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1999 Annual Groundwater Treatment System and Water Monitoring Report

UNIVERSITY OF CALIFORNIA, DAVIS

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March 9, 2000

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Re: 1999 Annual Groundwater Treatment System and Water Monitoring Report

Dear Ms. Timm, Mr. Austin, Mr. Yin, and Ms. Setian:

Enclosed please find one copy of the 1999 Annual Groundwater Treatment System and Water Monitoring Report for the LEHR/SCDS Site. This report presents treatment system influent and effluent, groundwater, storm water, and surface water monitoring data collected in 1999.

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If you have any questions about the enclosed document, please call me at (530) 752-6041, or write me at the following address:

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Brian Oatman
LEHR/SCDS Project Manager

Attachments: 1999 Annual Groundwater Treatment System and Water Monitoring Report

cc: Susan Fields, DOE
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1999 ANNUAL GROUNDWATER TREATMENT SYSTEM AND WATER MONITORING REPORT LEHR/SCDS ENVIRONMENTAL RESTORATION DAVIS, CALIFORNIA

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LIST OF ACRONYMS AND ABBREVIATIONS

AOC	Administrative Order on Consent
CLP	USEPA Contract Laboratory Program
COCs	Constituents of Concern
CRDL	contract required detection limit
D	duplicate sample
DQO	data quality objective
EC	electrical conductivity
EE/CA	engineering evaluation/cost analysis
Eh	oxidation-reduction potential
EW	extraction well
F	fall quarter
FSO	full-scale operation
FSP	Final Draft Field Sampling Plan (Dames & Moore, 1998a)
GEL	General Engineering Laboratories, Inc.
HSU	hydrostratigraphic unit
IRA	Interim Remedial Action
IW	injection well
LEHR	Laboratory for Energy-Related Health Research
LF-1	Landfill Unit #1 (storm water sampling location)
LF-3	Landfill Unit #3 (storm water sampling location)
LS-1	lift station (storm water sampling location)
M	monthly
MDA	minimum detectable activity
mg/L	milligrams per liter
MOA	Memorandum of Agreement
MS/MSD	matrix spike/matrix spike duplicate
MSLD	mean sea level datum
mV	millivolts
NA	not analyzed
ND	not detected
NOEC	no observed effect concentration
NR	not required
PARCC	precision, accuracy, representativeness, completeness, and comparability
PCB	polychlorinated biphenyls
PCD	Putah Creek Downstream (surface water sampling location)
PCU	Putah Creek Upstream (surface water sampling location)
PC2	Putah Creek 2 (surface water sampling location, 2 miles downstream)

pCi/L	picocuries per liter
QA	quality assurance
QAPjP	quality assurance project plan
QC	quality control
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
RPD	relative percent difference
RPM	Remedial Project Managers
SCDS	South Campus Disposal Site
Sp	spring quarter
STPO	UC Davis wastewater treatment plant outfall (surface water sampling location)
Su	summer quarter
SVOC	semivolatile organic compound
TDS	total dissolved solids
TOC	total organic carbon
UCD	University of California, Davis
UC Davis	University of California, Davis
µg/L	micrograms per liter
µS/cm	micro-Siemens per centimeter
US DOE	United States Department of Energy
US EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VOC	volatile organic compound
W	winter quarter
WDRs	Waste Discharge Requirements

1999 ANNUAL GROUNDWATER TREATMENT SYSTEM AND WATER MONITORING REPORT LEHR/SCDS ENVIRONMENTAL RESTORATION DAVIS, CALIFORNIA

0.0 EXECUTIVE SUMMARY

This 1999 Annual Groundwater Treatment System and Water Monitoring Report (Annual Report) presents the results of the 1999 groundwater treatment system and water monitoring programs conducted at the former Laboratory for Energy-related Research facility and South Campus Disposal Site (LEHR/SCDS) (the Site) located at the University of California, Davis (UC Davis). Sampling and analysis for both monitoring programs were performed in accordance with the Final Revised Field Sampling Plan (Dames & Moore, 1998a) and Waste Discharge Order 97-223 Requirements (CVRWQCB, 1997).

The purpose of monitoring the groundwater Interim Removal Action (IRA) (treatment system) is to evaluate the effectiveness and progress of the groundwater extraction and treatment. The purpose of the water monitoring program at the Site is to monitor the presence or absence of constituents of concern (COCs) in groundwater, surface water, and storm water, and to track changes in COCs over time. Site COCs include: chloroform and associated volatile organic compounds (VOCs); chromium; nitrate; total dissolved solids (TDS); tritium; and carbon-14.

The 1999 treatment system monitoring program consisted of collecting monthly samples of treatment system influent and effluent and groundwater. The 1999 water monitoring program consisted of collecting quarterly samples of groundwater and seasonal samples of storm water runoff and surface water. Groundwater monitoring consisted of collecting 123 samples from 37 monitoring wells. Storm water monitoring consisted of collecting eight samples from three storm water runoff locations. Surface water monitoring consisted of collecting 14 samples from four surface water sampling locations.

Changes to the Monitoring Program in 1999

During 1999, two changes were made to the water monitoring program. The first change moved the annual sampling round from winter quarter to spring quarter. The second change included revising the groundwater monitoring program to focus on the six Site COCs and on wells that most effectively monitor these constituents.

Treatment System Results

The treatment system operated 94% of the time in 1999. Eighteen shutdowns occurred due to power outages, manual shutdowns for maintenance, and automatic shutdowns (due to automatic controls that monitor tank levels). During 1999, flow from the extraction well (EW2-1) varied from approximately 120 gallons per minute (gpm) in the winter to approximately 180 gpm in the summer, as designed in the Engineering Evaluation/Cost Analysis (Dames & Moore, 1997). Approximately 22.3 pounds of chloroform were removed from groundwater in 1999.

Chloroform and other VOCs are reported in influent samples, but are not reported above the contract required detection limit (CRDL) in 1999 effluent samples. Carbon-14 and tritium are not reported above the CRDL in 1999 influent samples, with the exception of one anomalous result of carbon-14 at 42.3±6.22 pCi/L. Nitrate and TDS concentrations within the capture zone appear to be increasing, and effluent concentrations of these two constituents exceed the discharge limits stated in the WDRs. This issue is being addressed by both short-term and long-term treatment system modifications (UC Davis, 2000a and 2000b).

Water Monitoring Results

Monitoring results from HSU-1, HSU-2, and HSU-4 groundwater, storm water, and surface water suggest the following:

- Chloroform concentration is declining in HSU-1 wells. The chloroform plume in HSU-2 is being contained and treated by the IRA. Well 22N, thought to be a conduit for chloroform to migrate from HSU-2 to HSU-4, was abandoned in January 1999. After well 22N was abandoned, the 1999 HSU-4 monitoring results show a sharp and consistent reduction in chloroform concentrations approaching the detection limit in all HSU-4 wells.

- In 1999, concentrations of nitrogen, TDS, and chromium appear to be stable in HSU-1. Concentrations of these constituents are increasing in HSU-2 within the IRA capture zone due to the operation of the IRA drawing constituents from HSU-1 to HSU-2. The 1999 HSU-4 data show a reduction in nitrate, TDS, and chromium concentrations, following the abandonment of well 22N.

- In 1999, carbon-14 and tritium activities continue to be localized and occur primarily in one well pair, UCD1-13/UCD2-14. No reported detections of these constituents are present in HSU-4 wells.

- Aside from the COCs discussed, the few reported detections of metals, general chemicals, VOCs, and radionuclides above background support the focus of the revised groundwater monitoring program on the COCs.

- The 1999 surface water and storm water data continue to support the conclusion that COC concentrations are either not detected (chloroform, tritium, carbon-14) or are consistent with regional background supported by previous results (TDS, nitrate, and chromium).

Recommendations

UC Davis recommends the continued operation of the IRA treatment system because monitoring results indicate that the chloroform plume is being captured. Chloroform concentrations at the toe of the plume are declining, and chloroform is being removed at a rate of approximately 24 pounds per year (based on 20 months of FSO data), supporting a recommendation to continue operating the groundwater IRA treatment system. Increasing concentrations in TDS and nitrate as nitrogen within the capture zone support continuing short-term and potentially long-term IRA enhancements.

The current monitoring program that includes groundwater, surface water and storm water is adequate to evaluate COCs. Additional wells planned for monitoring HSU-2 and HSU-4 should provide additional data to evaluate whether chloroform in groundwater is being contained, especially after irrigation well 22N (that served as a conduit to carry VOCs from HSU-2 to HSU-4) was abandoned.

Site Information Sources

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

Brian Oatman – UC Davis Project Manager	(530) 752-6041
Susan Fields – DOE Project Manager	(510) 637-1608

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

UC Davis Shields Library, Reserve Desk
University of California
Davis, California
(530) 752-1203

Yolo County Public Library, Davis Branch
Reference Desk
315 14th Street
Davis, California
(530) 756-2332

Additional information is also available on the Internet at:

www.ehs.ucdavis.edu/envrprot/lehr.html

1999 ANNUAL GROUNDWATER TREATMENT SYSTEM AND WATER MONITORING REPORT LEHR/SCDS ENVIRONMENTAL RESTORATION DAVIS, CALIFORNIA

1.0 INTRODUCTION

This 1999 Annual Groundwater Treatment System and Water Monitoring Report (Annual Report) presents the results of the 1999 groundwater treatment system and water monitoring programs conducted at the former Laboratory for Energy-related Research facility and South Campus Disposal Site (LEHR/SCDS) (the Site) located at the University of California, Davis (UC Davis).

Previous water monitoring reports have been presented separately from groundwater treatment system reports. However, due to the similarity of the groundwater monitoring included in these programs, the results of these two monitoring reports have been combined into this Annual Report. This report presents monitoring data for 1999, including Fall Quarter 1999 and December Monthly 1999 results, which had not been previously reported.

The treatment system monitoring program consists of monthly sampling of influent, effluent, and groundwater. The water monitoring program consists of quarterly sampling of groundwater and seasonal sampling of storm water runoff and surface water. Sampling and analysis for both programs were performed in accordance with the Final Revised Field Sampling Plan (FSP) (Dames & Moore, 1998a), Waste Discharge Order 97-223 Requirements (WDRs) (CVRWQCB, 1997), the Final Revised Quality Assurance Project Plan (QAPjP) (Dames & Moore, 1998b), and the Administrative Order on Consent (AOC) (US EPA, 1999).

1.1 Purpose and Objectives

The purpose of monitoring the groundwater Interim Removal Action (IRA) (treatment system) is to evaluate the effectiveness and progress of the groundwater extraction and treatment. The purpose of the water monitoring program at the Site is to monitor the presence or absence of constituents of concern (COCs) in groundwater, surface water, and storm water, and to track changes in COCs over time. The objectives of this Annual Report are to:

- Present and evaluate 1999 monitoring data for treatment system influent and effluent, groundwater, surface water, and storm water;

- Evaluate the effectiveness of the treatment system in capturing and treating chloroform and other COCs in HSU-2 groundwater;

- Identify data gaps and deficiencies, and propose changes to the monitoring programs (if appropriate); and

- Provide data to support the development and implementation of soil and groundwater remediation strategies.

1.2 Project Overview

The Site is located in Solano County, California, approximately 1.5 miles south of the main UC Davis campus and the City of Davis (Figure 1). The Site encompasses approximately 15 acres and is bounded by UC Davis research and agricultural facilities, private farmland, and the South Fork of Putah Creek. The Site consists of landfills, subsurface disposal areas, and waste treatment systems.

Responsibility for investigation and remediation of the Site has been divided between the US Department of Energy (US DOE) and UC Davis by investigation area (Figure 2). As documented in the Memorandum of Agreement (MOA), UC Davis has agreed to take the lead role in Site groundwater investigation and remediation. To date, UC Davis operates a groundwater treatment system, which began full-scale operation (FSO) on May 11, 1998, and monitors groundwater, surface water, and storm water runoff from UC Davis investigation areas. The focus of the water monitoring program includes six COCs. These COCs include: chloroform and associated volatile organic compounds (VOCs); chromium; nitrate; total dissolved solids (TDS); tritium; and carbon-14.

2.0 METHODS

This section summarizes the monitoring locations, frequency, and analytes for the 1999 groundwater treatment system and water monitoring programs. The monitoring parameters and schedule for these two programs are presented in the WDRs (CVRWQCB, 1997) and the FSP (Dames & Moore, 1998a). A general Site plan of the groundwater treatment system is presented as Figure 3. Maps showing groundwater, surface water, and storm water monitoring locations are presented as Figures 4 and 5. This section also describes the approved changes to the water monitoring program implemented in May and September 1999.

2.1 Groundwater Treatment System Monitoring Program

The 1999 treatment system monitoring program consisted of monthly influent and effluent sampling for Site COCs and measured field parameters, as specified in the WDRs

(CVRWQCB, 1997). Effluent samples were also collected on a weekly basis during 1999 and analyzed for nitrate as nitrogen and TDS, due to increasing concentration trends of these parameters in effluent samples.

Treatment system monitoring also consists of sampling seventeen groundwater wells to assess HSU-1 and HSU-2 conditions adjacent to the treatment system. Ten wells are sampled monthly, including: UCD1-28, UCD2-29, UCD2-30, UCD2-31, UCD2-35, UCD2-36, UCD2-37, UCD2-38, UCD2-39, and UCD2-40. Seven additional wells are sampled quarterly, including: UCD2-7, UCD2-14, UCD2-15, UCD2-16, UCD2-17, UCD2-26, and UCD2-32. Samples are analyzed for the six Site COCs and field parameters. Water level measurements from extraction well EW2-1 and injection well IW2-1 and treatment system operational data are collected monthly.

During monthly sampling activities, samples are shipped daily via Federal Express for overnight delivery to General Engineering Laboratories (GEL) in Charleston, South Carolina. Immediately upon receipt of the sample shipment, the laboratory documents the condition of the sample containers on the chain-of-custody forms and faxes a copy of the chain-of-custody form to the task manager. Weekly samples for TDS and nitrate as nitrogen analyses are hand-delivered to Quanterra Environmental Services in West Sacramento, California.

2.2 Water Monitoring Program

This section presents a discussion of the 1999 water monitoring program, which included sampling and analysis of groundwater, storm water, and surface water in and around the Site. A detailed discussion of sampling methods and standard operating procedures (SOPs) was presented in the FSP (Dames & Moore, 1998a).

During quarterly monitoring activities, groundwater, surface water, and storm water samples for organic, inorganic, and radionuclide analyses are shipped daily via Federal Express for overnight delivery to GEL in Charleston, South Carolina. Immediately upon receipt of the samples, the laboratory documents the condition of the sample containers on the chain-of-custody forms and faxes a copy of the chain-of-custody form to the task manager. Surface and storm water samples for aquatic toxicity analyses are delivered to the Aquatic Toxicity Laboratory on the UC Davis campus.

2.2.1 Groundwater Monitoring

The 1999 groundwater monitoring program consisted of collecting 123 samples (including 12 duplicate samples) from 37 monitoring wells in three hydrostratigraphic units (HSU-1, HSU-2, and HSU-4). Water levels were measured monthly in 43 monitoring wells. Table 1

presents monitoring well construction details. Table 2 defines the specific analytes that were monitored at each location in 1999 and Table 3 presents the analytical sampling methods used. Figure 4 presents monitoring well locations. Figure 6 provides a generalized hydrostratigraphic cross section of the Site hydrostratigraphic units.

The analytical program for groundwater samples was revised following a September 8, 1999 meeting with the Site Remedial Project Managers (RPMs). Samples collected in the Winter, Spring, and Summer quarters of 1999 were analyzed for organic, inorganic, and radionuclide compounds, as specified for each location in the FSP (Dames & Moore, 1998a). Most samples collected during Fall Quarter 1999 were analyzed for the six COCs, as specified in the Revised Groundwater Monitoring Well Network memorandum (UC Davis, 1999). Well UCD4-44 was analyzed for the full parameter list in the FSP, as required during the first four quarters of sampling a new well.

2.2.2 Storm Water Monitoring

The 1999 storm water monitoring program consisted of collecting eight samples from three storm water runoff locations. Table 2 defines the specific analytes for each storm water location in 1999. Figure 5 presents storm water runoff locations. In 1999, grab samples were collected during three rain events, in the Winter, Spring, and Fall quarters, using SOPs described in the FSP. The Winter and Spring samples represent the first and second samples of the 1998/1999 rainy season, and the Fall sample represents the first sample of the 1999/2000 rainy season. Samples were monitored for field parameters, aquatic toxicity, and organic, inorganic, and radionuclide compounds, as specified for each location in the FSP (Dames & Moore, 1998a).

2.2.3 Surface Water Monitoring

The 1999 surface water monitoring program consisted of collecting 14 samples (including two duplicates) from four surface water sampling locations. Table 2 defines the specific analytes for each surface water location in 1999. Figure 4 presents surface water sample locations along Putah Creek upstream and downstream. In 1999, grab samples were collected during three rain events, in the Winter, Spring, and Fall quarters, using SOPs described in the FSP (Dames & Moore, 1998a). The sampling events in the Spring and Fall quarters were conducted on the same day as storm water sampling.

2.3 Changes to the Program in 1999

During 1999, two changes were made to the water monitoring program. The first change moved the annual sampling round from winter quarter to spring quarter. This more

extensive, annual sampling round was moved in order to facilitate collection of samples from well locations that are difficult to access during the rainy season.

The second change included revising the groundwater monitoring program schedule and analyte list. In general, the revised program involves an increased focus on the six Site COCs and on wells that most effectively monitor these constituents. Three additional wells were planned for installation to monitor Site COCs off-Site and downgradient of Landfill Unit #3 (LFU #3). Several wells that have been extensively monitored and that have not shown significant detections or trends were removed from the routine groundwater sampling program. The revised groundwater monitoring program was documented in a letter to the RPMs dated November 22, 1999 (UC Davis, 1999a).

3.0 RESULTS

This section presents the results of sampling and operational data collected for the 1999 groundwater treatment system and water monitoring programs. Complete tables of analytical data collected in 1999 are provided in Appendix A and Appendix B. A quality assurance and quality control summary for the data presented in Appendices A and B is provided as Appendix C. Results for the 1999 monitoring programs include operational data for the treatment system, groundwater flow directions, and analytical data for treatment system influent and effluent, groundwater (HSU-1, HSU-2, and HSU-4), storm water, and surface water. Section 3.0 provides a brief summary of results that are discussed more thoroughly in Section 4.0.

3.1 Treatment System Operational Data Results

The treatment system operated 94% of the time in 1999. Appendix D presents a system operation log, and shows flow rates, volumes, and sampling times recorded for system operation during 1999. Eighteen shutdowns occurred due to power outages, manual shutdowns for maintenance, and automatic shutdowns (due to automatic controls that monitor tank levels). The power failures were due to problems associated with campus high-voltage lines.

During 1999, flow from the extraction well (EW2-1) varied from approximately 120 gpm in the winter to approximately 180 gpm in the summer, as designed in the EE/CA (Dames & Moore, 1997). Approximately 22.3 pounds of chloroform were removed from groundwater in 1999 (Table 4). A graph showing cumulative mass removal for chloroform is provided as Figure 7.

3.2 Treatment System Influent and Effluent Results

Treatment system influent samples for are analyzed for VOCs, tritium, carbon-14, and total organic carbon (TOC). Effluent samples are analyzed for VOCs, total chromium, hexavalent chromium, and nitrate as nitrogen. Complete analytical results and a description of reporting styles are provided in Appendix A. Graphs showing trends in concentration during 1999 are presented as Figures 8 and 9. A discussion of trends in treatment system samples is provided in Section 4.1.

COCs in Treatment System Influent and Effluent

For the Site COCs, treatment system influent and effluent results above the contract required detection limit (CRDL) are summarized below, with complete results presented in Appendix A:

- Influent chloroform concentrations range from 2.8 μg/L to 106 μg/L. Chloroform is not reported above the CRDL in effluent samples;
- Other influent VOCs (1,1-dichlorethane, 1,2-dichloroethane, and 1,2-dichloropropane) range from 0.53 μg/L to 1.1 μg/L;
- Total chromium and hexavalent chromium concentrations in effluent samples are similar and range from 16.8 μg/L to 28.0 μg/L;
- Nitrate as nitrogen concentrations in effluent samples range from 5.9 mg/L to 10.9 mg/L;
- TDS concentrations in effluent samples range from 465 mg/L to 558 mg/L; and
- One detection of carbon-14 is reported at 42.3±6.22 pCi/L in an influent sample. This reported carbon-14 result is not typical of 1999 data or historical data, and appears to be anomalous.

In addition to these reported detections, six influent and effluent results appear to be anomalous. These results include: 2-butanone (2.8 μg/L and 2.9 μg/L); 2-hexanone (2.7 μg/L and 2.8 μg/L); and 4-methyl-2-pentanone (3.9 μg/L and 4.1 μg/L). These six results are not typical of 1999 or historical data. Similarly, anomalous detections were reported in storm water samples during the same quarter, possibly indicating laboratory contamination. A data validation discussion is presented in Appendix C.

3.3 Groundwater Elevation Results

Groundwater elevations were measured monthly for HSU-1, HSU-2, and HSU-4 wells, and weekly for extraction well EW2-1 and injection well IW2-1. Monthly groundwater elevations for 1999 are presented in Table 5, and quarterly groundwater elevation contour

maps are presented in Figures 10 through 12. Weekly water levels were presented for January 1999 through November 1999 in the respectively Monthly Monitoring Reports.

In general, groundwater elevations and trends were consistent with 1998 data (UC Davis, 1999b). Average groundwater gradients in 1999 for HSU-1, HSU-2, and HSU-4 were approximately 0.023 feet/foot. Groundwater flow was generally to the north-northeast for HSU-1 and HSU-2. Flow in HSU-4 varied from northeast during the rainy season to south during the agricultural pumping/irrigation season. Based on well pairs, vertical groundwater gradients between HSU-1/HSU-2 and HSU-2/HSU-4 were downward during the agricultural pumping season, and relatively flat during the rainy season (Figure 13).

3.4 HSU-1 Results

HSU-1 groundwater samples for 1999 were analyzed for metals, general chemicals, VOCs, pesticides/PCBs, SVOCs, and radionuclides. Complete analytical results are provided in Appendix B. Graphs comparing concentration ranges of background well UCD1-18 to downgradient HSU-1 wells are presented in Appendix E. A discussion of trends and conditions in HSU-1 is provided in Section 4.2.

COCs in HSU-1 Samples

For the Site COCs, HSU-1 sample results above the CRDL are summarized below, with complete results presented in Appendix B. Figures 15 through 20 present COC concentration versus time graphs in selected HSU-1 wells.

- Chloroform concentrations range from 4,220 μg/L to 8,170 μg/L in UCD1-12 samples. Other reported detections of chloroform are below 3 μg/L, and are in wells UCD1-11, UCD1-21, and UCD1-25 (Figure 15);

- Carbon-14 activities in UCD1-12 and UCD1-13 samples range from 289±12.8 pCi/L to 1,380±28.1 pCi/L (Figure 16);

- Tritium activities in UCD1-13 samples range from 8,410±331 pCi/L to 14,700±325 pCi/L (Figure 17);

- Nitrate as nitrogen concentrations in HSU-1 well samples range from 0.23 mg/L to 81.0 mg/L (Figure 18);

- TDS concentrations in HSU-1 well samples range from 444 mg/L to 1,720 mg/L (Figure 19) ; and

- Total chromium and hexavalent chromium (Figure 20) concentrations in HSU-1 well samples are similar and range from 11.7 μg/L to 581 μg/L.

Other Constituents in HSU-1 Samples

For the remaining constituents, results are reported above the CRDL for metals, general chemicals, VOCs, and radionuclides. These results include: arsenic, selenium, vanadium, manganese, and zinc (3.5 μg/L to 20.9 μg/L); barium, iron, and nickel (46.5 μg/L to 654 μg/L), calcium, magnesium, and sodium (42,600 μg/L to 170,000 μg/L); chloride, sulfate, and TOC (1.0 mg/L to 58.9 mg/L); alkalinity (683 mg/L to 812 mg/L); 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, bromodichloromethane, and trichloroethene (0.5 μg/L to 20.2 μg/L in samples from well UCD1-12); and bismuth-214, gross alpha, gross beta, lead-214, and radium-226 (1.06±0.732 pCi/L to 35.4±6.53 pCi/L). No results are reported above the CRDL for semi-volatile organic compounds (SVOCs) or pesticides/polychlorinated biphenyls (PCBs) in 1999 HSU-1 samples.

Anomalous Results in HSU-1:

In addition, the laboratory reported three results that appear to be anomalous. These results include: 4-methyl-2-pentanone (1.2 μg/L); cesium-137 (57.5±8.49 pCi/L); and thorium-234 (263±215 pCi/L). 4-Methyl-2-pentanone is not typically reported at the Site, and is reported just above the detection limit of 1.0 μg/L. The detections for cesium-137 and thorium-234 are reported in duplicate pairs. Cesium-137 (-0.350±1.27 pCi/L and 57.5±8.49 pCi/L in the duplicate pair) and thorium-234 (0.00±127 pCi/L and 263±215 pCi/L in the duplicate pair) appear to be anomalous due to the inconsistencies in the duplicate samples. A data validation discussion is presented in Appendix C.

3.5 HSU-2 Results

HSU-2 groundwater collected in 1999 was analyzed for metals, general chemicals, VOCs, pesticides/PCBs, SVOCs, and radionuclides. Complete analytical results are provided in Appendix A. Graphs comparing concentration ranges of background well UCD2-17 to downgradient HSU-2 wells are presented in Appendix E. A discussion of trends and conditions in HSU-2 is provided in Section 4.3.

COCs in HSU-2 Samples

For the Site COCs, HSU-2 sample results above the CRDL are summarized below, with complete results presented in Appendix B. Figures 15 through 20 present COC concentration versus time graphs for selected HSU-2 wells:

- Chloroform concentrations for HSU-2 well samples range from 0.67 μg/L to 207 μg/L (Figure 15);

- Carbon-14 is reported above the CRDL in samples from five HSU-2 wells. Carbon-14 activities for UCD2-14 samples are typical of historical data (173±9.07 pCi/L to 581±15.0 pCi/L) (Figure 16), but appear to be anomalous in the four other wells;

- Tritium is reported above the CRDL in samples from two HSU-2 wells. Tritium activities for UCD2-14 samples are typical of historical data (504±126 pCi/L to 2,280±220 pCi/L) (Figure 17), but appear to be anomalous in well UCD2-35 (1,170±146 pCi/L);

- Nitrate as nitrogen concentrations for HSU-2 well samples range from 1.6 mg/L to 17.8 mg/L (Figure 18);

- TDS concentrations for HSU-2 well samples range from 408 mg/L to 924 mg/L (Figure 19); and

- Total chromium and hexavalent chromium (Figure 20) concentrations for HSU-2 well samples are similar and range from 10.0 μg/L to 93.2 μg/L.

Other Constituents in HSU-2 Samples

For the remaining constituents, results are reported above the CRDL for metals, general chemicals, VOCs, and radionuclides. These results include: arsenic, copper, selenium, vanadium, manganese, and zinc (3.0 μg/L to 45.3 μg/L); barium and iron (143 μg/L to 332 μg/L); calcium, magnesium, and sodium (29,500 μg/L to 81,000 μg/L); chloride, sulfate, and TOC (1.01 mg/L to 43.7 mg/L); alkalinity (301 mg/L to 391 mg/L); 1,1-dichloroethane, 1,1-dichloroethene, 1,2-dichloroethane, and 1,2-dichloropropane (0.51 μg/L to 3.0 μg/L in samples from wells UCD1-12 and UCD2-35); bismuth-214, gross alpha, gross beta, lead-214, and radium-226 (1.04±0.590 pCi/L to 53.5±5.01 pCi/L); and lead-210 (881±425 pCi/L). No results are above the CRDL for SVOCs or pesticides/PCBs.

3.6 HSU-4 Results

HSU-4 groundwater samples collected in 1999 were analyzed for metals, general chemicals, VOCs, pesticides/PCBs, SVOCs, and radionuclides. Complete analytical results are provided in Appendix A. Graphs comparing concentration ranges of background well UCD4-44 to downgradient HSU-4 wells are presented in Appendix E. A discussion of trends and conditions in HSU-4 is provided in Section 4.4.

COCs in HSU-4 Samples

For the Site COCs, HSU-4 sample results above the CRDL are summarized below, with complete results presented in Appendix B:

- Chloroform concentrations for HSU-4 well samples range from 1.8 μg/L to 19.1 μg/L;

- Total chromium and hexavalent chromium concentrations for HSU-4 well samples are similar and range from 17.5 μg/L to 88 μg/L;

- Nitrate as nitrogen concentrations for HSU-4 well samples range from 1.67 mg/L to 5.16 mg/L;

- TDS concentrations for HSU-4 well samples range from 387 mg/L to 510 mg/L; and

- Carbon-14 is reported at 32.8±5.12 pCi/L in a UCD4-41 sample. This reported carbon-14 result is not typical of 1999 data or historical data and appears to be anomalous.

Other Constituents in HSU-4 Samples

For the remaining constituents, results are reported above the CRDL for metals, general chemical, and radionuclides. These results include: arsenic, barium, iron, manganese, selenium, and vanadium (3.0 μg/L to 170 μg/L); calcium, magnesium, and sodium (31,100 μg/L to 72,100 μg/L); alkalinity (283 mg/L to 344 mg/L); chlorides, sulfate, and TOC (1.49 mg/L to 39 mg/L); lead-210 (452 pCi/L to 584 pCi/L); and bismuth-214, gross alpha, gross beta, lead-214, and radium-226 (1.26±0.644 pCi/L to 23.0±6.65 pCi/L). There are no detections above the CRDL for tritium, SVOCs, or pesticides/PCBs.

Anomalous Results in HSU-4 Samples

The laboratory reported two radionuclide results for HSU-4 samples that appear to be anomalous. Radium-226 (107±5.90 pCi/L) and plutonium (10.8±5.06 pCi/L) were reported in samples from upgradient well UCD4-44. Detections of these two radionuclides are not typical of 1999 data. A data validation discussion is presented in Appendix C.

3.7 Storm Water Results

Storm water samples for 1999 were analyzed for metals, general chemicals, VOCs, pesticides/PCBs, and radionuclides. Complete analytical results are provided in Appendix B. A discussion of trends and conditions in storm water is provided in Section 4.5.

COCs in Storm Water Samples

For the Site COCs, storm water sample results are summarized below, with complete results presented in Appendix B:

- Total chromium and hexavalent chromium concentrations for storm water samples are similar and range from <0.5 μg/L to 20.8 μg/L;

- Nitrate as nitrogen concentrations for storm water samples range from 0.317 mg/L to 5.09 mg/L;

- TDS concentrations for storm water samples range from 39 mg/L to 302 mg/L; and
- Carbon-14 and tritium are not reported above the CRDL in 1999 storm water samples.

Other Constituents in Storm Water Samples

For the remaining constituents, results are reported above the CRDL for metals, general chemicals, VOCs, and radionuclides. Acute aquatic toxicity results range from 87.5% to 100% survival for *Pimephalis* species fish in 100% concentration of sample water. Other results include: antimony, arsenic, barium, copper, lead, manganese, nickel, vanadium, and zinc (3.5 μg/L to 61.9 μg/L); iron (322 μg/L to 621 μg/L); aluminum, calcium, magnesium, and sodium (1,760 μg/L to 7,680 μg/L); alkalinity, chloride, sulfate, and TOC (2.29 mg/L to 20.0 mg/L); total suspended solids (41.8 mg/L to 119 mg/L); oil and grease (2.20 mg/L to 2.45 mg/L); acetone and toluene (4.1 μg/L to 8.1 μg/L in samples from LS-01); and gross beta and lead-214 (4.03±0.679 pCi/L to 11.0±5.78 pCi/L in samples from LS-01).

Anomalous results in Stormwater Samples

The laboratory reported four results that appear to be anomalous. These results include: iron (2,490 μg/L) and TOC (76.6 mg/L) from LF-03 samples; and 2-hexanone (1.1 μg/L) and 4-methyl-2-pentanone (1.3 μg/L) for LF-01 samples. Results for iron and TOC were an order of magnitude higher than other 1999 and historical results for LF-03. 2-Hexanone and 4-methyl-2-pentanone are not typically reported at the Site, and were reported just above the detection limit of 1.0 μg/L. Similar, apparently anomalous detections of these two VOCs were reported in treatment system influent and effluent samples during the same quarter, possibly indicating laboratory contamination. A data validation discussion is presented in Appendix C.

3.8 Surface Water Results

Surface water samples for 1999 were analyzed for metals, general chemicals, VOCs, pesticides/PCBs, and radionuclides. Complete analytical results are provided in Appendix A. Graphs comparing concentration ranges for upstream location PCU to downstream surface water locations (PCD and PC2) and the UC Davis Wastewater Treatment Plant Outfall are presented in Appendix D. A discussion of trends and conditions in surface water is provided in Section 4.6.

COCs in Surface Water Samples

For the Site COCs, surface water results are summarized below, with complete results presented in Appendix B:

- Chloroform concentrations for surface water samples with detections above the CRDL range from 1.8 μg/L to 19.4 μg/L;

- Nitrate as nitrogen concentrations for surface water samples with detections above the CRDL range from 0.222 mg/L to 10.4 mg/L;

- Total chromium and hexavalent chromium are not reported above the CRDL in 1999 surface water samples;

- TDS concentrations for surface water samples range from 171 mg/L to 630 mg/L;

- Carbon-14 activities are reported at 71.7±6.92 pCi/L in a sample from upstream surface water location PCU. However, this carbon-14 result is not typical of 1999 or historical data and appears to be anomalous; and

- Tritium is not reported above the CRDL in 1999 surface water samples.

Other Constituents in ~~Storm~~ Surface Water

For the remaining constituents, results are reported above the CRDL for metals, general chemicals, and VOCs. Chronic aquatic toxicity results range from 25% to 100% no observed effect concentration (NOEC). Other results include: arsenic, barium, copper, manganese, molybdenum, vanadium, and zinc (3.0 μg/L to 112 μg/L); iron (105 μg/L to 474 μg/L); acetone, bromodichloromethane, dibromochloromethane, and toluene (0.63 μg/L to 10.5 μg/L).

4.0 DISCUSSION

This section presents a discussion of the results from the 1999 Treatment System Monitoring Program and the 1999 Water Monitoring Program. The 1999 data are evaluated in this section and compared with historic trends. In addition, this section identifies data gaps and/or redundancies, and provides recommendations to the monitoring program, where appropriate.

4.1 Treatment System Performance

The main purpose of the IRA system is to extract and treat chloroform in HSU-2 and gather data that will aid in the assessment of groundwater treatment effectiveness and the need for further groundwater remedial actions. A discussion of the 1999 treatment system performance is presented below. Additional discussion and data evaluation regarding chloroform in groundwater are presented in Sections 4.2, 4.3, and 4.4.

