TOTAL	10	UG/L	**40.8**	< 1	< 1	< 1	**446**	**550**	**462**
COBALT	10	UG/L	**174 J**	5.83	3.96	4.92 J	1.26	2.21	0.898 J
COPPER	10	UG/L	0.626 J	1.38 J	0.606 J	< 1	< 3.58 UJ	1.34 J	1.04 J
IRON	100	UG/L	**222000**	**206**	**143**	**154**	**261**	**272**	**162**
LEAD	3	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MANGANESE	10	UG/L	**6160**	**1230**	**497**	**624**	< 1	< 1	< 1
MERCURY	0.2	UG/L	**0.838**	< 0.06	< 0.06	< 0.06	< 0.05	< 0.06	< 0.06
MOLYBDENUM	10	UG/L	7.38 J	**81.4**	6.93 J	8.23 J	0.857 J	1.12 J	0.721 J
NICKEL	20	UG/L	**17100**	**665**	**156**	**200**	3.02 J	2.89 J	1.91 J
SELENIUM	3	UG/L	**3.96 J**	< 2.5	< 2.5	< 2.5	**12.5**	**13.2**	**12.3**
SILVER	10	UG/L	0.475 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.402 J
THALLIUM	10	UG/L	< 0.4	0.461 J	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
VANADIUM	10	UG/L	9.92 J	< 13.5 UJ	2.65 J	< 10.5 UJ	**91.9**	**112**	< 20 UJ
ZINC	20	UG/L	**24.8**	**251**	**113**	**108**	< 5.64 UJ	< 3.2 UJ	3.69 J

Results in **BOLD** indicate detections above the CRD
NS - Not Sampled
J - Validation qualifier for estimated value; sample e)
UJ - Estimated value falls below reporting limit.

APPENDIX D
RADS - 2006 LTPS SOIL SAMPLING RESULTS
Groundwater Treatment System and Water Monitoring Report
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		Location	UCD1-011	UCD1-011	UCD1-011	UCD1-018	UCD1-018	UCD1-018	UCD1-018	UCD1-025	UCD1-025	UCD1-025
		Sample ID	GWGW1985	GWGW2008	GWGW2056	GWGW1987	GWGW2010	GWDOE007	GWGW2058	GWGW1988	GWGW2011	GWGW2059
		Date	02/02/06	05/22/06	08/03/06	02/02/06	06/01/06	06/15/06	08/01/06	02/06/06	06/01/06	08/07/06
AnalyteNameShort	CRDL	UnitsID										
AMERICIUM-241	1	PCI/L	NS	NS	NS	NS	NS	< 0.0665	NS	NS	NS	NS
CARBON-14	20	PCI/L	< 16.2	< 19.8	< 16	< 16.2	< 12.1	NS	< 16	< 14.6	< 11.9	< 16
CESIUM-137	10	PCI/L	NS	NS	NS	NS	NS	< 4.53	NS	NS	NS	NS
Radium-226	1	PCI/L	NS	NS	NS	NS	NS	< 0.351	NS	NS	NS	NS
Strontium-90	1	PCI/L	NS	NS	NS	NS	NS	< 1.01	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	< 273	< 149	< 195	< 273	< 212 UJ	NS	< 261	< 263	< 234	< 203

Results in **BOLD** indicate detections above the CRDL.
NS - Not Sampled
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UJ - Estimated value falls below reporting limit.

APPENDIX D
RADS - 2006 LTPS SOIL SAMPLING RESULTS
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		Location	UCD1-025	UCD1-027Z1	UCD1-027Z1	UCD1-027Z1	UCD1-027Z3	UCD1-027Z3	UCD1-028	UCD1-028	UCD1-028
		Sample ID	GWGW2060 Dup	GWGW1989	GWGW2013	GWGW2061	GWGW1991	GWGW2015	GWGW1993	GWGW2016	GWGW2064
		Date	08/07/06	02/09/06	05/22/06	08/04/06	02/09/06	05/22/06	02/06/06	05/26/06	08/02/06
AnalyteNameShort	CRDL	UnitsID									
AMERICIUM-241	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L	< 16	< 16.5	< 19.1	< 16	< 16.1	< 19.4	< 14.5	< 16.5	< 16
CESIUM-137	10	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
Radium-226	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
Strontium-90	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	< 206	< 267	< 148	< 200	< 253	< 150	< 273	< 251	< 193

Results in **BOLD** indicate detections above the CRDL.
NS - Not Sampled
J - Validation qualifier for estimated value; sample exceec
UJ - Estimated value falls below reporting limit.

APPENDIX D
WET CHEMISTRY - 2006 LTPS SOIL SAMPLING RESULTS
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		Location	UCD1-011	UCD1-011	UCD1-011	UCD1-018	UCD1-018	UCD1-018	UCD1-025	UCD1-025	UCD1-025
		Sample ID	GWGW1985	GWGW2008	GWGW2056	GWGW1987	GWGW2010	GWGW2058	GWGW1988	GWGW2011	GWGW2059
		Date	02/02/06	05/22/06	08/03/06	02/02/06	06/01/06	08/01/06	02/06/06	06/01/06	08/07/06
AnalyteNameShort	CRDL	UnitsID									
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	**542**	**608**	**653**	**324**	**343**	**364**	**514**	**555**	**569**
CHLORIDE (AS CL)	1	MG/L	**53.1**	**61.8**	**55**	**14.2**	**12.7**	**11.9**	**38**	**44.7**	**39.6**
NITRATE AS NITROGEN	0.1	MG/L	**35.1 J**	**34.5 J**	**31.6 J**	**2.39 J**	**1.84**	**1.92**	**28.5 J**	**37.1 J**	**32.6**
SULFATE (AS SO4)	1	MG/L	**36.2**	**37.6**	**37.4**	**35.6**	**33.5**	**32.4**	**30.9**	**31.8**	**28.4**
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**879**	**928**	**945**	**418**	**417**	**414**	**777**	**828**	**837**
TOTAL ORGANIC CARBON	1	MG/L	**2.05**	**1.87**	**2.03**	**1.63**	**1.37**	**1.27**	**2.14**	**2.16**	**1.84**

Results in **BOLD** indicate detections above the CRDL.
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APPENDIX D
WET CHEMISTRY - 2006 LTPS SOIL SAMPLING RESULTS
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		Location	UCD1-025	UCD1-027Z1	UCD1-027Z1	UCD1-027Z1	UCD1-027Z3	UCD1-027Z3	UCD1-027Z3	UCD1-028	UCD1-028
		Sample ID	GWGW2060 Dup	GWGW1989	GWGW2013	GWGW2061	GWGW1991	GWGW2015	GWGW2063	GWGW1993	GWGW2016
		Date	08/07/06	02/09/06	05/22/06	08/04/06	02/09/06	05/22/06	08/04/06	02/06/06	05/26/06
AnalyteNameShort	CRDL	UnitsID									
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	**561**	**493**	**529**	**605**	**524**	**434**	**493**	**702**	**689**
CHLORIDE (AS CL)	1	MG/L	**39.5**	**17.1**	**21.7**	**31.4**	**29.2**	**23.9**	**25.8**	**46**	**45**
NITRATE AS NITROGEN	0.1	MG/L	**32.4**	**4.95**	**21.4 J**	**28.6 J**	**6.49**	**7.33**	**7.38 J**	**64.7 J**	**66.3 J**
SULFATE (AS SO4)	1	MG/L	**28.6**	**25.1**	**24.3**	**26.2**	**37.7**	**38.2**	**38**	**44**	**40**
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**846**	**510**	**721**	**857**	**643**	**575**	**581**	**1180**	**1140**
TOTAL ORGANIC CARBON	1	MG/L	**2.1**	**4.78**	NS	**18.8**	NS	NS	**5.82**	**1.96**	**2.01**

Results in **BOLD** indicate detections above the CRDL.
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WET CHEMISTRY - 2006 LTPS SOIL SAMPLING RESULTS
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		Location	UCD1-028
		Sample ID	GWGW2064
		Date	08/02/06
AnalyteNameShort	CRDL	UnitsID	
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	**713**
CHLORIDE (AS CL)	1	MG/L	**46.9**
NITRATE AS NITROGEN	0.1	MG/L	**62.7 J**
SULFATE (AS SO4)	1	MG/L	**40.9**
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**1140**
TOTAL ORGANIC CARBON	1	MG/L	**2.05**

Results in **BOLD** indicate detections above the CRDL.
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SOIL - 2006 LTPS SOIL SAMPLING RESULTS
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	Sample Location:	SBL-300	SBL-300	SBL-600	SBL-310	SBL-310	SBL-310	SBL-320	SBL-320	SBL-320	SBL-330	SBL-330	SBL-330	SBL-340
	Date:	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/14/2006	11/15/2006
	Sample Depth (ft bgs):	1	3	5	1	3	5	1	3	5	1	3	5	1
AnalyteNameShort	UnitsID													
ANTIMONY	MG/KG	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.28	NS	<2.41	NS
ARSENIC	MG/KG	8.23	8.33	8.38	7.49	6.7	7.14	8.27	7.57	7.81	7.38	7.23	7.52	8.05
BARIUM	MG/KG	218	177	144	185	156	163	195	167	186	187	183	176	197
BERYLLIUM	MG/KG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CADMIUM	MG/KG	1.18	1.02	0.922	0.997	0.887	1.09	0.974	0.804	0.787	<0.572	<0.571	<0.587	<0.603
CHLORIDE (AS CL)	MG/KG	6.04	6.01	11.7	8.82	6.88	4.75	5.99	7.54	6.66	10.7	6.63	6.75	11.7
CHROMIUM, TOTAL	MG/KG	133	191	239	173	158	167	156	164	140	142	188	185	138
COBALT	MG/KG	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	25.9
COPPER	MG/KG	47.4	31.7	29.3	38	29	31.3	39.1	30.5	37	38.2	32.3	32.8	40.3
LEAD	MG/KG	7.52	6.44	27.1	7.23	1.42	5.64	8.86	6.41	6.02	9.41	9.06	9.34	8.9
MERCURY	MG/KG	0.331	0.5	0.318	1.44	1.25	0.943	1.46	0.568	0.608	1.43	0.831	0.929	1.17
NICKEL	MG/KG	262	308	328	295	283	299	293	278	272	276	312	291	275
NITRATE AS NITROGEN	MG/KG	<0.324	<0.33	<0.325	<0.353	<0.32	<0.329	<0.34	<0.317	<0.313	1.48	<0.339	<0.336	3.26
NITROGEN, AMMONIA (AS N)	MG/KG	2.61	2.96	3.72	2.36	2	6.94	3.03	1.97	1.68	2.32	3.66	2.27	2.61
ORTHOPHOSPHATE AS P	MG/KG	<0.712	<0.727	<0.715	<0.776	<0.704	<0.724	3.41	<0.697	<0.689	3.85	<0.756	<0.788	<0.812
PH	PH UNITS	7.74	7.97	8.1	7.9	8.08	8.2	7.82	7.84	8.14	7.9	8.21	8.33	8.81
SELENIUM	MG/KG	3.96	<3.5	<3.85	<3.49	<3.42	6.62	<3.65	<3.53	<3.38	<3.43	<3.42	<3.52	<3.61
SILVER	MG/KG	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.114	NS	NS	NS
SULFATE (AS SO4)	MG/KG	11.4	11.9	21.5	16.8	17.3	17.9	11.9	16.5	16.1	31.2	16.7	20.8	20.5
TOTAL KJELDAHL NITROGEN	MG/KG	801	477	442	550	209	147	800	270	323	479	241	247	774
TOTAL ORGANIC CARBON	MG/KG	7530	2890	1550	4430	1800	1780	7010	2690	3430	5140	2710	3110	6040
VANADIUM	MG/KG	86.9	74.1	69.6	77.8	68.5	69.4	78.8	68.7	73.7	NS	NS	NS	NS
ZINC	MG/KG	89.8	70.1	74.9	81.4	67.1	67.5	82.5	67	73.4	75.4	68.5	68.7	78

ft bgs = feet below ground surface
mg/kg = milligrams of analyte per kilogram of soil
NS - Not Sampled

APPENDIX D
SOIL - 2006 LTPS SOIL SAMPLING RESULTS
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LEHR/SCDS Environmental Restoration
Davis, California

	Sample Location:	SBL-340	SBL-340	SBL-350	SBL-350	SBL-350
	Date:	11/15/2006	11/15/2006	11/14/2006	11/14/2006	11/14/2006
	Sample Depth (ft bgs):	3	5	1	3	5
AnalyteNameShort	UnitsID					
ANTIMONY	MG/KG	NS	NS	NS	NS	NS
ARSENIC	MG/KG	7.58	7.15	7.23	6.92	25.4
BARIUM	MG/KG	162	171	153	154	161
BERYLLIUM	MG/KG	NS	NS	NS	NS	NS
CADMIUM	MG/KG	<0.572	<0.591	1.09	0.842	0.695
CHLORIDE (AS CL)	MG/KG	8.06	8.24	5.61	5.99	4.26
CHROMIUM, TOTAL	MG/KG	178	168	181	151	168
COBALT	MG/KG	NS	NS	NS	NS	NS
COPPER	MG/KG	31.5	32.4	30.4	28.9	31.9
LEAD	MG/KG	9.11	7.8	5.38	4.21	8.67
MERCURY	MG/KG	1.63	1.21	0.168	0.287	0.677
NICKEL	MG/KG	289	300	302	260	313
NITRATE AS NITROGEN	MG/KG	3.46	1.38	<0.364	1.43	1.54
NITROGEN, AMMONIA (AS N)	MG/KG	<1.76	3.08	4.04	1.94	3.84
ORTHOPHOSPHATE AS P	MG/KG	<0.777	<0.801	<0.8	<0.693	<0.742
PH	PH UNITS	8.82	8.15	8.16	8.01	8.07
SELENIUM	MG/KG	<3.43	<3.54	<3.62	<3.36	<3.37
SILVER	MG/KG	NS	NS	NS	NS	NS
SULFATE (AS SO4)	MG/KG	14.1	13.7	13.9	15.8	15.9
TOTAL KJELDAHL NITROGEN	MG/KG	279	263	320	172	726
TOTAL ORGANIC CARBON	MG/KG	2640	2550	3800	2780	3630
VANADIUM	MG/KG	NS	NS	72.4	70.5	71
ZINC	MG/KG	67	69.3	70.6	66	71.7

ft bgs = feet below ground surface
mg/kg = milligrams of analyte per kilogram of soil
NS - Not Sampled

APPENDIX E

Complete Analytical Results for 2006 Stormwater and Surface Water

APPENDIX E
VOLATILE ORGANIC COMPOUNDS IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	LF-01	LS-01	LS-01	LS-01	LS-01	PCD	PCU
		Sample ID	STMW0138 Dup	RWSW0040	RWSW0041 Dup	RWSW0042	RWSW0043 Dup	SWSW0281	SWSW0280
		Date	03/20/06	02/27/06	02/27/06	12/13/06	12/13/06	03/21/06	03/21/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 1	< 1	< 0.3	< 0.3	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 1	< 1	< 0.25	< 0.25	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 1	< 1	< 0.3	< 0.3	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 1	< 1	< 0.3	< 0.3	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 1	< 1	< 0.5	< 0.5	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 1	< 1	< 0.25	< 0.25	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 5	< 5	< 1.25	< 1.25	< 0.5	< 0.5
ACETONE	5	UG/L	0.421 J	< 6.3 UJ	< 6.9 UJ	**8.5**	**8.7**	< 0.37	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 1	< 1	< 0.3	< 0.3	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	NS	NS	NS	NS	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 1	< 1	< 0.5	< 0.5	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 5	< 5	< 1.25	**1.7 J**	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 1	< 1	< 0.5	< 0.5	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	< 1	< 1	< 0.25	< 0.25	< 0.11	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 1	< 1	< 0.5	< 0.5	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 1	< 1	< 0.3	< 0.3	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 1	< 1	< 0.25	< 0.25	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.527 UJ	< 5	< 5	< 1.25	< 1.25	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 5	< 5	< 1.25	< 1.25	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 5	< 5	< 2	< 2	< 0.2 UJ	< 0.2 UJ
STYRENE	0.5	UG/L	< 0.1	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 1	< 1	< 0.33 UJ	< 0.3 UJ	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 1	< 1	< 0.3	< 0.3	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 1	< 1	< 0.25	< 0.25	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 1	< 1	< 0.5	< 0.5	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 1	< 1	< 0.25	< 0.25	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantiataion range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX E
VOLATILE ORGANIC COMPOUNDS IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

			Location	STPO
			Sample ID	SWSW0282
			Date	03/21/06
AnalyteNameShort	CRDL	UnitsID		
1,1,1-TRICHLOROETHANE	0.5	UG/L		< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L		< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L		< 0.104
1,1-DICHLOROETHANE	0.5	UG/L		< 0.101
1,1-DICHLOROETHENE	0.5	UG/L		< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L		< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L		< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L		< 0.1
1,2-DICHLOROETHANE	0.5	UG/L		< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L		< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L		< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L		< 0.1
2-HEXANONE	1	UG/L		< 0.5
ACETONE	5	UG/L		< 0.37
BENZENE	0.5	UG/L		< 0.135
BROMOCHLOROMETHANE	1	UG/L		< 0.104
BROMODICHLOROMETHANE	0.5	UG/L		< 0.1
BROMOFORM	0.5	UG/L		< 0.2
BROMOMETHANE	1	UG/L		< 0.25
CARBON DISULFIDE	1	UG/L		< 0.446
CARBON TETRACHLORIDE	0.5	UG/L		< 0.2
CHLOROBENZENE	0.5	UG/L		< 0.1
CHLOROETHANE	0.5	UG/L		< 0.2
CHLOROFORM	0.5	UG/L		< 0.11
CHLOROMETHANE	0.5	UG/L		< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L		< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L		< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L		< 0.2
ETHYLBENZENE	0.5	UG/L		< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L		< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L		< 0.5
METHYLENE CHLORIDE	1	UG/L		< 0.2 UJ
STYRENE	0.5	UG/L		< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L		< 0.1
TOLUENE	0.5	UG/L		< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L		< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L		< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L		< 0.2
VINYL CHLORIDE	0.5	UG/L		< 0.11
XYLENES, TOTAL	1	UG/L		< 0.175