- The results presented in Section 3.0 demonstrate that the treatment system is capturing the chloroform plume (Figure 14), and approximately 41 pounds of chloroform have

been removed from HSU-2 since the system began operation in 1998 (Table 4). Based on 20 months of FSO, the mass removal rate is approximately 24 pounds per year. In addition, the treatment system is recapturing 70% to 90% of injected water, as designed in the EE/CA (Dames & Moore, 1997).

- Currently, the monitoring well network provides sufficient water level and chemical data. The Annual Groundwater IRA Treatment System Report (Dames & Moore, 1999) recommended the installation of a new well in the southeastern corner of the Site. Well UCD2-45 was installed downgradient of Landfill Unit #3 on November 30, 1999. Although UCD2-45 was not placed in an ideal location to monitor treatment system performance, data from this well will be evaluated to determine whether it is useful in monitoring treatment system performance.

- The WDRs require an estimate of the time required to complete HSU-2 groundwater cleanup. Based on an average chloroform mass removal rate of 24 pounds per year (based on the first 20 months of FSO), and an initial chloroform mass of 400 pounds UC Davis 1999a), groundwater cleanup could be completed in 10 to 20 years.

- TDS and nitrate as nitrogen concentrations within the capture zone are increasing, and effluent concentrations exceed the discharge limits stated in the WDRs. This issue is currently being addressed in several ways: weekly effluent samples are being collected for nitrate as nitrogen and TDS to monitor concentrations; short-term IRA enhancements are being implemented (UC Davis, 2000a); and long-term treatment/discharge alternatives are being evaluated (UC Davis, 2000b). Short-term IRA enhancements that are being implemented include: reducing the extraction flow rate; evaluating HSU-2 background concentrations; and mixing and reinjection. Long-term treatment/discharge alternatives that are being evaluated include: reverse osmosis; ion exchange; discharge to the UC Davis Waste Water Treatment Plant; discharge to the North Fork of Putah Creek; irrigation to agricultural land; irrigation for riparian habitat; mixing and reinjection; constructed wetlands; and no action/administrative controls.

4.2 HSU-1 Groundwater Conditions

The groundwater monitoring results from HSU-1 wells suggest the following trends:

- Concentrations of chloroform continue to decrease in UCD1-12 in 1999 (Figure 15), indicating transport from HSU-1 to HSU-2.

- Concentrations of carbon-14 and tritium continue to decrease in UCD1-13 in 1999 (Figures 16 and 17), indicating transport from HSU-1.

- Concentrations of nitrate, TDS, and chromium in HSU-1 appear to be relatively unchanged compared with previous results (Figures 18 through 20).

- The lack of detections of SVOCs, pesticides/PCBs, VOCs other than chloroform, and consistent trends for metals, general chemicals and radionuclides (Figures 21 through 26) support the revised monitoring program for HSU-1 that focuses on monitoring for COCs.

4.3 HSU-2 Groundwater Conditions

The groundwater monitoring results from HSU-2 wells suggest the following:

- The HSU-2 chloroform plume is laterally contained. This is shown in the decreasing chloroform concentrations in wells UCD2-26, UCD2-31, UCD2-32, and UCD2-39 (Figure 15);

- The toe of the chloroform plume (downgradient of extraction well EW2-1) has been captured, as evidenced by reducing concentration trends for chloroform in wells UCD2-30, and especially UCD2-32 and UCD2-40 (Figure 14).

- The presence of a chloroform source would explain the chloroform concentrations greater than 100 μg/L in well UCD2-29 (Figure 15).

- Concentrations of carbon-14 and tritium are stable in well UCD2-14 (Figures 16 and 17). Considering that carbon-14 and tritium results are declining in nearby HSU-1 well UCD1-13, mass loading of carbon-14 and tritium from HSU-1 to HSU-2 is not enough to increase results of these constituents in HSU-2.

- Concentrations of nitrate, TDS, and chromium appear to be increasing within the capture zone of the IRA treatment system (Figures 18 through 20).

- The lack of detections of SVOCs, pesticides, PCBs, VOCs other than chloroform and the consistent trends for metals, general chemicals and radionuclides (Figures 27 through 32), support the revised monitoring program for HSU-2 that focuses on monitoring for COCs (UC Davis, 1999a).

4.4 HSU-4 Groundwater Conditions

HSU-4 is monitored to assess VOC impacts to HSU-4. The irrigation well that served as a conduit to carry VOCs from HSU-2 to HSU-4 was abandoned in January 1999. Additionally, HSU-4 background well UCD4-44 was installed on April 7, 1999 upgradient of the abandoned conduit. Conclusions based on 1999 data are presented below.

- SVOCs and pesticides/PCBs were not reported above the detection limit for HSU-4 groundwater samples collected in 1999.

- After irrigation well 22N (the conduit to HSU-4 groundwater) was abandoned in January 1999, concentrations of Site COCs have decreased downgradient of well 22N (Figure 33).

- One new HSU-4 well was proposed at the September 8, 1999 Groundwater Working Session to monitor groundwater downgradient and off-Site. Well UCD4-47 will be installed in early 2000, after the rainy season.

4.5 Storm Water Conditions

Storm water is monitored to assess transport of site COCs to Putah Creek. Conclusions based on 1999 data are presented below.

- Chloroform has not been reported above the CRDL in storm water samples collected from the Site in 1997, 1998, or 1999.
- Carbon-14 was reported in one sample slightly above the minimum detectable activity (MDA) in 1997, but not in 1998 or 1999.
- Tritium has not been reported above the MDA in storm water samples collected from the Site in 1997, 1998, or 1999.
- Concentrations of the other COCs (nitrate, TDS, and chromium) in 1999 storm water samples were reported at similar concentrations compared with storm water samples from 1997 and 1998. These COCs were also reported at similar concentrations to the Putah Creek Upstream (PCU) surface water samples.
- Aquatic toxicity results indicate 87.5% to 100% survival of the fish species *Pimephalis*, which is similar to results for laboratory control samples.

4.6 Surface Water Conditions

Surface water is monitored to assess the mixing of Site storm water runoff with Putah Creek waters. Conclusions based on 1999 data are presented below.

- Concentrations of VOCs (chloroform, bromodichloromethane, dibromochloromethane, and toluene), nitrate as nitrogen, TDS, and several metals (molybdenum, vanadium, and zinc) were slightly elevated compared to upstream location PCU. Elevated compound concentrations were almost exclusively reported in samples from the UC Davis Wastewater Treatment Plant Outfall (Appendix D).
- Aquatic toxicity results indicated no observed effects on the mortality, reproduction, or growth using surface water samples downstream of the Site (PCD) and at the UC Davis Wastewater Treatment Plant Outfall (STPO). Samples from locations PCU and PC2 showed some indications of toxicity to the fish species *Pimephalis*. The PCU sample results report some aquatic toxicity in all three sampling events upstream of the Site. Two miles downstream of the Site at location PC2, aquatic toxicity to the fish species *Pimephalis* is reported in one of three sampling events. Results suggest lower frequency of observed toxicity downstream of the Site (PCD and PC2) compared to upstream of the Site (PCU).

5.0 RECOMMENDATIONS

This section provides recommendations regarding the adequacy of the groundwater treatment system and water monitoring programs, based on 1999 and historical data.

Recommendations regarding the adequacy of the monitoring programs are required by the WDRs (CVRWQCB, 1997) and the FSP (Dames & Moore, 1998a).

The IRA treatment system monitoring results indicate that the chloroform plume is being captured. Chloroform concentrations at the toe of the plume are declining, and chloroform is being removed at a rate of approximately 24 pounds per year (based on 20 months of FSO data), supporting a recommendation to continue operating the groundwater IRA treatment system. Increasing concentrations in TDS and nitrate as nitrogen within the capture zone support continuing short-term and potentially long-term IRA enhancements.

The current monitoring program that includes groundwater, surface water and storm water is adequate to evaluate COCs. Additional downgradient wells planned for monitoring HSU-2 and HSU-4 should provide additional data to evaluate whether chloroform in groundwater is being contained, especially after irrigation well 22N was abandoned.

6.0 REFERENCES

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

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

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UC Davis, 1999a. Revised Groundwater Monitoring Well Network letter to Ms. Susan Timm (Regional Water Quality Control Board), Mr. Duncan Austin (Department of Toxic Substances Control), Mr. Pete Patel (Department of Health Services), and Kathy Setian (U.S. Environmental Protection Agency). November 22.

UC Davis, 1999b. 1998 Annual Water Monitoring Report for Laboratory for Energy-related Health Research and South Campus Disposal Site. April 27.

UC Davis, 2000a. Short-term Modifications to the Groundwater IRA Treatment System. January 22.

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TABLE 1
SUMMARY OF WELL CONSTRUCTION DETAILS
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

Well Number	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)	Elevation Top of Well Cover (ft msl)	Elevation Ground Surface (ft msl)
UCD1-1	10/09/87	56.5	2	46.5-56.5	41-56.5	38-41	0-38	50.05	47.9
UCD1-2	Abandoned								
UCD1-3	10/23/87	51.5	2	39-49	34-51.5	(a)	0-34	50.05	48.2
UCD1-4	10/14/87	56.5	2	45-55	40-56.5	(a) 37-40	0-37	51.69	49.4
UCD1-5	10/22/87	48.5	2	38-48	33-48	(a)	0-33	48.44	48.4
UCD1-6	10/21/87	52.5	2	40-50	35-50	(a)	0-35	50.94	49.0
UCD2-7	11/05/87	90	2	80-90	75-90	(a)	0-75	51.65	49.3
UCD1-8	11/03/87	56	2	43.5-53.5	39-53.5	(a)	0-39	51.51	49.2
UCD1-9	11/04/87	51.5	2	40-50	35-50	(a)	0-35	51.38	49.0
UCD1-10	10/11/89	70	4	54-69	52-70	49-52	0-49	49.87	47.4
UCD1-11	10/17/89	66.5	4	50-65	47-66.5	44-47	0-44	50.67	47.6
UCD1-12	10/19/89	65	4	49.5-64.5	47-65	44-47	0-44	51.76	48.8
UCD1-13	10/26/89	65	4	50-65	47-65	44.5-47	0-44.5	52.19	49.2
UCD2-14	11/15/89	86	4	75-85	69-86	64-69	0-64	51.72	49.0
UCD2-15	03/28/90	120.5	4*	91-116	86-120.5	65-86	0-65	51.49	49.4
UCD2-16	04/04/90	122	4*	92-117	86-122	71-86	0-71	49.95	48.2
UCD2-17	04/10/90	143	4*	88-113	81-113	78-81	0-78	51.83	49.6
UCD1-18	10/04/90	70	4*	54-69	51-70	48-51	0-48	48.56	46.7
UCD1-19	10/01/90	74.5	4*	56.5-71.5	53.5-72.5	50.5- 53.5	0-50.5	51.33	49.3
UCD1-20	10/09/90	73.5	4*	57-72	54-73.5	51-54	0-51	49.78	48.0
UCD1-21	10/11/90	73.5	4*	57-72	54-73.5	51-54	0-51	48.77	48.7
UCD1-22	10/25/90	73	4*	57-72	54-73	51-54	0-51	49.07	49.0
UCD1-23	10/17/90	76.5	4*	56.5-71.5	53.5-73	50.5- 53.5	0-50.5	49.39	49.2
UCD1-24	10/22/90	73	4*	57-72	54-73	51-54	0-51	48.91	48.8
UCD1-25	10/06/95	75	4**	60-75	56.9-75	52-56.9	0.52	48.80	-
UCD2-26	10/06/95	102	4**	87-102	84-102	79-84	0-79	48.79	-
UCD1-27Z1	10/06/95	136	5**	53-55	51.5-57.5	49-51.5	0-49	47.79	-
UCD1-27Z2	10/06/95	136	5**	63-65	61.5-66.5	57.5-61.5	0-49	47.79	-
UCD1-27Z3	10/06/95	136	5**	73-75	71.5-76.5	66.5-71.5	0-49	47.79	-
UCD2-27Z4	10/06/95	136	5**	86-88	84.9-90	76.5-84.9	0-49	47.79	-
UCD2-27Z5	10/06/95	136	5**	96-98	94.5-100	90-94.5	0-49	47.79	-
UCD2-27Z6	10/06/95	136	5**	106-108	104.5-109.5	100-104.5	0-49	47.79	-

TABLE 1 (continued)
SUMMARY OF WELL CONSTRUCTION DETAILS
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

Well Number	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)	Elevation Top of Well Cover (ft msl)	Elevation Ground Surface (ft msl)
UCD2-27Z7	10/06/95	136	5**	116-118	114.5-119	109.5-114.5	0-49	47.79	-
UCD1-28	09/05/96	70	2*	53-68	51-70	47-51	0-47	50.34	48.1
UCD2-29	09/04/96	97	2*	80-95	76.7-97	72-76.7	0-72	50.32	48.1
UCD2-30	09/10/96	110	2*	95-110	91-110	89.5-91	0-89.5	49.83	47.6
UCD2-31	09/11/96	110	2*	94-109	91-110	87-91	0-87	49.86	47.5
UCD2-32	04/03/97	105	2*	83-103	81 -105	77-81	0-77	45.41	45.08
UCD4-33	Abandoned in May 1997 and replaced by UCD4-42								
UCD1-34	10/06/95	80	4**	61-76	57-76	50-57	0-50	55.70	-
UCD2-35	10/06/95	130	4**	107-122	103-122	98-103	0-98	55.71	-
UCD2-36	11/06/97	105	2*	82-102	79-105	73-79	0-73	48.31	-
UCD2-37	10/20/97	118.5	2*	94-114	91-118.5	85-91	0.85	49.63	-
UCD2-38	10/23/97	119	2*	95-115	89-95	83-89	0-83	57.20	-
UCD2-39	10/30/97	112	2*	87-107	84-112	80.5-84	0-81.5	49.63	47.4
UCD2-40	11/07/97	108.5	2*	86-106	83-108.5	78-83	0-78	48.98	46.5
UCD4-41	10/10/97	295	4*	257-277	253-280	248.5-253	0-248.5	49.37	47.0
UCD4-42	11/03/97	272	4*	248.5-268.5	245-269	240-245	0-246	47.22	47.0
UCD4-43	10/02/97	295	4*	248-268	242.5-274	233-242.5	0-237	45.06	44.52
UCD4-44	04/07/99	295	4*	246.5-266.5	242-273	237-242	0-237	50.58	-
UCD2-45	11/30/99	116	2*	93-113	89.5-113.5	84.5-89.5	0-84.5	-	-
EW2-1	09/20/96	125.65	8*	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	10*	84.5-119.5	80-126.5	75-80	0-75	49.39	-

Note: ft bgs feet below ground surface.
ft msl feet mean sea level datum.
* stainless steel, wire wrap screen.
** stainless steel, blank casing and wire wrap screen.
(a) Well constructed with #60 sand seal and no bentonite.

Table 2
1999 MONITORING PROGRAM
1999 Annual Report
LEHR/SCDS Environmental Restoration
Davis, California

		Radiological Analytes									Chemical Analytes														Bioassay	
Wells		Tritium	C-14	Gamma Spec	Gross Alpha	Gross Beta	Sr-90	Ra-226	Pu-241	Am-241	VOC	SVOC	Pesticides & PCBs	Metals	TOC	Nitrates (as N)	Hex Chrome (Cr+6)	Total Chrome	TDS	Alkalinity	TSS	Oil and Grease	Anions	Cations	Acute Aquatic Toxicity	Chronic Aquatic Toxicity
HSU-1	UCD1-1															Sp	Sp									
	UCD1-4	WSpSu		WSpSu	WSpSu	WSpSu	WSpSu	WSpSu			WSpSu	Sp	WSpSu	Sp	WSpSu	WSpSu	WSpSu	SpSu	WSpSu							
	UCD1-10	Sp		Sp	Sp	Sp					WSpSu	Sp	Sp	Sp	WSpSu	WSpSu	WSpSu	Sp	WSpSu							
	UCD1-11	Sp		Sp	Sp	Sp					Sp		Sp	Sp	Sp	Sp	Sp	Sp	Sp							
	UCD1-12	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu			WSpSu	Sp	WSpSu	Sp	WSpSu	WSpSu	WSpSu	Sp	WSpSu							
	UCD1-13	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu			WSpSu	Sp	WSpSu	Sp	WSpSu	Sp	WSpSu	SpSu	WSpSu							
	UCD1-18	Sp	WSp	Sp	Sp	Sp					Sp	Sp	Sp	Sp	WSp	Sp	Sp	Sp	WSp							
	UCD1-19	Sp		Sp	Sp	Sp					Sp		Sp	Sp	Sp	Sp	Sp	Sp	Sp							
	UCD1-20	Sp	Sp	Sp	Sp	Sp	Sp	Sp			Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp							
	UCD1-21	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp			Sp	Sp	Sp	Sp	Sp	Sp							
	UCD1-22	Sp		Sp	Sp	Sp	Sp	Sp	Sp	Sp					Sp				Sp							
	UCD1-23	Sp	Sp	Sp	Sp	Sp	Sp	Sp			Sp			Sp	Sp	Sp	Sp	Sp	Sp							
	UCD1-24	Sp	Sp	Sp	Sp	Sp	Sp	Sp			Sp		Sp	Sp	Sp	Sp	Sp	Sp	Sp							
	UCD1-25	WSpSu	WSpSu	Sp	Sp	Sp	Sp	Sp			WSpSu	Sp	Sp	Sp	Sp	wSp	WSp	Sp	Sp							
	UCD1-27Z3	Sp	Sp								Sp					Sp	Sp									
	UCD1-28	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
	UCD1-34	Sp	Sp	Sp	Sp	Sp	Sp	Sp			Sp	Sp	Sp	Sp	Sp	Sp	WSp	Sp	Sp							
HSU-2	UCD2-7	WSpSuF	WSpSuF	Sp	Sp	Sp	Sp	Sp			WSpSuF		Sp	Sp	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF							
	UCD2-14	WSpSuF	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu			WSpSuF	Sp	WSpSu	WSpSu	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF							
	UCD2-15	WSpSuF	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu			WSpSuF	Sp	WSpSu	Sp	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF							
	UCD2-16	WSpSuF	WSpSuF	Sp	Sp	Sp	Sp	Sp			WSpSuF			WSpSu	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF							
	UCD2-17	WSpSuF	WSpSuF	Sp	Sp	Sp					WSpSuF	Sp	Sp	Sp	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF							
	UCD2-26	WSpSuF	WSpSuF	Sp	Sp	Sp	Sp	Sp			WSpSuF	Sp	Sp	Sp	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF							
	UCD2-27Z5	Sp	Sp								Sp					Sp	Sp									
	UCD2-29	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
	UCD2-30	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
	UCD2-31	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
	UCD2-32	WSpSuF	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu			WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSuF	WSpSu	WspSuF	WSpSuF	WSpSu			WSpSu	WSpSu		
	UCD2-35	M	M	Sp	Sp	Sp	Sp	Sp			M	Sp	Sp	Sp	M	M	M	M	M							
	UCD2-36	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
	UCD2-37	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
	UCD2-38	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
	UCD2-39	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
	UCD2-40	M	M	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	M	WSpSu	WSpSu	WSpSu	M	M	M	M	M	WSpSu			WSpSu	WSpSu		
HSU-4	UCD4-41	WSpSuF	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF	WSpSu			WSpSu	WSpSu		
	UCD4-42	WSpSuF	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF	WSpSu			WSpSu	WSpSu		
	UCD4-43	WSpSuF	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSu	WSpSuF	WSpSu	WSpSu	WSpSu	WSpSu	WSpSuF	WSpSu	WSpSuF	WSpSuF	WSpSu			WSpSu	WSpSu		
	UCD4-44	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF	SpSuF			SpSuF	SpSuF		
Storm Water	LF-01	WSpF	WSpF				WSpF	WSpF			WSpF		WSpF	WSpF	WSpF	WSp	SpF	WSpF	WSpF		WSpF	WF			WSpF	
	LF-03	WSpF	WSpF				WSpF	WSpF			WSpF		WSpF	WSpF	WSpF	WSp	SpF	WSpF	WSpF		WSpF	WF			WSpF	
	LS-01	WF	WF	WF	WF	WF	WF	WF	W	W	WF		WF	WF		WF		WF		F		WF	F	WF	WF	
Surface Water	STPO	WSpF	WSpF				WSpF	WSpF			WSpF		WSpF	WSpF		WSpF	WSpF	WSpF	WSpF							WSpF
	PCU	WSpF	WSpF				WSpF	WSpF			WSpF		WSpF	WSpF		WSpF	WSpF	WSpF	WSpF							WSpF
	PCD	WSpF	WSpF				WSpF	WSpF			WSpF		WSpF	WSpF		WSpF	WSpF	WSpF	WSpF							WSpF
	PC2																									WSpF
ent	Influent	M	M								M				M											
ystem	Effluent										M					M	M	M	M							

W = Sampled Winter Quarter 1999 Sp = Sampled Spring Quarter 1999 Su = Sampled Summer Quarter F = Sampled Fall Quarter 1999 M = Sampled Monthly 1999
TOC = Total Organic Carbon TDS = Total Dissolved Solids TSS = Total Suspended Solids

TABLE 3
ANALYTICAL PARAMETERS AND METHODS
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

SAMPLE PARAMETERS		
Constituent	**Units**	**Method**
Field		
pH	pH units	Field, SOP
EC	µmhos/cm	Field, SOP
Eh	mvolts	Field, SOP
Temperature	°C	Field, SOP
Turbidity	ntu	Field, SOP
Organic		
Volatile Organic Compounds	µg/L	EPA SW8260B
Semivolatile Organic Compounds	µg/L	EPA SW8270B
Organochlorine Pesticides/PCBs	µg/L	EPA SW8081A/8082
Radiologic Analyses		
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
Strontium-90	pCi/L	EPA 905.0 (M)
Radium-226	pCi/L	EPA 903.1 (M)
Americium-241	pCi/L	EPA 907.0 (M)
Plutonium-241	pCi/L	EPA 907.0 (M)
Gamma Spectral Analysis		
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	µg/L	EPA SW7196
Total Chromium	µg/L	EPA SW6010A/6020
Antimony	µg/L	EPA SW6020
Arsenic	µg/L	EPA SW6020
Barium	µg/L	EPA SW6020
Beryllium	µg/L	EPA SW6020
Cadmium	µg/L	EPA SW6020

TABLE 3 (continued)
ANALYTICAL PARAMETERS AND METHODS
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

SAMPLE PARAMETERS		
Constituent	**Units**	**Method**
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
Zinc	µg/L	EPA SW6020
General Chemicals		
Alkalinity	mg/L	EPA 310.1
Sodium	mg/L	EPA 6010A
Potassium	mg/L	EPA 6010A
Calcium	mg/L	EPA 6010A
Magnesium	mg/L	EPA 6010A
Chloride	mg/L	EPA 300.0
Sulfate	mg/L	EPA 300.0
Phosphorous, 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 & Grease	mg/L	EPA 9070
Acute Aquatic Toxicity	%	EPA/600/4-90-027F
Chronic Aquatic Toxicity	%	EPA 600/4-91/002

TABLE 4
MASS REMOVAL TOTALS
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

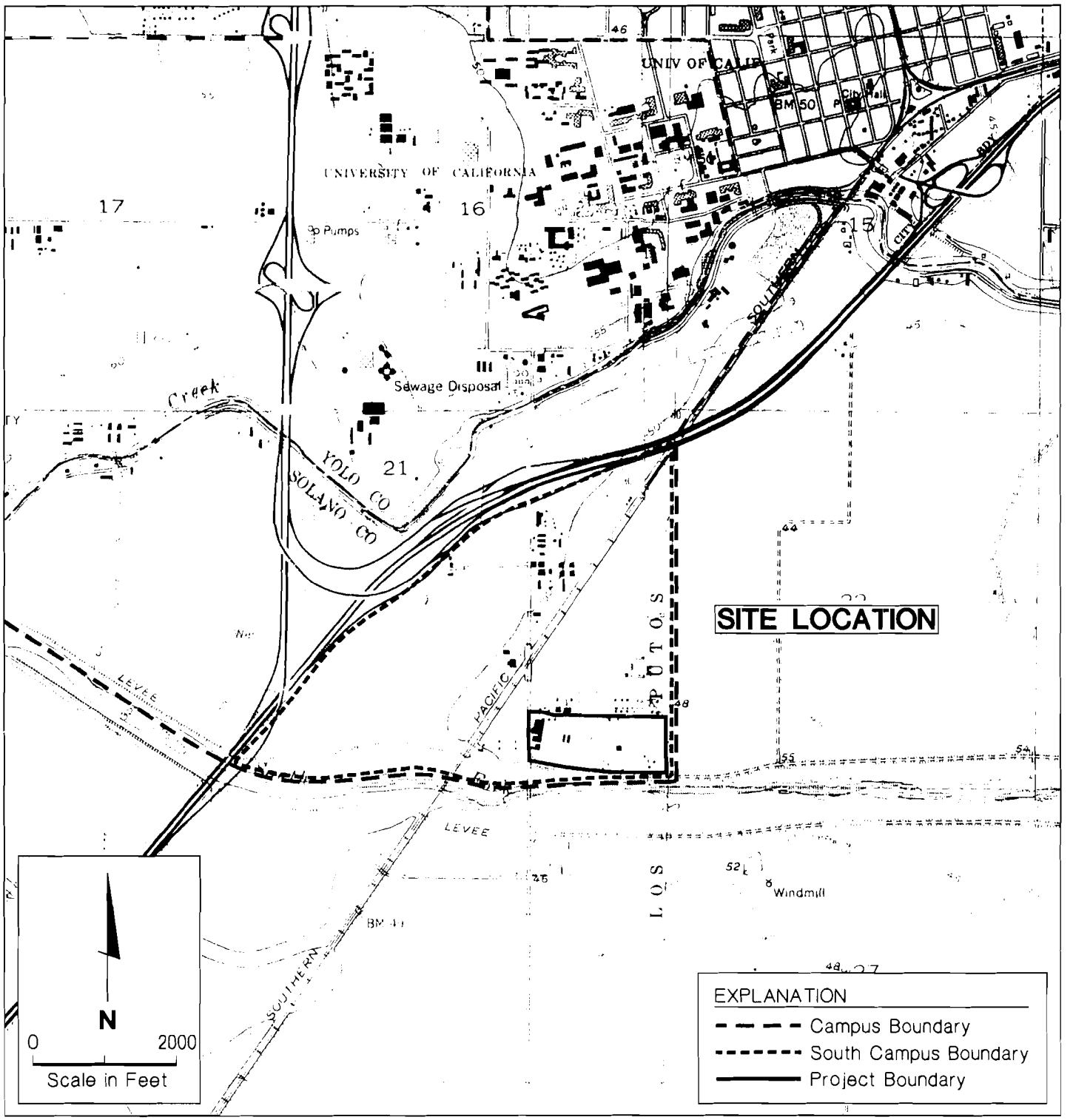
Month	AVERAGE CHLOROFORM CONCENTRATION (µg/L)	AVERAGE CHLOROFORM CONCENTRATION (kg/L)	VOLUME OF EXTRACTED GROUNDWATER (gallons)	VOLUME OF EXTRACTED GROUNDWATER (Liters)	MASS OF CHLOROFORM REMOVED* (kg)	MASS OF CHLOROFORM REMOVED* (pounds)
April-98	29.9	2.99E-08	375,250	1,420,321	0.04	0.09
May-98	35.2	3.52E-08	1,531,590	5,797,068	0.20	0.45
June-98	37.3	3.73E-08	3,865,155	14,629,612	0.55	1.20
July-98	68	6.80E-08	5,968,366	22,590,265	1.54	3.39
August-98	80	8.00E-08	7,564,438	28,631,398	2.29	5.05
Sep-98	52	5.20E-08	8,221,465	31,118,245	1.62	3.57
Oct-98	58	5.80E-08	4,261,762	16,130,769	0.94	2.06
Nov-98	34	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 TOTAL	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 TOTAL	70,676,386	267,510,121	10.12	22.32
		GRAND TOTAL	112,648,416	426,374,255	18.43	40.63

* Mass Removed = Average Concentration x Volume of Extracted Groundwater

TABLE 5
GROUNDWATER ELEVATIONS
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

	Well	Casing Elevation	1/22/99	2/1/99	3/24/99	4/23/99	5/3/99	6/4/99	7/20/99	8/2/99	9/15/99	10/8/99	11/1/99	12/16/99
HSU-1	UCD1-1	50.05	21.46	21.69	25.03	24.64	19.75	11.38	2.11	1.68	2.11	5.24	7.54	10.96
	UCD1-4	51.69	21.62	21.81	26.50	26.47	22.57	13.15	3.98	2.86	2.65	6.49	8.07	11.47
	UCD1-10	49.87	20.22	20.51	24.19	23.56	18.68	8.55	-1.16	-1.74	-0.16	3.30	6.02	9.60
	UCD1-11	50.67	20.49	20.81	24.36	24.18	20.22	9.67	0.62	-0.61	0.58	3.97	6.56	9.95
	UCD1-12	51.76	20.82	20.98	24.65	24.70	21.12	10.50	1.12	0.30	1.20	4.45	7.05	13.78
	UCD1-13	52.19	21.01	21.20	25.45	23.61	22.42	11.77	1.96	1.09	1.84	4.98	7.67	10.90
	UCD1-18	48.56	22.11	22.33	26.59	26.71	22.55	14.13	4.74	3.69	3.45	6.24	8.47	11.85
	UCD1-19	51.33	20.81	21.01	24.38	24.13	19.93	10.25	1.07	0.24	0.90	4.20	6.70	10.26
	UCD1-20	49.78	21.17	21.38	25.02	24.93	20.63	11.21	1.89	1.07	0.68	3.57	7.44	10.79
	UCD1-21	48.77	21.29	21.55	25.13	24.92	20.46	11.48	1.13	1.35	1.75	4.92	7.41	10.85
	UCD1-22	49.07	21.56	21.90	25.56	25.11	20.43	NM	NM	1.84	1.09	NM	7.66	NM
	UCD1-23	49.39	21.65	21.92	26.24	26.15	22.06	12.82	3.71	2.65	2.59	5.34	8.09	11.51
	UCD1-24	48.91	21.30	21.49	25.37	25.23	21.08	11.55	1.74	1.33	0.43	5.63	8.12	11.35
	UCD1-25	48.8	20.36	20.55	23.78	23.37	19.09	8.82	-0.56	-1.24	0.15	3.53	6.26	9.69
	UCD1-28	50.34	20.22	20.41	23.70	22.79	17.76	8.18	-1.38	-1.81	-0.22	3.24	6.08	9.56
	UCD1-34	55.7	21.26	21.85	27.00	27.12	23.34	12.82	3.49	2.59	2.63	5.46	8.10	11.48
HSU-2	UCD2-7	51.65	21.17	21.41	24.58	23.77	18.24	9.39	-0.85	0.64	1.47	4.77	8.24	10.56
	UCD2-14	51.72	21.05	21.23	24.50	23.56	18.14	9.01	-1.24	0.31	1.16	4.52	7.03	10.42
	UCD2-15	51.49	21.40	21.77	25.13	24.34	18.46	10.86	1.04	1.48	2.04	5.41	7.75	10.98
	UCD2-16	49.95	21.36	21.62	24.83	24.03	18.22	10.27	0.56	1.16	1.90	5.04	7.46	10.81
	UCD2-17	51.83	21.82	22.01	25.36	24.78	18.57	11.30	1.33	2.40	2.73	5.97	8.12	11.32
	UCD2-26	48.79	20.48	20.70	23.94	22.61	17.41	7.99	-1.93	-1.37	0.24	3.67	6.41	9.84
	UCD2-29	50.32	20.24	20.42	23.66	22.30	17.27	7.46	-2.59	-1.72	-0.20	3.26	6.22	9.61
	UCD2-30	49.83	20.15	20.36	23.57	22.49	17.04	7.22	-2.74	-2.04	-0.37	3.12	6.11	9.47
	UCD2-31	49.86	20.27	20.45	23.65	22.25	17.23	7.49	-2.49	-1.75	-0.16	3.31	6.20	9.57
	UCD2-32	45.41	20.04	20.34	23.43	21.91	16.01	6.72	2.92	-2.79	NM	3.01	5.66	9.44
	UCD2-35	55.71	21.10	21.35	NM	23.94	17.96	9.84	-0.51	0.58	1.44	4.76	7.17	10.54
	UCD2-36	48.31	21.15	21.39	24.66	23.77	18.21	9.36	-0.83	0.65	1.46	4.75	7.24	10.62
	UCD2-37	49.63	21.70	22.01	25.27	24.63	18.49	10.91	0.89	1.91	2.38	5.72	7.97	11.14
	UCD2-38	57.2	21.63	21.76	25.25	24.57	18.49	10.82	0.70	2.73	2.35	5.60	7.89	11.07
	UCD2-39	49.63	20.59	20.87	24.16	23.15	17.65	8.56	-1.23	-0.79	0.57	4.44	6.46	10.04
	UCD2-40	48.98	20.14	20.39	23.57	22.06	16.92	7.01	-2.88	-2.26	-0.33	3.15	6.03	9.52
HSU-4	UCD4-41	49.37	19.47	19.77	22.33	17.86	2.23	-2.41	-2.67	-11.67	-7.43	-2.64	5.39	8.66
	UCD4-42	47.22	19.44	19.71	22.22	18.41	2.92	-6.88	-21.25	-12.20	-7.66	-1.23	4.19	8.58
	UCD4-43	45.06	19.22	19.53	22.06	17.95	2.36	-9.03	-17.25	-13.30	-8.15	-1.46	3.98	8.43
	UCD4-44	50.58	--	--	--	--	1.93	-8.26	-23.98	-10.76	-7.10	-0.45	4.61	8.81
Treatment System	EW2-1	49.17	19.75	19.92	23.20	21.80	16.79	6.02	-3.31	-2.60	-1.14	2.46	5.92	9.15
	IW2-1	49.39	32.04	21.81	36.94	37.19	37.35	35.74	27.52	27.32	22.28	25.74	24.81	14.92

NM Not measured, well was inaccessable.
-- Installation of UCD4-44 was completed on April 7, 1999.



REFERENCE: USGS 7.5 Quadrangle; Merritt, CA, 1952, photorevised 1981; and Davis, CA, 1952, photorevised 1981.

SITE VICINITY MAP

1999 Annual Report
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
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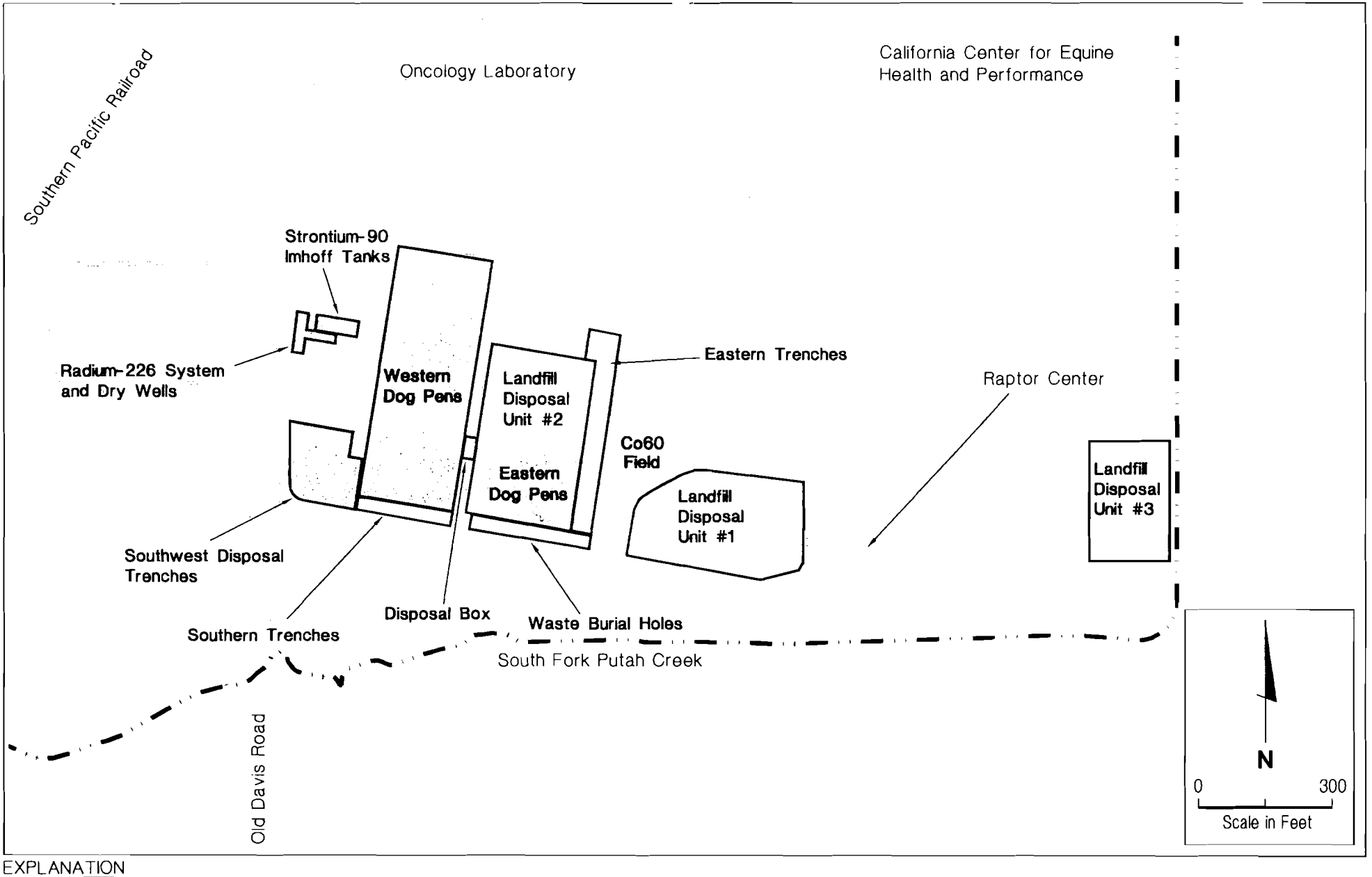
00234000-20000207 jmb 20000207svm 02/10/00

FIGURE 1



EXPLANATION

Campus Boundary

DOE Responsibility (within LEHR Site)

UC Davis Responsibility Areas (SCDS)

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00234000-20000207 jmb 20000207unit 02/08/00

WASTE DISPOSAL UNITS

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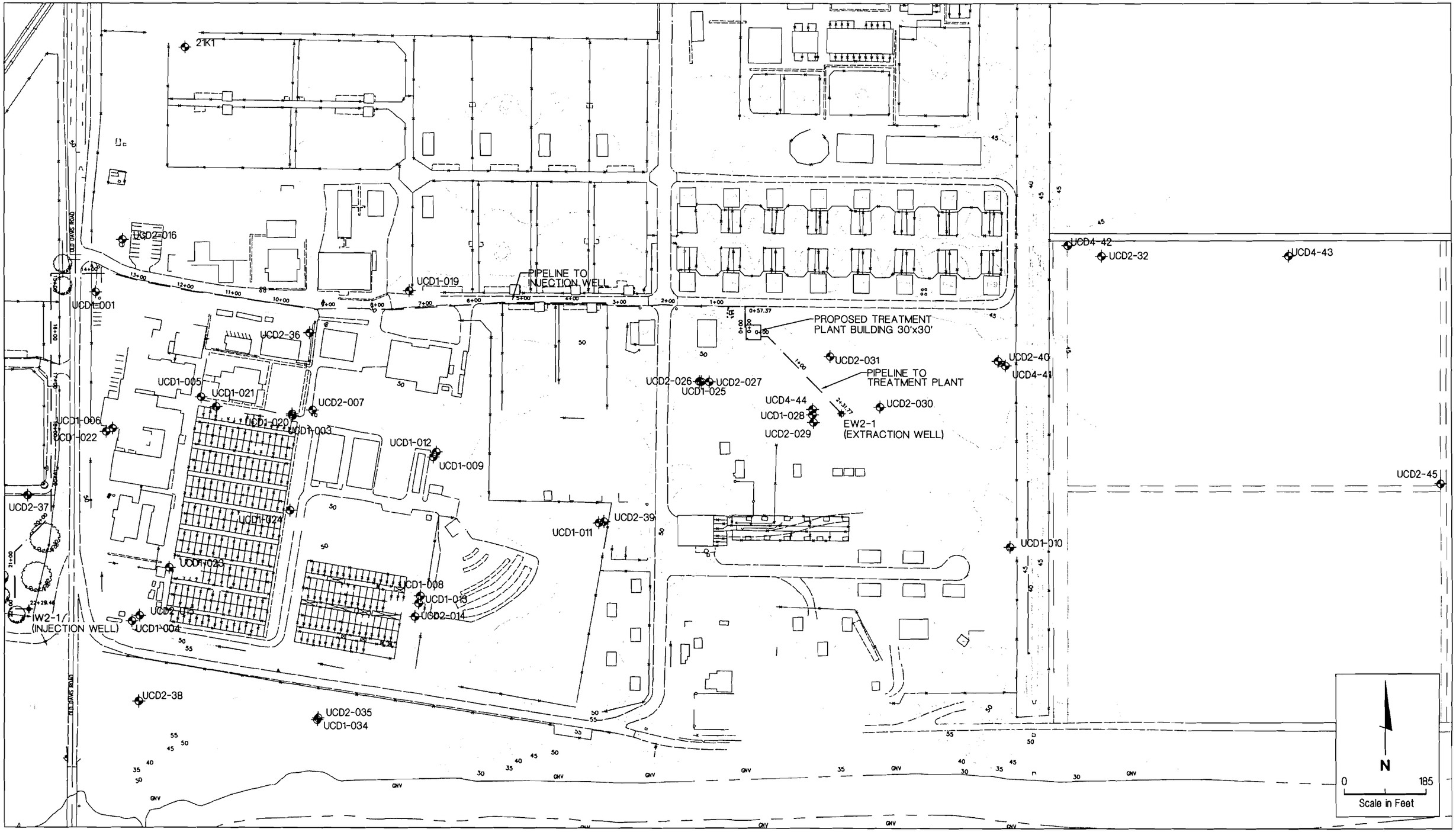
FIGURE 2



GROUNDWATER IRA SYSTEM GENERAL SITE PLAN

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FIGURE 3

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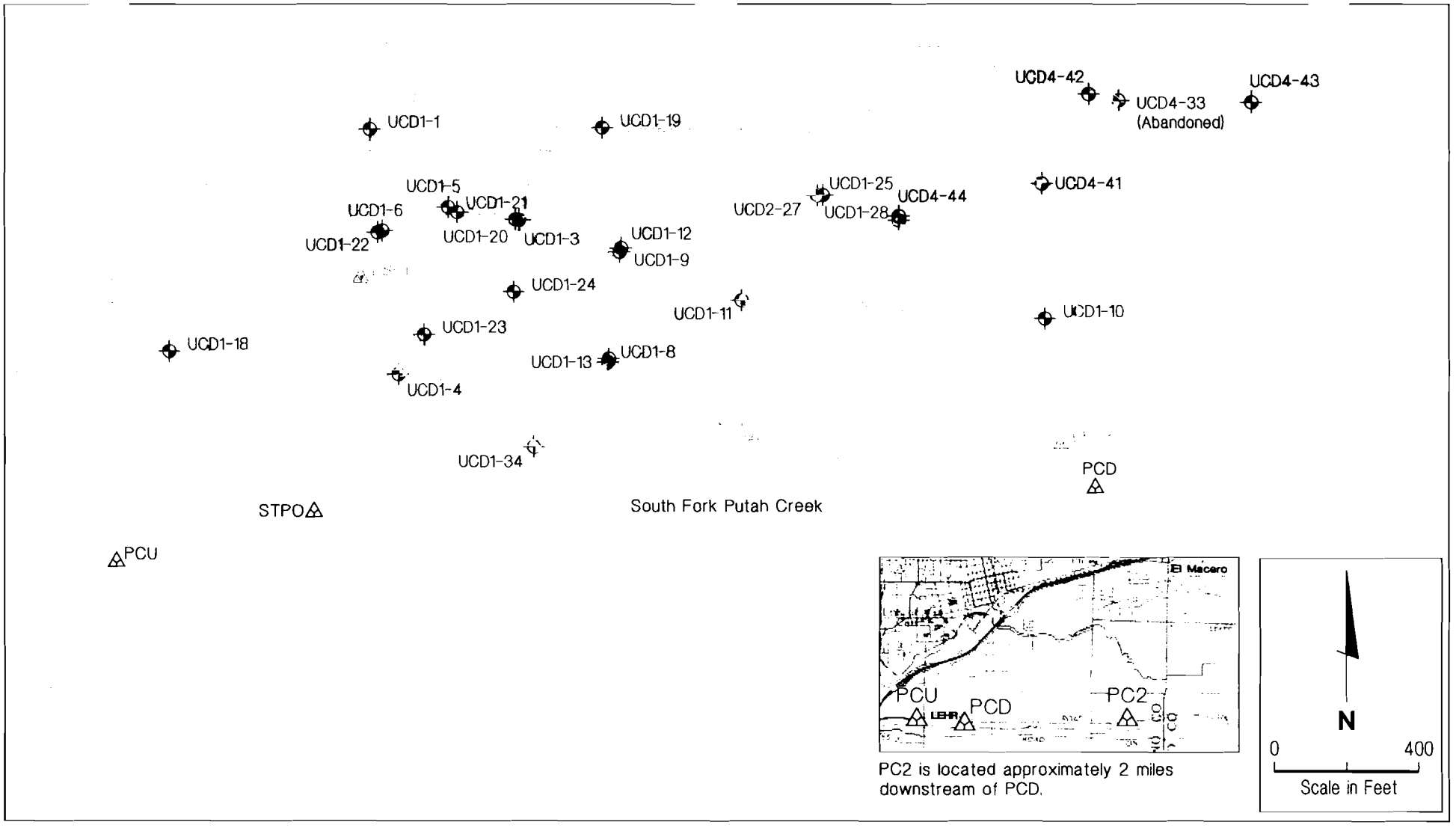
00234000-20000207site jmb 20000207site 02/10/00



PC2 is located approximately 2 miles downstream of PCD.

EXPLANATION

UCD1-11	HSU-1 Monitoring Well	STPO	Surface Water Sample Location
	HSU-2 Monitoring Well		Storm Water Sample Location
	HSU-2 Extraction Well		
	HSU-2 Injection Well		
UCD4-33	HSU-4 Monitoring Well		

WELL LOCATION MAP WITH SURFACE WATER AND STORM WATER SAMPLING LOCATIONS

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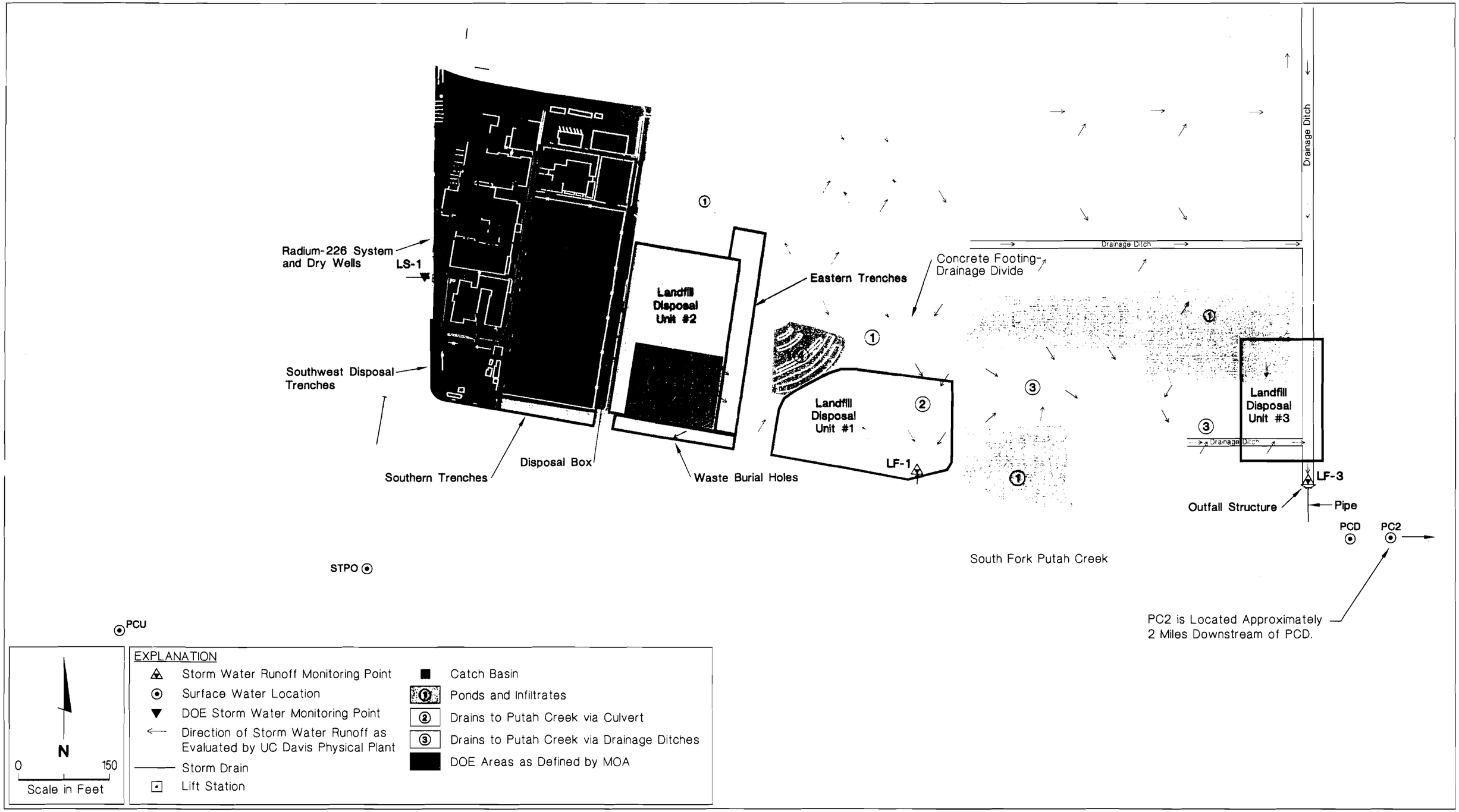
00234000-20000207 lea 20000207wloc 3/6/00

FIGURE 4



LOCATION MAP
STORM WATER RUNOFF MONITORING POINTS
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FIGURE 5

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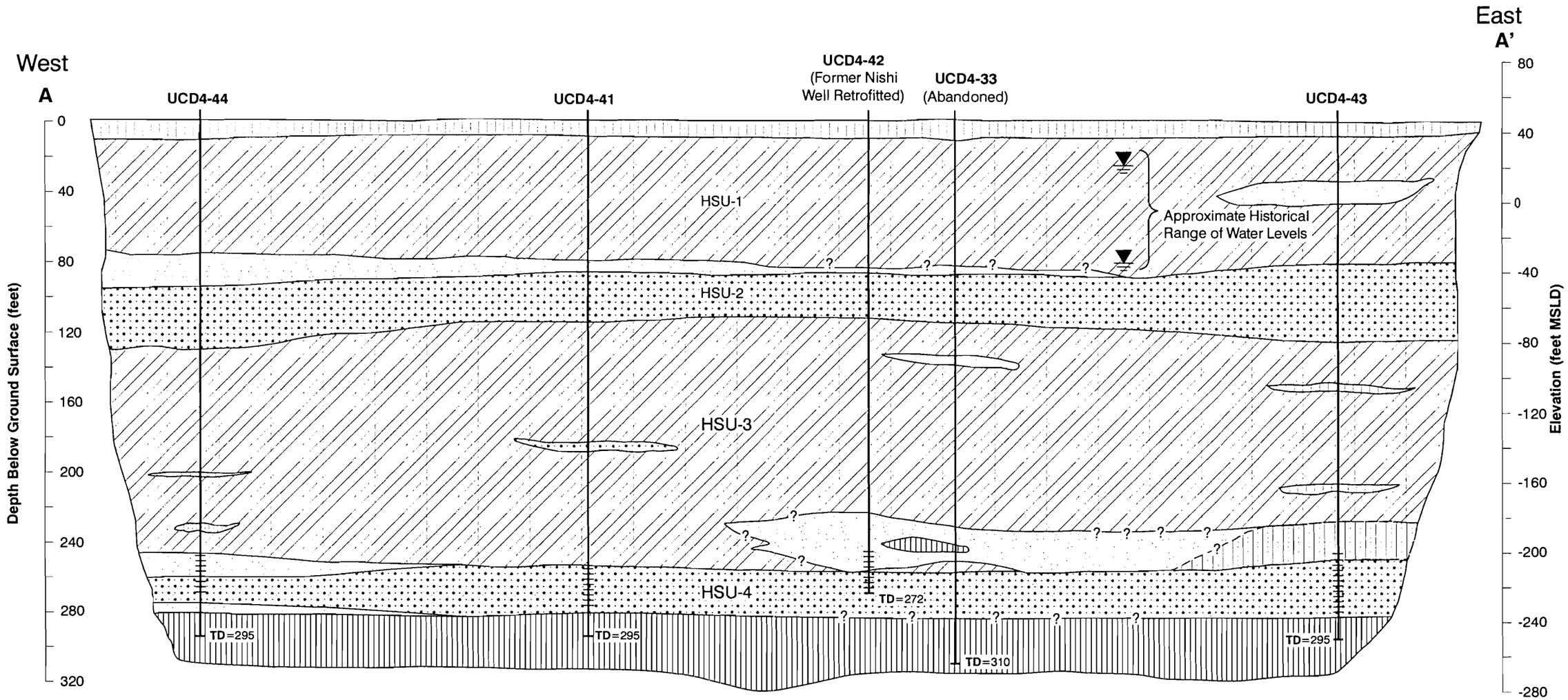


EXPLANATION

UCD4-43 HSU4 Monitoring Well

Screened Interval

TD=295 Total Depth of Boring in feet

Geologic Contact

Geologic Contact Uncertain

Fine Grained Silty Sand (SM)

Interbedded Clayey Silt (ML) to Silty Clay (CL)

Fine to Coarse Grained Sand (SP)

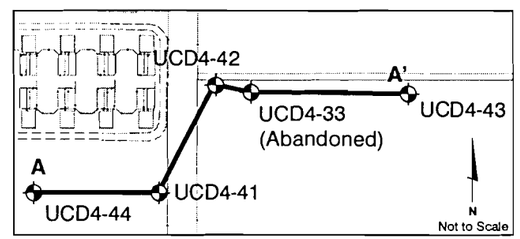
Coarse Grained Sandy Gravel (GP)

Silt (ML) With Some Sand and Clay

60

Scale in Feet 100

Vertical Exaggeration: 1.7x



Cross-Section Location Map

GENERALIZED HYDROSTRATIGRAPHIC CROSS-SECTION

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FIGURE 6

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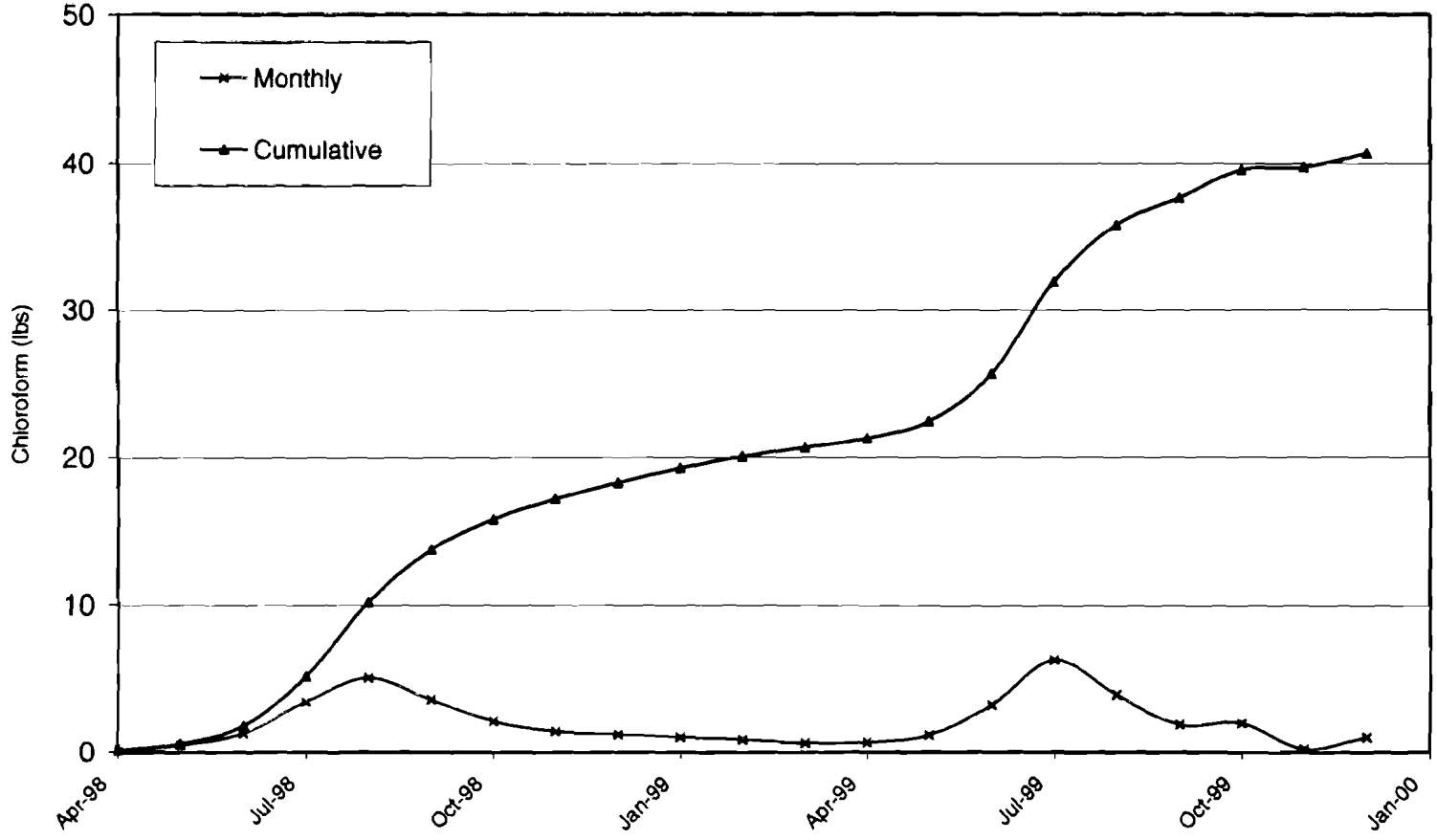

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CHLOROFORM MASS REMOVAL
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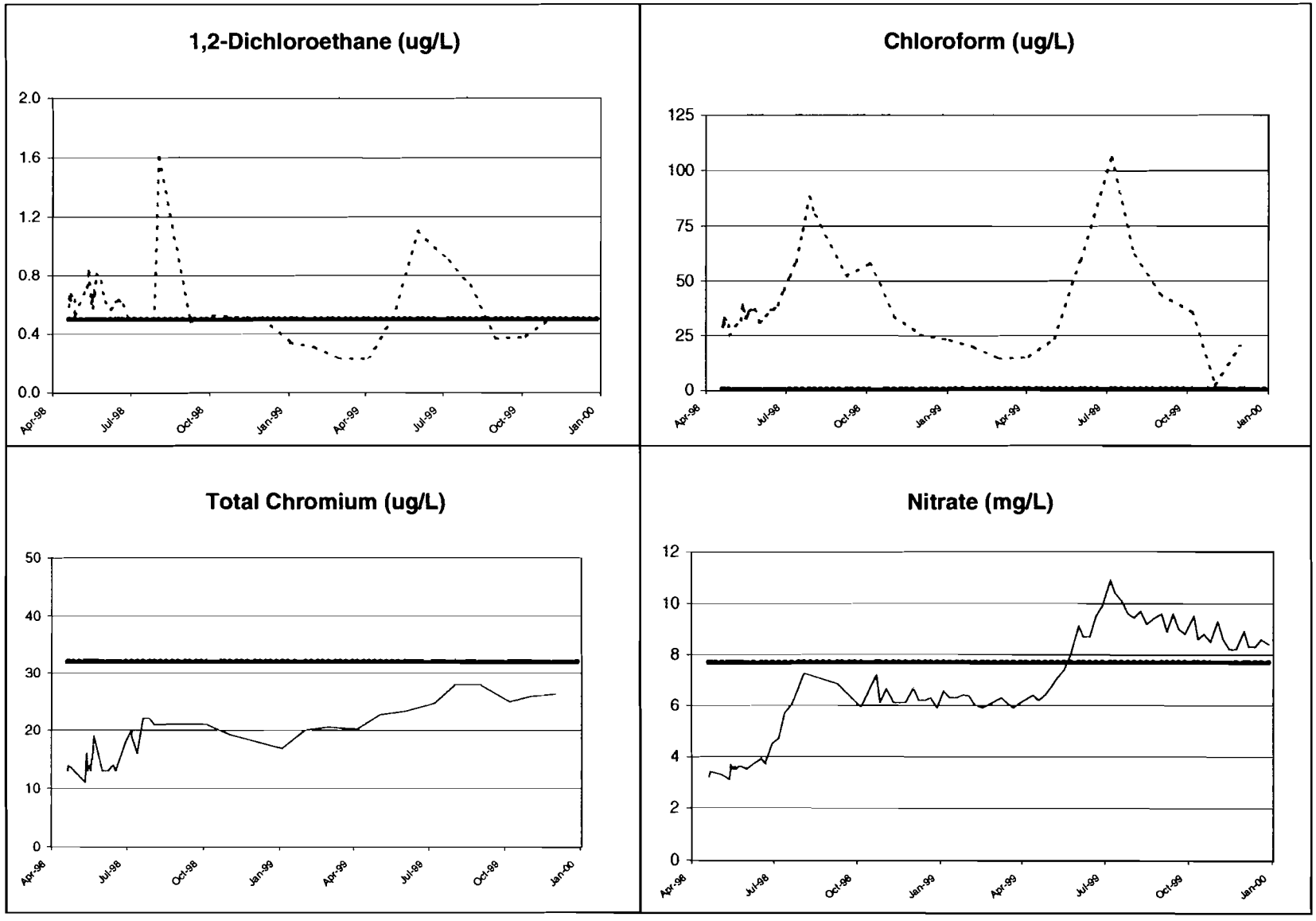
FIGURE 7



= Influent = Effluent = Monthly Discharge Limit

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GROUNDWATER TREATMENT SYSTEM 1,2-DCA, CHLOROFORM, CHROMIUM, AND NITRATE CONCENTRATION VS. TIME GRAPHS
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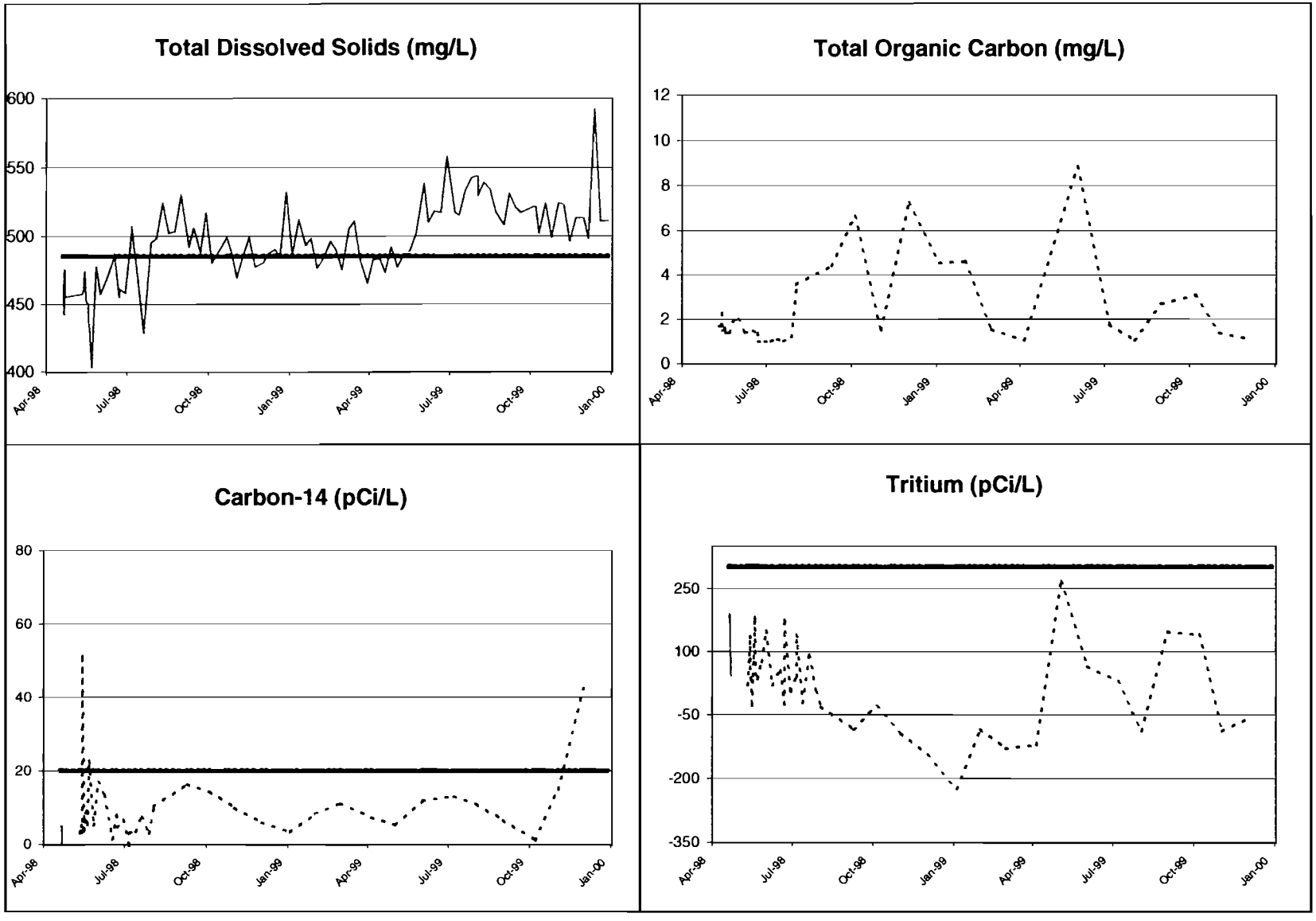
FIGURE 8