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantiataion range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX E
METALS IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	LF-01	LF-01	LF-01	LS-01	LS-01	LS-01	LS-01
		Sample ID	STMW0137F	STMW0138 Dup	STMW0139	RWSW0040	RWSW0041 Dup	RWSW0042	RWSW0043 Dup
		Date	03/20/06	03/20/06	11/02/06	02/27/06	02/27/06	12/13/06	12/13/06
AnalyteNameShort	CRDL	UnitsID							
ANTIMONY	5	UG/L	< 0.5	0.611 J	0.926 J	**42**	**42.3**	**55.6**	**56.2**
ARSENIC	3	UG/L	2.26 J	**3.51 J**	**6.57**	< 1.5	< 1.5	2.46	2.16
BARIUM	20	UG/L	**38.2**	**96.4 J**	**162**	10.7	10.4	**32**	**33.4**
BERYLLIUM	1	UG/L	< 0.1	< 0.5	0.405 J	< 0.1	< 0.1	< 0.1	< 0.1
BORON	50	UG/L	**62.3**	**64.9 J**	**54.4**	NS	NS	NS	NS
CADMIUM	1	UG/L	< 0.1	0.358 J	0.556 J	< 0.1	< 0.1	0.25	0.24
CHROMIUM, TOTAL	10	UG/L	**12**	**47.9 J**	**90**	3.01	2.8 J	0.0124	0.0122
COBALT	10	UG/L	2.85	9.29 J	**16.7**	0.47 J	0.43 J	2.22	2.36
COPPER	10	UG/L	9.87 J	**21.2 J**	**35.2**	3.6	3.46	9.72	**10.3**
IRON	100	UG/L	**3710**	**13100 J**	**22000**	**685**	**587**	**3490 J**	**3450 J**
LEAD	3	UG/L	3	**13 J**	**28.4**	2.18	2.23	**3.32**	**3.92**
MANGANESE	10	UG/L	**86.5**	**290 J**	**512**	**23.4**	**22.9**	**67.3**	**71.9**
MERCURY	0.2	UG/L	< 0.05	0.123 J	**0.37 J**	< 0.05	< 0.05	< 0.06	< 0.06
MOLYBDENUM	10	UG/L	0.55 J	0.571 J	1.07 J	0.14 J	0.11 J	< 0.54 UJ	< 0.45 UJ
NICKEL	20	UG/L	**23.4**	**76.4 J**	**161**	3.82	3.73	19.6	**20.8**
SELENIUM	3	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
SILVER	10	UG/L	< 0.2	< 0.2	0.327 J	< 0.2	< 0.2	< 0.2	< 0.2
THALLIUM	10	UG/L	< 0.4	< 0.4	< 0.4	0.58 J	< 0.4	< 0.4	< 0.4
VANADIUM	10	UG/L	< 10.5 UJ	**31.1 J**	**46.6**	< 2	< 2	9.78	9.81
ZINC	20	UG/L	**37.5**	**158 J**	**246**	**59**	**60.8**	**121**	**129**

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APPENDIX E
METALS IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
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		Location	PCD	PCD	PCU	PCU	STPO	STPO
		Sample ID	SWSW0281	SWSW0283	SWSW0280	SWSW0285	SWSW0282	SWSW0286
		Date	03/21/06	11/03/06	03/21/06	11/03/06	03/21/06	11/03/06
AnalyteNameShort	CRDL	UnitsID						
ANTIMONY	5	UG/L	< 0.5	1.09 J	< 0.5	1.26 J	< 0.5	< 0.5
ARSENIC	3	UG/L	2.68 J	2.2 J	2.24 J	< 1.5	5.01	3.12 J
BARIUM	20	UG/L	**55.8**	**101**	60.8	**101**	42.4	39.3
BERYLLIUM	1	UG/L	< 0.5	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1
BORON	50	UG/L	**172**	**455**	197	**418**	729	707
CADMIUM	1	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHROMIUM, TOTAL	10	UG/L	2.83 J	9.18 J	4.11 J	8.42 J	1.46 J	2.66 J
COBALT	10	UG/L	0.595 J	1.43	0.87 J	0.947 J	< 0.5	0.419 J
COPPER	10	UG/L	5.55 J	4.79 J	5.83 J	3.52 J	2.73 J	2.84 J
IRON	100	UG/L	**1020**	**1860**	1690	**1210**	212	138
LEAD	3	UG/L	< 0.5	1.15 J	0.502 J	0.757 J	< 0.5	< 0.5
MANGANESE	10	UG/L	**26.7**	**49.5**	37.6	**33.9**	< 5	1.89 J
MERCURY	0.2	UG/L	< 0.05	< 0.06	< 0.05	< 0.06	< 0.05	< 0.06
MOLYBDENUM	10	UG/L	0.481 J	6.64 J	0.447 J	3.59 J	15.5	68.7
NICKEL	20	UG/L	5.75 J	12.7 J	7 J	9.31 J	2.5 J	2.65 J
SELENIUM	3	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
SILVER	10	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
THALLIUM	10	UG/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
VANADIUM	10	UG/L	< 12.3 UJ	6.93 J	< 10	4.1 J	17.9 J	13.3 J
ZINC	20	UG/L	4.64 J	18 J	6.72 J	< 10.6 UJ	57.2	47.2

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantiataion range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX E
RADS IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	LF-01	LF-01	LS-01	LS-01	LS-01	LS-01	PCD	PCD	PCU	PCU
		Sample ID	STMW0138 Dup	STMW0139	RWSW0040	RWSW0041 Dup	RWSW0042	RWSW0043 Dup	SWSW0281	SWSW0283	SWSW0280	SWSW0285
		Date	03/20/06	11/02/06	02/27/06	02/27/06	12/13/06	12/13/06	03/21/06	11/03/06	03/21/06	11/03/06
AnalyteNameShort	CRDL	UnitsID										
CARBON-14	20	PCI/L	< 16.6	< 15.4	< 13.5	< 13.4	< 16.1	< 16.1	< 16.9	< 15.4	< 16.9	< 15.5
RADIUM-226	1	PCI/L	< 0.456	0.546 +/- 0.282 J	< 0.423	< 0.355	< 0.424	< 0.378	< 0.436	< 0.433	< 0.397	< 0.41
STRONTIUM-90	1	PCI/L	< 0.692	< 0.799	< 0.631	< 0.79	< 0.524	< 0.609	< 0.562	< 1.06	< 0.54	< 0.877
TRITIUM (HYDROGEN-3)	300	PCI/L	< 289	< 245	< 253	< 255	< 569	< 569	< 294	< 243	< 292	< 241

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantiataion range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX E
RADS IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
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		Location	STPO	STPO
		Sample ID	SWSW0282	SWSW0286
		Date	03/21/06	11/03/06
AnalyteNameShort	CRDL	UnitsID		
CARBON-14	20	PCI/L	< 16.9	< 15.4
RADIUM-226	1	PCI/L	< 0.476	< 0.409
STRONTIUM-90	1	PCI/L	< 0.848	< 1.13
TRITIUM (HYDROGEN-3)	300	PCI/L	< 289	< 243

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exce
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX E
PESTICIDES/PCBS IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	LF-01	LF-01	LS-01	LS-01	LS-01	LS-01	PCD
		Sample ID	STMW0138 Dup	STMW0139	RWSW0040	RWSW0041 Dup	RWSW0042	RWSW0043 Dup	SWSW0281
		Date	03/20/06	11/02/06	02/27/06	02/27/06	12/13/06	12/13/06	03/21/06
AnalyteNameShort	CRDL	UnitsID							
4-4'-DDD	0.02	UG/L	< 0.00459 UJ	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00094 UJ
4-4'-DDE	0.02	UG/L	0.00535 J	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00094 UJ
4-4'-DDT	0.02	UG/L	< 0.00516 UJ	< 0.00093 UJ	< 0.0377	< 0.0385	< 0.00952	< 0.00952	< 0.00142
ALDRIN	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ
ALPHA ENDOSULFAN	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ
ALPHA-CHLORDANE	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	**0.0266 J**	**0.0353 J**	< 0.00047 UJ
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.00102	< 0.00078 UJ	< 0.0189	< 0.0192	< 0.00805	< 0.00805	< 0.00047
BETA ENDOSULFAN	0.02	UG/L	< 0.0006	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00104 UJ
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ
DIELDRIN	0.02	UG/L	0.00911 J	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00142 UJ
ENDOSULFAN SULFATE	0.02	UG/L	< 0.0006	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00059 UJ
ENDRIN	0.02	UG/L	< 0.0006	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00047 UJ
ENDRIN ALDEHYDE	0.02	UG/L	< 0.0006	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00094
ENDRIN KETONE	0.02	UG/L	< 0.00151	< 0.00116 UJ	< 0.0377	< 0.0385	< 0.012	< 0.012	< 0.00094 UJ
GAMMA BHC (LINDANE)	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ
GAMMA-CHLORDANE	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	**0.0224 J**	**0.0236 J**	< 0.00071 UJ
HEPTACHLOR	0.01	UG/L	< 0.00079	< 0.00061 UJ	< 0.0189	< 0.0192	< 0.00624	< 0.00624	< 0.00047
HEPTACHLOR EPOXIDE	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00071
METHOXYCHLOR	0.1	UG/L	< 0.00602	< 0.00463 UJ	< 0.189	< 0.192	< 0.0476	< 0.0476	< 0.00472
PCB-1016 (AROCHLOR 1016)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236
PCB-1221 (AROCHLOR 1221)	0.4	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0393
PCB-1232 (AROCHLOR 1232)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236
PCB-1242 (AROCHLOR 1242)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0283
PCB-1248 (AROCHLOR 1248)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236
PCB-1254 (AROCHLOR 1254)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236
PCB-1260 (AROCHLOR 1260)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236
TOXAPHENE	1	UG/L	< 0.0181	< 0.0139 UJ	< 0.472	< 0.481	< 0.143	< 0.143	< 0.0118

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantiataion range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX E
PESTICIDES/PCBS IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

AnalyteNameShort	CRDL	UnitsID	PCD SWSW0283 11/03/06	PCU SWSW0280 03/21/06	PCU SWSW0285 11/03/06	STPO SWSW0282 03/21/06	STPO SWSW0286 11/03/06
		Location	PCD	PCU	PCU	STPO	STPO
		Sample ID	SWSW0283	SWSW0280	SWSW0285	SWSW0282	SWSW0286
		Date	11/03/06	03/21/06	11/03/06	03/21/06	11/03/06
4-4'-DDD	0.02	UG/L	0.00825 J	< 0.00094 UJ	0.00677 J	< 0.00111 UJ	0.0107 J
4-4'-DDE	0.02	UG/L	0.0119 J	< 0.00094 UJ	0.00943 J	< 0.00111 UJ	0.00999 J
4-4'-DDT	0.02	UG/L	0.0101 J	< 0.0014	0.0112 J	< 0.00167	0.00836 J
ALDRIN	0.01	UG/L	< 0.00051	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.00051	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048
ALPHA ENDOSULFAN	0.01	UG/L	< 0.00051	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048
ALPHA-CHLORDANE	0.01	UG/L	< 0.00051	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.00085	< 0.00047	< 0.00085	< 0.00056	< 0.00081
BETA ENDOSULFAN	0.02	UG/L	< 0.00051	< 0.00103 UJ	< 0.0005	< 0.00122 UJ	< 0.00048
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.00051	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048
DIELDRIN	0.02	UG/L	< 0.00051	< 0.0014 UJ	< 0.0005	< 0.00167 UJ	< 0.00048
ENDOSULFAN SULFATE	0.02	UG/L	< 0.00051	< 0.00058 UJ	< 0.0005	< 0.00069 UJ	< 0.00048
ENDRIN	0.02	UG/L	< 0.00051	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048
ENDRIN ALDEHYDE	0.02	UG/L	< 0.00051	< 0.00094	< 0.0005	< 0.00111	< 0.00048
ENDRIN KETONE	0.02	UG/L	< 0.00127	< 0.00094 UJ	< 0.00126	< 0.00111 UJ	< 0.00121
GAMMA BHC (LINDANE)	0.01	UG/L	< 0.00051	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048
GAMMA-CHLORDANE	0.01	UG/L	< 0.00051	< 0.0007 UJ	< 0.0005	< 0.00083 UJ	< 0.00048
HEPTACHLOR	0.01	UG/L	< 0.00066	< 0.00047	< 0.00066	< 0.00056	< 0.00063
HEPTACHLOR EPOXIDE	0.01	UG/L	< 0.00051	< 0.0007	< 0.0005	< 0.00083	< 0.00048
METHOXYCHLOR	0.1	UG/L	< 0.00505	< 0.00467	< 0.005	< 0.00556	< 0.00481
PCB-1016 (AROCHLOR 1016)	0.2	UG/L	< 0.0168	< 0.0234	< 0.0167	< 0.0278	< 0.016
PCB-1221 (AROCHLOR 1221)	0.4	UG/L	< 0.0168	< 0.0389	< 0.0167	< 0.0463	< 0.016
PCB-1232 (AROCHLOR 1232)	0.2	UG/L	< 0.0168	< 0.0234	< 0.0167	< 0.0278	< 0.016
PCB-1242 (AROCHLOR 1242)	0.2	UG/L	< 0.0168	< 0.028	< 0.0167	< 0.0333	< 0.016
PCB-1248 (AROCHLOR 1248)	0.2	UG/L	< 0.0168	< 0.0234	< 0.0167	< 0.0278	< 0.016
PCB-1254 (AROCHLOR 1254)	0.2	UG/L	< 0.0168	< 0.0234	< 0.0167	< 0.0278	< 0.016
PCB-1260 (AROCHLOR 1260)	0.2	UG/L	< 0.0168	< 0.0234	< 0.0167	< 0.0278	< 0.016
TOXAPHENE	1	UG/L	< 0.0152	< 0.0117	< 0.015	< 0.0139	< 0.0144

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantitataion range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX E
WET CHEMISTRY IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	LF-01	LF-01	LS-01	LS-01	LS-01	LS-01	PCD
		Sample ID	STMW0138 Dup	STMW0139	RWSW0040	RWSW0041 Dup	RWSW0042	RWSW0043 Dup	SWSW0281
		Date	03/20/06	11/02/06	02/27/06	02/27/06	12/13/06	12/13/06	03/21/06
AnalyteNameShort	CRDL	UnitsID							
NITRATE AS NITROGEN	0.1	MG/L	**1.37 J**	NS	**0.262**	**0.268**	**0.39**	**0.382**	**0.19**
OIL & GREASE, TOTAL REC	2	MG/L	1.6 J	< 1.09	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**119**	< 3.97	17	**22**	**45**	**57**	**161**
TOTAL ORGANIC CARBON	1	MG/L	**5.81**	**49.1**	**4.88**	**4.83**	**7**	**7.15**	NS
TOTAL SUSPENDED SOLIDS		MG/L	**146**	**460**	**15**	**16.4**	**51**	**83**	NS

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantiataion range
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APPENDIX E
WET CHEMISTRY IN STORMWATER AND SURFACE WATER
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Davis, California

		Location	PCD	PCU	PCU	STPO	STPO
		Sample ID	SWSW0283	SWSW0280	SWSW0285	SWSW0282	SWSW0286
		Date	11/03/06	03/21/06	11/03/06	03/21/06	11/03/06
AnalyteNameShort	CRDL	UnitsID					
NITRATE AS NITROGEN	0.1	MG/L	NS	**0.167**	NS	**8.25**	NS
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**313**	**180**	**323**	**599**	**549**
TOTAL ORGANIC CARBON	1	MG/L	NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated values; Sample exceeds quantiataion range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX E
AQUATIC TOXICITY IN STORMWATER AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

Acute Aquatic Toxicity Analysis	Location Sample ID Date	LF-01 STMW0137 04/04/06	LF-01 STMW0139 11/02/06	LS-01 RWSW0040 02/27/06	LS-01 RWSW0041 Dup 02/27/06	LS-01 RWSW0042 12/13/06	LS-01 RWSW0043 Dup 12/13/06
AnalyteNameShort	UnitsID						
PIMEPHALIS SPECIES - SURVIVAL	% Survival	100 N	100 N	95 N	90 N	100 N	100 N

Chronic Aquatic Toxicity Analysis	Location Sample ID Date	PCD SWSW0281 03/21/06	PCD SWSW0283 11/03/06	PCU SWSW0280 03/21/06	PCU SWSW0285 11/03/06
AnalyteNameShort	UnitsID				
CERIODAPHINA SPECIES - SURVIVAL	NOEC	100%	100%	100%	100%
CERIODAPHNIA SPECIES - REPRODUCTION	NOEC	100%	100%	100%	100%
PIMEPHALIS SPECIES - GROWTH	NOEC	100%	100%	50%	100%
PIMEPHALIS SPECIES - SURVIVAL	NOEC	50 %	100%	50 %	50 %
SELENASTRUM SPECIES - GROWTH	NOEC	100%	100%	100%	100%

NOEC - No Observed Effect Concentration. Result listed is the sample concentration in which no observable effect was noted during analysis; 100% is a non-diluted sample.
N - No toxicity; the % survival for the storm water sample was not significantly different from the % survival for the associated laboratory control.
T - Toxicity detected; the % survival for the storm water sample was significantly lower than the % survival for the associated laboratory control.

APPENDIX F

Complete Analytical Results for 2006 Groundwater, Stormwater, and Surface Water

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	ASDP	ASDP	DDC-1A	DDC-1A	DDC-1B	DDC-1B	DDC-1B	DDC-1B
		Sample ID	ASDP0338	ASDP0341	GWDC0146	GWDC0166	GWDC0147	GWDC0148 Dup	GWDC0167	GWDC0188
		Date	09/26/06	12/21/06	02/09/06	05/11/06	02/09/06	02/09/06	05/11/06	08/31/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	0.803 J	0.747 J	0.731 J	0.838 J	0.924 J	0.776 J
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	0.256 J
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.287 J	0.482 J
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.52 J	**6.47**	< 0.37	< 1.75 UJ	< 0.37	< 0.37	< 1.89 UJ	2.54 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	0.712 J	< 0.446	< 0.608 UJ	0.603 J	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	0.11 J	**23.4**	**30.1**	**20.9**	**23.6**	**49.1**	**43.2**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	**1.61**	< 0.438	**1.42**	**1.89**	< 0.438	0.916 J
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**1.92**
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	0.08 J
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-1C	DDC-1C	DDC-1C	DDC-2A	DDC-2A	DDC-2A	DDC-2B
		Sample ID	GWDC0149	GWDC0168	GWDC0189	GWDC0150	GWDC0169	GWDC0170 Dup	GWDC0151
		Date	02/09/06	05/11/06	08/31/06	02/08/06	05/09/06	05/09/06	02/08/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**2.98**	**11.1**	**17.5**	**17.9**	**17.9**	**17.9**	**9.4**
1,1-DICHLOROETHANE	0.5	UG/L	**1.21**	**3.79**	**6.34**	**0.893**	**1.94**	**1.94**	0.318 J
1,1-DICHLOROETHENE	0.5	UG/L	**1.47**	**4.66**	**8.91**	< 0.1	0.238 J	0.266 J	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**1.12**	**3.8**	**5.41**	0.405 J	**0.952**	**0.982**	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	0.427 J	**0.607**	< 0.103	0.136 J	0.124 J	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 1.82 UJ	1.88 J	< 0.37	< 1.81 UJ	< 1.7 UJ	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	0.171 J	0.227 J	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.671 UJ	**1.66**	< 0.446	< 0.446	0.725 J	0.676 J	< 2.07 UJ
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**834**	**1910**	**2900 J**	**250**	**291**	**336**	**76.9**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	0.306 J	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	**1.71**	< 0.438	< 0.438	**1.4**	< 0.438	< 0.438	**1.01**
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 1.24 UJ	< 2.12 UJ	< 0.2	< 0.2	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	0.188 J	0.463 J	< 0.1	0.159 J	0.113 J	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	**0.605**	**1.22**	0.433 J	0.453 J	0.493 J	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-2B	DDC-2B	DDC-2C	DDC-2C	DDC-2C	DDC-3A	DDC-3A	DDC-3B
		Sample ID	GWDC0171	GWDC0191	GWDC0152	GWDC0172	GWDC0192	GWDC0153	GWDC0173	GWDC0154
		Date	05/09/06	08/31/06	02/08/06	05/09/06	08/31/06	02/09/06	05/04/06	02/09/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	**1.64**	**6.77**	**12.8**	**7.28**	0.386 J	0.855 J	0.447 J
1,1-DICHLOROETHANE	0.5	UG/L	**0.642**	0.33 J	**0.558**	**1.3**	**3.37**	**0.784**	**3.53**	**0.964**
1,1-DICHLOROETHENE	0.5	UG/L	**1.8**	< 0.1	0.305 J	**0.808**	**0.835**	< 0.1	0.171 J	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	0.394 J	0.286 J	**1.45**	**2.04**	**1.61**	**1.88**	**5.9**	**2.39**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	0.159 J	< 0.103	**0.617**	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	0.597 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	**7800**	1.22 J	< 0.37	< 3.11 UJ	**5.9**	< 0.37	< 1.52 UJ	< 0.37
BENZENE	0.5	UG/L	0.444 J	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.115 J	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	**1.59**	0.594 J	< 0.446	< 0.446	0.766 J	0.816 J
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**89.3**	**26**	**90.9**	**220**	**259**	**42.4**	**161**	**51**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	**6.17**	**1.01**	0.954 J	< 0.438	**1.21**	**1.72**	< 0.438	**1.83**
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.213 UJ	< 0.2	< 0.2	< 0.203 UJ	**1.97**	< 0.2	< 0.339 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	0.314 J	0.472 J	< 0.1	0.147 J	< 0.1
TOLUENE	0.5	UG/L	< 0.056	0.0931 J	< 0.056	< 0.056	0.0581 J	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	0.427 J	**0.931**	**0.769**	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	0.274 J	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-3B	DDC-3B	DDC-3C	DDC-3C	DDC-3C	DDC-4A	DDC-4A	DDC-4B
		Sample ID	GWDC0174	GWDC0194	GWDC0155	GWDC0175	GWDC0195	GWDC0156	GWDC0176	GWDC0157
		Date	05/11/06	08/31/06	02/09/06	05/11/06	08/31/06	02/08/06	05/09/06	02/08/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.487 J	0.668 J	0.589 J	0.602 J	0.749 J	0.954 J	**1.26**	**1.16**
1,1-DICHLOROETHANE	0.5	UG/L	**1.87**	**3.06**	**4.04**	**3.42**	**6.74**	**0.948**	**1.28**	**1.14**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	0.437 J	0.274 J	**0.56**	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**3.03**	**6.05**	**3.81**	**4.23**	**6.85**	**4.06**	**5.97**	**5.06**
1,2-DICHLOROPROPANE	0.5	UG/L	0.322 J	**0.654**	0.401 J	0.475 J	**0.979**	**0.503**	**0.687**	**0.609**
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.08 UJ	1.11 J	< 0.37	< 1.32 UJ	1.35 J	< 0.37	< 2.93 UJ	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.131 J	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 4.14 UJ	0.685 J	< 0.446	< 0.446	0.698 J	**1.21**
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**86.1**	**107**	**130**	**136**	**228**	**128**	**179**	**158**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	0.673 J	**1.2**	< 0.438	< 0.438	**1.31**	< 0.438	0.769 J
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.296 UJ	**1.69**	< 0.2	< 0.2	0.821 J	< 0.2	< 0.2	< 0.2 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	0.323 J	0.266 J	0.463 J	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-4B	DDC-4B	DDC-4C	DDC-4C	DDC-4C	DDC-4C	DDC-5A	DDC-5A
		Sample ID	GWDC0177	GWDC0199	GWDC0158	GWDC0178	GWDC0179 Dup	GWDC0200	GWDC0159	GWDC0180
		Date	05/09/06	09/05/06	02/08/06	05/11/06	05/11/06	09/05/06	02/08/06	05/09/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**1.3**	**1.19**	**1.33**	**1.32**	**1.26**	**1.53**	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	**2.06**	**1.57**	**1.91**	**3.4**	**2.95**	**3.42**	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	0.153 J	< 0.1	< 0.1	**0.533**	0.478 J	0.379 J	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**7.04**	**7.05**	**6.03**	**7.55**	**6.88**	**10.6**	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	**1.03**	**1**	**0.854**	**1.34**	**1.16**	**1.69**	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 2.13 UJ	1.06 J	< 0.37	< 1.57 UJ	< 1.63 UJ	1.19 J	< 0.37	< 1.73 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	0.177 J	< 0.1	< 0.1	0.192 J	0.175 J	0.24 J	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	0.51 J	< 0.446	0.569 J	0.901 J	**1.27**	< 0.446	< 0.497 UJ	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**252**	**183**	**266**	**385**	**386**	**289**	**0.739**	**5.58**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	**2.02**	< 0.438	< 0.438	< 0.438	**1.93**	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.329 UJ	< 0.2 UJ	< 0.219 UJ	< 0.206 UJ	< 0.2	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-5B	DDC-5B	DDC-5B	DDC-5C	DDC-5C	DDC-5C	DDC-6A	DDC-6A
		Sample ID	GWDC0160	GWDC0181	GWDC0202	GWDC0161	GWDC0182	GWDC0203	GWDC0163	GWDC0183
		Date	02/08/06	05/09/06	09/05/06	02/08/06	05/09/06	09/05/06	02/08/06	05/09/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	**3.77**	**4.81**	**11.8**	**2.46**	**4.11**
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	**1.1**	**1.09**	**4.1**	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	**1.68**	**1.61**	**7.44**	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	**0.884**	**0.742**	**1.63**	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 1.92 UJ	1.18 J	< 0.37	< 1.52 UJ	1.04 J	< 0.37	< 1.42 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	0.259 J	**1.38**	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.568 UJ	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.579 UJ	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**0.856**	**6.79**	**1.05**	**656**	**962**	**2100**	**28**	**66.9**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	0.571 J	< 0.438	< 0.438	**1.75**	< 0.438	< 0.438	**1.1**	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.242 UJ	< 0.2	< 0.2	< 0.452 UJ	< 1.29 UJ	< 0.2	< 0.28 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.332 J	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	0.242 J	**0.929**	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	DDC-6A	DDC-6B	DDC-6B	DDC-6B	DDC-6C	DDC-6C	DDC-6C	LF-01
		Sample ID	GWDC0184 Dup	GWDC0162	GWDC0185	GWDC0205	GWDC0164	GWDC0186	GWDC0206	STMW0138 Dup
		Date	05/09/06	02/08/06	05/09/06	09/05/06	02/08/06	05/09/06	09/05/06	03/20/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**4.09**	**2.66**	**3.09**	**4.98**	**1.36**	**2.63**	**3.7**	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.129 J	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	**1.13**	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 2.02 UJ	< 0.37	< 2.01 UJ	1.39 J	< 0.37	< 2.04 UJ	1.02 J	0.421 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.994 UJ	0.454 J	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**67**	**29.3**	**36.8**	**83.7**	**44.4**	**37.4**	**75.9**	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	**1.02**	< 0.438	< 0.438	**1.16**	< 0.438	< 0.438	< 0.527 UJ
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.249 UJ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	LS-01	LS-01	LS-01	LS-01	PCD	PCU	SP-2
		Sample ID	RWSW0040	RWSW0041 Dup	RWSW0042	RWSW0043 Dup	SWSW0281	SWSW0280	TPIN0331
		Date	02/27/06	02/27/06	12/13/06	12/13/06	03/21/06	03/21/06	01/31/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 1	< 1	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 1	< 1	< 0.3	< 0.3	< 0.101	< 0.101	0.354 J
1,1-DICHLOROETHENE	0.5	UG/L	< 1	< 1	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 1	< 1	< 0.5	< 0.5	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1	**0.644**
1,2-DICHLOROPROPANE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.103	< 0.103	**0.718**
1,3-DICHLOROBENZENE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 5	< 5	< 1.25	< 1.25	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 6.3 UJ	< 6.9 UJ	**8.5**	**8.7**	< 0.37	< 0.37	< 0.37
BENZENE	0.5	UG/L	< 1	< 1	< 0.3	< 0.3	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L			NS	NS	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 1	< 1	< 0.5	< 0.5	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 5	< 5	< 1.25	**1.7 J**	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 1	< 1	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.11	< 0.11	**29.8**
CHLOROMETHANE	0.5	UG/L	< 1	< 1	< 0.5	< 0.5	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 1	< 1	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 5	< 5	< 1.25	< 1.25	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 5	< 5	< 1.25	< 1.25	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 5	< 5	< 2	< 2	< 0.2 UJ	< 0.2 UJ	< 0.2 UJ
STYRENE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 1	< 1	< 0.33 UJ	< 0.3 UJ	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 1	< 1	< 0.3	< 0.3	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 1	< 1	< 0.5	< 0.5	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 1	< 1	< 0.25	< 0.25	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2	SP-2
		Sample ID	TPIN0332	TPIN0333	TPIN0334	TPIN0336	TPIN0337	TPIN0037	TPIN0338	TPIN0339	TPIN0340
		Date	02/27/06	03/30/06	04/28/06	06/30/06	07/25/06	08/08/06	09/26/06	10/24/06	11/16/06
AnalyteNameShort	CRDL	UnitsID									
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	0.128 J	0.243 J	0.279 J	0.179 J	0.136 J	0.111 J
1,1-DICHLOROETHANE	0.5	UG/L	0.257 J	< 0.101	< 0.101	**0.565**	**0.964**	**1.29**	**0.748**	**0.566**	0.359 J
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	0.288 J	0.462 J	0.496 J	0.396 J	0.298 J	0.204 J
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	0.485 J	0.283 J	< 0.1	**0.813**	**1.44**	**2.33**	**1.19**	**0.852**	**0.61**
1,2-DICHLOROPROPANE	0.5	UG/L	**0.528**	0.31 J	< 0.103	**1.08**	**2.24**	**3.08**	**1.62**	**1.19**	**0.737**
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 2.23 UJ	< 1.51 UJ	0.882 J	< 1.4 UJ	1.25 J	1.06 J	4.7 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	0.142 J	0.162 J	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446 UJ	< 0.446	0.756 J	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**25.4**	**13.2**	**10.5**	**54.3**	**168**	**110**	**73.8**	**64.3**	**46.3**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.2 UJ	< 0.2	**1.09**	0.377 J	< 0.2	< 373 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	0.0963 J	< 0.056	< 0.056	< 0.056 UJ
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	SP-2	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5	SP-5
		Sample ID	TPIN0341	TPEF0331	TPEF0332	TPEF0333	TPEF0334	TPEF0336	TPEF0337	TPEF0037
		Date	12/21/06	01/31/06	02/27/06	03/30/06	04/28/06	06/30/06	07/25/06	08/08/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.11 J	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	0.475 J	< 0.101	< 0.101	< 0.101	< 0.101	0.116 J	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	0.245 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**0.793**	< 0.1	< 0.1	< 0.1	< 0.1	0.434 J	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	**0.989**	< 0.103	< 0.103	< 0.103	< 0.103	0.39 J	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.65 J	< 0.37	< 0.37	< 1.97 UJ	< 1.76 UJ	1.05 J	< 3.55 UJ	1.79 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446 UJ	< 0.446	**1.86 J**	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**56**	< 0.11	< 0.11	< 0.11	< 0.11	**15.8**	**1.98**	**1.77**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.2 UJ	< 0.2	0.339 J	0.35 J
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	SP-5	SP-5	SP-5	SP-5	STPO	TP-1A	TP-1A	TP-1B
		Sample ID	TPEF0338	TPEF0339	TPEF0340	TPEF0341	SWSW0282	GWTP0140	GWTP0157	GWTP0141
		Date	09/26/06	10/24/06	11/16/06	12/21/06	03/21/06	02/10/06	05/15/06	02/14/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	0.291 J	0.355 J	0.947 J
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	0.144 J	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 UJ	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.255 J	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	2.25 J	**5.07**	< 0.37	**6.49**	< 0.37	< 0.37	< 2.02 UJ	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 1.6 UJ	< 0.446	**1.5 J**
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	**1.11**	**3.02**	< 0.11	< 0.11	**37**	**35.3**	**31.8**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	0.691 J	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.231 UJ	< 0.2	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.271 UJ	< 0.2 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056 UJ	< 0.6 UJ	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-1B	TP-1B	TP-1B	TP-1C	TP-1C	TP-1C	TP-2A	TP-2A
		Sample ID	GWTP0142 Dup	GWTP0158	GWTP0174	GWTP0143	GWTP0159	GWTP0175	GWTP0154	GWTP0160
		Date	02/14/06	05/15/06	09/07/06	02/14/06	05/15/06	09/07/06	02/08/06	05/16/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**1.04**	0.811 J	0.698 J	**2.67**	**1.76**	0.643 J	< 0.104	0.128 J
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	0.245 J	0.197 J	**1.06**	**1.15**	0.245 J	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	**0.869**	**0.583**	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 UJ	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	0.288 J	0.238 J	**0.584**	**0.65**	0.286 J	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 1.49 UJ	1.55 J	< 0.37	< 1.74 UJ	2.34 J	< 0.37	< 1.9 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446 UJ	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**36.5**	**52.8**	**45.9**	**308**	**201**	**41.8**	**16.3**	**23.2**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	0.716 J	< 0.438	< 0.438	0.666 J	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2 UJ	< 0.275 UJ	< 0.662 UJ	< 0.2	< 0.325 UJ	< 0.625 UJ	< 0.2	< 0.301 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.0705 UJ
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-2B	TP-2B	TP-2B	TP-2C	TP-2C	TP-2C	TP-3A	TP-3A
		Sample ID	GWTP0145	GWTP0161	GWTP0177	GWTP0146	GWTP0162	GWTP0178	GWTP0147	GWTP0163
		Date	02/09/06	05/16/06	09/06/06	02/09/06	05/15/06	09/06/06	02/09/06	05/09/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.852 J	0.591 J	0.782 J	**5.02**	**3.06**	**3.18**	< 0.104	0.349 J
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	0.142 J	0.253 J	**2.42**	**1.42**	**5.04**	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	**2.32**	**1.14**	**2.2**	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25 UJ	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 UJ	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	0.148 J	0.307 J	**1.48**	**1.07**	**2.72**	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	0.176 J	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 1.54 UJ	0.958 J	< 0.37	< 1.49 UJ	1.12 J	0.65 J	< 1.28 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.493 UJ	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**54.5**	**41.7**	**54.7**	**833**	**402**	**710**	**36.3**	**27.6**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	0.698 J	< 0.438	0.765 J	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.299 UJ	< 0.741 UJ	< 0.2	< 0.64 UJ	< 0.404 UJ	< 0.2	< 0.337 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	0.133 J	0.301 J	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	0.382 J	0.228 J	0.366 J	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.318 J	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-3A	TP-3B	TP-3B	TP-3B	TP-3C	TP-3C	TP-3C	TP-4A
		Sample ID	GWTP0164 Dup	GWTP0148	GWTP0165	GWTP0180	GWTP0149	GWTP0166	GWTP0181	GWTP0150
		Date	05/09/06	02/15/06	05/09/06	09/06/06	02/15/06	05/09/06	09/06/06	02/10/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.36 J	0.907 J	0.906 J	0.772 J	**6.22**	**6.36**	**4.79**	0.457 J
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	0.19 J	0.308 J	**2.12**	**2.87**	**3.83**	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	**2.8**	**2.23**	**2.31**	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 UJ
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	0.252 J	0.476 J	**0.871**	**1.03**	**1.36**	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.79 UJ	< 0.37	< 1.15 UJ	1.75 J	< 0.37	< 1.49 UJ	1.4 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.451 UJ	0.466 J	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**29.4**	**36**	**52.8**	**59.2**	**1040**	**1040**	**888**	**52.6**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.3 UJ	< 0.2 UJ	< 0.348 UJ	< 0.526 UJ	< 0.2	< 0.377 UJ	< 0.439 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.212 J	0.26 J	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	0.448 J	**0.521**	0.327 J	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-4A	TP-4B	TP-4B	TP-4B	TP-4C	TP-4C	TP-4C	TP-5A
		Sample ID	GWTP0167	GWTP0151	GWTP0168	GWTP0183	GWTP0152	GWTP0169	GWTP0184	GWTP0153
		Date	05/12/06	02/14/06	05/12/06	09/06/06	02/14/06	05/10/06	09/06/06	02/10/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.538 J	**1.06**	**1.03**	0.879 J	**4.24**	**3.46**	**3.04**	0.608 J
1,1-DICHLOROETHANE	0.5	UG/L	0.138 J	< 0.101	**2.33**	**2.88**	**12.1**	**12.2**	**17.5**	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	**0.745**	**0.859**	**4.79**	**4.52**	**5.29**	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 UJ
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	0.105 J	0.268 J	**1.67**	**2.06**	**3.31**	**3.93**	**7.86**	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	0.414 J	0.414 J	**0.58**	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 2.4 UJ	< 0.37	< 0.37	1.73 J	< 0.37	< 1.22 UJ	1.84 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**39.9**	**52.8**	**440**	**456**	**900**	**875**	**1370**	**36.4**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	0.626 J	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.341 UJ	< 0.2 UJ	< 0.274 UJ	< 0.349 UJ	< 0.2	< 0.283 UJ	< 0.726 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	**1.51**	**1.27**	**1.69**	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	**1.39**	**1.11**	**0.914**	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	TP-5A	TP-5B	TP-5B	TP-5B	TP-5C	TP-5C	TP-5C	TP-5C
		Sample ID	GWTP0170	GWTP0154	GWTP0171	GWTP0187	GWTP0155	GWTP0156 Dup	GWTP0172	GWTP0188
		Date	05/16/06	02/14/06	05/16/06	09/06/06	02/14/06	02/14/06	05/16/06	09/07/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	0.883 J	**1.05**	0.794 J	**2.81**	**8.54**	**7.88**	**2.35**	**2.25**
1,1-DICHLOROETHANE	0.5	UG/L	0.222 J	< 0.101	0.106 J	**1.13**	**4.49**	**4.14**	**0.88**	**0.901**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	0.373 J	**3.56**	**3.33**	0.294 J	0.272 J
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	0.246 J	< 0.1	0.141 J	**0.82**	**1.56**	**1.41**	0.471 J	**0.601**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.4 UJ	< 0.37	< 1.01 UJ	1.66 J	< 0.37	< 0.37	< 1.81 UJ	1.39 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**55.1**	**40**	**30.2**	**279**	**1060**	**1190**	**250**	**224**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.337 UJ	< 0.2	< 0.305 UJ	< 0.683 UJ	< 0.2	< 0.2	< 0.319 UJ	< 0.565 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	0.451 J	0.439 J	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.0846 UJ	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	**0.735**	**0.72**	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-010	UCD1-011	UCD1-011	UCD1-011	UCD1-012	UCD1-012	UCD1-018	UCD1-018
		Sample ID	GWGW2007	GWGW1985	GWGW2008	GWGW2056	GWGW1986	GWGW2009	GWGW1987	GWGW2010
		Date	05/22/06	02/02/06	05/22/06	08/03/06	02/01/06	05/18/06	02/02/06	06/07/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	0.848 J	**1.31**	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	0.484 J	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.409 J	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.41 J	< 0.37	1.05 J	0.951 J	< 0.37	< 1.05 UJ	< 0.37	< 2.28 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	**4.49**	**3.07**	**3.05**	**37.1**	**104**	< 0.11	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.425 UJ	< 0.2 UJ	< 0.526 UJ	< 0.2	< 0.2 UJ	< 0.25 UJ	< 0.2 UJ	< 0.241 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-018	UCD1-025	UCD1-025	UCD1-025	UCD1-025	UCD1-027Z1	UCD1-027Z1
		Sample ID	GWGW2058	GWGW1988	GWGW2011	GWGW2059	GWGW2060 Dup	GWGW1989	GWGW2013
		Date	08/01/06	02/06/06	06/01/06	08/07/06	08/07/06	02/09/06	05/22/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.39 J	< 0.37	< 1.24 UJ	1.82 J	2.16 J	< 0.37	1.44 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25 UJ	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	**0.677**	**0.892**	**0.706**	**0.764**	< 0.11	0.226 J
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	0.214 J	< 0.2 UJ	< 0.2	0.372 J	0.473 J	< 0.2	< 0.456 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	0.0935 J	< 0.056	< 0.056	< 0.056	< 0.0827 UJ	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-027Z1	UCD1-027Z2	UCD1-027Z2	UCD1-027Z3	UCD1-027Z3	UCD1-027Z3	UCD1-027Z3	UCD1-028
		Sample ID	GWGW2061	GWGW1990	GWGW2062	GWGW1991	GWGW1992 Dup	GWGW2015	GWGW2063	GWGW1993
		Date	08/04/06	02/09/06	08/04/06	02/09/06	02/09/06	05/22/06	08/04/06	02/06/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.61 UJ	< 0.37	< 1.53 UJ	< 0.37	< 0.37	1.45 J	< 1.44 UJ	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25 UJ	< 0.25	< 0.25 UJ	< 0.25 UJ	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	0.48 J	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	< 0.11	< 0.114 UJ	< 0.11	< 0.11	0.202 J	< 0.185 UJ	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	0.0866 J	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 1.22 UJ	< 0.2	< 1.57 UJ	< 0.2	< 0.2	< 0.445 UJ	< 1.63 UJ	< 0.2 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	0.137 J	< 0.056	0.0626 J	< 0.056	< 0.056	< 0.056	0.152 J	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	0.394 J	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-028	UCD1-028	UCD1-049	UCD1-049	UCD1-049	UCD1-050	UCD1-050	UCD1-050
		Sample ID	GWGW2016	GWGW2064	GWGW1994	GWGW2017	GWGW2065	GWGW1995	GWGW2018	GWGW2066
		Date	05/26/06	08/02/06	02/03/06	05/17/06	08/03/06	02/03/06	06/02/06	08/03/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	**1.2**	**1.11**	0.961 J	**6.28**	**7.57**	**9.93**
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	0.341 J	**0.586**	**0.79**	**1.61**	**1.3**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	**1.28**	**1.11**	**0.839**	**2.06**	**1.86**	**0.834**
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	0.107 J	0.253 J	< 0.1	0.39 J	0.475 J
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	1.14 J	< 0.37	< 0.862 UJ	0.92 J	< 0.37	< 2.58 UJ	1.38 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	0.114 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	**1.7**	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	< 0.11	**146**	**239**	**348**	**513**	**579**	**433**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.2 UJ	< 0.306 UJ	0.493 J	< 0.2 UJ	< 0.423 UJ	0.277 J
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	0.155 J	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.457 J	0.287 J	0.285 J
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-051	UCD1-051	UCD1-051	UCD1-051	UCD1-052	UCD1-052	UCD1-053
		Sample ID	GWGW1996	GWGW1997 Dup	GWGW2019	GWGW2067	GWGW1998	GWGW2020	GWGW1999
		Date	02/03/06	02/03/06	05/18/06	08/02/06	02/06/06	06/01/06	02/06/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	**3.67**	**3.87**	**1.89**	0.837 J	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	**20.2**	**20.3**	**6.49**	**2.4**	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	**6.84**	**6.86**	**2.07**	**0.515**	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**9.46**	**9.39**	**5.53**	**3.4**	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	**0.671**	**0.652**	0.334 J	0.245 J	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 0.37	< 1.05 UJ	1.25 J	< 0.37	< 1.39 UJ	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**1300**	**1300**	**407**	**162**	**3.24**	**2.17**	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2 UJ	< 0.2 UJ	< 0.372 UJ	0.421 J	< 0.2 UJ	< 0.2	< 0.2 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	**2.38**	**2.32**	**1.41**	**0.826**	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	**1.08**	**1.06**	**0.524**	0.221 J	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-053	UCD1-053	UCD1-054	UCD1-054	UCD2-007	UCD2-014	UCD2-015
		Sample ID	GWGW2021 Dup	GWGW2022	GWGW2012	GWGW2023 Dup	GWGW2024	GWGW2025	GWGW2026
		Date	06/02/06	06/02/06	06/02/06	06/02/06	06/01/06	05/18/06	05/19/06
AnalyteNameShort	CRDL	UnitsID							
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.11 UJ	< 2.13 UJ	< 2.79 UJ	< 3.49 UJ	< 0.846 UJ	< 1.28 UJ	< 1.56 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.55 UJ	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	0.155 J	0.154 J	0.272 J	0.281 J	< 0.11	< 0.11	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.298 UJ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.301 UJ	< 0.904 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.371 J	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD2-016	UCD2-017	UCD2-026	UCD2-029	UCD2-029	UCD2-029	UCD2-029	UCD2-030
		Sample ID	GWGW2027	GWGW2028	GWGW2029	GWGW2000	GWGW2030	GWGW2068	GWGW2076	GWGW1984
		Date	05/19/06	05/25/06	06/01/06	02/07/06	05/25/06	08/01/06	10/30/06	01/31/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	0.157 J	0.328 J	0.347 J	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	0.282 J	**0.841**	**0.505**	**1.43**	**1.24**	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	0.196 J	**0.584**	0.447 J	**0.851**	**0.834**	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25 UJ	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	0.3 J	**1.35**	**0.883**	**2.08**	**1.86**	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	0.169 J	**2.19**	**1.41**	**3.33**	**3.25**	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.25 UJ	< 0.37	< 0.993 UJ	< 0.37	3.4 J	1.22 J	4.55 J	< 0.37
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.177 J	0.187 J	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	**1.68**	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	< 0.11	**55.8**	**114**	**67.1**	**267**	**255**	**6.68**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.704 UJ	< 0.2	< 0.2	< 0.2	< 0.2	0.279 J	< 0.2	< 0.2 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 UJ
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030
		Sample ID	GWGW2003	GWGW2004 Dup	GWGW2005	GWGW2006	GWGW2031	GWGW2056	GWGW2069	GWGW2070 Dup
		Date	02/27/06	02/27/06	03/30/06	05/01/06	05/25/06	06/30/06	07/25/06	07/25/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104 UJ	< 0.104	< 0.104	< 0.104	0.167 J	0.149 J
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101 UJ	< 0.101	< 0.101	0.13 J	**0.932**	**0.782**
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.125 J	0.424 J	0.371 J
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1	0.215 J	**1.31**	**1.12**
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103 UJ	< 0.103	< 0.103	0.236 J	**2.1**	**1.68**
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 0.37	< 0.37	< 2 UJ	< 1.54 UJ	3.89 J	1.81 J	< 1.26 UJ	< 1.01 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104 UJ	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1 UJ	< 0.1	0.102 J	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	**1.35**	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446 UJ	< 0.446 UJ	< 0.446	< 0.446	**2.72 J**	**1.05 J**
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**5.19**	**5.3**	**2.55**	**1.94**	**2.32**	**20.7**	**91.6**	**75.6**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24 UJ	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438 UJ	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5 UJ	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2	< 0.2 UJ	< 0.2 UJ	< 0.2	< 0.2	0.432 J	0.411 J
STYRENE	0.5	UG/L	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056 UJ	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11 UJ	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175 UJ	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-031	UCD2-032	UCD2-035	UCD2-036
		Sample ID	GWGW2073	GWGW2074	GWGW2075	GWGW2078	GWGW2032	GWGW2033	GWGW2034	GWGW2035
		Date	08/08/06	09/26/06	10/30/06	11/16/06	06/02/06	05/25/06	05/19/06	05/31/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	**0.985**	0.276 J	0.111 J	0.373 J	0.198 J	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	0.435 J	0.165 J	0.102 J	0.182 J	0.155 J	< 0.1	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	**1.39**	0.363 J	0.141 J	**0.605**	0.272 J	0.14 J	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	**1.7**	0.484 J	0.164 J	**0.733**	0.328 J	0.111 J	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	1.17 J	0.955 J	4.75 J	< 0.37	< 2.62 UJ	2.23 J	< 0.964 UJ	< 1.68 UJ
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**57.4**	**13.6 J**	**6.01**	**45.1**	**37.4**	**10.3**	< 0.11	< 0.11
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	0.351 J	< 0.2	< 0.238 UJ	< 0.2	< 0.2	< 0.2	< 0.428 UJ	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056 UJ	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD2-037	UCD2-038	UCD2-039	UCD2-040	UCD2-040	UCD2-040	UCD2-040	UCD2-045
		Sample ID	GWGW2036	GWGW2037	GWGW2038	GWGW2001	GWGW2039	GWGW2071	GWGW2077	GWGW2040
		Date	05/19/06	05/19/06	05/22/06	02/07/06	05/23/06	08/03/06	10/30/06	05/24/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	< 0.101	0.331 J	0.201 J	0.143 J	0.174 J	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	0.284 J	0.313 J	0.154 J	0.158 J	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	0.362 J	0.315 J	0.208 J	0.189 J	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	< 0.103	0.427 J	0.265 J	0.193 J	0.239 J	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 1.26 UJ	< 1.37 UJ	1.46 J	< 0.37	**6**	0.997 J	**7.77**	4.17 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.893 UJ	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	< 0.11	0.304 J	**27.1**	**14.9**	**24.2**	**18.5**	**0.697**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.563 UJ	< 0.748 UJ	< 0.392 UJ	< 0.2 UJ	< 0.2	< 0.2	< 2 UJ	< 0.203 UJ
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
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APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD2-046	UCD2-046	UCD2-048	UCD2-048	UCD2-048	UCD4-041	UCD4-042	UCD4-043
		Sample ID	GWGW2041	GWGW2042 Dup	GWGW2002	GWGW2043	GWGW2072	GWGW2044	GWGW2045	GWGW2046
		Date	06/07/06	06/07/06	02/07/06	05/17/06	08/02/06	05/23/06	05/24/06	05/24/06
AnalyteNameShort	CRDL	UnitsID								
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104	**3.68**	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101	**20.3**	< 0.101	< 0.101	< 0.101	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	**5.79**	< 0.1	< 0.1	< 0.1	0.163 J	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25	< 0.25 UJ	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1	**9.61**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103	**0.679**	< 0.103	< 0.103	< 0.103	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ACETONE	5	UG/L	< 2.03 UJ	< 2.18 UJ	< 0.37	< 0.72 UJ	< 0.37	4.56 J	3.57 J	1.57 J
BENZENE	0.5	UG/L	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	**0.543**	0.483 J	**1380**	**2.31**	**11.4**	0.186 J	**4.2**	**1.11**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.478 UJ	< 0.266 UJ	< 0.2	< 0.308 UJ	< 0.2	< 0.215 UJ	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1	**2.12**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.0756 UJ	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2	**1.01**	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175	< 0.175