------ = Influent —— = Effluent —o—o— = Monthly Discharge Limit

GROUNDWATER TREATMENT SYSTEM TDS, TOC, CARBON-14, AND TRITIUM CONCENTRATION VS. TIME GRAPHS
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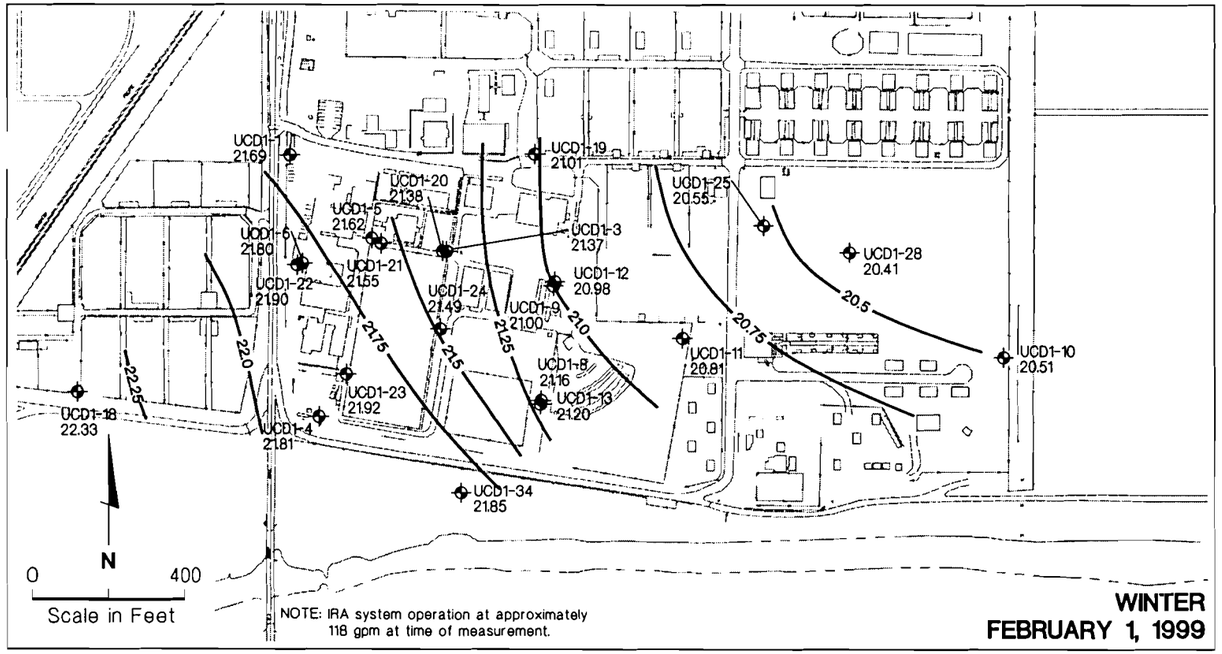
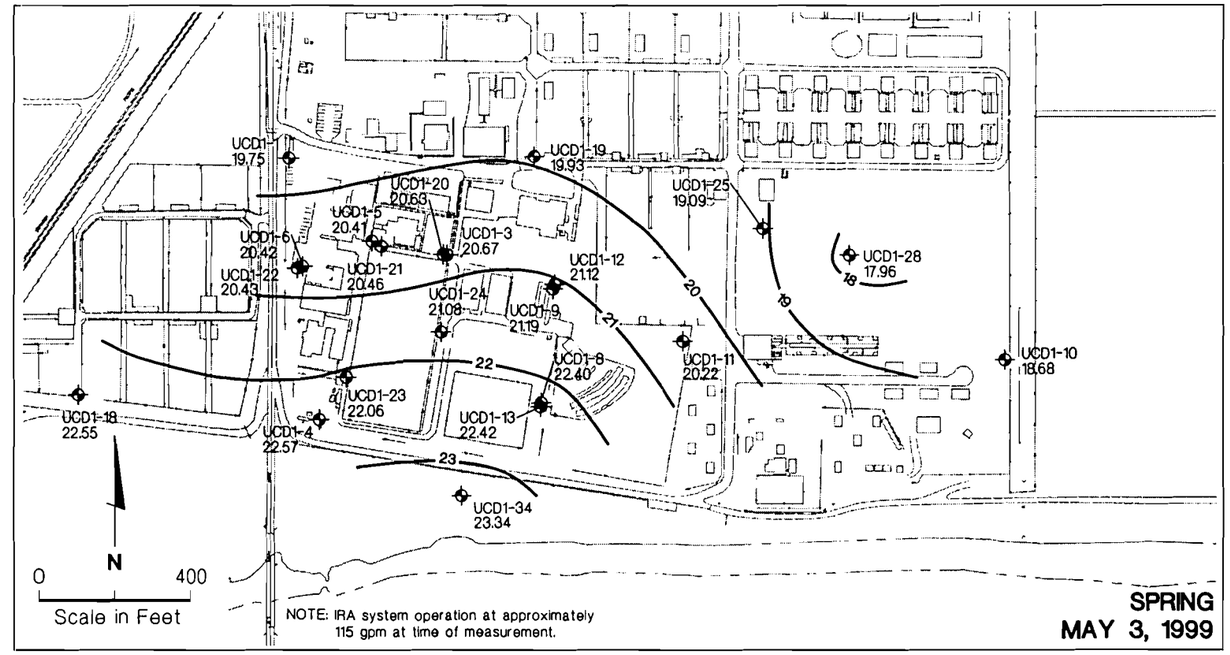
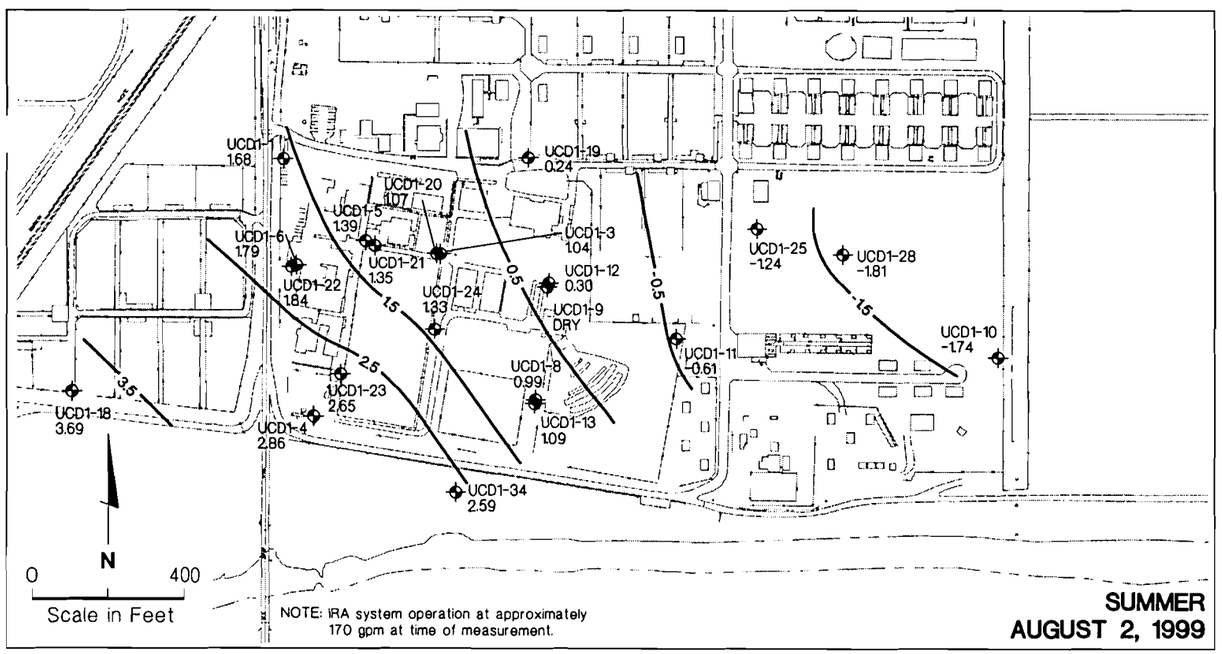
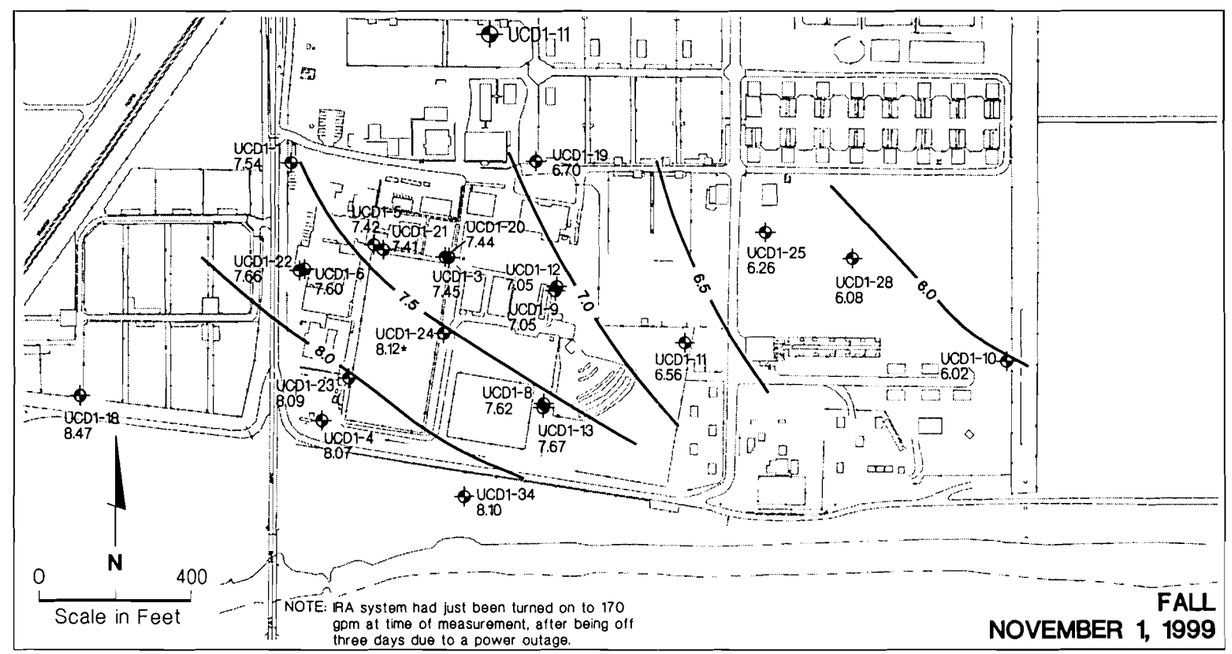
FIGURE 9









EXPLANATION

UCD1-34 HSU-1 Monitoring Well

NM = Not Measured

24.0 Groundwater Elevation Contour (Feet MSL)

GROUNDWATER ELEVATION CONTOUR MAP - HSU-1

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FIGURE 10

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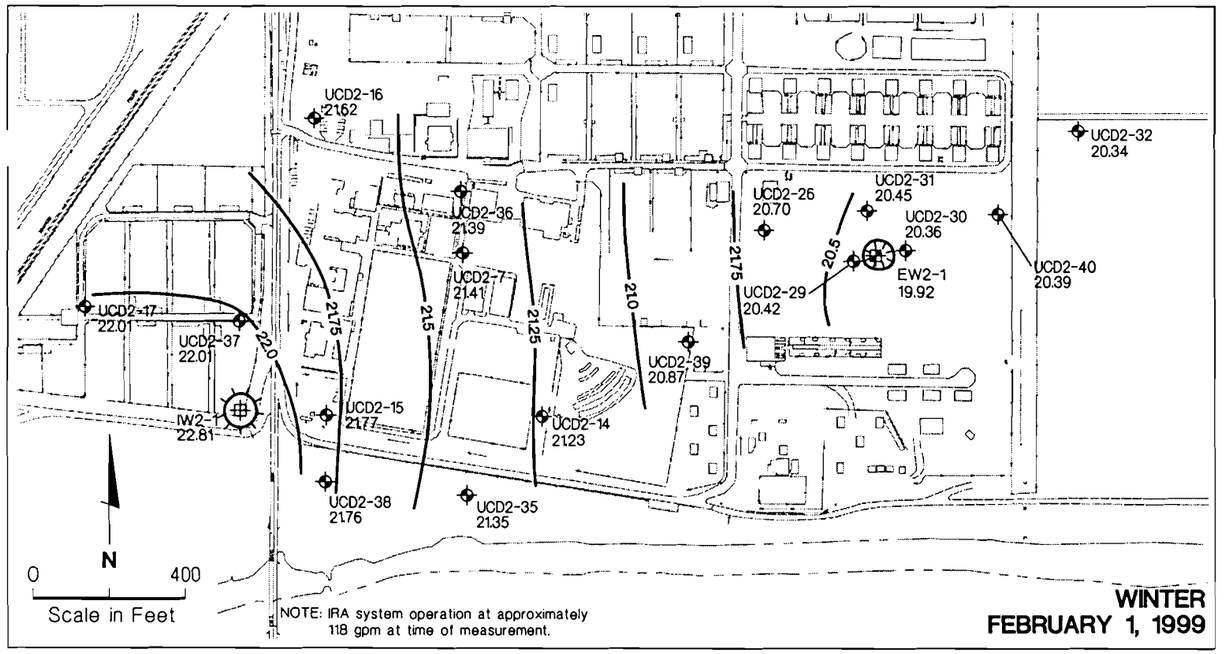

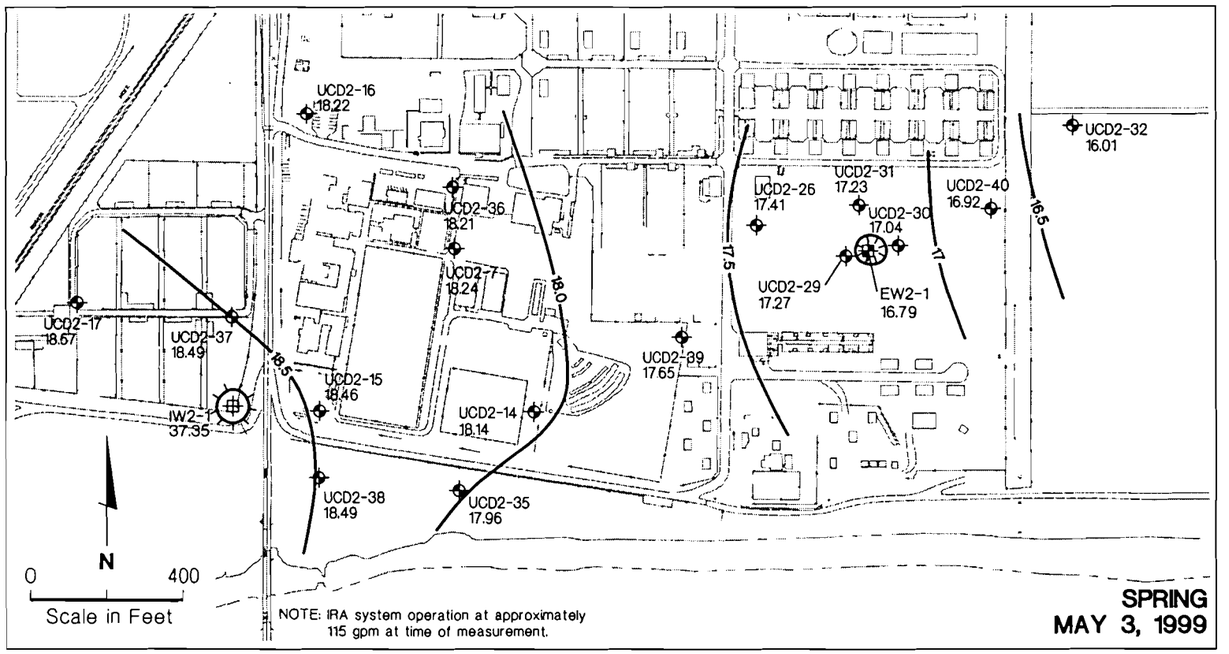

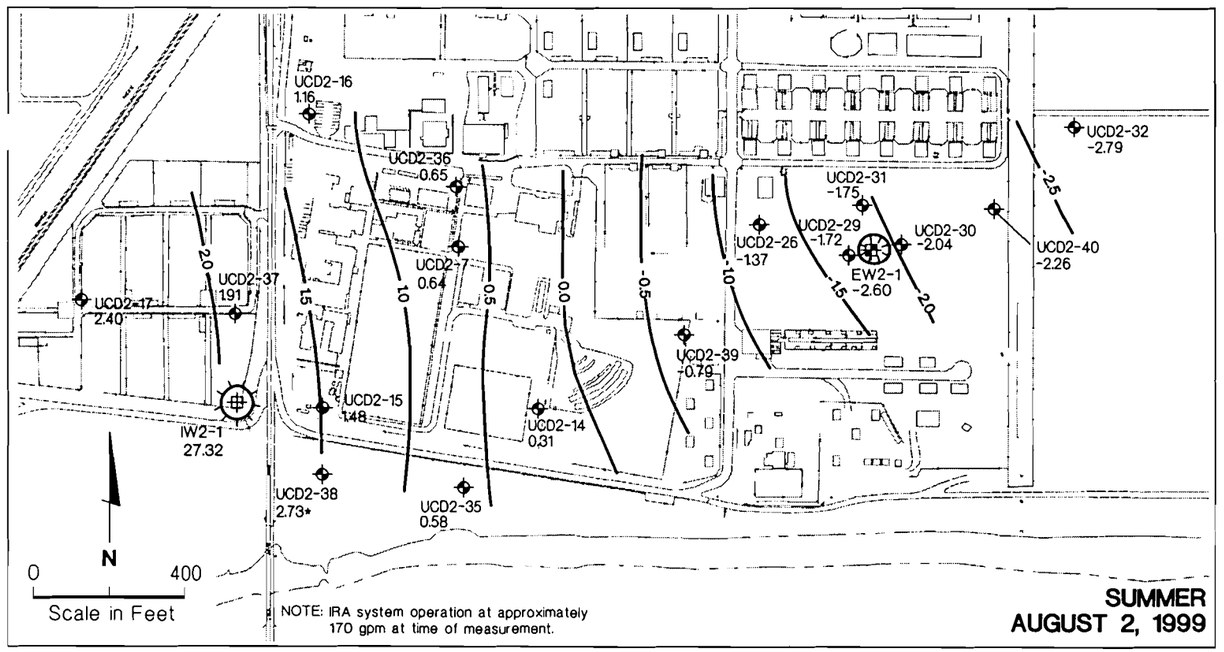

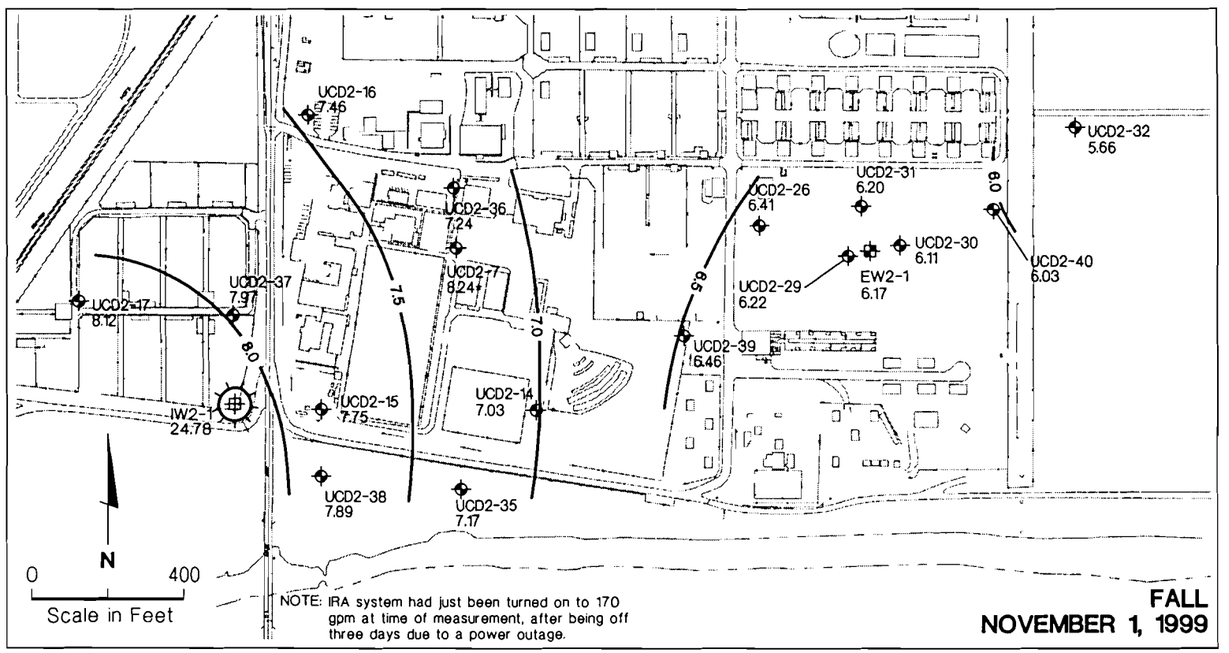

EXPLANATION

- UCD2-17 HSU-2 Monitoring Well
- EW2-1 HSU-2 Extraction Well
- IW2-1 HSU-2 Injection Well
- 24.0 Groundwater Elevation Contour (Feet MSL)
- NM = Not Measured

GROUNDWATER ELEVATION CONTOUR MAP - HSU-2

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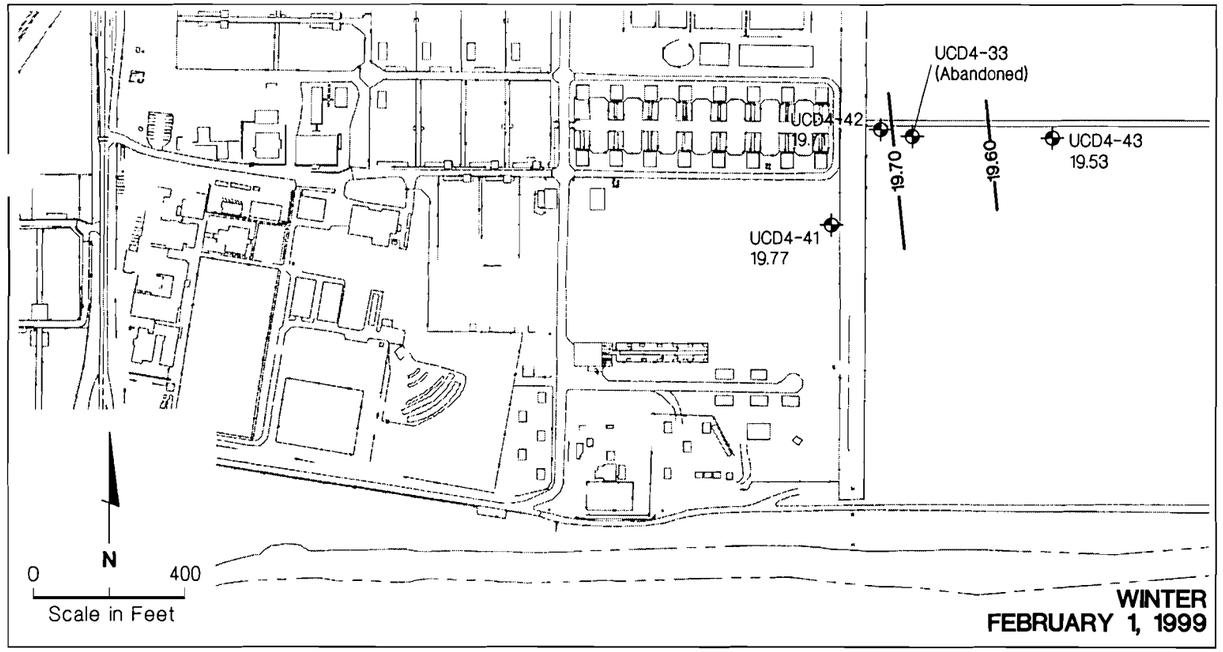
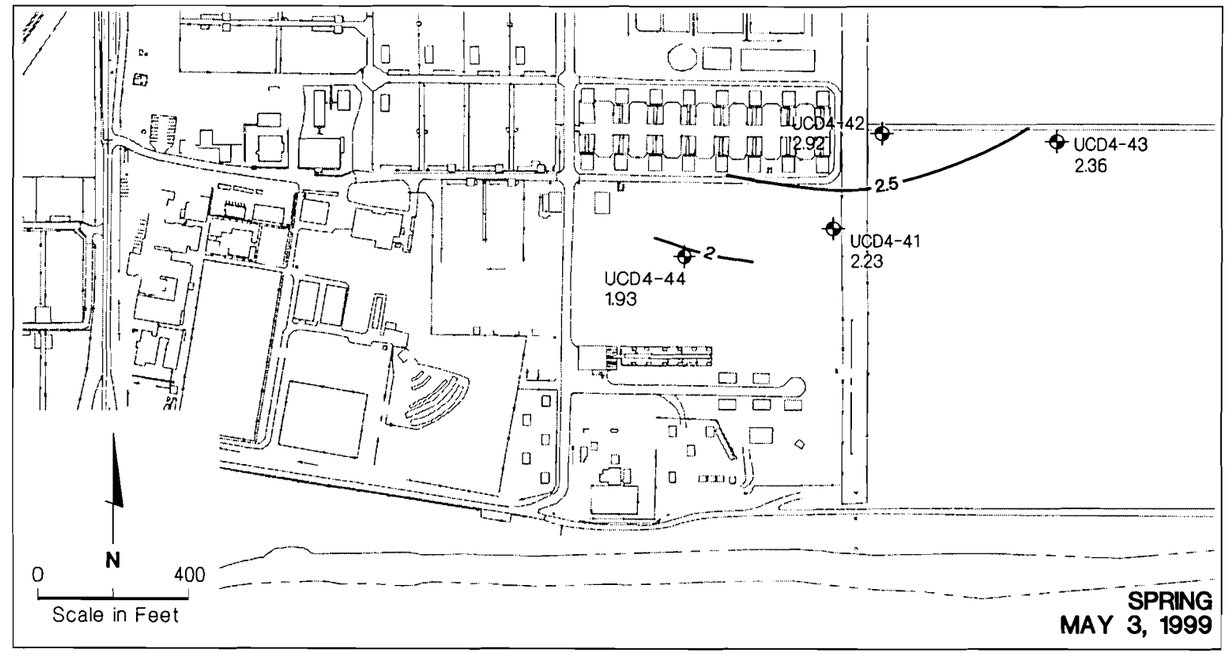
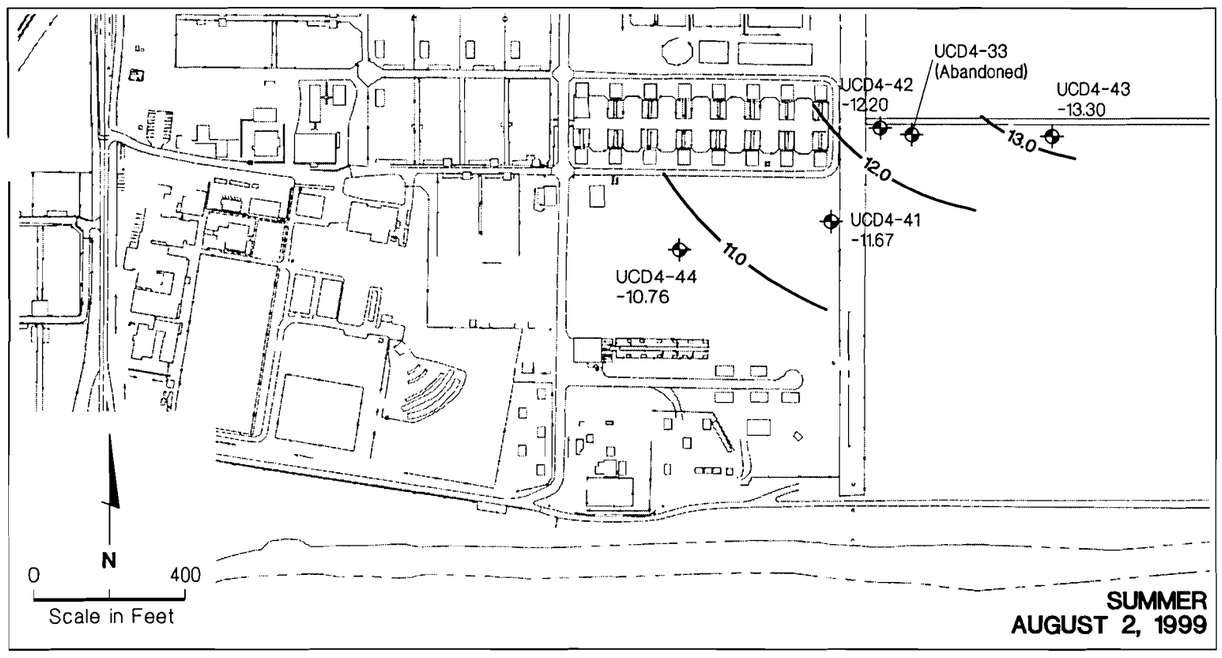
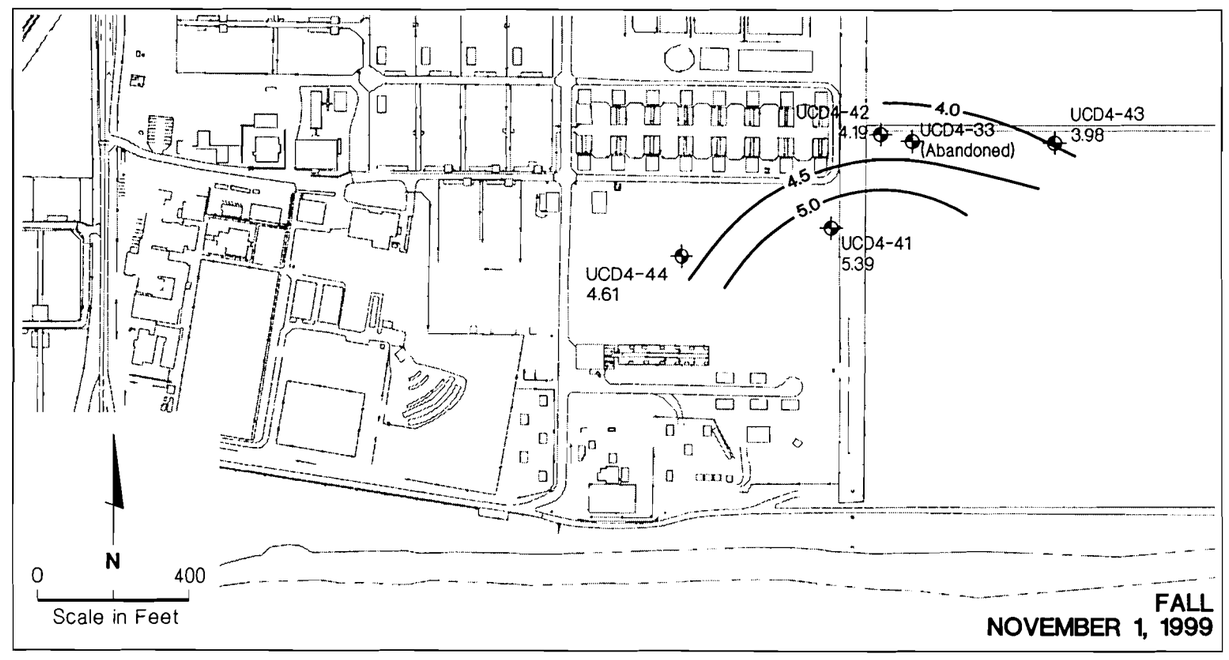
FIGURE 11









EXPLANATION

UCD4-44 HSU-4 Monitoring Well
NM = Not Measured

24.0 Groundwater Elevation Contour (Feet MSL)

GROUNDWATER ELEVATION CONTOUR MAP - HSU-4

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FIGURE 12

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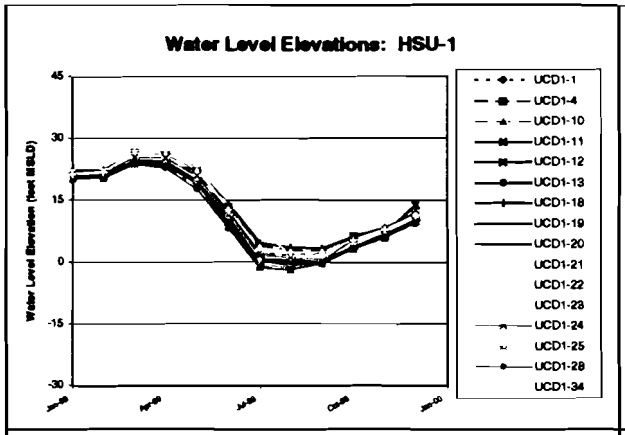