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APPENDIX F
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD4-044	UCD4-047
		Sample ID	GWGW2047	GWGW2048
		Date	05/26/06	05/25/06
AnalyteNameShort	CRDL	UnitsID		
1,1,1-TRICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.2	< 0.2
1,1,2-TRICHLOROETHANE	1	UG/L	< 0.104	< 0.104
1,1-DICHLOROETHANE	0.5	UG/L	< 0.101	< 0.101
1,1-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1
1,2-DIBROMO-3-CHLOROPROPANE	0.5	UG/L	< 0.25	< 0.25
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.5	UG/L	< 0.2	< 0.2
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1
1,2-DICHLOROETHANE	0.5	UG/L	< 0.1	< 0.1
1,2-DICHLOROPROPANE	0.5	UG/L	< 0.103	< 0.103
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1
2-HEXANONE	1	UG/L	< 0.5	< 0.5
ACETONE	5	UG/L	1.22 J	0.649 J
BENZENE	0.5	UG/L	< 0.135	< 0.135
BROMOCHLOROMETHANE	1	UG/L	< 0.104	< 0.104
BROMODICHLOROMETHANE	0.5	UG/L	< 0.1	< 0.1
BROMOFORM	0.5	UG/L	< 0.2	< 0.2
BROMOMETHANE	1	UG/L	< 0.25	< 0.25
CARBON DISULFIDE	1	UG/L	< 0.446	< 0.446
CARBON TETRACHLORIDE	0.5	UG/L	< 0.2	< 0.2
CHLOROBENZENE	0.5	UG/L	< 0.1	< 0.1
CHLOROETHANE	0.5	UG/L	< 0.2	< 0.2
CHLOROFORM	0.5	UG/L	< 0.11	**3.91**
CHLOROMETHANE	0.5	UG/L	< 0.24	< 0.24
cis-1,2-DICHLOROETHYLENE	0.5	UG/L	< 0.1	< 0.1
cis-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.2	< 0.2
DIBROMOCHLOROMETHANE	0.5	UG/L	< 0.2	< 0.2
ETHYLBENZENE	0.5	UG/L	< 0.081	< 0.081
METHYL ETHYL KETONE (2-BUTANONE)	1	UG/L	< 0.438	< 0.438
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	1	UG/L	< 0.5	< 0.5
METHYLENE CHLORIDE	1	UG/L	< 0.2	< 0.2
STYRENE	0.5	UG/L	< 0.1	< 0.1
TETRACHLOROETHYLENE(PCE)	0.5	UG/L	< 0.1	< 0.1
TOLUENE	0.5	UG/L	< 0.056	< 0.056
trans-1,2-DICHLOROETHENE	0.5	UG/L	< 0.1	< 0.1
trans-1,3-DICHLOROPROPENE	0.5	UG/L	< 0.114	< 0.114
TRICHLOROETHYLENE (TCE)	0.5	UG/L	< 0.2	< 0.2
VINYL CHLORIDE	0.5	UG/L	< 0.11	< 0.11
XYLENES, TOTAL	1	UG/L	< 0.175	< 0.175

NS - Not Sampled
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UJ - Estimated value falls below reporting limit.
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APPENDIX F
METALS - GROUNDWATER, STORMWATER, AND SURFACE WATER
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LEHR/SCDS Environmental Restoration
Davis, California

		Location Sample ID Date	LF-01 STMW0137F 03/20/06	LF-01 STMW0138 Dup 03/20/06	LF-01 STMW0139 11/02/06	LS-01 RWSW0040 02/27/06	LS-01 RWSW0041 Dup 02/27/06	LS-01 RWSW0042 12/13/06	LS-01 RWSW0043 Dup 12/13/06	PCD SWSW0281 03/21/06	PCD SWSW0283 11/03/06
AnalyteNameShort	CRDL	UnitsID									
ALUMINUM		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
ANTIMONY	5	UG/L	< 0.5	0.611 J	0.926 J	**42**	**42.3**	**55.6**	**56.2**	< 0.5	1.09 J
ARSENIC	3	UG/L	2.26 J	**3.51 J**	**6.57**	< 1.5	< 1.5	2.46	2.16	2.68 J	2.2 J
BARIUM	20	UG/L	**38.2**	**96.4 J**	**162**	10.7	10.4	**32**	**33.4**	**55.8**	**101**
BERYLLIUM	1	UG/L	< 0.1	< 0.5	0.405 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.1
BORON	50	UG/L	**62.3**	**64.9 J**	**54.4**	NS	NS	NS	NS	**172**	**455**
CADMIUM	1	UG/L	< 0.1	0.358 J	0.556 J	< 0.1	< 0.1	0.25	0.24	< 0.1	< 0.1
CALCIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	**12**	**47.9 J**	**90**	3.01	2.8 J	0.0124	0.0122	2.83 J	9.18 J
COBALT	10	UG/L	2.85	9.29 J	**16.7**	0.47 J	0.43 J	2.22	2.36	0.595 J	1.43
COPPER	10	UG/L	9.87 J	**21.2 J**	**35.2**	3.6	3.46	9.72	**10.3**	5.55 J	4.79 J
IRON	100	UG/L	**3710**	**13100 J**	**22000**	**685**	**587**	**3490 J**	**3450 J**	**1020**	**1860**
LEAD	3	UG/L	3	**13 J**	**28.4**	2.18	2.23	**3.32**	**3.92**	< 0.5	1.15 J
MAGNESIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	**86.5**	**290 J**	**512**	**23.4**	**22.9**	**67.3**	**71.9**	**26.7**	**49.5**
MERCURY	0.2	UG/L	< 0.05	0.123 J	**0.37 J**	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.06
MOLYBDENUM	10	UG/L	0.55 J	0.571 J	1.07 J	0.14 J	0.11 J	< 0.54 UJ	< 0.45 UJ	0.481 J	6.64 J
NICKEL	20	UG/L	**23.4**	**76.4 J**	**161**	3.82	3.73	19.6	**20.8**	5.75 J	12.7 J
POTASSIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
SILVER	10	UG/L	< 0.2	< 0.2	0.327 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
SODIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	< 0.4	< 0.4	< 0.4	0.58 J	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
VANADIUM	10	UG/L	< 10.5 UJ	**31.1 J**	**46.6**	< 2	< 2	9.78	9.81	< 12.3 UJ	6.93 J
ZINC	20	UG/L	**37.5**	**158 J**	**246**	**59**	**60.8**	**121**	**129**	4.64 J	18 J

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APPENDIX F
METALS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	PCU SWSW0280 03/21/06	PCU SWSW0285 11/03/06	SP-5 TPEF0331 01/31/06	SP-5 TPEF0332 02/27/06	SP-5 TPEF0333 03/30/06	SP-5 TPEF0334 04/28/06	SP-5 TPEF0336 06/30/06	SP-5 TPEF0337 07/25/06	SP-5 TPEF0037 08/08/06	SP-5 TPEF0338 09/26/06	SP-5 TPEF0339 10/24/06
ALUMINUM		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ANTIMONY	5	UG/L	< 0.5	1.26 J	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ARSENIC	3	UG/L	2.24 J	< 1.5	1.63 J	< 1.5	< 15	2.65 J	< 1.5	2.15 J	2.13 J	2.57 J	< 1.5
BARIUM	20	UG/L	**60.8**	**101**	**177**	**172**	**153**	**159**	**171**	**169**	**162**	**176**	**172**
BERYLLIUM	1	UG/L	< 0.5	< 0.1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
BORON	50	UG/L	**197**	**418**	**527**	**528**	**579**	**523**	**548**	**553**	**510**	**483**	**99.5**
CADMIUM	1	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CALCIUM	2000	UG/L	NS	NS	**35600**	**36500**	**38600**	**37100**	**40200**	**41800**	NS	NS	**38700**
CHROMIUM, HEXAVALENT		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	4.11 J	8.42 J	**20.8**	**19.8**	**23.2 J**	**19.6**	**19.1**	**20.7**	**24.1**	**22.7**	**19.5**
COBALT	10	UG/L	0.87 J	0.947 J	0.521 J	0.577 J	< 1	0.344 J	0.28 J	0.367 J	0.343 J	0.477 J	0.389 J
COPPER	10	UG/L	5.83 J	3.52 J	< 4.48 UJ	< 2.02 UJ	< 2	< 1.26 UJ	0.91 J	2.11 J	1.03 J	< 1.51 UJ	1.65 J
IRON	100	UG/L	**1690**	**1210**	**322**	< 154 UJ	**176 J**	**144**	**156**	**179**	**158**	**191**	**197**
LEAD	3	UG/L	0.502 J	0.757 J	0.694 J	< 0.5	< 5	0.683 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MAGNESIUM	2000	UG/L	NS	NS	**62800**	**62800**	**68100**	**64700**	**69200**	**74500**	NS	NS	**68600**
MANGANESE	10	UG/L	**37.6**	**33.9**	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1
MERCURY	0.2	UG/L	< 0.05	< 0.06	< 0.05	< 0.05	< 0.5	< 0.05	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
MOLYBDENUM	10	UG/L	0.447 J	3.59 J	1.91 J	1.86 J	1.62 J	1.85 J	1.88 J	1.67 J	1.76 J	1.74 J	1.71 J
NICKEL	20	UG/L	7 J	9.31 J	2.22 J	2.2 J	< 5	1.63 J	1.33 J	1.86 J	1.5 J	2.29 J	2.22 J
POTASSIUM	2000	UG/L	NS	NS	757 J	745 J	628 J	743 J	939 J	729 J	NS	NS	866 J
SELENIUM	3	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 25	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
SILVER	10	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
SODIUM	2000	UG/L	NS	NS	**35900**	**35600**	**39000**	**36800**	**38700**	**38600**	NS	NS	**37000**
THALLIUM	10	UG/L	< 0.4	< 0.4	< 0.4	< 0.4	< 4	0.47 J	0.511 J	0.652 J	< 0.4	< 0.4	< 0.4
VANADIUM	10	UG/L	< 10	4.1 J	7.78 J	**20.8 J**	< 20	6.13 J	2.16 J	**11.1 J**	9.44 J	**10.2 J**	**10.5 J**
ZINC	20	UG/L	6.72 J	< 10.6 UJ	14.3 J	< 7.01 UJ	< 20	< 4.09 UJ	2.98 J	5.03 J	< 3.58 UJ	5.85 J	5.62 J

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AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	SP-5 TPEF0340 11/16/06	SP-5 TPEF0341 12/21/06	STPO SWSW0282 03/21/06	STPO SWSW0286 11/03/06	UCD1-004 GWDOE001 06/14/06	UCD1-004 GWDOE002 Dup 06/14/06	UCD1-005 GWDOE003 06/14/06	UCD1-010 GWGW2007 05/22/06	UCD1-011 GWGW1985 02/02/06	UCD1-011 GWGW2008 05/22/06
ALUMINUM		UG/L	NS	NS	NS	NS	NS	NS	< 0.015	NS	NS	NS
ANTIMONY	5	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	NS	NS	NS	NS	NS	< 0.5
ARSENIC	3	UG/L	2.62 J	1.96 J	**5.01**	**3.12 J**	NS	NS	NS	NS	NS	2.57 J
BARIUM	20	UG/L	**166**	**172**	**42.4**	**39.3**	NS	NS	NS	NS	NS	**336**
BERYLLIUM	1	UG/L	< 0.1	< 0.1	< 0.5	< 0.1	NS	NS	NS	NS	NS	< 0.1
BORON	50	UG/L	**473**	**535**	**729**	**707**	NS	NS	NS	NS	NS	**910**
CADMIUM	1	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	NS	NS	NS	NS	NS	< 0.1
CALCIUM	2000	UG/L	**40300**	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	**23**	**22**	1.46 J	2.66 J	NS	NS	NS	**64.1**	**149 J**	**143**
COBALT	10	UG/L	0.462 J	0.272 J	< 0.5	0.419 J	NS	NS	NS	NS	NS	0.616 J
COPPER	10	UG/L	1.34 J	1.19 J	2.73 J	2.84 J	NS	NS	NS	NS	NS	0.711 J
IRON	100	UG/L	89.1 J	**309**	**212**	**138**	NS	NS	NS	NS	NS	**246**
LEAD	3	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	NS	NS	NS	NS	NS	< 0.5
MAGNESIUM	2000	UG/L	**73300**	NS	NS	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	< 1	< 1	< 5	1.89 J	NS	NS	NS	NS	NS	< 1
MERCURY	0.2	UG/L	< 0.06	< 0.06	< 0.05	< 0.06	< 0.1	NS	NS	NS	NS	< 0.06
MOLYBDENUM	10	UG/L	1.77 J	1.81 J	**15.5**	**68.7**	NS	NS	NS	NS	NS	< 0.909 UJ
NICKEL	20	UG/L	2.04 J	1.59 J	2.5 J	2.65 J	NS	NS	NS	NS	NS	< 2.1 UJ
POTASSIUM	2000	UG/L	790 J	NS	NS	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	NS	NS	NS	NS	NS	**11.3**
SILVER	10	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	NS	NS	NS	NS	NS	< 0.2
SODIUM	2000	UG/L	**42300**				NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	0.457 J	< 0.4	< 0.4	< 0.4	NS	NS	NS	NS	NS	< 0.4
VANADIUM	10	UG/L	**10.4 J**	8.76 J	**17.9 J**	**13.3 J**	NS	NS	NS	NS	NS	**40.5**
ZINC	20	UG/L	< 2.3 UJ	2.39 J	**57.2**	**47.2**	**57 J**	17 J	NS	NS	NS	< 3.65 UJ

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AnalyteNameShort	CRDL	UnitsID	UCD1-011 GWGW2056 08/03/06	UCD1-012 GWGW2009 05/18/06	UCD1-018 GWGW1987 02/02/06	UCD1-018 GWGW2010 06/01/06	UCD1-018 GWGW2058 08/01/06	UCD1-020 GWGW2053 05/22/06	UCD1-020 GWDOE008 06/14/06	UCD1-020 GWDOE009 Dup 06/14/06	UCD1-021 GWGW2054 05/31/06	UCD1-023 GWDOE010 06/14/06
ALUMINUM		UG/L	NS	NS	NS	NS	NS	< 5.56 UJ	< 0.015	NS	< 5	NS
ANTIMONY	5	UG/L	< 0.5	NS	NS	< 0.5	< 0.5	NS	NS	NS	NS	NS
ARSENIC	3	UG/L	**4.32 J**	NS	NS	2.63 J	< 4.26 UJ	NS	NS	NS	NS	NS
BARIUM	20	UG/L	**379**	NS	NS	**116**	**122**	NS	NS	NS	NS	NS
BERYLLIUM	1	UG/L	< 0.1	NS	NS	< 0.1	< 0.1	NS	NS	NS	NS	NS
BORON	50	UG/L	**97.3 J**	NS	NS	**439**	**488**	NS	NS	NS	NS	NS
CADMIUM	1	UG/L	< 0.1	NS	NS	< 0.1	0.202 J	NS	NS	NS	NS	NS
CALCIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	**141**	**130**	9.97 J	8.18 J	7.5 J	**44.1**	**71**	**67**	NS	NS
COBALT	10	UG/L	0.451 J	NS	NS	0.219 J	0.294 J	NS	NS	NS	NS	NS
COPPER	10	UG/L	< 1.11 UJ	NS	NS	0.962 J	1.09 J	NS	NS	NS	NS	NS
IRON	100	UG/L	**242**	NS	NS	**115**	**107**	NS	NS	NS	NS	NS
LEAD	3	UG/L	< 0.5	NS	NS	< 0.5	< 0.5	NS	NS	NS	NS	NS
MAGNESIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	< 1	NS	NS	< 1	< 1	NS	NS	NS	NS	NS
MERCURY	0.2	UG/L	< 0.06	NS	NS	< 0.06	< 0.06	NS	NS	NS	NS	< 0.1
MOLYBDENUM	10	UG/L	0.824 J	NS	NS	1.29 J	1.46 J	NS	NS	NS	NS	NS
NICKEL	20	UG/L	2.07 J	NS	NS	1.75 J	1.77 J	< 1.24 UJ	2.6	NS	NS	NS
POTASSIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	**7.39**	NS	NS	< 2.5	< 2.5	**3.22 J**	**5**	NS	NS	NS
SILVER	10	UG/L	< 0.2	NS	NS	< 0.2	< 0.2	NS	NS	NS	NS	NS
SODIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	< 0.4	NS	NS	< 0.4	0.507 J	NS	NS	NS	NS	NS
VANADIUM	10	UG/L	< 10	NS	NS	9.05 J	< 2.77 UJ	NS	NS	NS	NS	NS
ZINC	20	UG/L	3.25 J	NS	NS	< 3.02 UJ	4.91 J	NS	NS	NS	NS	6.4

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		Location	UCD1-024	UCD1-025	UCD1-025	UCD1-025	UCD1-025	UCD1-027Z1	UCD1-027Z1	UCD1-027Z1	UCD1-027Z2
		Sample ID	GWDOE011	GWGW1988	GWGW2011	GWGW2059	GWGW2060	GWGW1989	GWGW2013	GWGW2061	GWGW1990
		Date	06/13/06	02/06/06	06/01/06	08/07/06	Dup 08/07/06	02/09/06	05/22/06	08/04/06	02/09/06
AnalyteNameShort	CRDL	UnitsID									
ALUMINUM		UG/L	< 0.015	NS	NS	NS	NS	NS	NS	NS	NS
ANTIMONY	5	UG/L	NS	< 0.5	< 0.5	< 0.5	< 0.5	NS	< 0.5	< 0.5	NS
ARSENIC	3	UG/L	NS	1.79 J	< 1.5	2.73 J	1.7 J	NS	< 1.5	**3.11**	NS
BARIUM	20	UG/L	NS	**317**	**288**	**279**	**296**	NS	14.9 J	**238**	NS
BERYLLIUM	1	UG/L	NS	< 0.1	< 0.1	< 0.1	< 0.1	NS	< 0.1	< 0.5	NS
BORON	50	UG/L	NS	**771**	**721**	**790**	**763**	NS	**467**	**629**	NS
CADMIUM	1	UG/L	NS	< 0.1	< 0.1	< 0.1	< 0.1	NS	< 0.1	< 0.1	NS
CALCIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	**72**	**171**	**201**	**168**	**162**	< 1	**40.8**	< 1	< 1
COBALT	10	UG/L	NS	1.21	0.53 J	0.687 J	0.756 J	NS	**174 J**	5.83	NS
COPPER	10	UG/L	NS	< 3.26 UJ	1.22 J	1.01 J	1.03 J	NS	0.626 J	1.38 J	NS
IRON	100	UG/L	NS	**226**	**185**	**160**	**168**	NS	**222000**	**206**	NS
LEAD	3	UG/L	NS	< 0.5	< 0.5	< 0.5	< 0.5	NS	< 0.5	< 0.5	NS
MAGNESIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	NS	**36.8**	**32.4**	**33.3**	**36.1**	NS	**6160**	**1230**	NS
MERCURY	0.2	UG/L	NS	< 0.05	< 0.06	< 0.06	< 0.06	NS	**0.838**	< 0.06	NS
MOLYBDENUM	10	UG/L	< 0.09	0.513 J	0.473 J	0.437 J	0.428 J	NS	7.38 J	**81.4**	NS
NICKEL	20	UG/L	4.3	**25.6**	**23.8**	**20.7**	**21.1**	NS	**17100**	**665**	NS
POTASSIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	**3.6**	< 2.5	< 2.5	< 2.5	< 2.5	NS	**3.96 J**	< 2.5	NS
SILVER	10	UG/L	< 0.02	< 0.2	< 0.2	< 0.2	< 0.2	NS	0.475 J	< 0.2	NS
SODIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	NS	< 0.4	< 0.4	< 0.4	< 0.4	NS	< 0.4	0.461 J	NS
VANADIUM	10	UG/L	NS	**41.9**	**38.1**	**11.2 J**	**13.4 J**	NS	9.92 J	< 13.5 UJ	NS
ZINC	20	UG/L	NS	< 7.13 UJ	< 5.99 UJ	< 6.83 UJ	< 6.57 UJ	NS	**24.8**	**251**	NS

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AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	UCD1-027Z2 GWGW2014 05/22/06	UCD1-027Z2 GWGW2062 08/04/06	UCD1-027Z3 GWGW2015 05/22/06	UCD1-027Z3 GWGW2063 08/04/06	UCD1-028 GWGW1993 02/06/06	UCD1-028 GWGW2016 05/26/06	UCD1-028 GWGW2064 08/02/06	UCD1-049 GWGW2017 05/17/06	UCD1-050 GWGW2018 06/02/06	UCD1-051 GWGW2019 05/18/06
ALUMINUM		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ANTIMONY	5	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NS	< 0.5	NS
ARSENIC	3	UG/L	< 1.5	2.09 J	< 1.5	1.64 J	< 1.5	2.36 J	< 4.02 UJ	NS	2.57 J	NS
BARIUM	20	UG/L	**243**	**303**	**175**	**207**	**326**	**296**	**311**	NS	**457**	NS
BERYLLIUM	1	UG/L	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	NS	< 0.1	NS
BORON	50	UG/L	**879**	**808**	**687**	**112 J**	**1100**	**1180**	**1070**	NS	**1040**	NS
CADMIUM	1	UG/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NS	< 0.1	NS
CALCIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	< 1	< 1	< 1	< 1	**446**	**550**	**462**	**116**	2.2 J	**107**
COBALT	10	UG/L	10	10	3.96	4.92 J	1.26	2.21	0.898 J	NS	0.712 J	NS
COPPER	10	UG/L	0.728 J	< 1	0.606 J	< 1	< 3.58 UJ	1.34 J	1.04 J	NS	1.29 J	NS
IRON	100	UG/L	**188**	**171**	**143**	**154**	**261**	**272**	**162**	NS	**186**	NS
LEAD	3	UG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NS	< 0.5	NS
MAGNESIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	**955**	**1060**	**497**	**624**	< 1	< 1	< 1	NS	< 1	NS
MERCURY	0.2	UG/L	< 0.06	< 0.06	< 0.06	< 0.06	< 0.05	< 0.06	< 0.06	NS	< 0.06	NS
MOLYBDENUM	10	UG/L	3.51 J	3.41 J	6.93 J	8.23 J	0.857 J	1.12 J	0.721 J	NS	0.378 J	NS
NICKEL	20	UG/L	**670**	**529**	**156**	**200**	3.02 J	2.89 J	1.91 J	NS	1.51 J	NS
POTASSIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	**3.23 J**	< 2.5	< 2.5	< 2.5	**12.5**	**13.2**	**12.3**	NS	**14.5**	NS
SILVER	10	UG/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.402 J	NS	< 0.2	NS
SODIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NS	< 0.4	NS
VANADIUM	10	UG/L	2.32 J	< 10	2.65 J	< 10.5 UJ	**91.9**	**112**	< 20 UJ	NS	**23.1 J**	NS
ZINC	20	UG/L	**212**	**197**	**113**	**108**	< 5.64 UJ	< 3.2 UJ	3.69 J	NS	< 2.78 UJ	NS