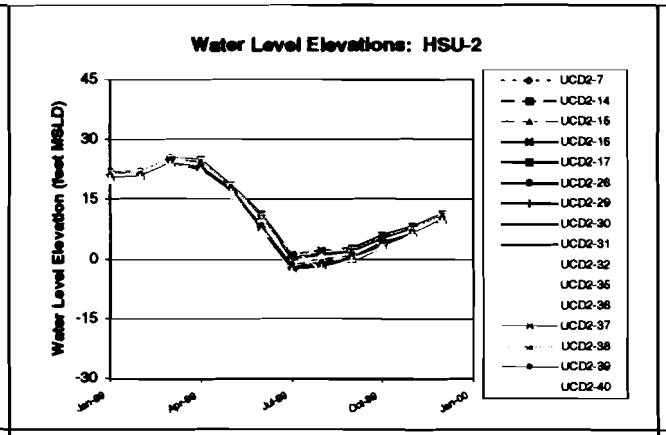

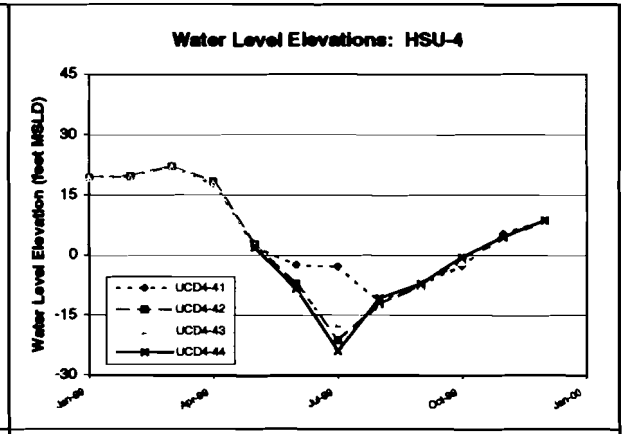

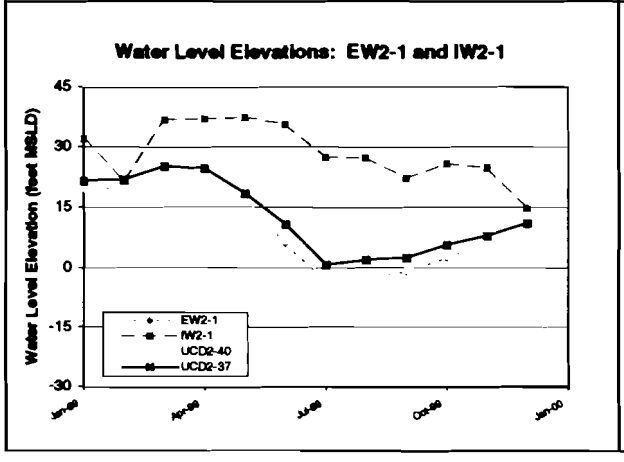

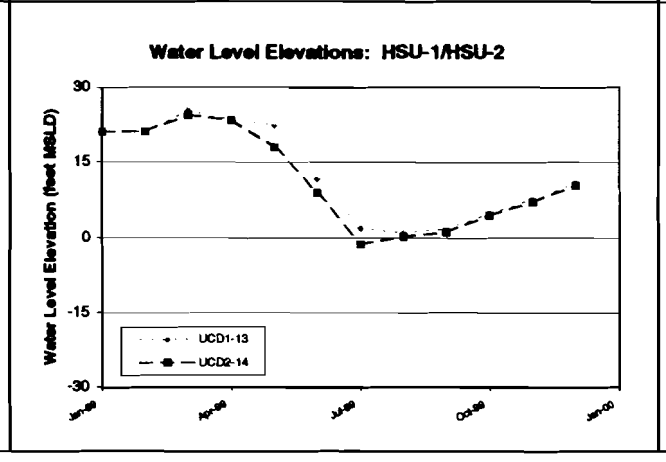

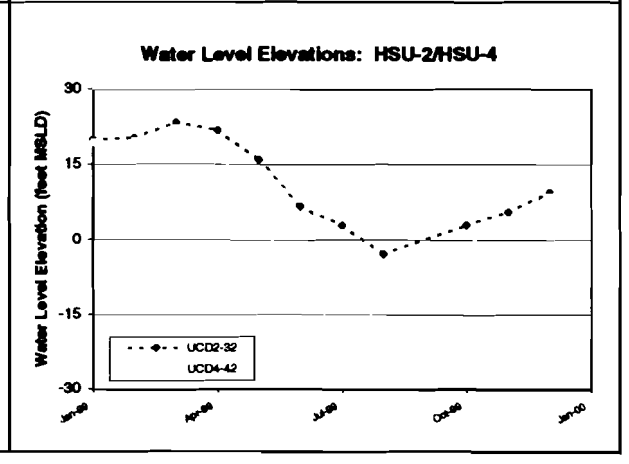

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WATER LEVEL ELEVATION GRAPHS
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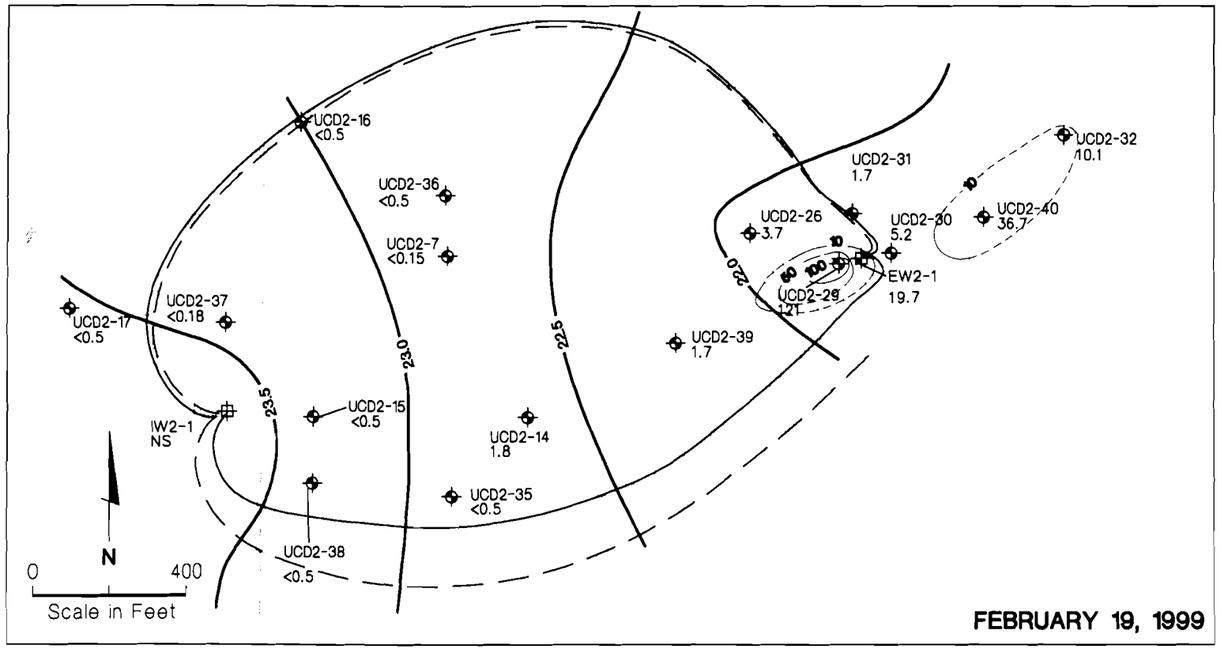
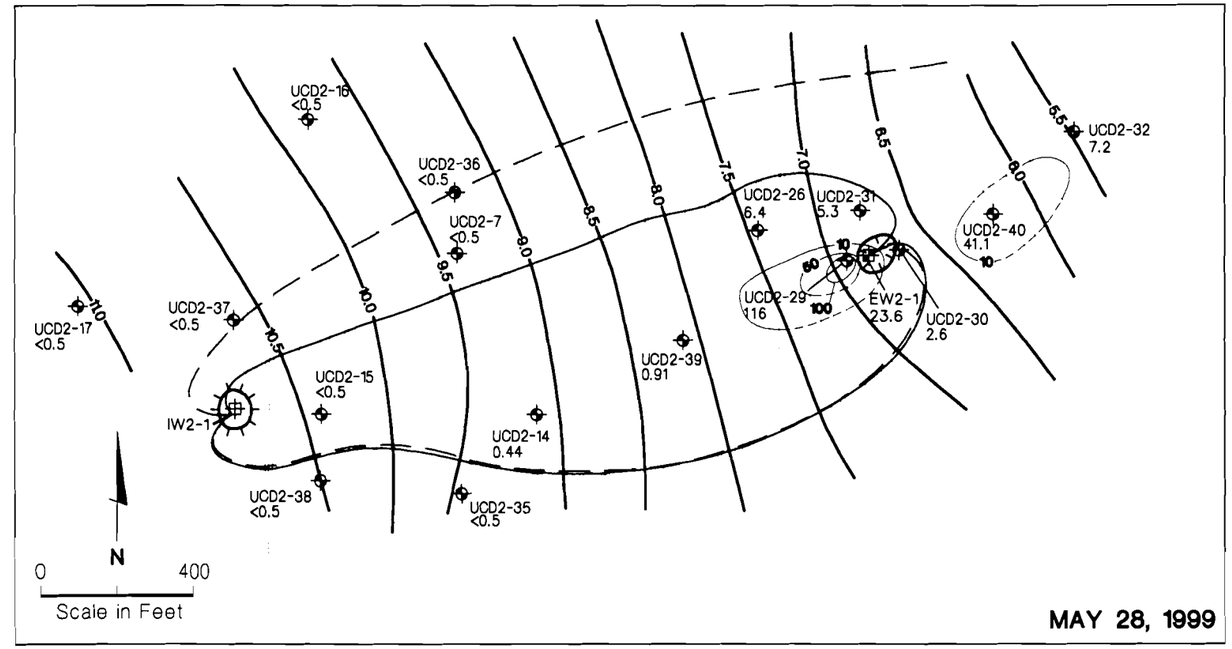
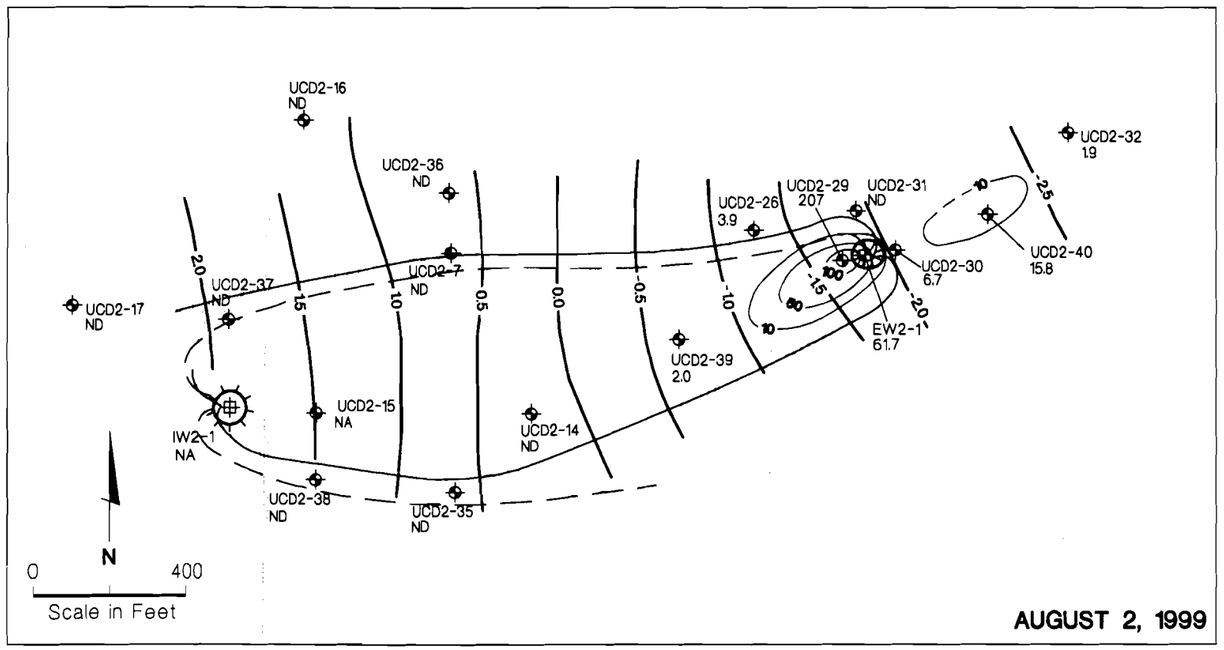
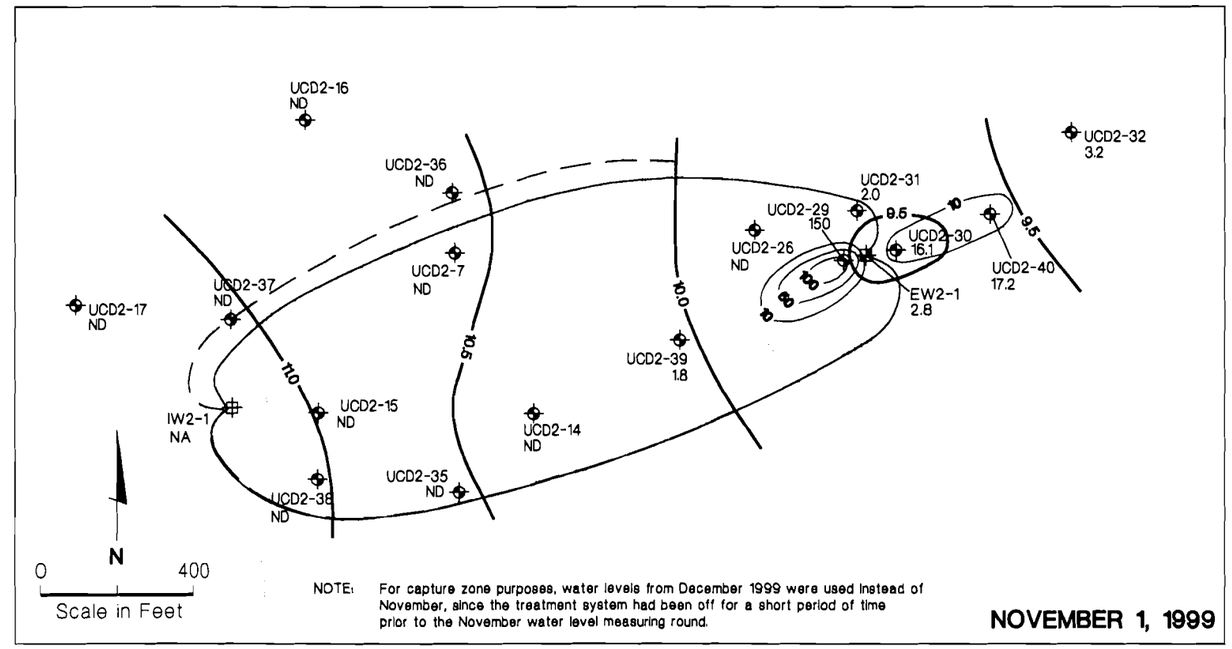
FIGURE 13









EXPLANATION

- UCD2-17 HSU-2 Monitoring Well
- EW2-1 HSU-2 Extraction Well
- IW2-1 HSU-2 Injection Well
- ---------10——— Chloroform Concentration Contours, in ug/L. Dashed Where Estimated.
- —— 18.5 —— Groundwater Elevation Contour (Feet MSLD)
- ———— Capture Zone
- — — — — Injection Well Flow Path

CAPTURE ZONE ANALYSIS MAPS

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FIGURE 14

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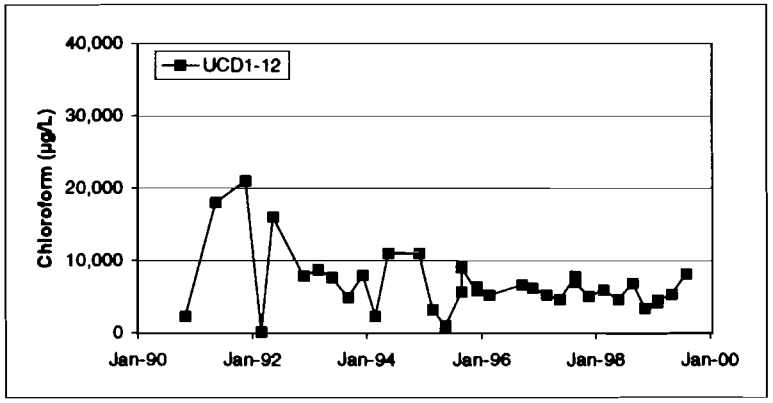

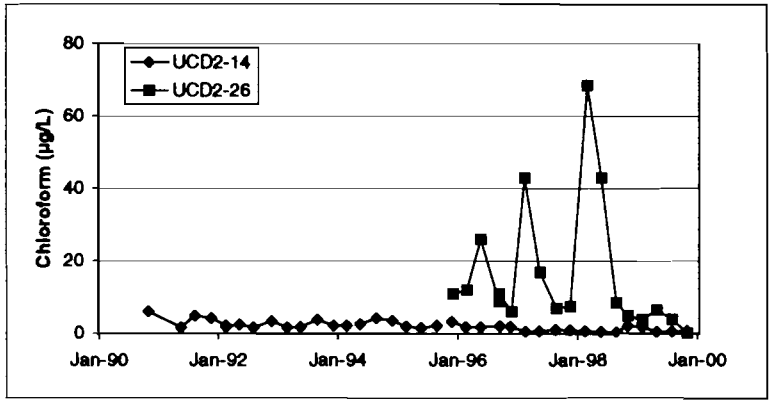

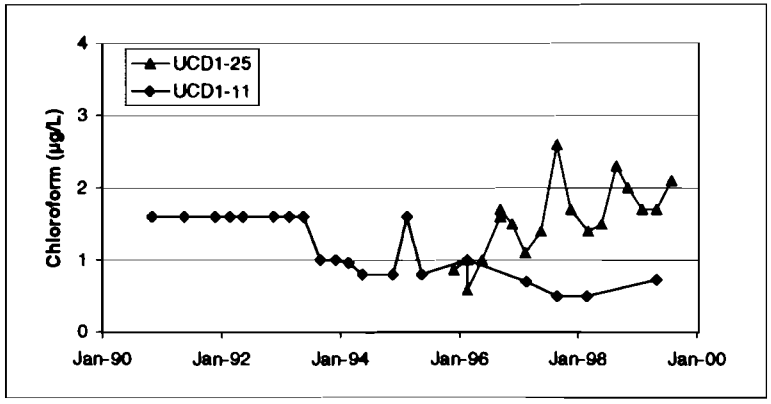

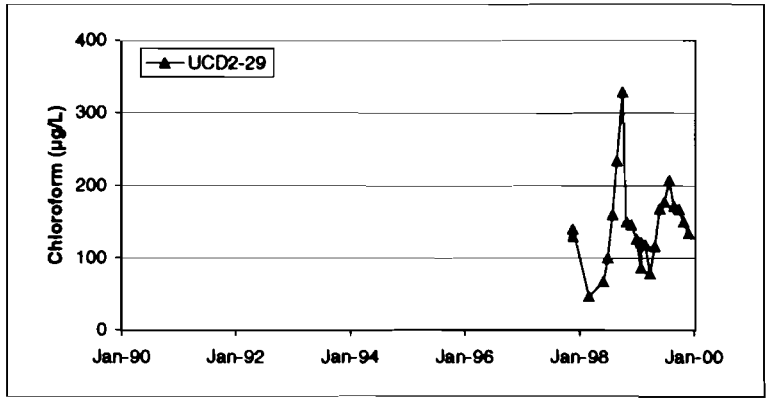

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PLOTS OF CHLOROFORM VERSUS TIME IN SELECTED HSU-1 AND HSU-2 WELLS

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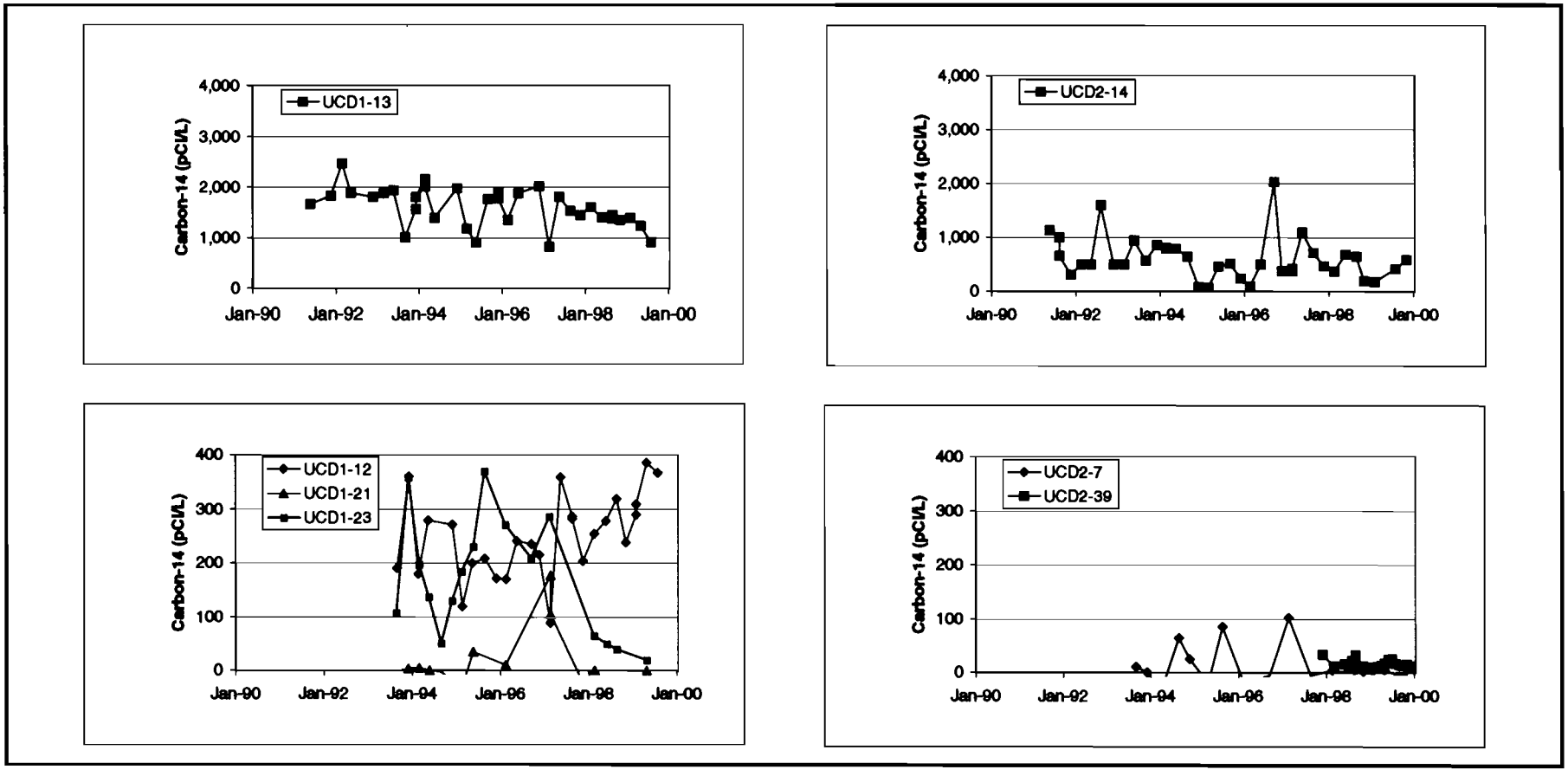
FIGURE 15



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

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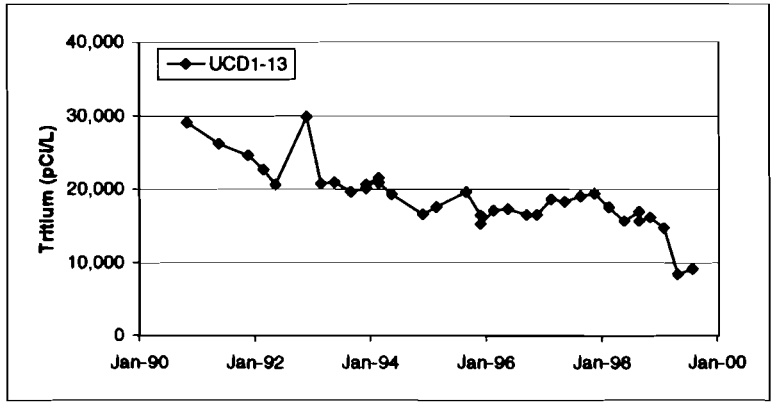
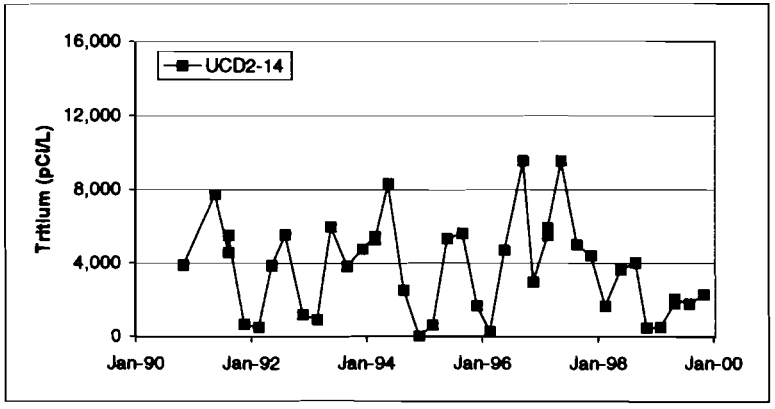
FIGURE 16





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

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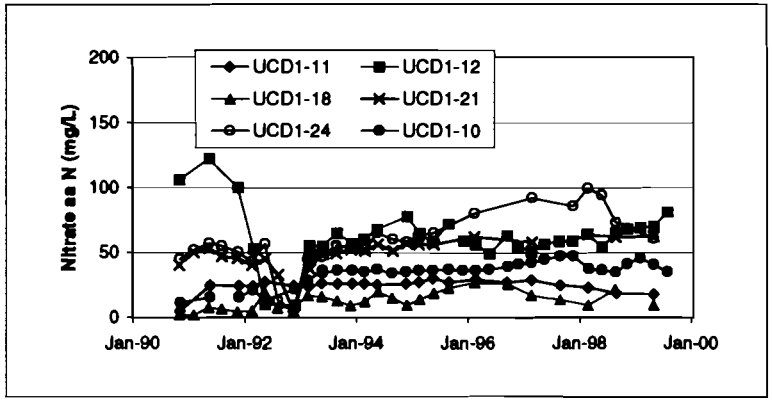
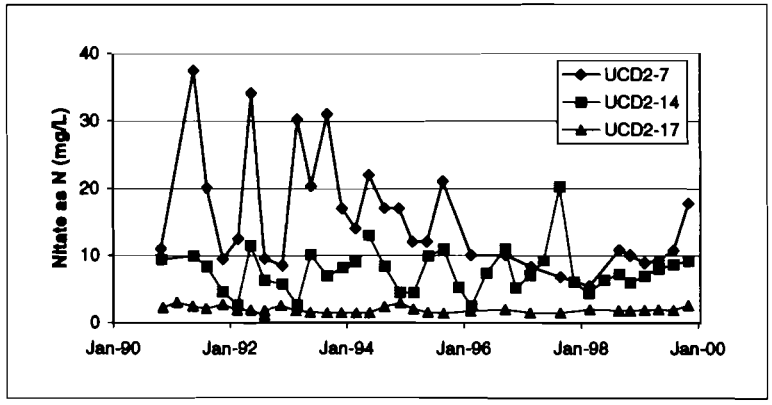
FIGURE 17





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

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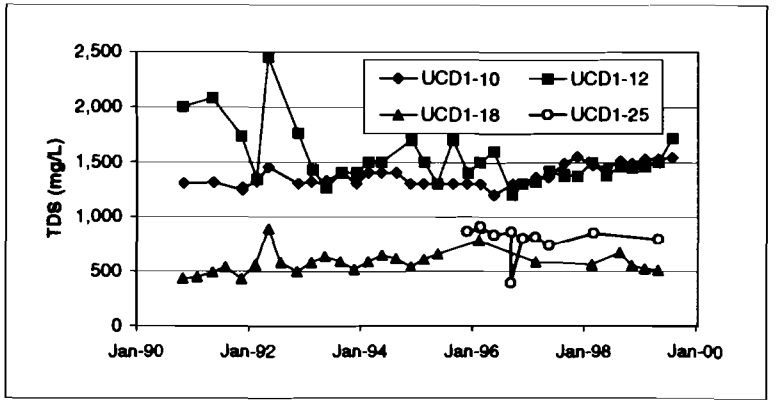
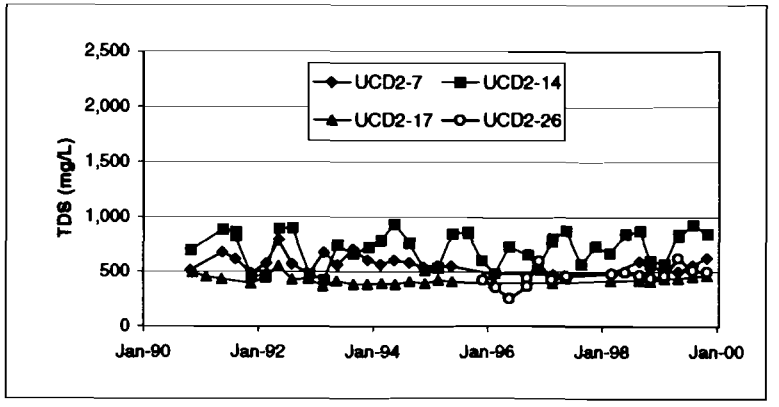
FIGURE 18





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

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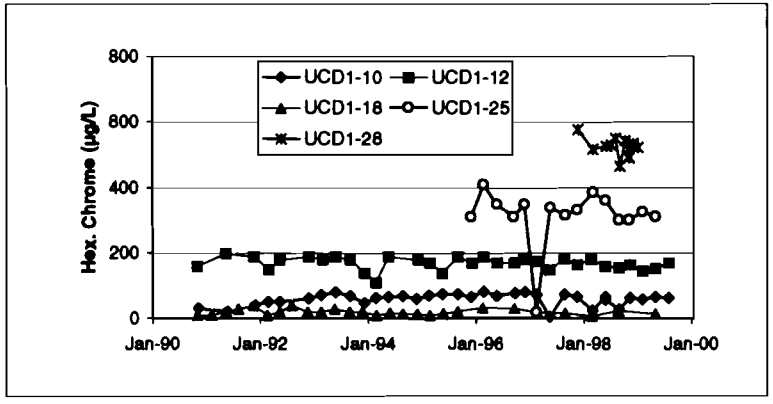
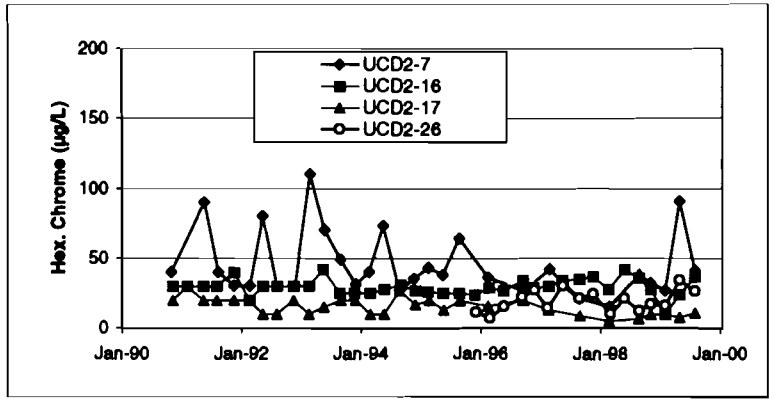
FIGURE 19





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

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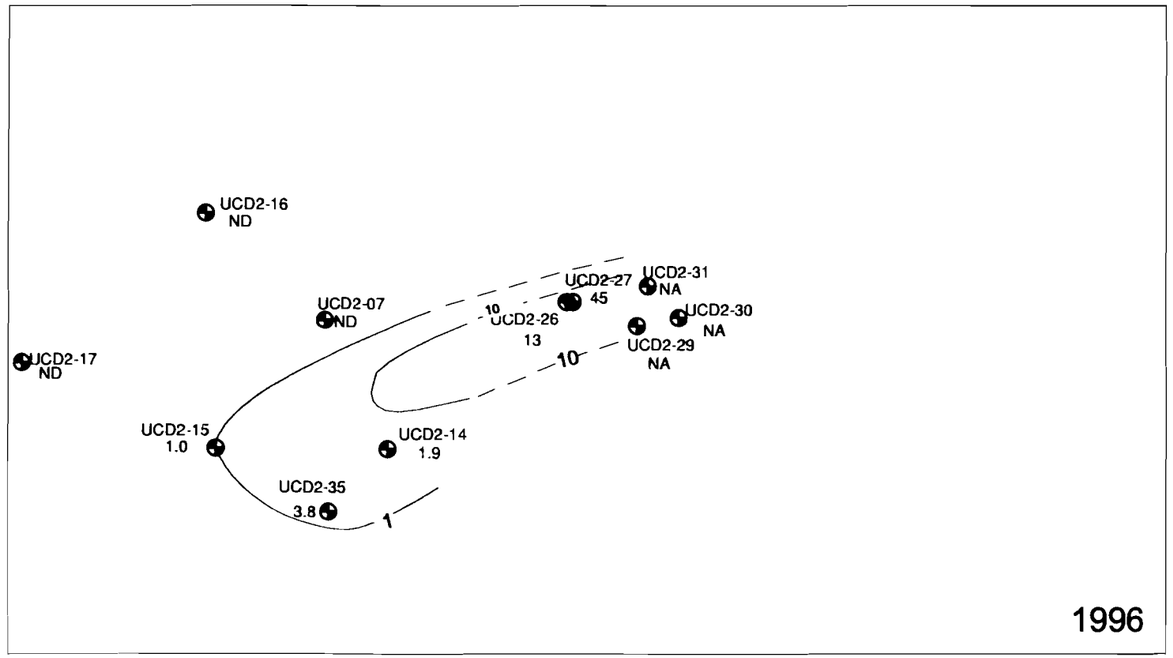
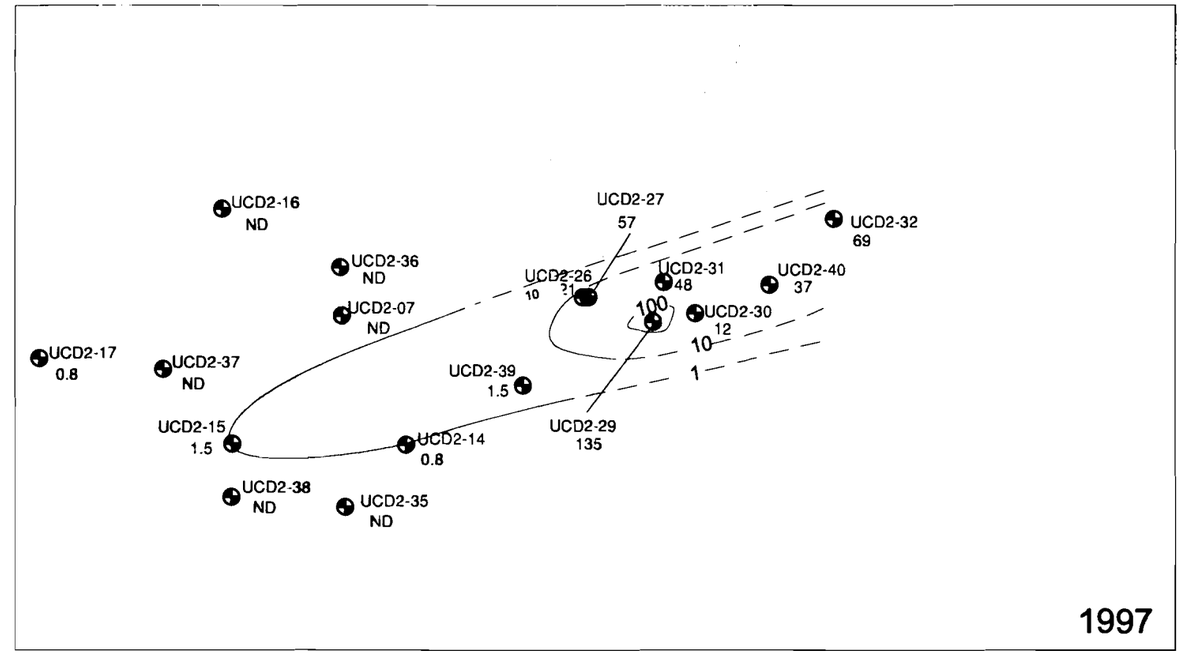
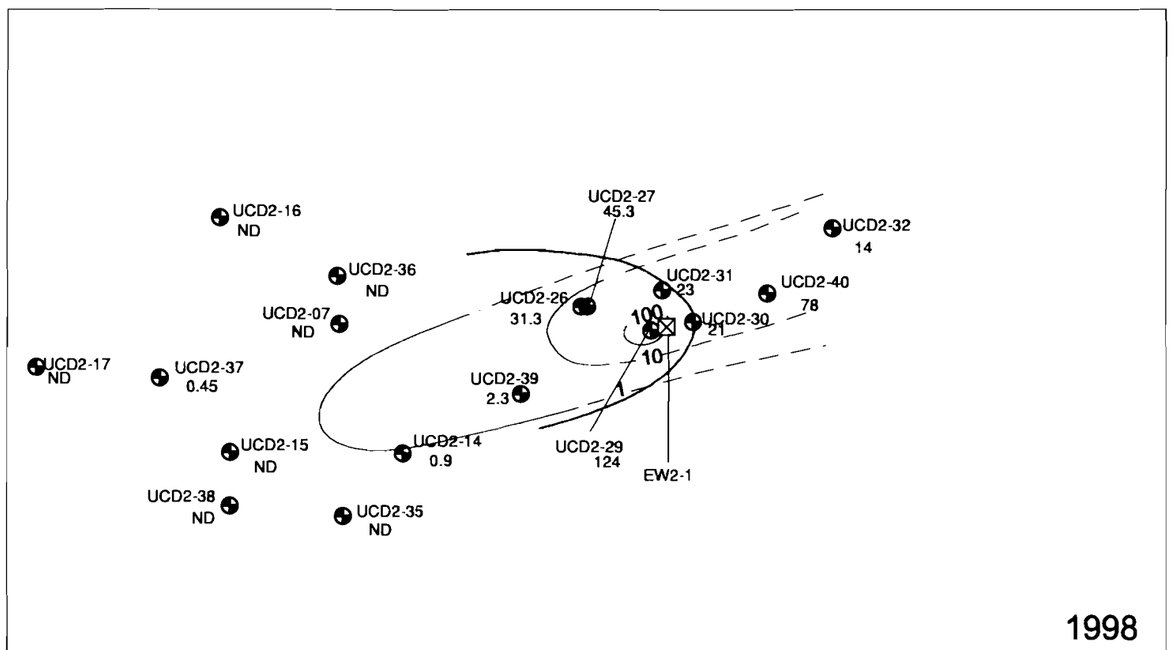
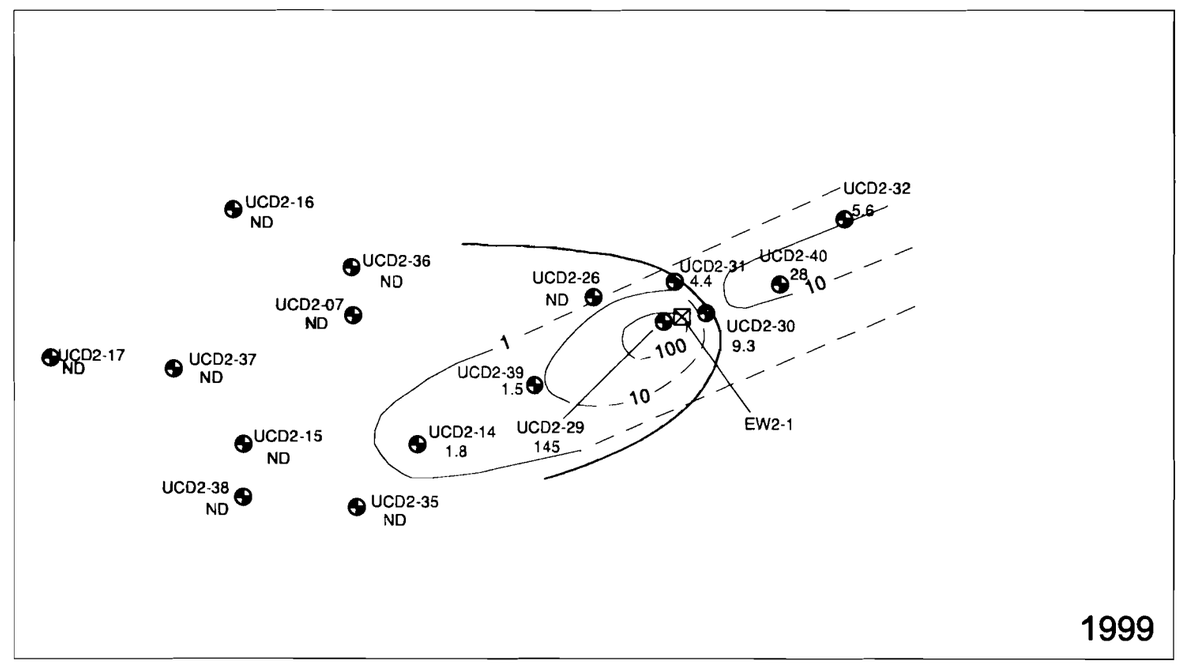
FIGURE 20









LEGEND
- UCD2-1 HSU-2 Monitoring Well
- EW2-1 HSU-2 Extraction Well
- Estimated Capture Zone, Groundwater IRA
- All results reported in ug/L
- Result represent average of quarterly data
- NA = Not Analyzed
- ND = Not Detected

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CHLOROFORM ISOCONCENTRATION CONTOURS IN HSU-2, 1996 THROUGH 1999
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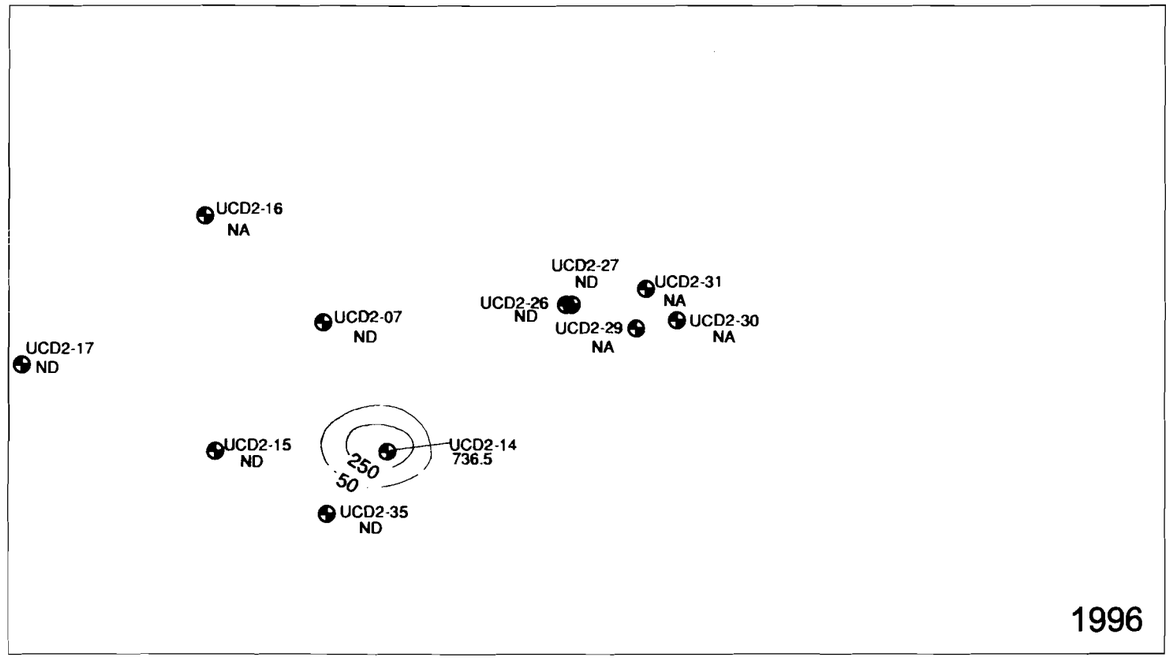
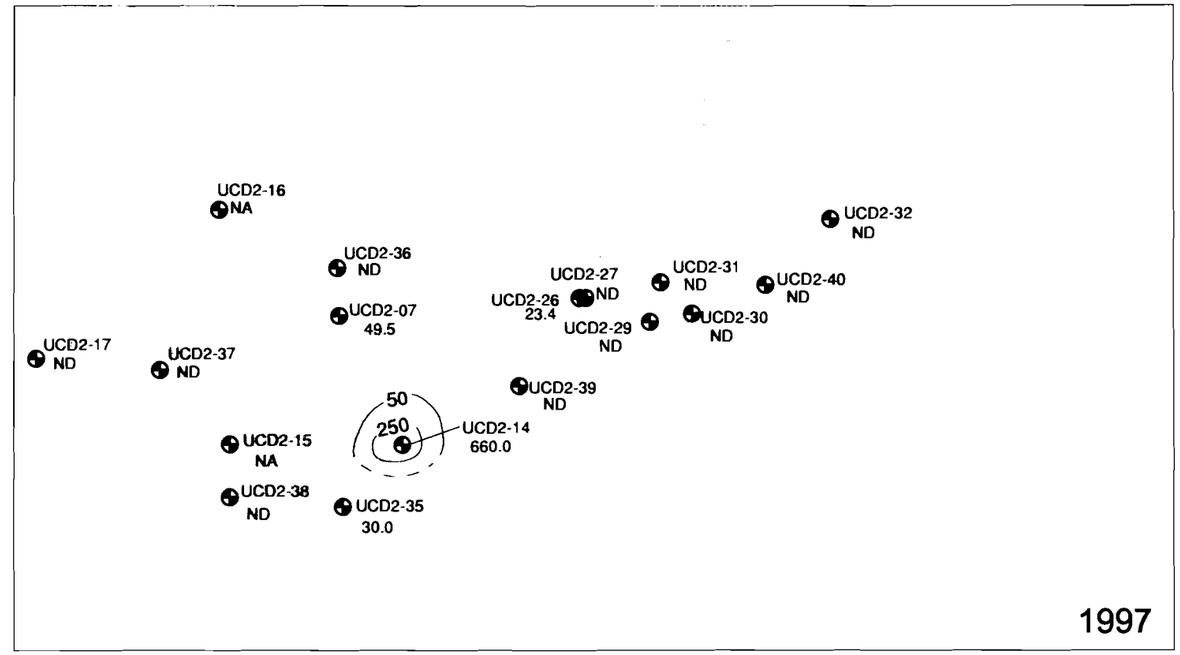
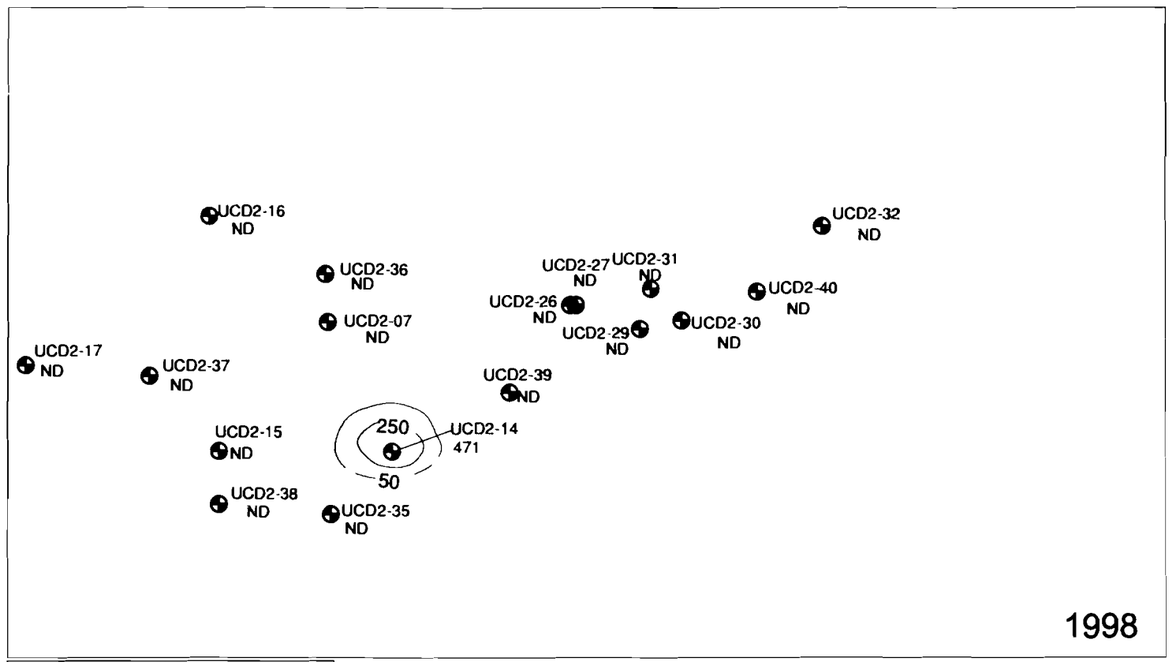
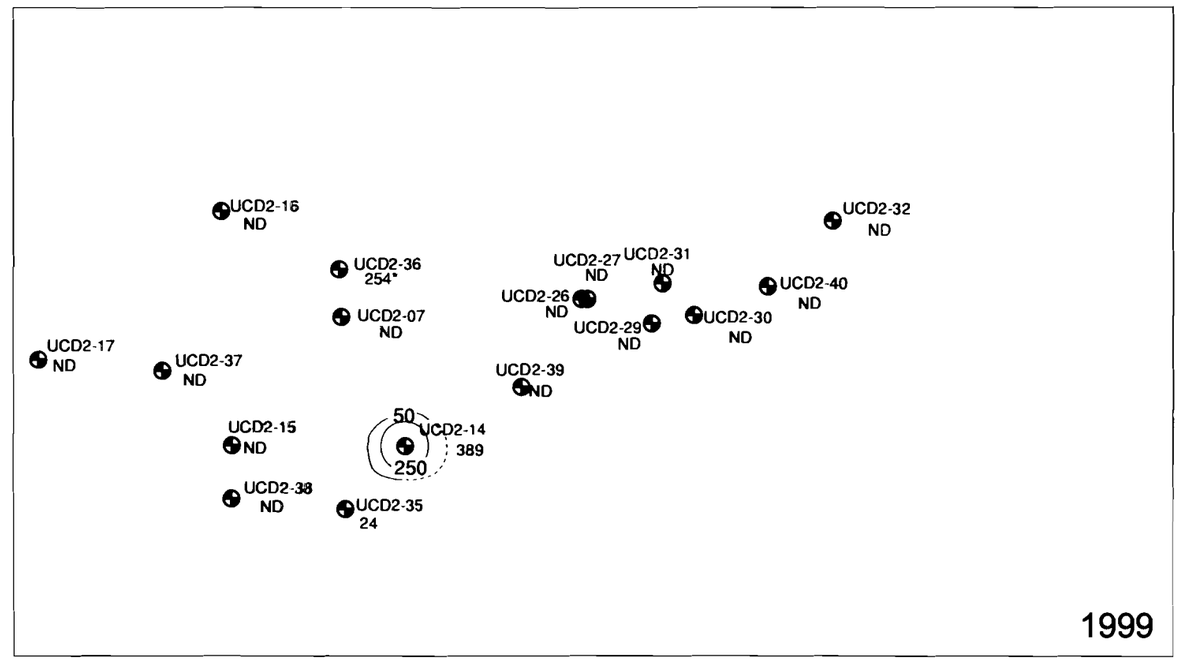
Figure 21









LEGEND

UCD2-17 HSU-2 Monitoring Well
All results reported in pCi/L
Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

* Result appears to anomolous, not used in contouring.

CARBON-14 ISOCONCENTRATION CONTOURS IN HSU-2, 1996 Through 1999
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Figure 22

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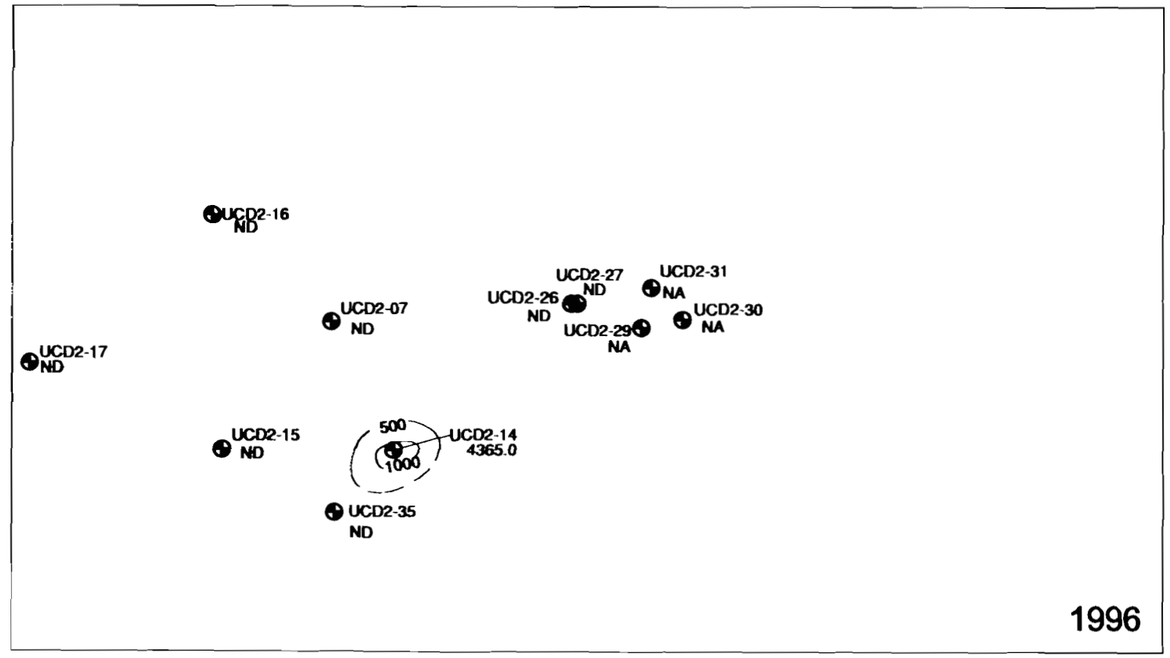

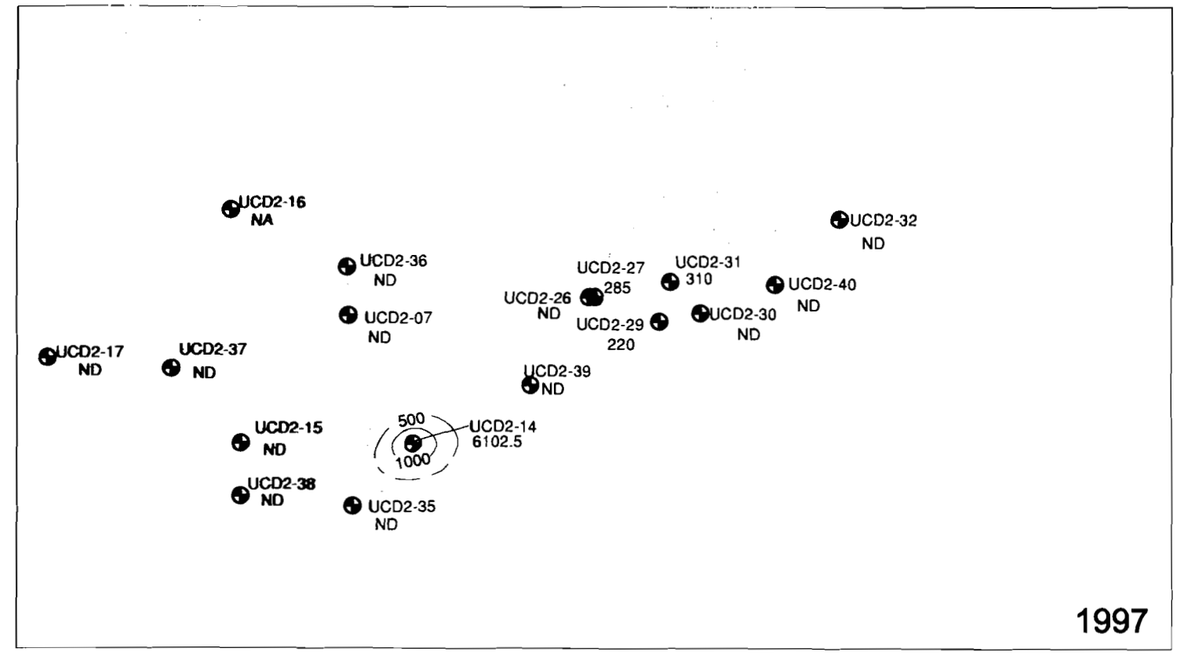

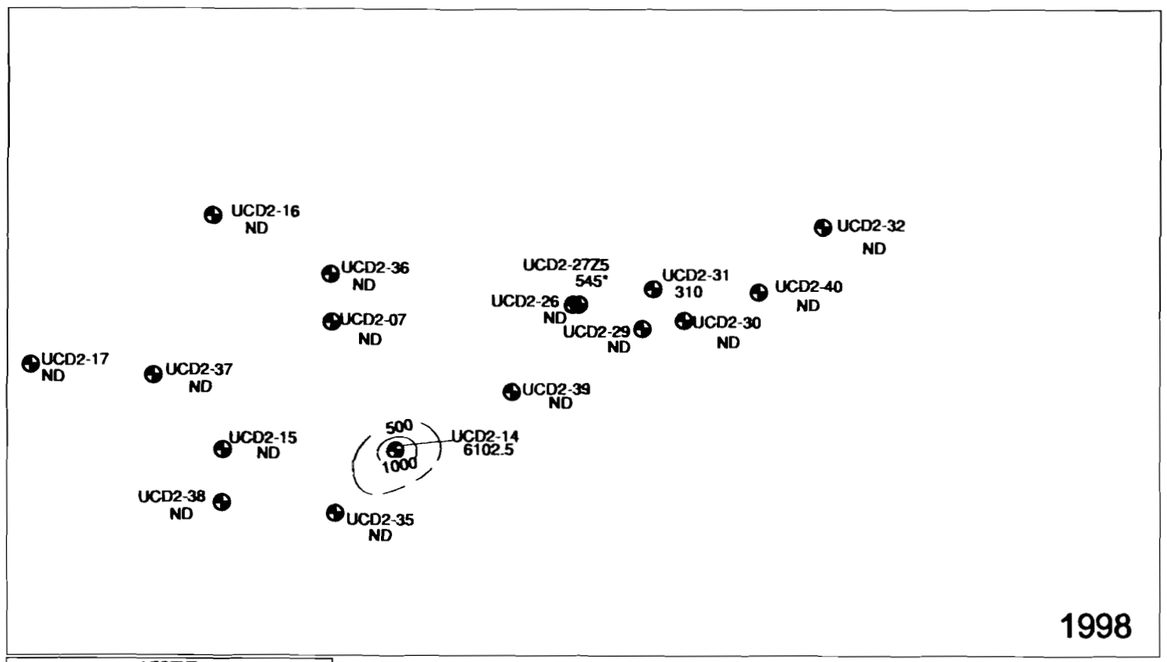

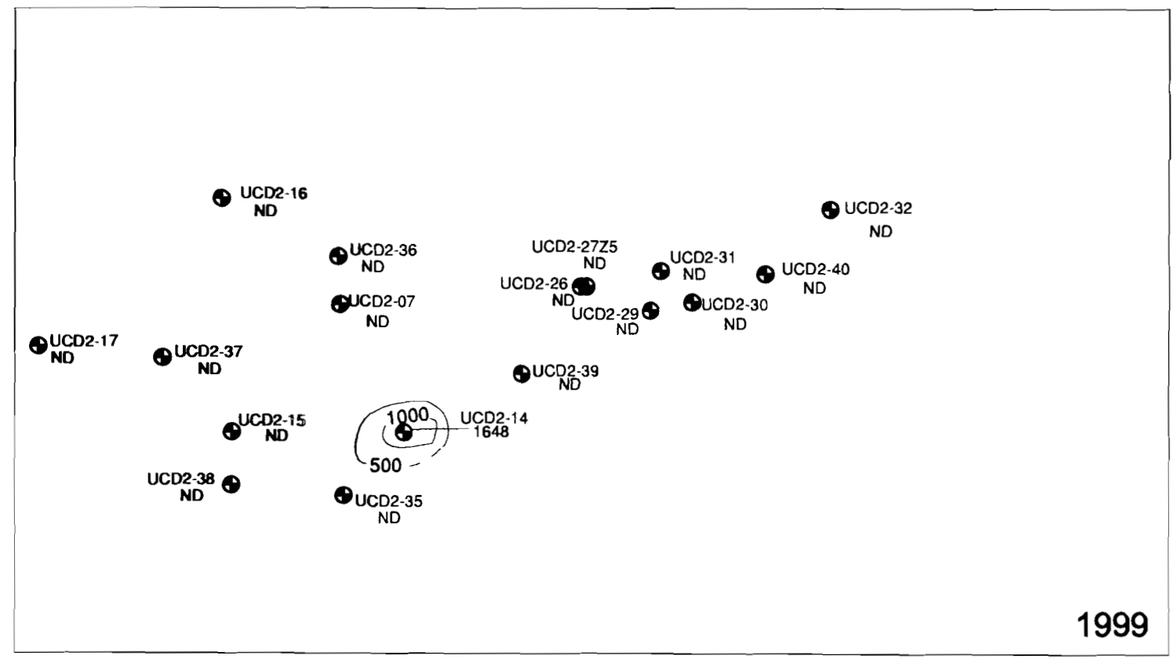

LEGEND

UCD2-17 HSU-2 Monitoring Well
All results reported in pCi/L
Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

TRITIUM ISOCONCENTRATION CONTOURS IN HSU-2, 1996 Through 1999

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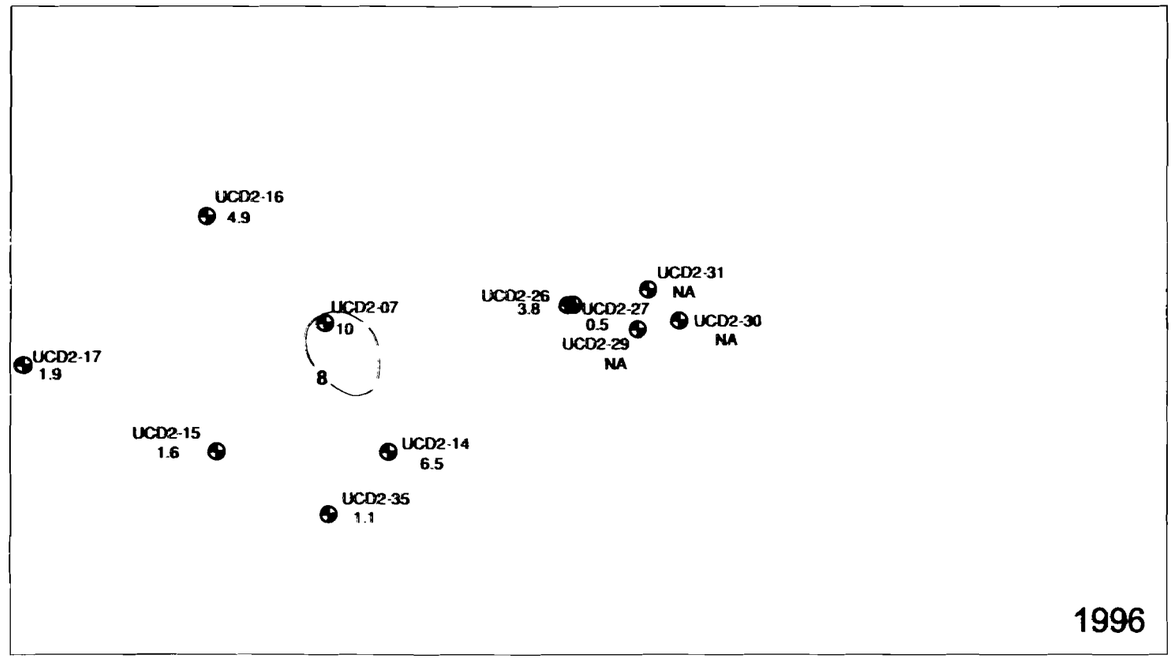
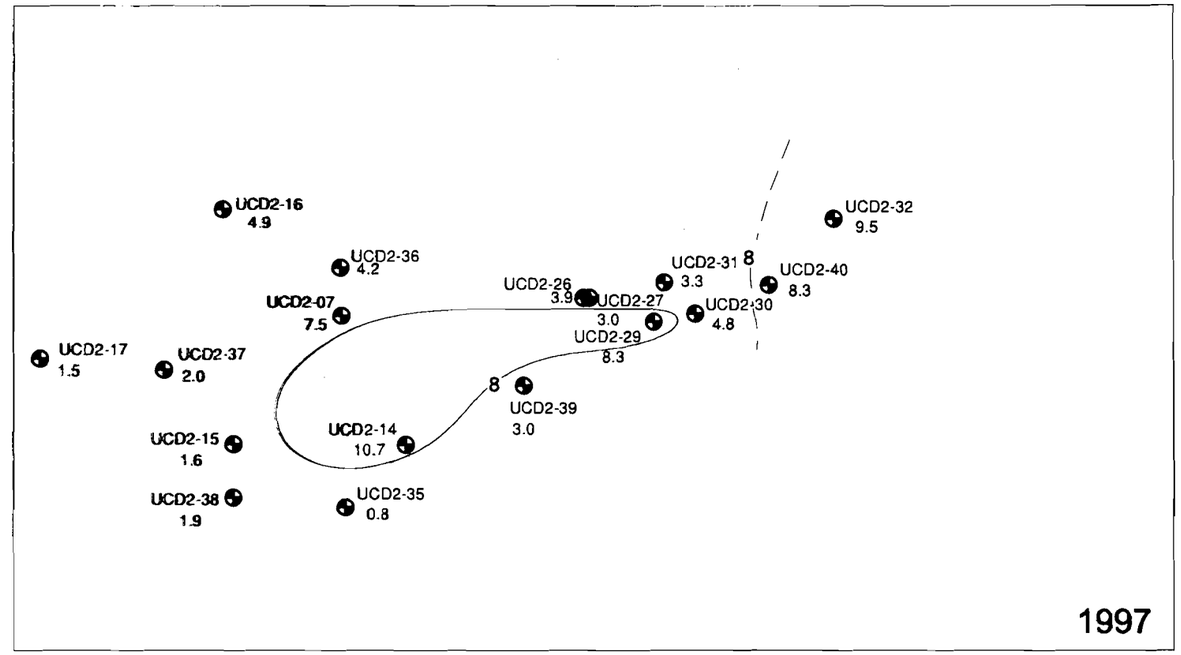
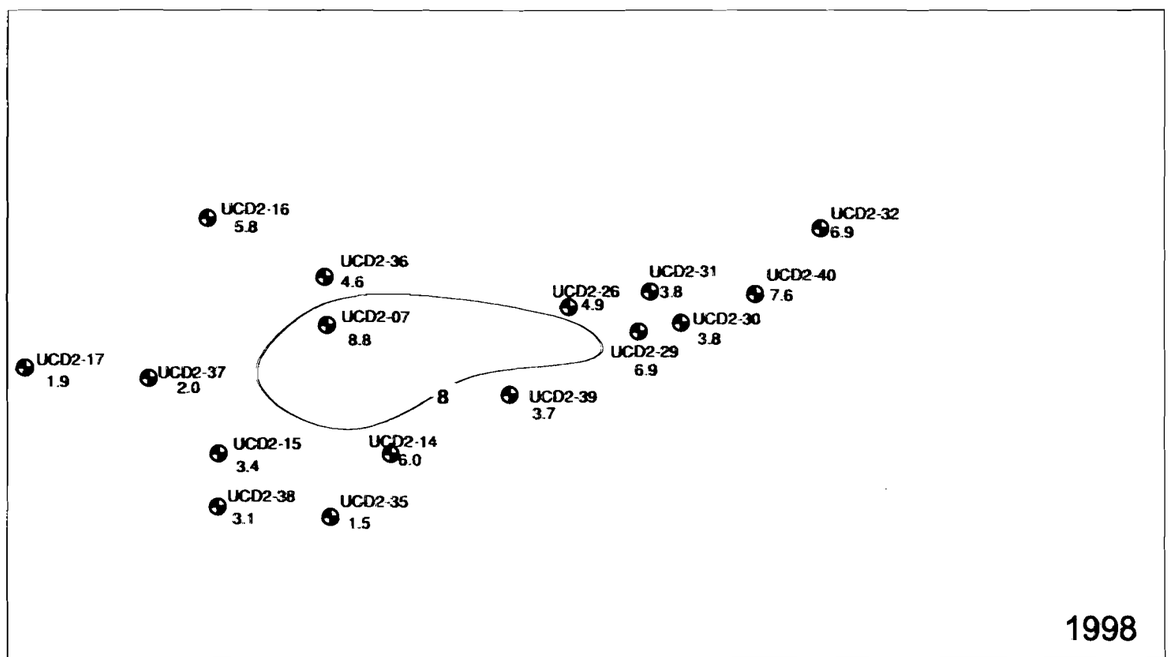
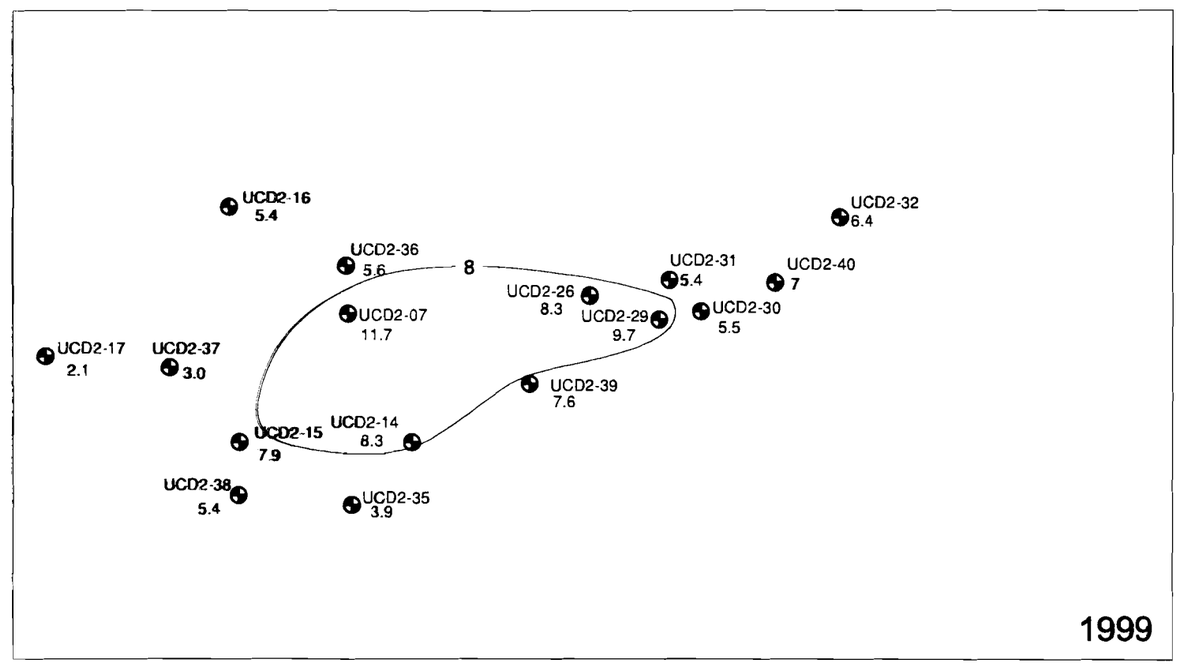
Figure 23









LEGEND

UCD2-17 HSU-2 Monitoring Well
All results reported in mg/L
Result represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

NITRATE AS N ISOCONCENTRATION CONTOURS IN HSU-2, 1996 Through 1999
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Figure 24

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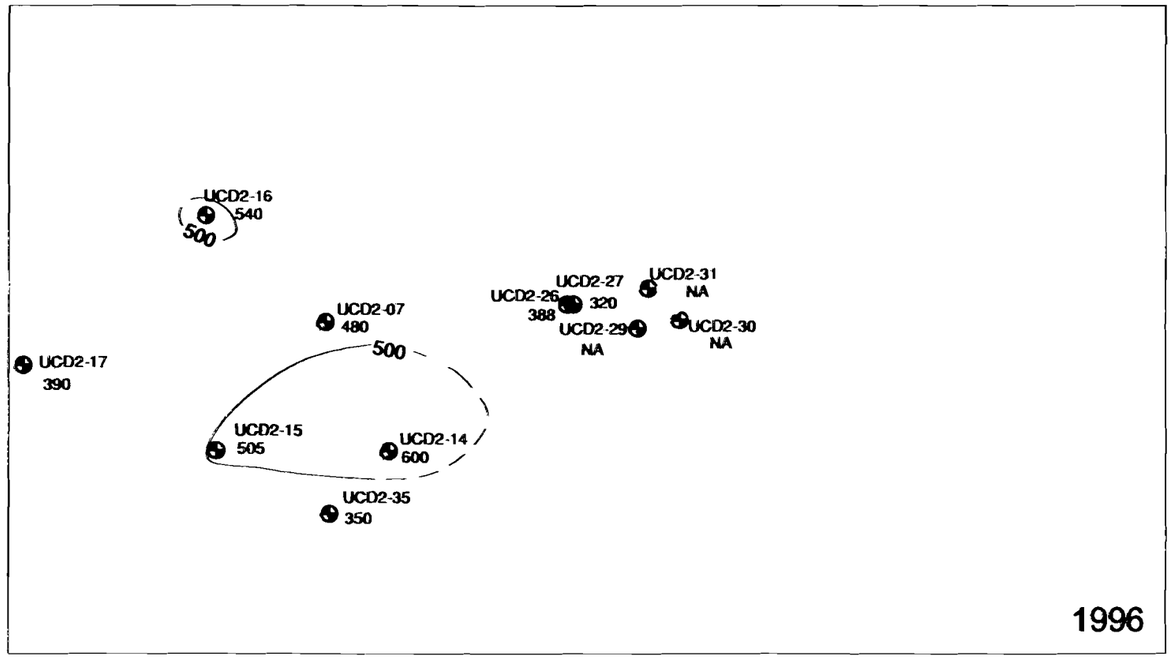