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		Location	UCD1-052	UCD1-052	UCD1-053	UCD1-053	UCD1-053	UCD1-054	UCD1-054	UCD1-054	UCD2-007	UCD2-007
		Sample ID	GWGW1998	GWGW2020	GWGW1999	GWGW2021 Dup	GWGW2022	GWGW2012	GWGW2023 Dup	GWDOE012	GWGW2024	GWDOE013
		Date	02/06/06	06/01/06	02/06/06	06/02/06	06/02/06	06/02/06	06/02/06	06/15/06	06/01/06	06/13/06
AnalyteNameShort	CRDL	UnitsID										
ALUMINUM		UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 0.015
ANTIMONY	5	UG/L	< 0.5	NS	< 0.5	NS	NS	< 0.5	< 0.5	NS	NS	NS
ARSENIC	3	UG/L	1.98 J	NS	**3.25 J**	NS	NS	**3.37 J**	**3.95 J**	NS	NS	NS
BARIUM	20	UG/L	**221**	NS	**163**	NS	NS	**107**	**102**	NS	NS	NS
BERYLLIUM	1	UG/L	< 0.1	NS	< 0.1	NS	NS	< 0.1	< 0.1	NS	NS	NS
BORON	50	UG/L	**991**	NS	**891**	NS	NS	**931**	**900**	NS	NS	NS
CADMIUM	1	UG/L	< 0.1	NS	< 0.1	NS	NS	< 0.1	< 0.1	NS	NS	NS
CALCIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	NS	NS	NS	NS	NS	NS	NS	< 0.01	NS	**0.061**
CHROMIUM, TOTAL	10	UG/L	**142**	**174**	**406**	**338**	**335**	< 5	< 1	**13**	**41.3**	**100**
COBALT	10	UG/L	0.859 J	NS	0.821 J	NS	NS	0.377 J	0.398 J	NS	NS	NS
COPPER	10	UG/L	< 3.39 UJ	NS	< 6.8 UJ	NS	NS	0.923 J	0.818 J	NS	NS	NS
IRON	100	UG/L	**264**	NS	**255**	NS	NS	**132**	**117**	NS	NS	NS
LEAD	3	UG/L	< 0.5	NS	< 0.5	NS	NS	< 0.5	< 0.5	NS	NS	NS
MAGNESIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	< 1	NS	< 1	NS	NS	**23.9**	**24.8**	NS	NS	NS
MERCURY	0.2	UG/L	< 0.05	NS	< 0.05	NS	NS	< 0.12	< 0.06	< 0.1	NS	< 0.1
MOLYBDENUM	10	UG/L	1.31 J	NS	1.66 J	NS	NS	3.46 J	3.45 J	4	NS	2.1
NICKEL	20	UG/L	2.54 J	NS	2.74 J	NS	NS	2.11 J	2.05 J	NS	NS	3.2
POTASSIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	**16.4**	NS	**18.1**	NS	NS	< 2.5	< 2.5	NS	NS	**3.2**
SILVER	10	UG/L	< 0.2	NS	< 0.2	NS	NS	< 0.2	< 0.2	2.5 J	NS	< 0.02
SODIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	< 0.4	NS	< 0.4	NS	NS	0.696 J	< 0.4	NS	NS	NS
VANADIUM	10	UG/L	**39.2**	NS	**76.7**	NS	NS	7.6 J	7.4 J	NS	NS	NS
ZINC	20	UG/L	< 2.9 UJ	NS	< 9.24 UJ	NS	NS	< 2.18 UJ	< 2	NS	NS	NS

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AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	UCD2-007 GWDOE014 06/13/06	UCD2-014 GWGW2025 05/18/06	UCD2-015 GWGW2026 05/19/06	UCD2-015 GWDOE015 06/14/06	UCD2-016 GWGW2027 05/19/06	UCD2-017 GWGW2028 05/18/06	UCD2-026 GWGW2029 06/01/06	UCD2-029 GWGW2030 05/25/06	UCD2-030 GWGW2031 05/25/06	UCD2-031 GWGW2032 06/02/06
ALUMINUM		UG/L	< 0.015	NS	NS	NS	NS	NS	NS	NS	NS	NS
ANTIMONY	5	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ARSENIC	3	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BARIUM	20	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BERYLLIUM	1	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BORON	50	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CADMIUM	1	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CALCIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	**0.062**	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	**100**	**55.3**	6 J	NS	**30.7**	**13**	**15.7**	**20.6**	**16.9**	**17.7**
COBALT	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
COPPER	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
IRON	100	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
LEAD	3	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAGNESIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MERCURY	0.2	UG/L	< 0.1	NS	< 0.06	< 0.1	NS	NS	NS	NS	NS	NS
MOLYBDENUM	10	UG/L	< 0.09	NS	NS	NS	NS	NS	NS	NS	NS	NS
NICKEL	20	UG/L	3.3	NS	NS	NS	NS	NS	NS	NS	NS	NS
POTASSIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	**4.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS
SILVER	10	UG/L	< 0.02	NS	NS	NS	NS	NS	NS	NS	NS	NS
SODIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VANADIUM	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ZINC	20	UG/L	NS	NS	8.89 J	**23**	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exce
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
METALS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	UCD2-032 GWGW2033 05/25/06	UCD2-035 GWGW2034 05/19/06	UCD2-036 GWGW2035 05/31/06	UCD2-037 GWGW2036 05/19/06	UCD2-038 GWGW2037 05/19/06	UCD2-039 GWGW2038 05/22/06	UCD2-040 GWGW2039 05/23/06	UCD2-045 GWGW2040 05/24/06	UCD2-046 GWGW2041 05/18/06	UCD2-046 GWGW2042 Dup 05/18/06
ALUMINUM		UG/L	NS	NS	< 5	NS	NS	NS	NS	NS	NS	NS
ANTIMONY	5	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ARSENIC	3	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BARIUM	20	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BERYLLIUM	1	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BORON	50	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CADMIUM	1	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CALCIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	NS	NS	**22.4**	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	**24.9**	3.02 J	**22.8**	**10.4**	4.04 J	1.89 J	**53.9**	**34.1**	**59.3**	**60**
COBALT	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
COPPER	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
IRON	100	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
LEAD	3	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MAGNESIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MERCURY	0.2	UG/L	NS	NS	< 0.06	NS	NS	NS	NS	NS	NS	NS
MOLYBDENUM	10	UG/L	NS	NS	1.53 J	NS	NS	NS	NS	NS	NS	NS
NICKEL	20	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
POTASSIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SILVER	10	UG/L	NS	NS	< 0.2	NS	NS	NS	NS	NS	NS	NS
SODIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VANADIUM	10	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ZINC	20	UG/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exce
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
METALS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD2-048	UCD4-041	UCD4-042	UCD4-043	UCD4-044	UCD4-047	UCD4-047
		Sample ID	GWGW2043	GWGW2044	GWGW2045	GWGW2046	GWGW2047	GWGW2048	GWGW2049 Dup
		Date	05/17/06	05/23/06	05/24/06	05/24/06	05/26/06	05/18/06	05/18/06
AnalyteNameShort	CRDL	UnitsID							
ALUMINUM		UG/L	NS	NS	NS	NS	NS	NS	NS
ANTIMONY	5	UG/L	NS	NS	NS	NS	NS	NS	NS
ARSENIC	3	UG/L	NS	NS	NS	NS	NS	NS	NS
BARIUM	20	UG/L	NS	NS	NS	NS	NS	NS	NS
BERYLLIUM	1	UG/L	NS	NS	NS	NS	NS	NS	NS
BORON	50	UG/L	NS	NS	NS	NS	NS	NS	NS
CADMIUM	1	UG/L	NS	NS	NS	NS	NS	NS	NS
CALCIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, HEXAVALENT		UG/L	NS	NS	NS	NS	NS	NS	NS
CHROMIUM, TOTAL	10	UG/L	**11.7**	**25.2**	**33.8**	**29.6**	**31.7**	**39.9**	**39.9**
COBALT	10	UG/L	NS	NS	NS	NS	NS	NS	NS
COPPER	10	UG/L	NS	NS	NS	NS	NS	NS	NS
IRON	100	UG/L	NS	NS	NS	NS	NS	NS	NS
LEAD	3	UG/L	NS	NS	NS	NS	NS	NS	NS
MAGNESIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS
MANGANESE	10	UG/L	NS	NS	NS	NS	NS	NS	NS
MERCURY	0.2	UG/L	NS	NS	NS	NS	NS	NS	NS
MOLYBDENUM	10	UG/L	NS	NS	NS	NS	NS	NS	NS
NICKEL	20	UG/L	NS	NS	NS	NS	NS	NS	NS
POTASSIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS
SELENIUM	3	UG/L	NS	NS	NS	NS	NS	NS	NS
SILVER	10	UG/L	NS	NS	NS	NS	NS	NS	NS
SODIUM	2000	UG/L	NS	NS	NS	NS	NS	NS	NS
THALLIUM	10	UG/L	NS	NS	NS	NS	NS	NS	NS
VANADIUM	10	UG/L	NS	NS	NS	NS	NS	NS	NS
ZINC	20	UG/L	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exce
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	LF-01	LF-01	LS-01	LS-01	LS-01	LS-01	PCD	PCD	PCU
		Sample ID	STMW0138 Dup	STMW0139	RWSW0040	RWSW0041	RWSW0042	RWSW0043	SWSW0281	SWSW0283	SWSW0280
		Date	03/20/06	11/02/06	02/27/06	Dup 02/27/06	12/13/06	Dup 12/13/06	03/21/06	11/03/06	03/21/06
AnalyteNameShort	CRDL	UnitsID									
AMERICIUM-241	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L	< 16.6	< 15.4	< 13.5	< 13.4	< 16.1	< 16.1	< 16.9	< 15.4	< 16.9
CESIUM-137	10	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
RADIUM-226	1	PCI/L	< 0.456	0.546 +/- 0.282 J	< 0.423	< 0.355	< 0.424	< 0.378	< 0.436	< 0.433	< 0.397
STRONTIUM-90	1	PCI/L	< 0.692	< 0.799	< 0.631	< 0.79	< 0.524	< 0.609	< 0.562	< 1.06	< 0.54
TRITIUM (HYDROGEN-3)	300	PCI/L	< 289	< 245	< 253	< 255	< 569	< 569	< 294	< 243	< 292

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

AnalyteNameShort	CRDL	UnitsID	PCU SWSW0285 11/03/06	SP-2 TPIN0331 01/31/06	SP-2 TPIN0332 02/27/06	SP-2 TPIN0333 03/30/06	SP-2 TPIN0334 04/28/06	SP-2 TPIN0336 06/30/06	SP-2 TPIN0337 07/25/06	SP-2 TPIN0037 08/08/06	SP-2 TPIN0338 09/26/06	SP-2 TPIN0339 10/24/06
AMERICIUM-241	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L	< 15.5	< 13.7	< 20.6	17.8 +/- 9.07 J	< 17.2	< 15.1	< 17.8	< 11.9	< 14.2	< 15.9
CESIUM-137	10	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
RADIUM-226	1	PCI/L	< 0.41	NS	NS	NS	NS	NS	NS	NS	NS	NS
STRONTIUM-90	1	PCI/L	< 0.877	NS	NS	NS	NS	NS	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	< 241	< 261	< 252	< 261	< 294	< 286	< 288	< 197	< 276	< 175

NS - Not Sampled
J - Validation qualifier for estimated value; Sample excee
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
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Davis, California

		Location	SP-2	SP-2	STPO	STPO	UCD1-004	UCD1-004	UCD1-005	UCD1-006	UCD1-011	UCD1-011
		Sample ID	TPIN0340	TPIN0341	SWSW0282	SWSW0286	GWDOE001	GWDOE002	GWDOE003	GWDOE004	GWGW1985	GWGW2008
		Date	11/16/06	12/21/06	03/21/06	11/03/06	06/14/06	Dup 06/14/06	06/14/06	06/15/06	02/02/06	05/22/06
AnalyteNameShort	CRDL	UnitsID										
AMERICIUM-241	1	PCI/L	NS	NS	NS	NS	NS	NS	< 0.1	< 0.0741	NS	NS
CARBON-14	20	PCI/L	< 15	< 9.48	< 16.9	< 15.4	< 34.9	< 32.9	< 33.1	< 33.1	< 16.2	< 19.8
CESIUM-137	10	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
RADIUM-226	1	PCI/L	NS	NS	< 0.476	< 0.409	NS	NS	< 0.306	< 0.325	NS	NS
STRONTIUM-90	1	PCI/L	NS	NS	< 0.848	< 1.13	NS	NS	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	< 154	< 239	< 289	< 243	NS	NS	NS	NS	< 273	< 149

NS - Not Sampled
J - Validation qualifier for estimated value; Sample excee
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	UCD1-011 GWGW2056 08/03/06	UCD1-012 GWGW2009 05/18/06	UCD1-018 GWGW1987 02/02/06	UCD1-018 GWGW2010 06/01/06	UCD1-018 GWDOE007 06/15/06	UCD1-018 GWGW2058 08/01/06	UCD1-021 GWGW2054 05/31/06	UCD1-022 GWGW2055 05/31/06	UCD1-023 GWDOE010 06/14/06
AMERICIUM-241	1	PCI/L		NS	NS	NS	NS	< 0.0665	NS	< 0.202	< 0.0988	NS
CARBON-14	20	PCI/L		< 16	**43 +/- 8.42**	< 16.2	< 12.1	NS	< 16	< 12.1	< 12.2	< 32.8
CESIUM-137	10	PCI/L		NS	NS	NS	NS	< 4.53	NS	NS	NS	NS
RADIUM-226	1	PCI/L		NS	NS	NS	NS	< 0.351	NS	**2.65 +/- 0.701**	**4.21 +/- 1.05**	NS
STRONTIUM-90	1	PCI/L		NS	NS	NS	NS	< 1.01	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L		< 195	< 152	< 273	< 212 UJ	NS	< 261	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample excee
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

Ra-226 BGD
in UCD 1
1.14 pCi/L

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
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		Location	UCD1-024	UCD1-025	UCD1-025	UCD1-025	UCD1-025	UCD1-027Z1	UCD1-027Z1	UCD1-027Z1	UCD1-027Z2
		Sample ID	GWDOE011	GWGW1988	GWGW2011	GWGW2059	GWGW2060 Dup	GWGW1989	GWGW2013	GWGW2061	GWGW1990
		Date	06/13/06	02/06/06	06/01/06	08/07/06	08/07/06	02/09/06	05/22/06	08/04/06	02/09/06
AnalyteNameShort	CRDL	UnitsID									
AMERICIUM-241	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L	< 32.1	< 14.6	< 11.9	< 16	< 16	< 16.5	< 19.1	< 16	< 16.2
CESIUM-137	10	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
RADIUM-226	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
STRONTIUM-90	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	NS	< 263	< 234	< 203	< 206	< 267	< 148	< 200	< 269

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exce
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
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Davis, California

AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	UCD1-027Z2 GWGW2014 05/22/06	UCD1-027Z2 GWGW2062 08/04/06	UCD1-027Z3 GWGW1991 02/09/06	UCD1-027Z3 GWGW2015 05/22/06	UCD1-028 GWGW1993 02/06/06	UCD1-028 GWGW2016 05/26/06	UCD1-028 GWGW2064 08/02/06	UCD1-049 GWGW2017 05/17/06	UCD1-050 GWGW2018 06/02/06
AMERICIUM-241	1	PCI/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L		< 19.5	< 16	< 16.1	< 19.4	< 14.5	< 16.5	< 16	**23.8 +/- 9.19**	**84.6 +/- 8.76**
CESIUM-137	10	PCI/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
RADIUM-226	1	PCI/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
STRONTIUM-90	1	PCI/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L		< 150	< 202	< 253	< 150	< 273	< 251	< 193	< 205	< 225

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exce
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-051	UCD1-052	UCD1-052	UCD1-053	UCD1-053	UCD1-053	UCD1-054	UCD1-054	UCD1-054	UCD2-007
		Sample ID	GWGW2019	GWGW1998	GWGW2020	GWGW1999	GWGW2021	GWGW2022	GWGW2012	GWGW2023	GWDOE012	GWGW2024
		Date	05/18/06	02/06/06	06/01/06	02/06/06	Dup 06/02/06	06/02/06	06/02/06	Dup 06/02/06	06/15/06	06/01/06
AnalyteNameShort	CRDL	UnitsID										
AMERICIUM-241	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L	**41.2 +/- 8.23**	< 14.6	< 12.1	< 14.4	< 12.1	< 12.1	< 12	< 12	NS	< 12.1
CESIUM-137	10	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	< 3.21	NS
RADIUM-226	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
STRONTIUM-90	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS	< 1.01	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	< 151	< 263	**1730 +/- 197**	< 264	< 224	< 228	< 230	< 216	NS	< 223

NS - Not Sampled
J - Validation qualifier for estimated value; Sample excee
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD2-007	UCD2-007	UCD2-014	UCD2-015	UCD2-016	UCD2-017	UCD2-026	UCD2-029	UCD2-030
		Sample ID	GWDOE013	GWDOE014	GWGW2025	GWGW2026	GWGW2027	GWGW2028	GWGW2029	GWGW2030	GWGW2031
		Date	06/13/06	06/13/06	05/18/06	05/19/06	05/19/06	05/18/06	06/01/06	05/25/06	05/25/06
AnalyteNameShort	CRDL	UnitsID									
AMERICIUM-241	1	PCI/L	< 0.228	< 0.0645	NS	NS	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L	NS	NS	**156 +/- 12.4**	< 18.8	< 19.2	< 14.6	< 12.2	< 16.6	< 16.6
CESIUM-137	10	PCI/L	< 2.84	< 3.37	NS	NS	NS	NS	NS	NS	NS
RADIUM-226	1	PCI/L	< 0.302	< 0.319	NS	NS	NS	NS	NS	NS	NS
STRONTIUM-90	1	PCI/L	< 0.668	< 0.821	NS	NS	NS	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	NS	NS	183 +/- 95.5 J	< 151	< 150	< 151	< 223	< 272	< 269