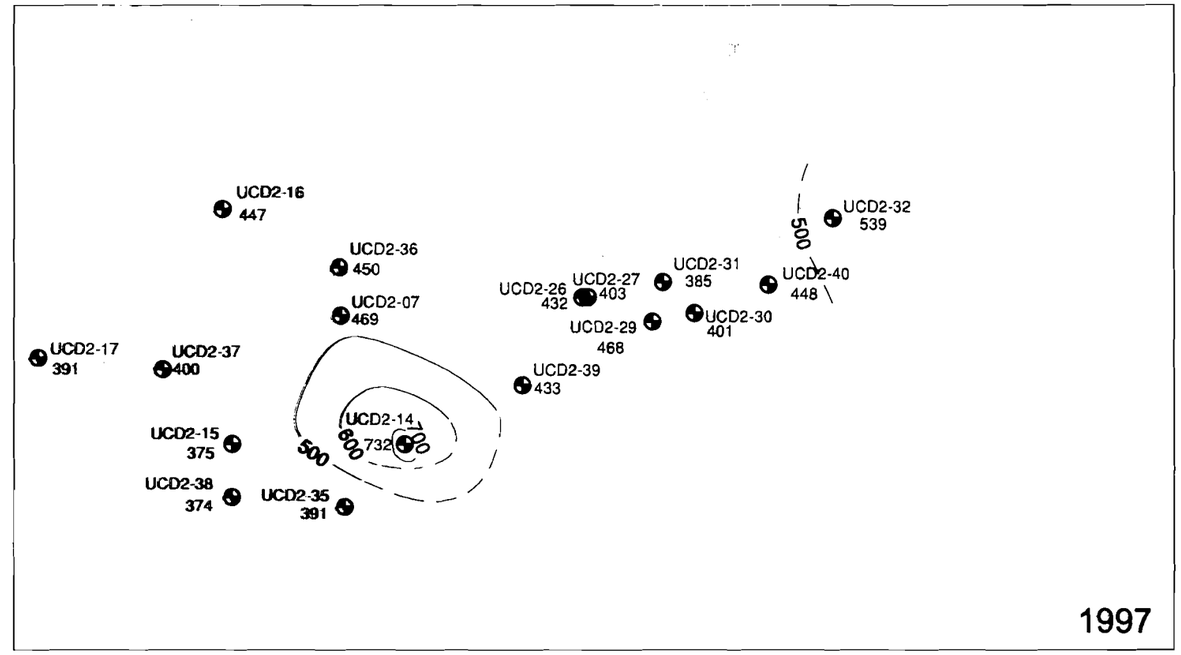

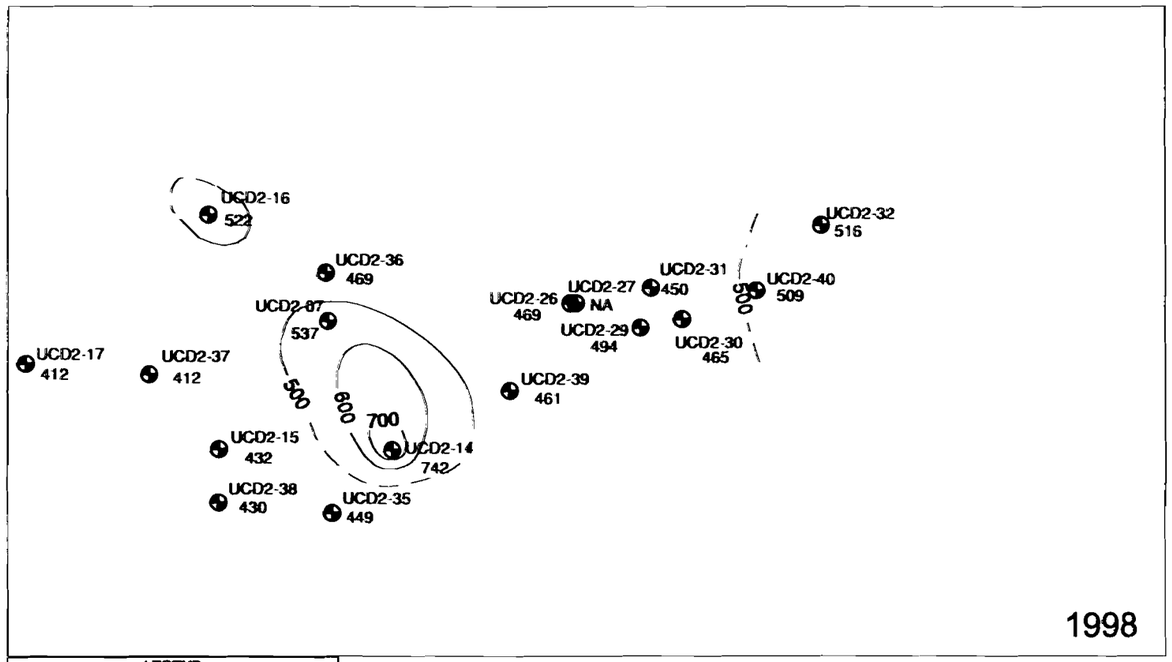

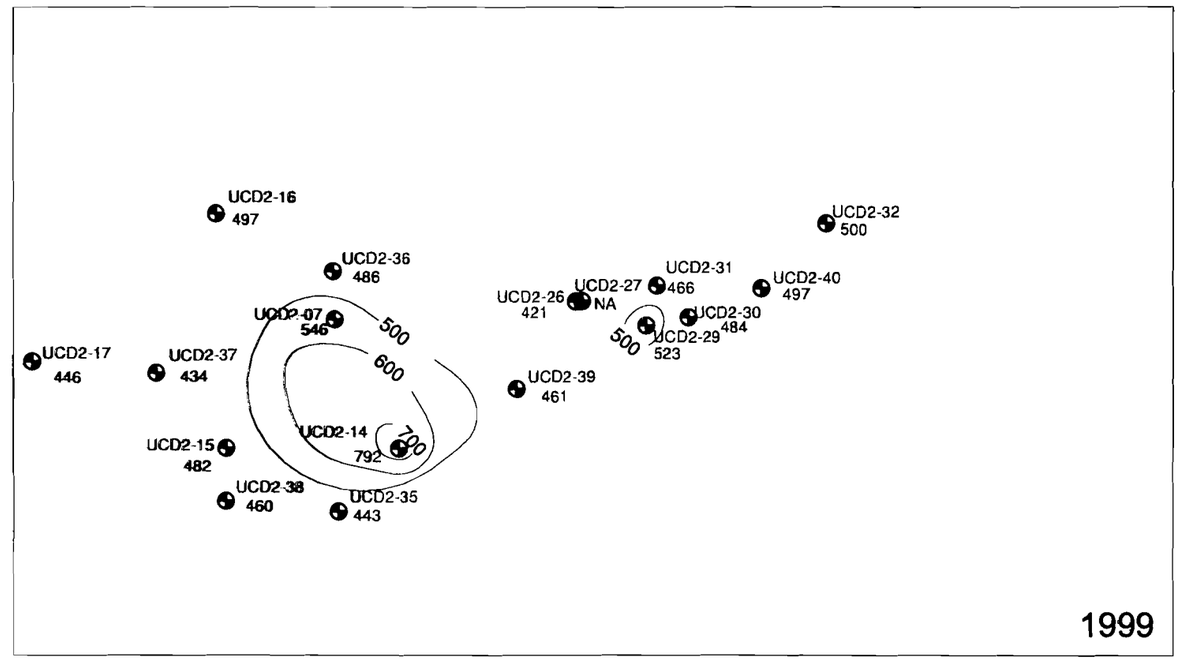

LEGEND

UCD2-17 HSU-2 Monitoring Well
All results reported in mg/L
Result represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

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TDS ISOCONCENTRATION CONTOURS IN HSU-2, 1996 Through 1999
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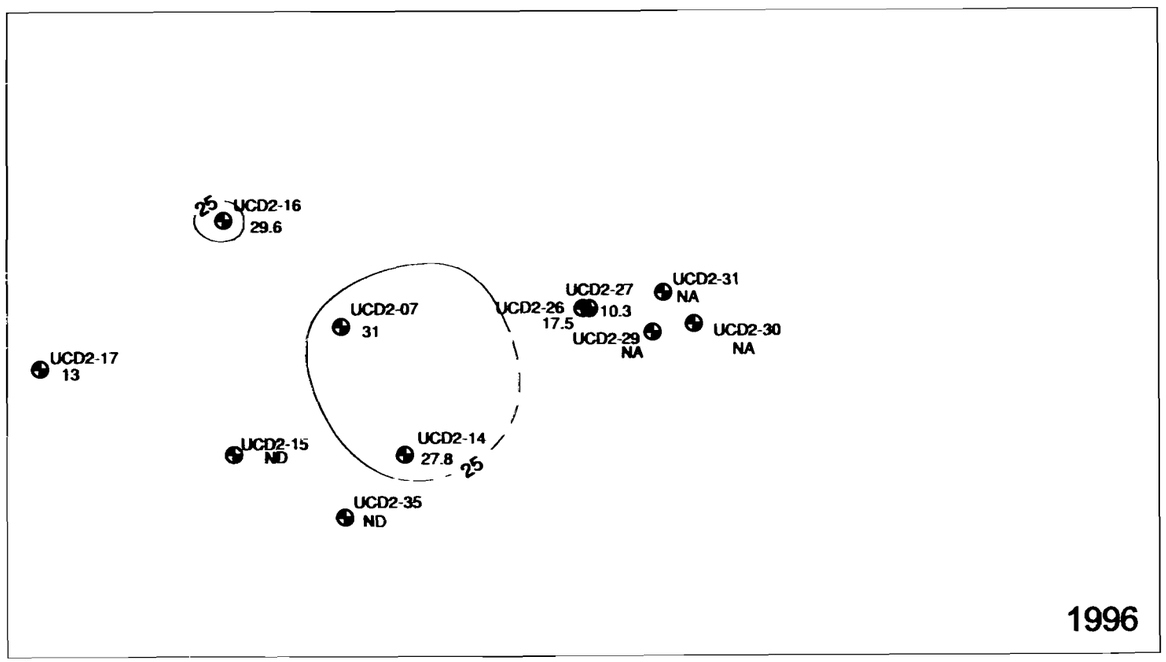

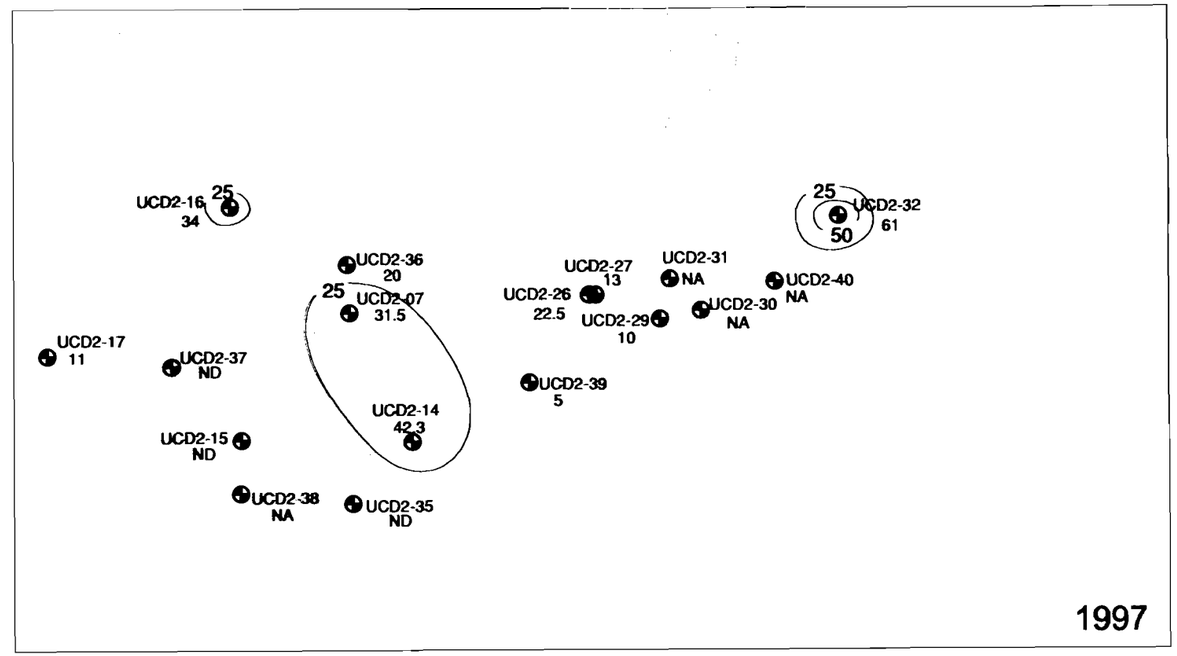

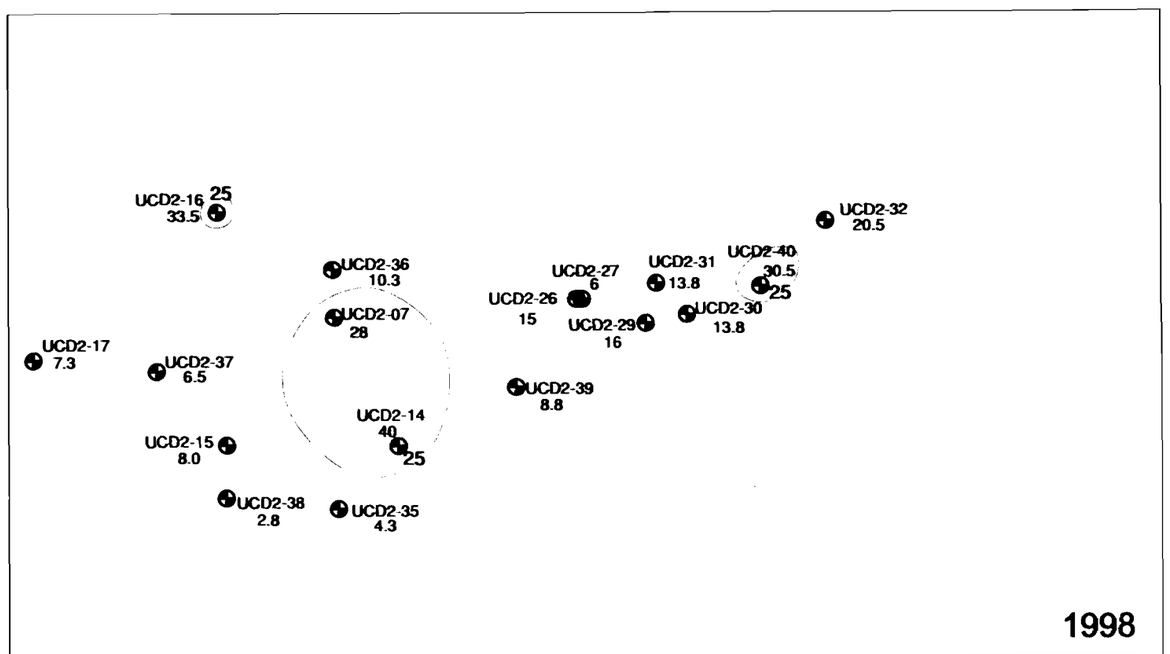

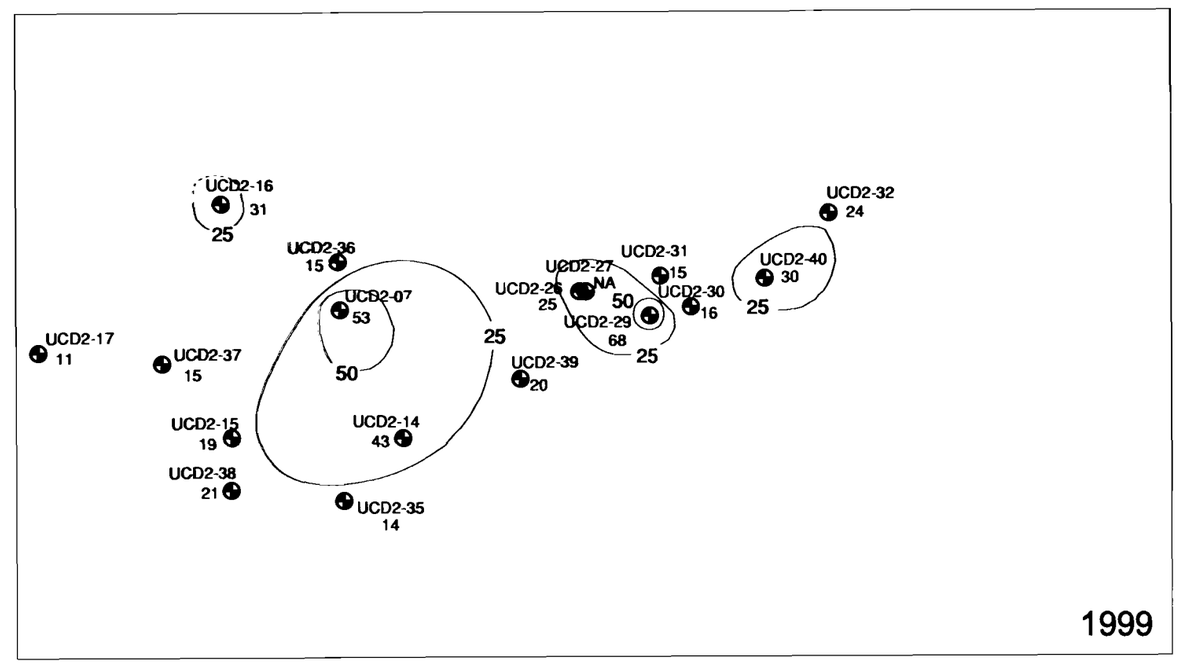

LEGEND

- UCD2-17 HSU-2 Monitoring Well
- All results reported in ug/L.
- Result represent average of quarterly data
- NA = Not Analyzed
- ND = Not Detected

HEXAVALENT CHROMIUM ISOCONCENTRATION CONTOURS IN HSU-2, 1996 Through 1999

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Figure 26

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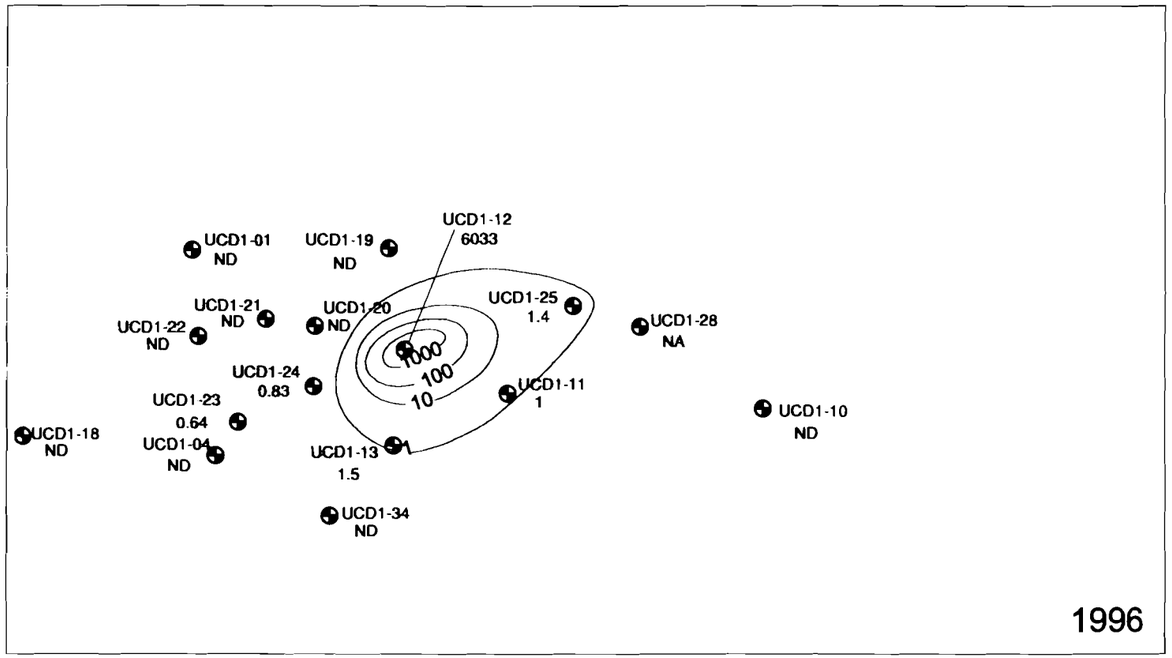
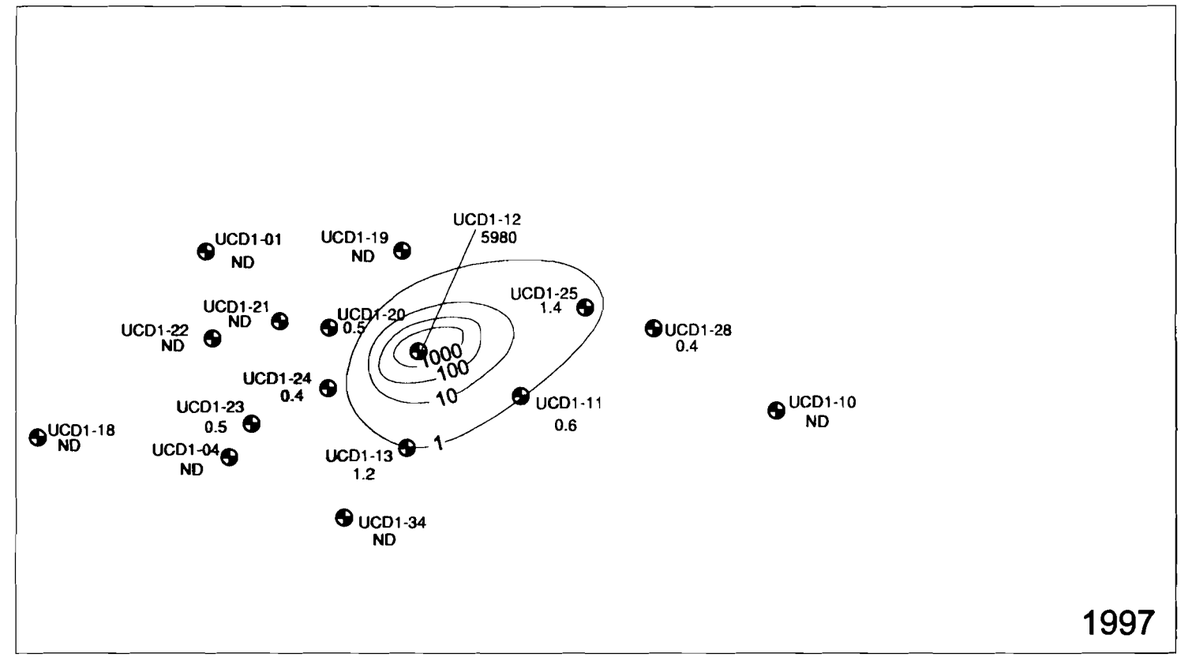
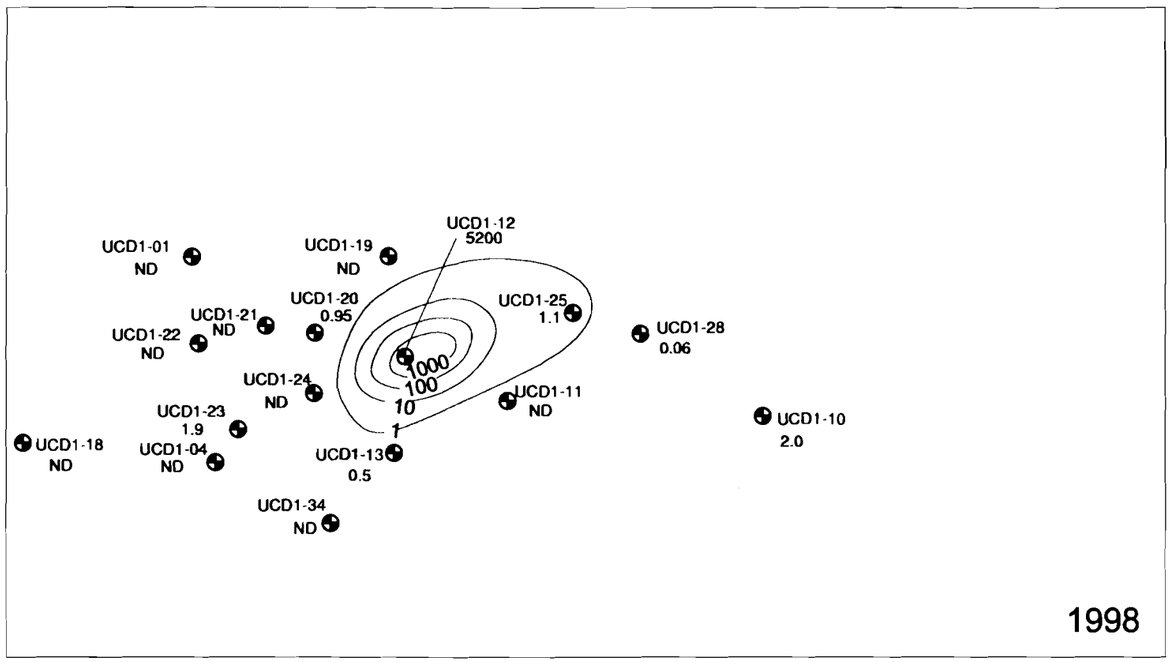
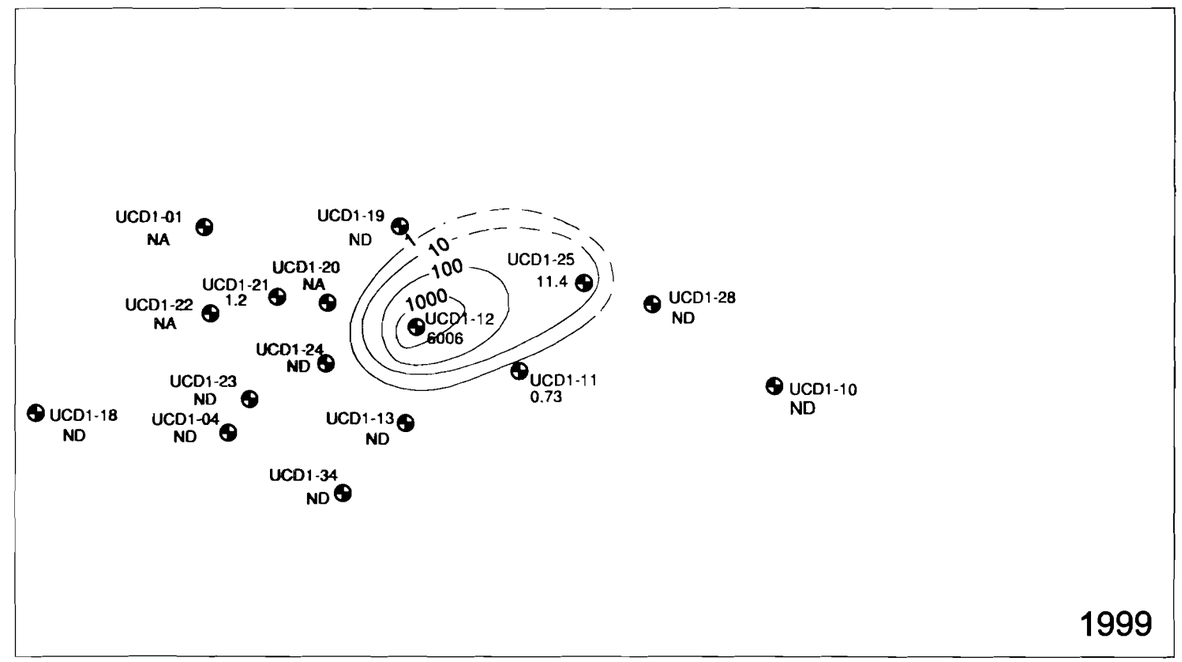
A DAMES & MOORE GROUP COMPANY









LEGEND

UCD1-11 HSU-1 Monitoring Well
All results reported in ug/L
Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

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CHLOROFORM ISOCONCENTRATION CONTOURS IN HSU-1, 1996 THROUGH 1999
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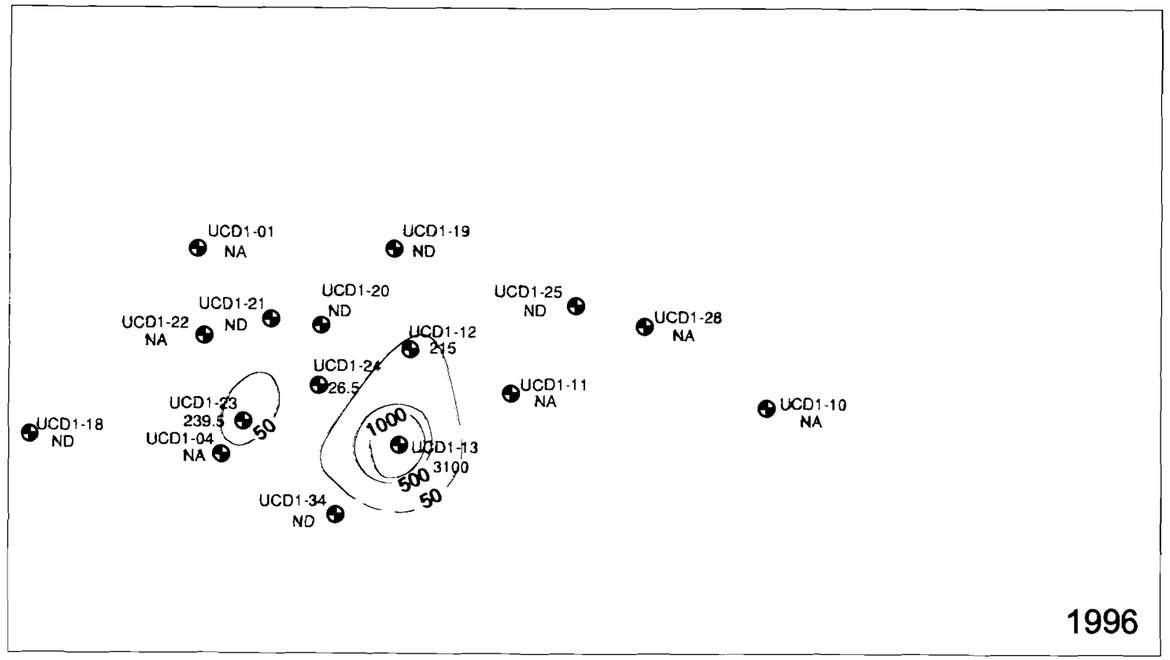
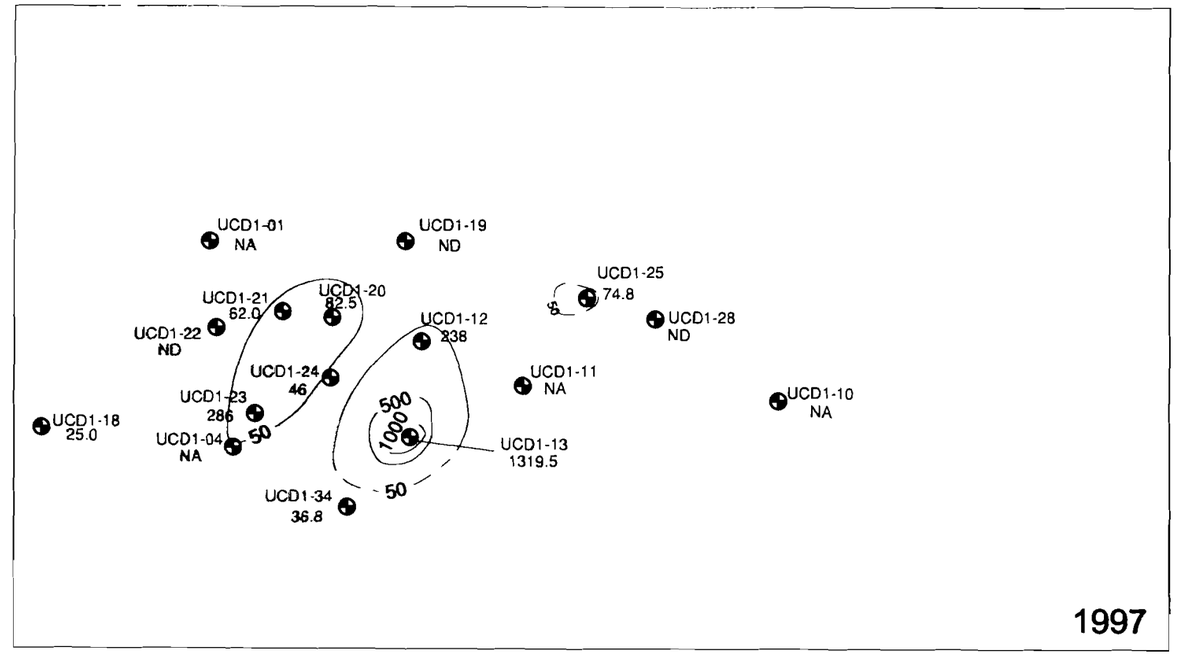
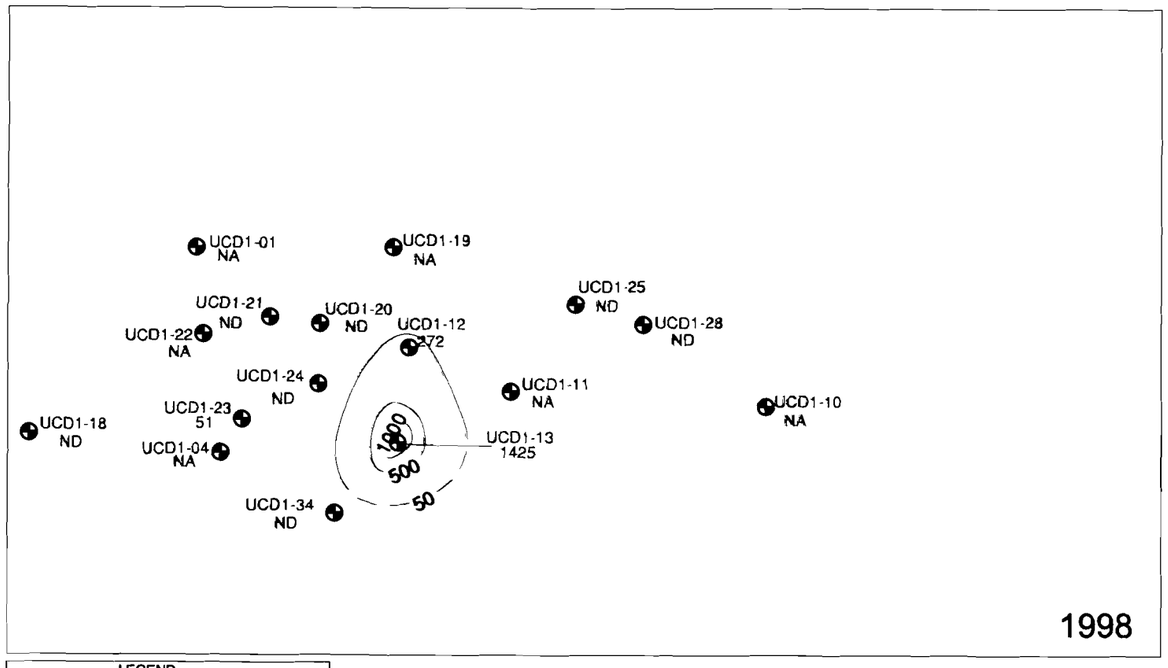
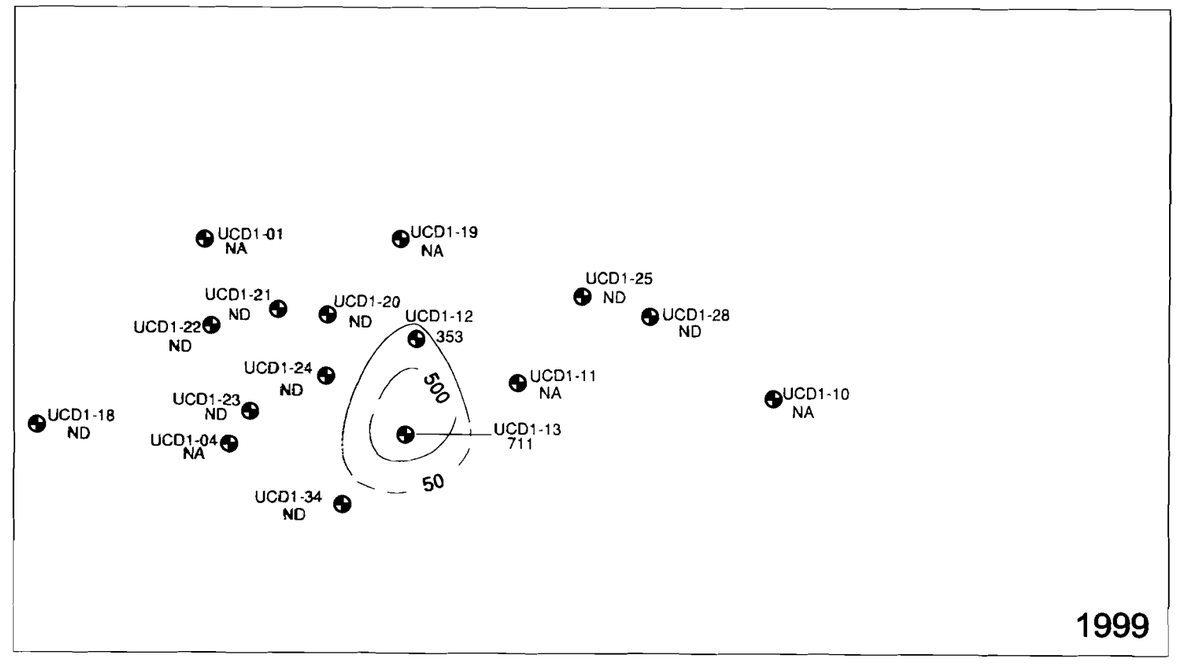
Figure 27