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exce
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
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Davis, California

AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	UCD2-031 GWGW2032 06/02/06	UCD2-032 GWGW2033 05/25/06	UCD2-035 GWGW2034 05/19/06	UCD2-036 GWGW2035 05/31/06	UCD2-037 GWGW2036 05/19/06	UCD2-038 GWGW2037 05/19/06	UCD2-039 GWGW2038 05/22/06	UCD2-040 GWGW2039 05/23/06	UCD2-045 GWGW2040 05/24/06
AMERICIUM-241	1	PCI/L	NS	NS	NS	< 0.107	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L	< 12	< 16.5	**30 +/- 13.2**	< 12.1	< 19.3	< 19.4	< 19.4	< 19.6	< 19.4
CESIUM-137	10	PCI/L	NS	NS	NS	< 3.41	NS	NS	NS	NS	NS
RADIUM-226	1	PCI/L	NS	NS	NS	**8.83 +/- 1.2**	NS	NS	NS	NS	NS
STRONTIUM-90	1	PCI/L	NS	NS	NS	0.718 +/- 0.337 J	NS	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	< 225	< 272	< 148	< 219	< 150	**393 +/- 190 J**	< 149	< 151	< 194

NS - Not Sampled
J - Validation qualifier for estimated value; Sample excee
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

Ra-228 BGD
in UCD 2
2.4 pCi/L

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
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Davis, California

AnalyteNameShort	CRDL	UnitsID	UCD2-046 GWGW2041 05/18/06	UCD2-046 GWGW2042 Dup 05/18/06	UCD2-048 GWGW2043 05/17/06	UCD4-041 GWGW2044 05/23/06	UCD4-042 GWGW2045 05/24/06	UCD4-043 GWGW2046 05/24/06	UCD4-044 GWGW2047 05/26/06	UCD4-047 GWGW2048 05/18/06
AMERICIUM-241	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS
CARBON-14	20	PCI/L	< 17.2	13.7 +/- 7.09 J	< 11.4	< 19	< 19.3	< 19.5	< 16.6	< 12.7
CESIUM-137	10	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS
RADIUM-226	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS
STRONTIUM-90	1	PCI/L	NS	NS	NS	NS	NS	NS	NS	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	< 152	< 149	< 195	< 150	< 195	< 191	< 261	< 151

NS - Not Sampled
J - Validation qualifier for estimated value; Sample excee
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
RADS - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD4-047
		Sample ID	GWGW2049 Dup
		Date	05/18/06
AnalyteNameShort	CRDL	UnitsID	
AMERICIUM-241	1	PCI/L	NS
CARBON-14	20	PCI/L	< 20.3
CESIUM-137	10	PCI/L	NS
RADIUM-226	1	PCI/L	NS
STRONTIUM-90	1	PCI/L	NS
TRITIUM (HYDROGEN-3)	300	PCI/L	< 148

NS - Not Sampled
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APPENDIX F
PESTICIDES - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
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		Location	LF-01	LF-01	LS-01	LS-01	LS-01	LS-01	PCD	PCD
		Sample ID	STMW0138	STMW0139	RWSW0040	RWSW0041 Dup	RWSW0042	RWSW0043 Dup	SWSW0281	SWSW0283
		Date	Dup 03/20/06	11/02/06	02/27/06	02/27/06	12/13/06	12/13/06	03/21/06	11/03/06
AnalyteNameShort	CRDL	UnitsID								
4,4'-DDD	0.02	UG/L	< 0.00459 UJ	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00094 UJ	0.00825 J
4,4'-DDE	0.02	UG/L	0.00535 J	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00094 UJ	0.0119 J
4,4'-DDT	0.02	UG/L	< 0.00516 UJ	< 0.00093 UJ	< 0.0377	< 0.0385	< 0.00952	< 0.00952	< 0.00142	0.0101 J
ALDRIN	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ	< 0.00051
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ	< 0.00051
ALPHA ENDOSULFAN	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ	< 0.00051
ALPHA-CHLORDANE	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	**0.0266 J**	**0.0353 J**	< 0.00047 UJ	< 0.00051
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.00102	< 0.00078 UJ	< 0.0189	< 0.0192	< 0.00805	< 0.00805	< 0.00047	< 0.00085
BETA ENDOSULFAN	0.02	UG/L	< 0.0006	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00104 UJ	< 0.00051
CHLORDANE		UG/L	NS	NS	NS	NS	NS	NS	NS	NS
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ	< 0.00051
DIELDRIN	0.02	UG/L	0.00911 J	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00142 UJ	< 0.00051
ENDOSULFAN SULFATE	0.02	UG/L	< 0.0006	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00059 UJ	< 0.00051
ENDRIN	0.02	UG/L	< 0.0006	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00047 UJ	< 0.00051
ENDRIN ALDEHYDE	0.02	UG/L	< 0.0006	< 0.00046 UJ	< 0.0377	< 0.0385	< 0.00476	< 0.00476	< 0.00094	< 0.00051
ENDRIN KETONE	0.02	UG/L	< 0.00151	< 0.00116 UJ	< 0.0377	< 0.0385	< 0.012	< 0.012	< 0.00094 UJ	< 0.00127
GAMMA BHC (LINDANE)	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00047 UJ	< 0.00051
GAMMA-CHLORDANE	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	**0.0224 J**	**0.0236 J**	< 0.00071 UJ	< 0.00051
HEPTACHLOR	0.01	UG/L	< 0.00079	< 0.00061 UJ	< 0.0189	< 0.0192	< 0.00624	< 0.00624	< 0.00047	< 0.00066
HEPTACHLOR EPOXIDE	0.01	UG/L	< 0.0006	< 0.00046 UJ	< 0.0189	< 0.0192	< 0.00476	< 0.00476	< 0.00071	< 0.00051
METHOXYCHLOR	0.1	UG/L	< 0.00602	< 0.00463 UJ	< 0.189	< 0.192	< 0.0476	< 0.0476	< 0.00472	< 0.00505
PCB-1016 (AROCHLOR 1016)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236	< 0.0168
PCB-1221 (AROCHLOR 1221)	0.4	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0393	< 0.0168
PCB-1232 (AROCHLOR 1232)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236	< 0.0168
PCB-1242 (AROCHLOR 1242)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0283	< 0.0168
PCB-1248 (AROCHLOR 1248)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236	< 0.0168
PCB-1254 (AROCHLOR 1254)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236	< 0.0168
PCB-1260 (AROCHLOR 1260)	0.2	UG/L	< 0.0201	< 0.0154 UJ	< 0.472	< 0.481	< 0.159	< 0.159	< 0.0236	< 0.0168
TOXAPHENE	1	UG/L	< 0.0181	< 0.0139 UJ	< 0.472	< 0.481	< 0.143	< 0.143	< 0.0118	< 0.0152

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		Location	PCU	PCU	STPO	STPO	UCD1-013	UCD1-013	UCD1-013
		Sample ID	SWSW0280	SWSW0285	SWSW0282	SWSW0286	GWGW2052	GWDOE005	GWDOE006 Dup
		Date	03/21/06	11/03/06	03/21/06	11/03/06	05/31/06	06/13/06	06/13/06
AnalyteNameShort	CRDL	UnitsID							
4,4'-DDD	0.02	UG/L	< 0.00094 UJ	0.00677 J	< 0.00111 UJ	0.0107 J	NS	< 0.0031	< 0.0031
4,4'-DDE	0.02	UG/L	< 0.00094 UJ	0.00943 J	< 0.00111 UJ	0.00999 J	NS	< 0.002	< 0.0021
4,4'-DDT	0.02	UG/L	< 0.0014	0.0112 J	< 0.00167	0.00836 J	NS	< 0.0031	< 0.0031
ALDRIN	0.01	UG/L	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048	NS	< 0.0031	< 0.0031
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048	NS	< 0.0041	< 0.0042
ALPHA ENDOSULFAN	0.01	UG/L	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048	NS	< 0.0041	< 0.0042
ALPHA-CHLORDANE	0.01	UG/L	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048	0.002 J	< 0.002	< 0.0021
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.00047	< 0.00085	< 0.00056	< 0.00081	NS	< 0.0041	< 0.0042
BETA ENDOSULFAN	0.02	UG/L	< 0.00103 UJ	< 0.0005	< 0.00122 UJ	< 0.00048	NS	< 0.002	< 0.0021
CHLORDANE		UG/L	NS	NS	NS	NS	NS	< 0.3	< 0.31
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.01	UG/L	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048	NS	< 0.0051	< 0.0052
DIELDRIN	0.02	UG/L	< 0.0014 UJ	< 0.0005	< 0.00167 UJ	< 0.00048	0.0047 J	< 0.002	< 0.0021
ENDOSULFAN SULFATE	0.02	UG/L	< 0.00058 UJ	< 0.0005	< 0.00069 UJ	< 0.00048	NS	< 0.0041	< 0.0042
ENDRIN	0.02	UG/L	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048	NS	< 0.0051	< 0.0052
ENDRIN ALDEHYDE	0.02	UG/L	< 0.00094	< 0.0005	< 0.00111	< 0.00048	NS	< 0.0082	< 0.0083
ENDRIN KETONE	0.02	UG/L	< 0.00094 UJ	< 0.00126	< 0.00111 UJ	< 0.00121	NS	< 0.0031	< 0.0031
GAMMA BHC (LINDANE)	0.01	UG/L	< 0.00047 UJ	< 0.0005	< 0.00056 UJ	< 0.00048	NS	< 0.0041	< 0.0042
GAMMA-CHLORDANE	0.01	UG/L	< 0.0007 UJ	< 0.0005	< 0.00083 UJ	< 0.00048	< 0.00409 UJ	< 0.0031	< 0.0031
HEPTACHLOR	0.01	UG/L	< 0.00047	< 0.00066	< 0.00056	< 0.00063	NS	< 0.0031	< 0.0031
HEPTACHLOR EPOXIDE	0.01	UG/L	< 0.0007	< 0.0005	< 0.00083	< 0.00048	NS	< 0.0031	< 0.0031
METHOXYCHLOR	0.1	UG/L	< 0.00467	< 0.005	< 0.00556	< 0.00481	NS	< 0.002	< 0.0021
PCB-1016 (AROCHLOR 1016)	0.2	UG/L	< 0.0234	< 0.0167	< 0.0278	< 0.016	NS	NS	NS
PCB-1221 (AROCHLOR 1221)	0.4	UG/L	< 0.0389	< 0.0167	< 0.0463	< 0.016	NS	NS	NS
PCB-1232 (AROCHLOR 1232)	0.2	UG/L	< 0.0234	< 0.0167	< 0.0278	< 0.016	NS	NS	NS
PCB-1242 (AROCHLOR 1242)	0.2	UG/L	< 0.028	< 0.0167	< 0.0333	< 0.016	NS	NS	NS
PCB-1248 (AROCHLOR 1248)	0.2	UG/L	< 0.0234	< 0.0167	< 0.0278	< 0.016	NS	NS	NS
PCB-1254 (AROCHLOR 1254)	0.2	UG/L	< 0.0234	< 0.0167	< 0.0278	< 0.016	NS	NS	NS
PCB-1260 (AROCHLOR 1260)	0.2	UG/L	< 0.0234	< 0.0167	< 0.0278	< 0.016	NS	NS	NS
TOXAPHENE	1	UG/L	< 0.0117	< 0.015	< 0.0139	< 0.0144	NS	< 0.21	< 0.21

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AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	ASDP ASDP0331 01/31/06	ASDP ASDP0332 02/27/06	ASDP ASDP0333 03/30/06	ASDP ASDP0334 04/28/06	ASDP ASDP0336 06/30/06	ASDP ASDP0337 07/25/06	ASDP ASDP0037 08/08/06	ASDP ASDP0338 09/26/06	ASDP ASDP0339 10/24/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L		**4.65**	**4.53**	**3.66**	**3.76**	**5.1 J**	**6.91**	**7.85**	**6.88 J**	**6.31**
OIL & GREASE, TOTAL REC	2	MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L		**493**	**466**	**450**	**461**	**500**	**500**	**531**	**508**	**483**
TOTAL ORGANIC CARBON	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L		NS	NS	NS	NS	NS	NS	NS	NS	NS

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		Location	ASDP	ASDP	LF-01	LF-01	LS-01	LS-01	LS-01
		Sample ID	ASDP0340	ASDP0341	STMW0138 Dup	STMW0139	RWSW0040	RWSW0041 Dup	RWSW0042
		Date	11/16/06	12/21/06	03/20/06	11/02/06	02/27/06	02/27/06	12/13/06
AnalyteNameShort	CRDL	UnitsID							
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L	**5.77**	**6.25**	**1.37 J**	NS	**0.262**	**0.268**	**0.39**
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	1.6 J	< 1.09	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**450**	**506**	**119**	< 3.97	17	**22**	**45**
TOTAL ORGANIC CARBON	1	MG/L	NS	NS	**5.81**	**49.1**	**4.88**	**4.83**	**7**
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	**146**	**460**	**15**	**16.4**	**51**

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AnalyteNameShort	CRDL	UnitsID	LS-01 RWSW0043 Dup 12/13/06	PCD SWSW0281 03/21/06	PCD SWSW0283 11/03/06	PCU SWSW0280 03/21/06	PCU SWSW0285 11/03/06	SP-2 TPIN0331 01/31/06	SP-2 TPIN0332 02/27/06	SP-2 TPIN0333 03/30/06
		Location								
		Sample ID								
		Date								
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	NS	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L	NS	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L	**0.382**	**0.19**	NS	**0.167**	NS	NS	NS	NS
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	NS	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**57**	**161**	**313**	**180**	**323**	NS	NS	NS
TOTAL ORGANIC CARBON	1	MG/L	**7.15**	NS	NS	NS	NS	**1.41**	0.97 J	0.741 J
TOTAL SUSPENDED SOLIDS		MG/L	**83**	NS	NS	NS	NS	NS	NS	NS

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AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	SP-2 TPIN0334 04/28/06	SP-2 TPIN0336 06/30/06	SP-2 TPIN0337 07/25/06	SP-2 TPIN0037 08/08/06	SP-2 TPIN0338 09/26/06	SP-2 TPIN0339 10/24/06	SP-2 TPIN0340 11/16/06	SP-2 TPIN0341 12/21/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
OIL & GREASE, TOTAL REC	2	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
TOTAL ORGANIC CARBON	1	MG/L		**1.55**	0.928 J	0.983 J	0.877 J	**1.17**	**1.27**	0.89 J	0.534 J
TOTAL SUSPENDED SOLIDS		MG/L		NS	NS	NS	NS	NS	NS	NS	NS

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AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	SP-5 TPEF0331 01/31/06	SP-5 TPEF0332 02/27/06	SP-5 TPEF0333 03/30/06	SP-5 TPEF0334 04/28/06	SP-5 TPEF0336 06/30/06	SP-5 TPEF0337 07/25/06	SP-5 TPEF0037 08/08/06	SP-5 TPEF0338 09/26/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L		**363**	**368**	**392**	**385**	**383**	**380**	**412**	**401**
CHLORIDE (AS CL)	1	MG/L		**20.2**	**19.3**	**18.9**	**19.9**	**20**	**21.7**	**22.7**	**21.8**
NITRATE AS NITROGEN	0.1	MG/L		**4.7**	**4.53**	**3.65**	**3.78**	**5.11 J**	**6.9**	**7.82**	**6.87 J**
OIL & GREASE, TOTAL REC	2	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L		**38.5**	**38.2**	**37.4**	**37.8**	**38.6**	**39**	**37.4**	**39.3**
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L		**497**	**473**	**456**	**460**	**506**	**498**	**529**	**523**
TOTAL ORGANIC CARBON	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L		NS	NS	NS	NS	NS	NS	NS	NS

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		Location	SP-5	SP-5	SP-5	STPO	STPO	UCD1-004	UCD1-004
		Sample ID	TPEF0339	TPEF0340	TPEF0341	SWSW0282	SWSW0286	GWDOE001	GWDOE002
		Date	10/24/06	11/16/06	12/21/06	03/21/06	11/03/06	06/14/06	Dup 06/14/06
AnalyteNameShort	CRDL	UnitsID							
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	**397**	**375**	**401**	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L	**22.5**	**20.8**	**21.6**	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L	**6.42**	**5.77**	**6.12**	**8.25**	NS	**1.5**	**1.5**
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	**40.4**	**37.8**	**38.6**	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**484**	**460**	**499**	**599**	**549**	NS	NS
TOTAL ORGANIC CARBON	1	MG/L	NS	NS	NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	NS	NS	NS	NS	NS

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AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	UCD1-005 GWDOE003 06/14/06	UCD1-006 GWDOE004 06/15/06	UCD1-010 GWGW2007 05/22/06	UCD1-011 GWGW1985 02/02/06	UCD1-011 GWGW2008 05/22/06	UCD1-011 GWGW2056 08/03/06	UCD1-012 GWGW2009 05/18/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	NS	NS	NS	**542**	**608**	**653**	NS
CHLORIDE (AS CL)	1	MG/L	NS	NS	NS	**53.1**	**61.8**	**55**	NS
NITRATE AS NITROGEN	0.1	MG/L	**18**	**43**	**20.9 J**	**35.1 J**	**34.5 J**	**31.6 J**	**68.8 J**
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	NS	NS	NS	**36.2**	**37.6**	**37.4**	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	NS	NS	**893**	**879**	**928**	**945**	**1270**
TOTAL ORGANIC CARBON	1	MG/L	NS	NS	NS	**2.05**	**1.87**	**2.03**	NS
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
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Davis, California

AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	UCD1-018 GWGW1987 02/02/06	UCD1-018 GWGW2010 06/01/06	UCD1-018 GWGW2058 08/01/06	UCD1-021 GWGW2054 05/31/06	UCD1-022 GWGW2055 05/31/06	UCD1-023 GWDOE010 06/14/06	UCD1-024 GWDOE011 06/13/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L		**324**	**343**	**364**	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L		**14.2**	**12.7**	**11.9**	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L		**2.39 J**	**1.84**	**1.92**	**34.4**	**5.31**	**0.7**	**17**
OIL & GREASE, TOTAL REC	2	MG/L		NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L		**35.6**	**33.5**	**32.4**	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L		**418**	**417**	**414**	NS	NS	NS	NS
TOTAL ORGANIC CARBON	1	MG/L		**1.63**	**1.37**	**1.27**	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L		NS	NS	NS	NS	NS	NS	NS

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APPENDIX F
WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
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		Location	UCD1-025	UCD1-025	UCD1-025	UCD1-025	UCD1-027Z1	UCD1-027Z1	UCD1-027Z1
		Sample ID	GWGW1988	GWGW2011	GWGW2059	GWGW2060 Dup	GWGW1989	GWGW2013	GWGW2061
		Date	02/06/06	06/01/06	08/07/06	08/07/06	02/09/06	05/22/06	08/04/06
AnalyteNameShort	CRDL	UnitsID							
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	**514**	**555**	**569**	**561**	**493**	**529**	**605**
CHLORIDE (AS CL)	1	MG/L	**38**	**44.7**	**39.6**	**39.5**	**17.1**	**21.7**	**31.4**
NITRATE AS NITROGEN	0.1	MG/L	**28.5 J**	**37.1 J**	**32.6**	**32.4**	**4.95**	**21.4 J**	**28.6 J**
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	**30.9**	**31.8**	**28.4**	**28.6**	**25.1**	**24.3**	**26.2**
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**777**	**828**	**837**	**846**	**510**	**721**	**857**
TOTAL ORGANIC CARBON	1	MG/L	**2.14**	**2.16**	**1.84**	**2.1**	**4.78**	NS	**18.8**
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
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UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
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AnalyteNameShort	CRDL	Location Sample ID Date UnitsID	UCD1-027Z2 GWGW1990 02/09/06	UCD1-027Z2 GWGW2014 05/22/06	UCD1-027Z2 GWGW2062 08/04/06	UCD1-027Z3 GWGW1991 02/09/06	UCD1-027Z3 GWGW2015 05/22/06	UCD1-027Z3 GWGW2063 08/04/06	UCD1-028 GWGW1993 02/06/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	**570**	**524**	**583**	**524**	**434**	**493**	**702**
CHLORIDE (AS CL)	1	MG/L	**44.1**	**34.6**	**38.4**	**29.2**	**23.9**	**25.8**	**46**
NITRATE AS NITROGEN	0.1	MG/L	**14.8 J**	**22.4 J**	**23.4 J**	**6.49**	**7.33**	**7.38 J**	**64.7 J**
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	**36.2**	**36.6**	**36.2**	**37.7**	**38.2**	**38**	**44**
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**756**	**751**	**774**	**643**	**575**	**581**	**1180**
TOTAL ORGANIC CARBON	1	MG/L	**4.51**	NS	**3.3**	NS	NS	**5.82**	**1.96**
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
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UJ - Estimated value falls below reporting limit.
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WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
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AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	UCD1-028 GWGW2016 05/26/06	UCD1-028 GWGW2064 08/02/06	UCD1-049 GWGW2017 05/17/06	UCD1-050 GWGW2018 06/02/06	UCD1-051 GWGW2019 05/18/06	UCD1-052 GWGW1998 02/06/06	UCD1-052 GWGW2020 06/01/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L		**689**	**713**	NS	**670**	NS	**475**	NS
CHLORIDE (AS CL)	1	MG/L		**45**	**46.9**	NS	**11.2**	NS	**69.4**	NS
NITRATE AS NITROGEN	0.1	MG/L		**66.3 J**	**62.7 J**	**47**	**77.7 J**	**53.7 J**	**43.4 J**	**57.5 J**
OIL & GREASE, TOTAL REC	2	MG/L		NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L		**40**	**40.9**	NS	**127**	NS	**55.7**	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L		**1140**	**1140**	**1010**	**1400**	**1260**	**910**	**1020**
TOTAL ORGANIC CARBON	1	MG/L		**2.01**	**2.05**	NS	NS	NS	**2.25**	NS
TOTAL SUSPENDED SOLIDS		MG/L		NS	NS	NS	NS	NS	NS	NS

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UJ - Estimated value falls below reporting limit.
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WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
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		Location	UCD1-053	UCD1-053	UCD1-053	UCD1-054	UCD1-054	UCD1-054	UCD2-007
		Sample ID	GWGW1999	GWGW2021 Dup	GWGW2022	GWGW2012	GWGW2023 Dup	GWDOE012	GWGW2024
		Date	02/06/06	06/02/06	06/02/06	06/02/06	06/02/06	06/15/06	06/01/06
AnalyteNameShort	CRDL	UnitsID							
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	**501**	NS	NS	**794**	**788**	NS	NS
CHLORIDE (AS CL)	1	MG/L	**41.8**	NS	NS	**11.2**	**11.2**	NS	NS
NITRATE AS NITROGEN	0.1	MG/L	**34.5 J**	**35.8 J**	**34.6 J**	**18.8 J**	**18.8 J**	NS	**9.66 J**
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	**50.9**	NS	NS	**67.1**	**66.7**	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**838**	**899**	**896**	**1070**	**1030**	NS	**541**
TOTAL ORGANIC CARBON	1	MG/L	**2.22**	NS	NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	NS	NS	NS	NS	NS

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J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
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APPENDIX F
WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
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AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	UCD2-007 GWDOE013 06/13/06	UCD2-007 GWDOE014 06/13/06	UCD2-014 GWGW2025 05/18/06	UCD2-015 GWGW2026 05/19/06	UCD2-016 GWGW2027 05/19/06	UCD2-017 GWGW2028 05/18/06	UCD2-026 GWGW2029 06/01/06	UCD2-029 GWGW2030 05/25/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L		NS	NS	**4.88**	**1.4**	**7.14**	**1.6**	**4.73**	**4.69 J**
OIL & GREASE, TOTAL REC	2	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L		NS	NS	**818**	**442**	**530**	**440**	**548**	**484**
TOTAL ORGANIC CARBON	1	MG/L		NS	NS	NS	NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L		NS	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
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APPENDIX F
WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
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		Location	UCD2-030	UCD2-031	UCD2-032	UCD2-035	UCD2-036	UCD2-037	UCD2-038
		Sample ID	GWGW2031	GWGW2032	GWGW2033	GWGW2034	GWGW2035	GWGW2036	GWGW2037
		Date	05/25/06	06/02/06	05/25/06	05/19/06	05/31/06	05/19/06	05/19/06
AnalyteNameShort	CRDL	UnitsID							
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L	**3.6 J**	**3.96**	**5.15 J**	**0.599**	**4.65**	**2.19**	**0.917**
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**468**	**486**	**486**	**392**	**507**	**446**	**414**
TOTAL ORGANIC CARBON	1	MG/L	NS	NS	NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
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APPENDIX F
WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
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		Location	UCD2-039	UCD2-040	UCD2-045	UCD2-046	UCD2-046	UCD2-048	UCD4-041
		Sample ID	GWGW2038	GWGW2039	GWGW2040	GWGW2041	GWGW2042 Dup	GWGW2043	GWGW2044
		Date	05/22/06	05/23/06	05/24/06	05/18/06	05/18/06	05/17/06	05/23/06
AnalyteNameShort	CRDL	UnitsID							
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L	NS	NS	NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L	NS	NS	NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L	**1.42**	**9.3**	**6.85**	**11.5 J**	**11.3 J**	**2.3**	**2.55**
OIL & GREASE, TOTAL REC	2	MG/L	NS	NS	NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L	NS	NS	NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L	**429**	**534**	**543**	**730**	**725**	**464**	**438**
TOTAL ORGANIC CARBON	1	MG/L	NS	NS	NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L	NS	NS	NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
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APPENDIX F
WET CHEMISTRY - GROUNDWATER, STORMWATER, AND SURFACE WATER
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AnalyteNameShort	CRDL	UnitsID	Location Sample ID Date	UCD4-042 GWGW2045 05/24/06	UCD4-043 GWGW2046 05/24/06	UCD4-044 GWGW2047 05/26/06	UCD4-047 GWGW2048 05/18/06	UCD4-047 GWGW2049 Dup 05/18/06
ALKALINITY, TOTAL (AS CaCO3)	10	MG/L		NS	NS	NS	NS	NS
CHLORIDE (AS CL)	1	MG/L		NS	NS	NS	NS	NS
NITRATE AS NITROGEN	0.1	MG/L		**2.21**	**2.33**	**2.84**	**9.19**	**9.18**
OIL & GREASE, TOTAL REC	2	MG/L		NS	NS	NS	NS	NS
SULFATE (AS SO4)	1	MG/L		NS	NS	NS	NS	NS
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	20	MG/L		**436**	**434**	**451**	**574**	**574**
TOTAL ORGANIC CARBON	1	MG/L		NS	NS	NS	NS	NS
TOTAL SUSPENDED SOLIDS		MG/L		NS	NS	NS	NS	NS

NS - Not Sampled
J - Validation qualifier for estimated value; Sample exceeds quantitation range
UJ - Estimated value falls below reporting limit.
Results in **BOLD** indicate detections above the CRDL.

APPENDIX F
AQUATIC TOXICITY - GROUNDWATER, STORMWATER, AND SURFACE WATER
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
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Acute Aquatic Toxicity Analysis	Location	LF-01	LF-01	LS-01	LS-01	LS-01	LS-01
	Sample ID	STMW0137	STMW0139	RWSW0040	RWSW0041 Dup	RWSW0042	RWSW0043 Dup
	Date	04/04/06	11/02/06	02/27/06	02/27/06	12/13/06	12/13/06
AnalyteNameShort	UnitsID						
PIMEPHALIS SPECIES - SURVIVAL	% Survival	100 N	100 N	95 N	90 N	100 N	100 N

Chronic Aquatic Toxicity Analysis	Location	PCD	PCD	PCU	PCU
	Sample ID	SWSW0281	SWSW0283	SWSW0280	SWSW0285
	Date	03/21/06	11/03/06	03/21/06	11/03/06
AnalyteNameShort	UnitsID				
CERIODAPHINA SPECIES - SURVIVAL	NOEC	100%	100%	100%	100%
CERIODAPHNIA SPECIES - REPRODUCTION	NOEC	100%	100%	100%	100%
PIMEPHALIS SPECIES - GROWTH	NOEC	100%	100%	50%	100%
PIMEPHALIS SPECIES - SURVIVAL	NOEC	50 %	100%	50%	100%
SELENASTRUM SPECIES - GROWTH	NOEC	100%	100%	100%	100%

NOEC - No Observed Effect Concentration. Result listed is the sample concentration in which no observable effect was noted during analysis; 100% is a non-diluted sample.
N - No toxicity; the % survival for the storm water sample was not significantly different from the % survival for the associated laboratory control.
T - Toxicity detected; the % survival for the storm water sample was significantly lower than the % survival for the associated laboratory control.

APPENDIX G

Analytical Results for 2006 DOE Groundwater Samples

APPENDIX G
METALS IN GROUNDWATER (Samples Collected by DOE)
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-004	UCD1-004	UCD1-005	UCD1-020	UCD1-020	UCD1-023	UCD1-024	UCD1-054	UCD2-007	UCD2-007	UCD2-015
		Sample ID	GWDOE001	GWDOE002	GWDOE003	GWDOE008	GWDOE009	GWDOE010	GWDOE011	GWDOE012	GWDOE013	GWDOE014	GWDOE015
		Date	06/14/06	Dup 06/14/06	06/14/06	06/14/06	Dup 06/14/06	06/14/06	06/13/06	06/15/06	06/13/06	06/13/06	06/14/06
AnalyteNameShort	CRDL	UnitsID											
Aluminum		mg/L	NS	NS	< 0.015	< 0.015	NS	NS	< 0.015	NS	< 0.015	< 0.015	NS
Chromium	0.01	mg/L	NS	NS	NS	**0.071**	**0.067**	NS	**0.072**	**0.013**	**0.1**	**0.1**	NS
CHROMIUM, HEXAVALENT		mg/L	NS	NS	NS	NS	NS	NS	NS	< 0.01	**0.061**	**0.062**	NS
Mercury	0.0002	mg/L	< 0.1	NS	NS	NS	NS	< 0.1	NS	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	0.01	mg/L	NS	NS	NS	NS	NS	NS	< 0.09	**4**	**2.1**	< 0.09	NS
Nickel	0.02	mg/L	NS	NS	NS	**2.6**	NS	NS	**4.3**	NS	**3.2**	**3.3**	NS
Selenium	0.003	mg/L	NS	NS	NS	**5**	NS	NS	**3.6**	NS	**3.2**	**4.3**	NS
Silver	0.01	mg/L	NS	NS	NS	NS	NS	NS	< 0.02	2.5 J	< 0.02	< 0.02	NS
Zinc	0.02	mg/L	**57 J**	**17 J**	NS	NS	NS	**6.4**	NS	NS	NS	NS	**23**

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value.
UJ - Non-detect with an estimated detection limit.

APPENDIX G
RADS IN GROUNDWATER (Samples Collected by DOE)
Groundwater Treatment System and Water Monitoring Report
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		Location	UCD1-004	UCD1-004	UCD1-005	UCD1-006	UCD1-018	UCD1-023	UCD1-024	UCD1-054	UCD2-007	UCD2-007
		Sample ID	GWDOE001	GWDOE002	GWDOE003	GWDOE004	GWDOE007	GWDOE010	GWDOE011	GWDOE012	GWDOE013	GWDOE014
		Date	06/14/06	Dup 06/14/06	06/14/06	06/15/06	06/15/06	06/14/06	06/13/06	06/15/06	06/13/06	06/13/06
AnalyteNameShort	CRDL	UnitsID										
Americium-241	1	PCI/L	NS	NS	< 0.1	< 0.0741	< 0.0665	NS	NS	NS	< 0.228	< 0.0645
Carbon-14	20	PCI/L	< 34.9	< 32.9	< 33.1	< 33.1	NS	< 32.8	< 32.1	NS	NS	NS
Cesium-137	10	PCI/L	NS	NS	NS	NS	< 4.53	NS	NS	< 3.21	< 2.84	< 3.37
Radium-226	1	PCI/L	NS	NS	< 0.306	< 0.325	< 0.351	NS	NS		< 0.302	< 0.319
Strontium-90	1	PCI/L	NS	NS	NS	NS	< 1.01	NS	NS	< 1.01	< 0.668	< 0.821

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value.
UJ - Non-detect with an estimated detection limit.

APPENDIX G
WET CHEMISTRY IN GROUNDWATER (Samples Collected by DOE)
Groundwater Treatment System and Water Monitoring Report
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		Location	UCD1-004	UCD1-004	UCD1-005	UCD1-006	UCD1-023	UCD1-024	UCD1-054	UCD2-007	UCD2-007
		Sample ID	GWDOE001	GWDOE002 Dup	GWDOE003	GWDOE004	GWDOE010	GWDOE011	GWDOE012	GWDOE013	GWDOE014
		Date	06/14/06	06/14/06	06/14/06	06/15/06	06/14/06	06/13/06	06/15/06	06/13/06	06/13/06
AnalyteNameShort	CRDL	UnitsID									
NITRATE AS N		mg/L	**1.5**	**1.5**	**18**	**43**	**0.7**	**17**	NS	NS	NS

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value.
UJ - Non-detect with an estimated detection limit.

APPENDIX G
PESTICIDES IN GROUNDWATER (Samples Collected by DOE)
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
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		Location	UCD1-013	UCD1-013
		Sample ID	GWDOE005	GWDOE006 Dup
		Date	06/13/06	06/13/06
AnalyteNameShort	CRDL	UnitsID		
ALDRIN	0.01	UG/L	< 0.0031	< 0.0031
Alpha-BHC		UG/L	< 0.0041	< 0.0042
ALPHA-CHLORDANE	0.01	UG/L	< 0.002	< 0.0021
Beta-BHC		UG/L	< 0.0041	< 0.0042
BHC, DELTA ISOMER		UG/L	< 0.0051	< 0.0052
BHC, GAMMA ISOMER		UG/L	< 0.0041	< 0.0042
CHLORDANE		UG/L	< 0.3	< 0.31
DIELDRIN	0.02	UG/L	< 0.002	< 0.0021
ENDOSULFAN I		UG/L	< 0.0041	< 0.0042
ENDOSULFAN II		UG/L	< 0.002	< 0.0021
ENDOSULFAN SULFATE	0.02	UG/L	< 0.0041	< 0.0042
ENDRIN	0.02	UG/L	< 0.0051	< 0.0052
ENDRIN ALDEHYDE	0.02	UG/L	< 0.0082	< 0.0083
ENDRIN KETONE	0.02	UG/L	< 0.0031	< 0.0031
GAMMA-CHLORDANE	0.01	UG/L	< 0.0031	< 0.0031
HEPTACHLOR	0.01	UG/L	< 0.0031	< 0.0031
Heptachlor Epoxide	0.01	UG/L	< 0.0031	< 0.0031
METHOXYCHLOR	0.1	UG/L	< 0.002	< 0.0021
P,P'-DDD		UG/L	< 0.0031	< 0.0031
P,P'-DDE		UG/L	< 0.002	< 0.0021
P,P'-DDT		UG/L	< 0.0031	< 0.0031
TOXAPHENE	1	UG/L	< 0.21	< 0.21

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value.
UJ - Non-detect with an estimated detection limit.

APPENDIX G
FORMALDEHYDE IN GROUNDWATER (Samples Collected by DOE)
Groundwater Treatment System and Water Monitoring Report
LEHR/SCDS Environmental Restoration
Davis, California

		Location	UCD1-018	UCD1-024	UCD2-007	UCD2-007
		Sample ID	GWDOE007	GWDOE011	GWDOE013	GWDOE014
		Date	06/15/06	06/13/06	06/13/06	06/13/06
AnalyteNameShort	CRDL	UnitsID				
FORMALDEHYDE		UG/L	< 8.1	< 8.1	< 8.1	< 8.1

NS - Not Sampled
Results in **BOLD** indicate detections above the CRDL.
J - Validation qualifier for estimated value.
UJ - Non-detect with an estimated detection limit.