LEGEND

UCD1-11 HSU-1 Monitoring Well
All results reported in pCi/L
Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

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CARBON-14 ISOCONCENTRATION CONTOURS IN HSU-1, 1996 Through 1999
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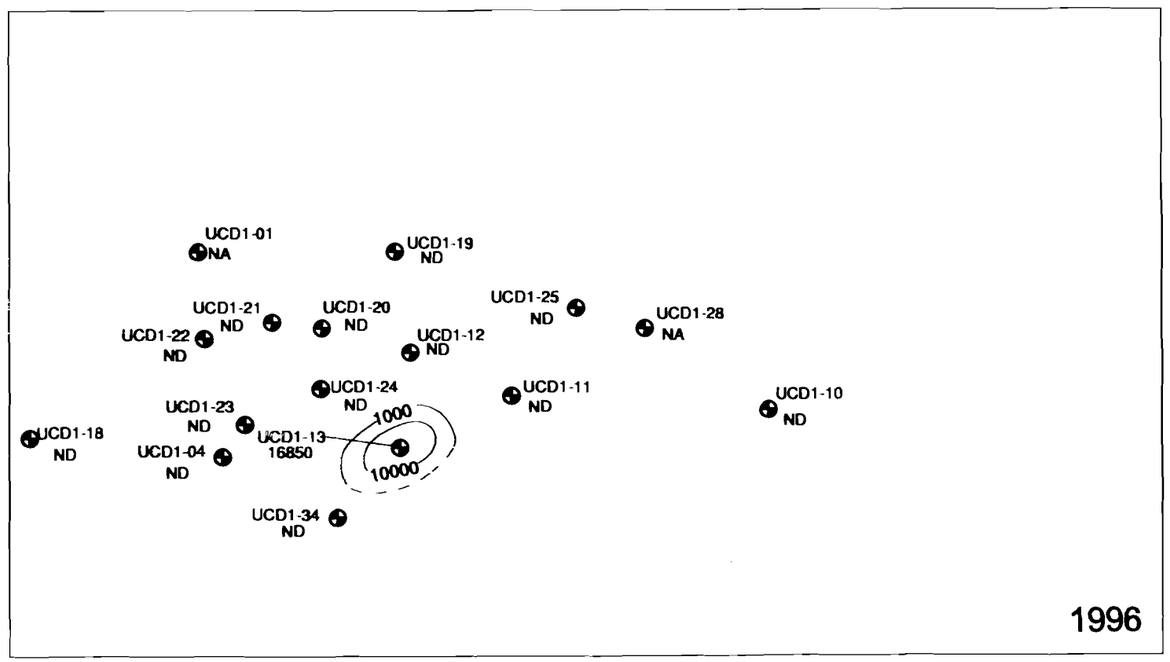
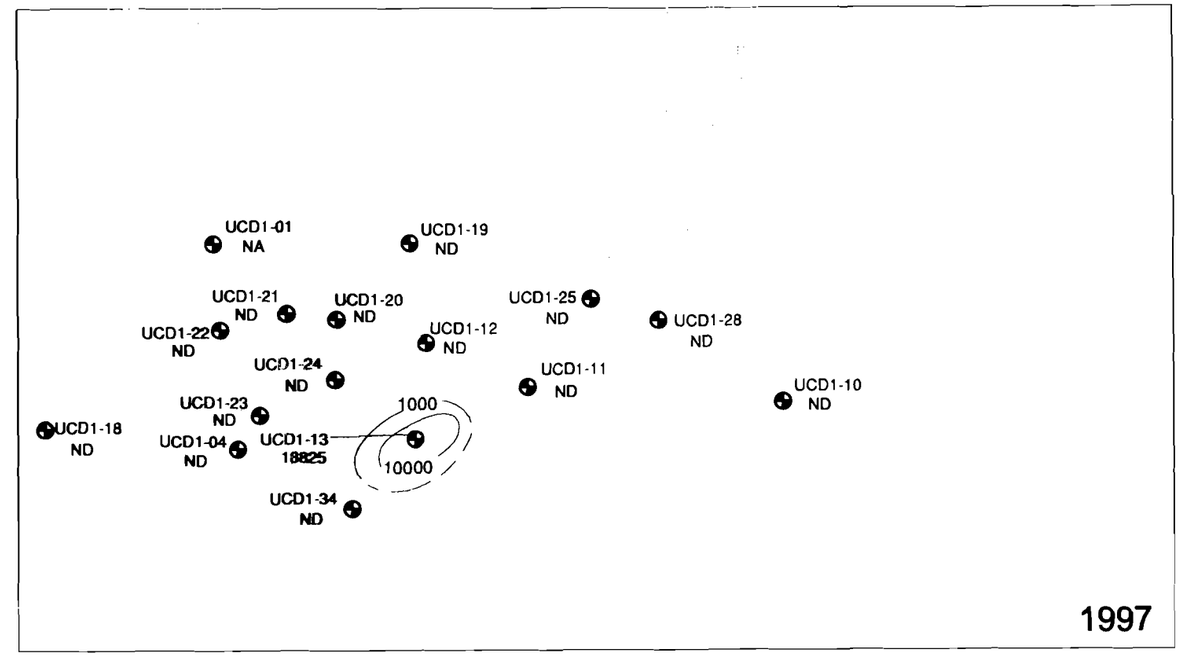
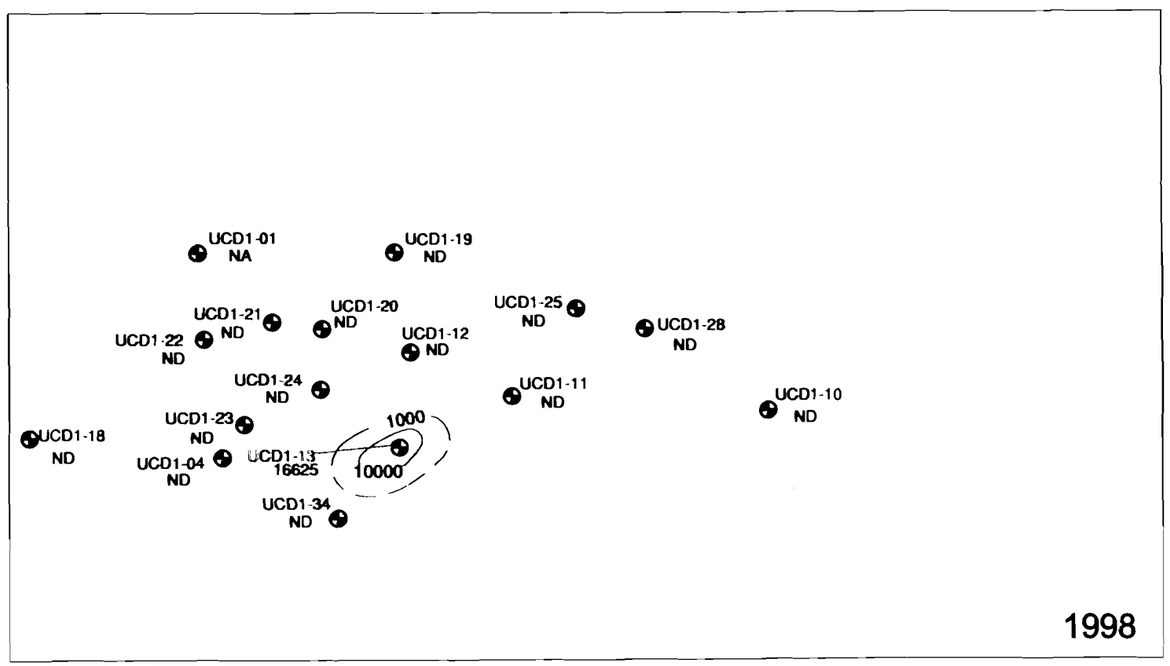
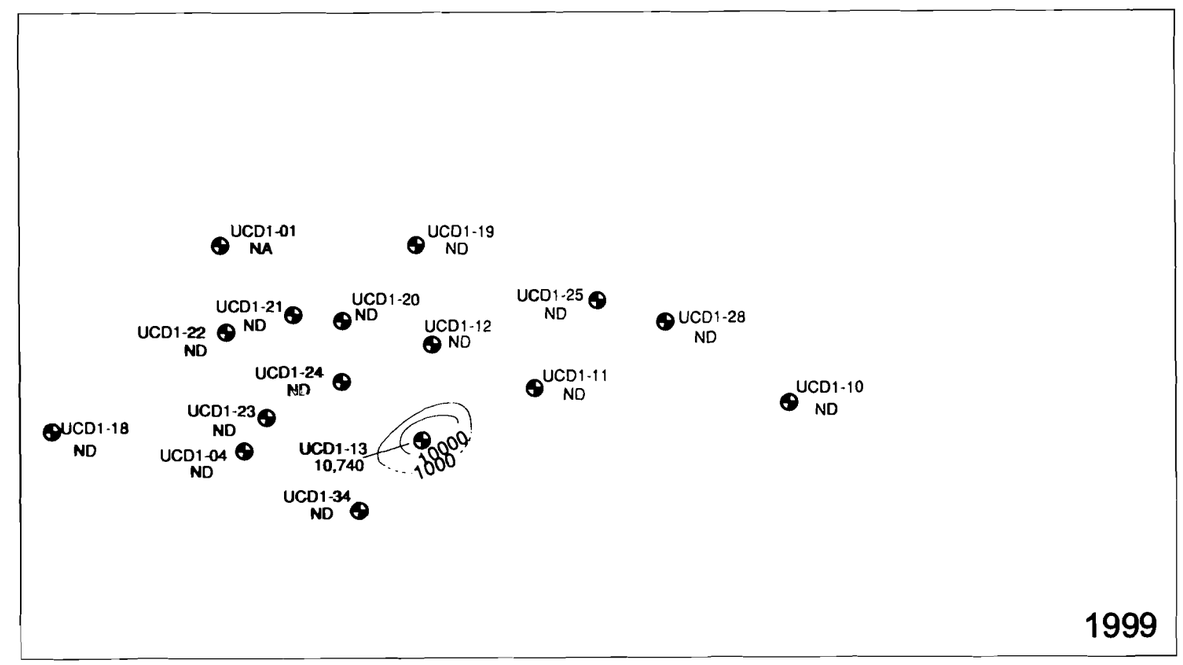
Figure 28









LEGEND

UCD1-11 HSU-1 Monitoring Well
All results reported in pCi/L
Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

TRITIUM ISOCONCENTRATION CONTOURS IN HSU-1, 1996 Through 1999
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DAMES & MOORE
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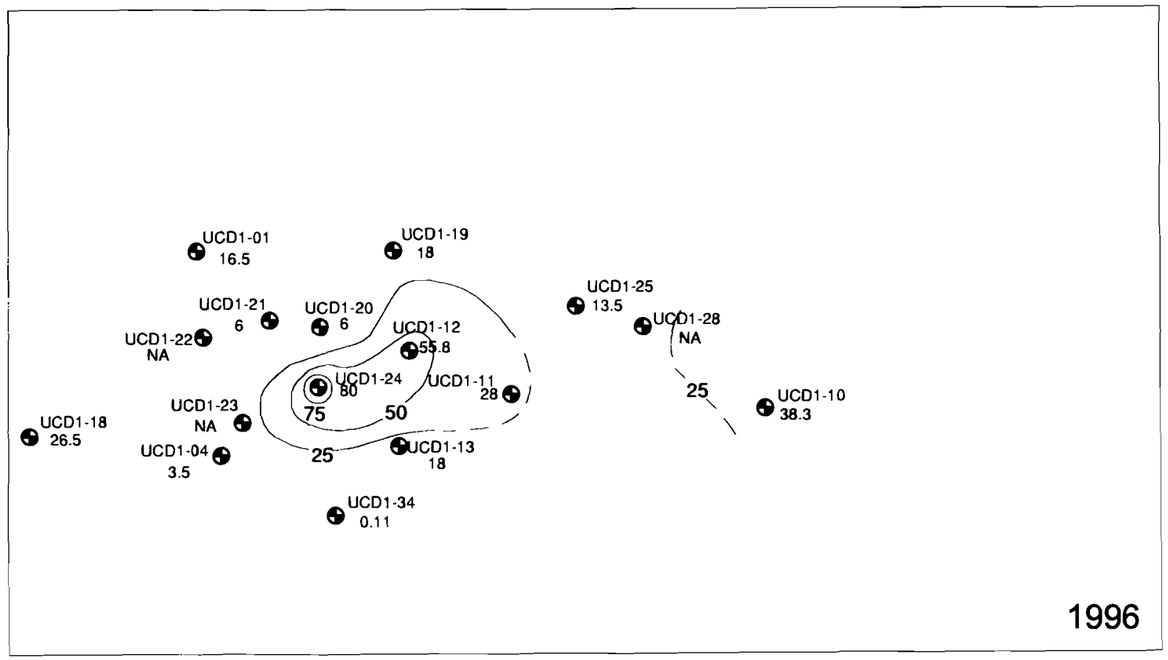

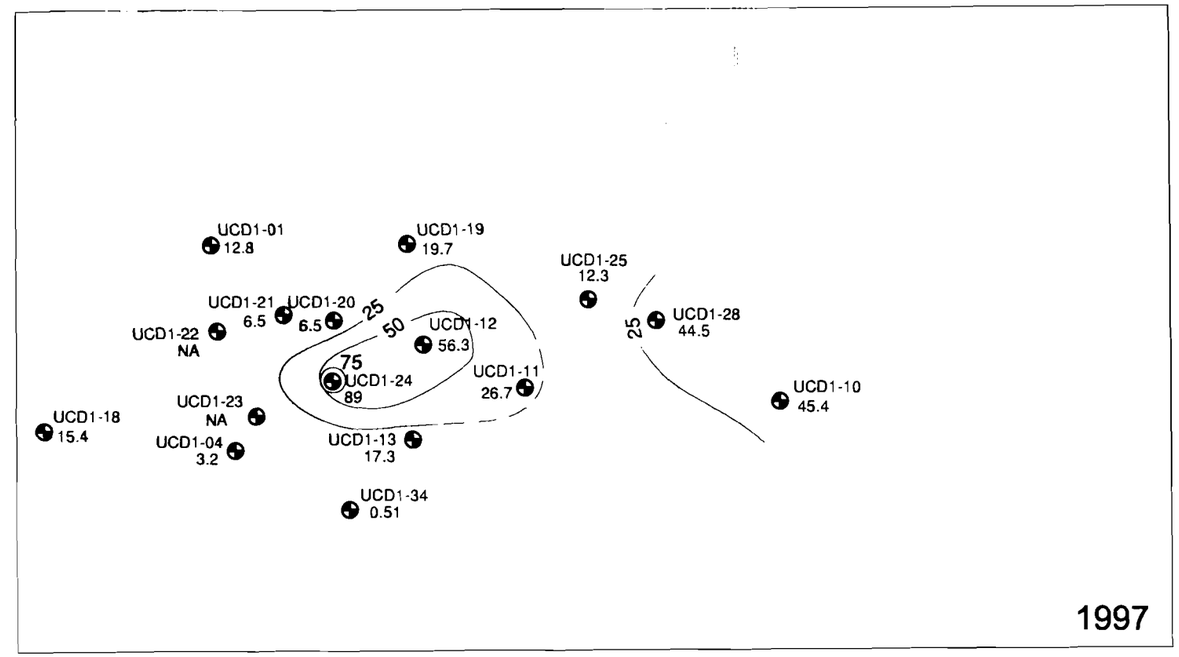

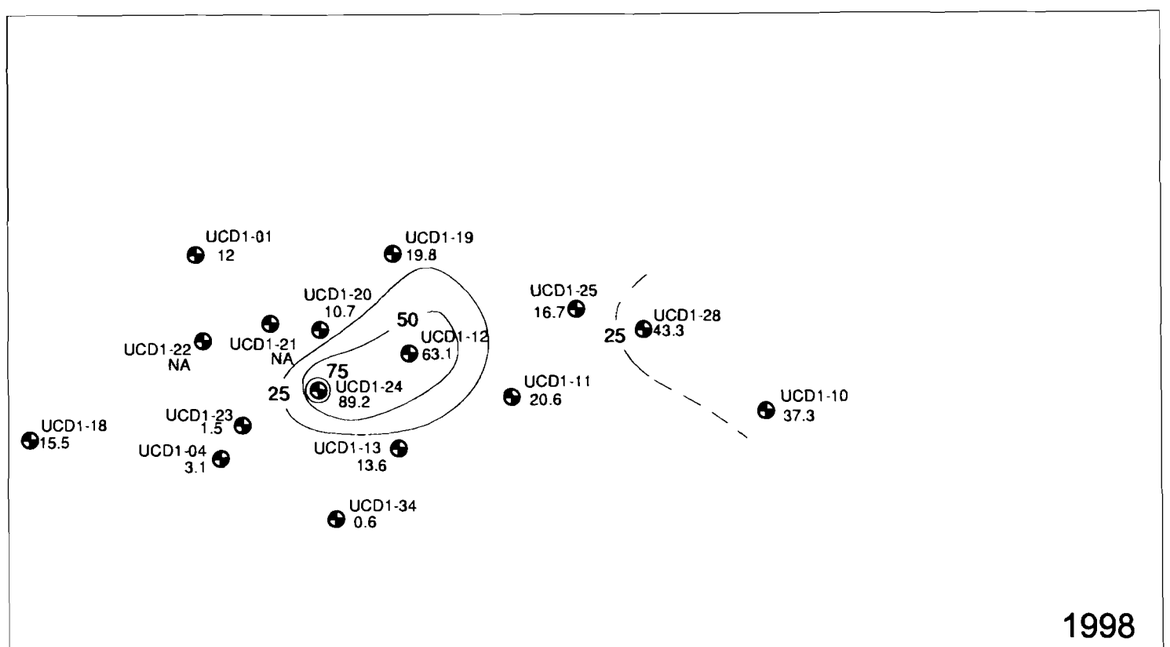

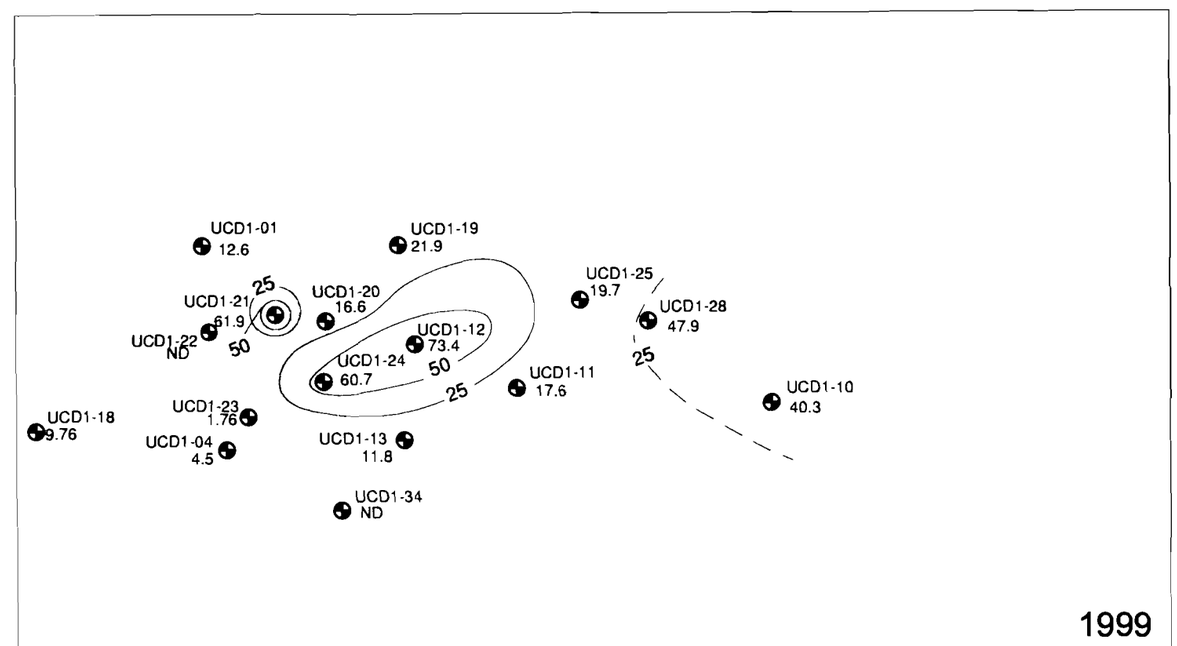

LEGEND

UCD1-11 HSU-1 Monitoring Well
All results reported in mg/L
Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

NITRATE AS N ISOCONCENTRATION CONTOURS IN HSU-1, 1996 Through 1999
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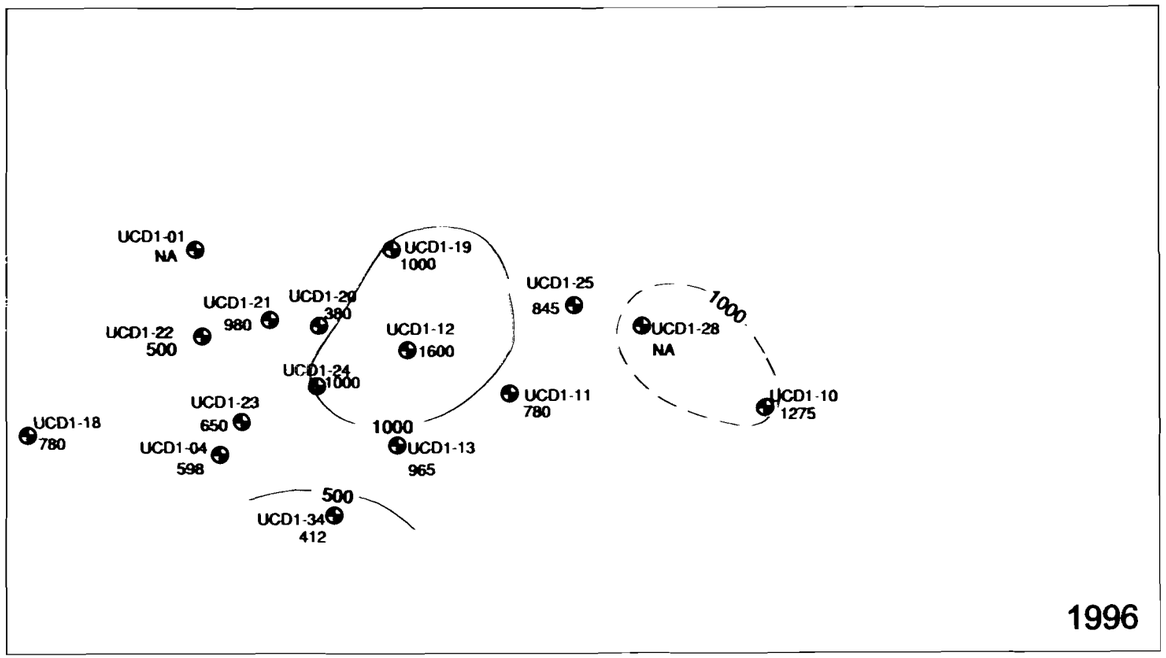
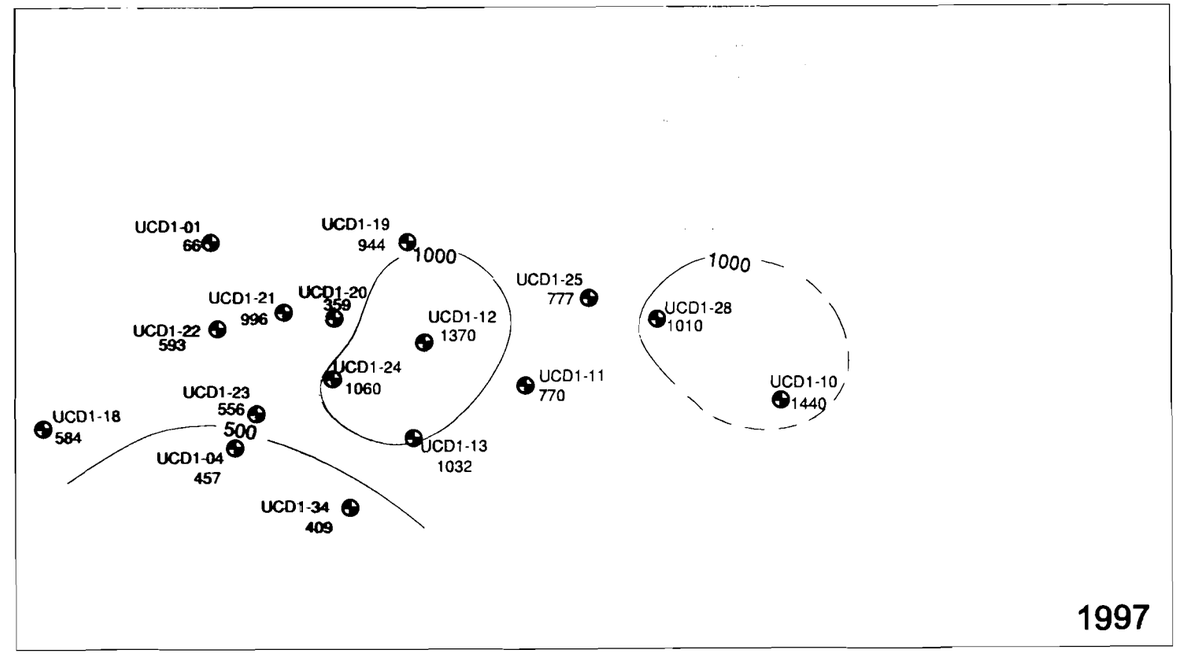
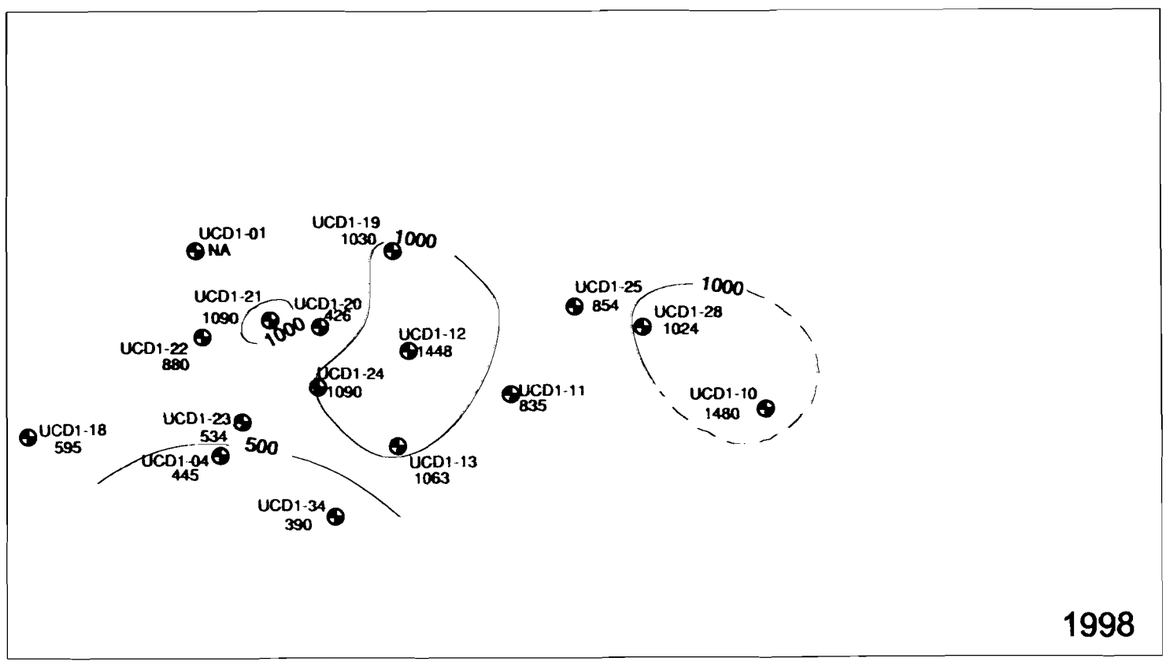
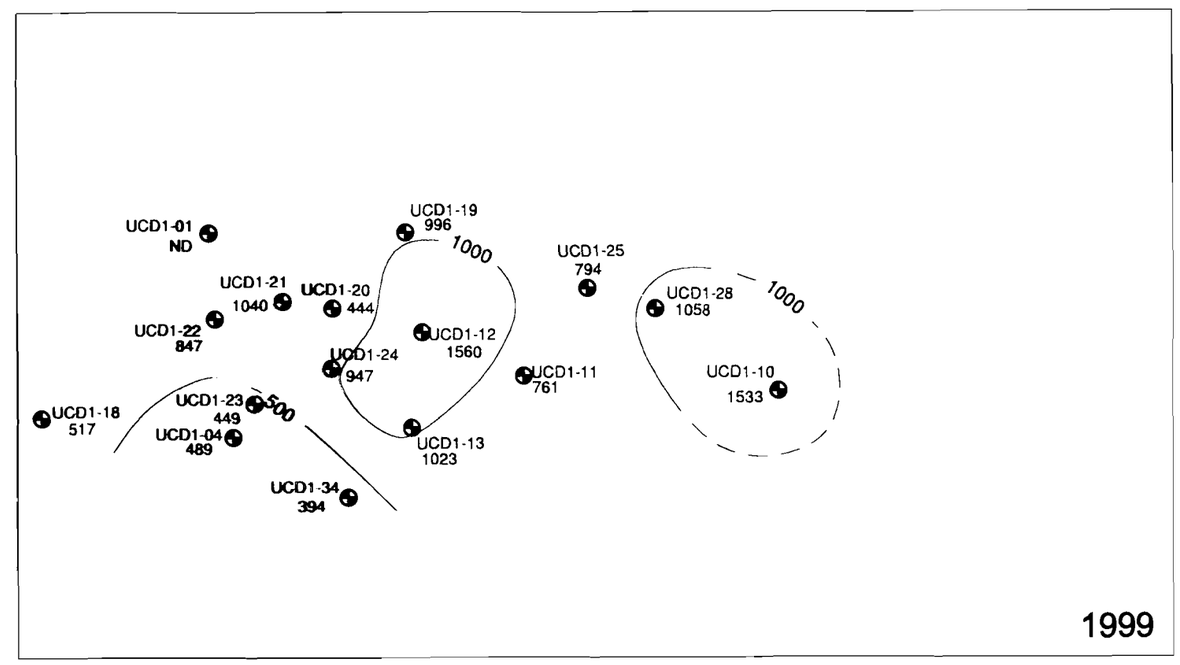
Figure 30

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY









LEGEND

UCD1-11 HSU-1 Monitoring Well
All results reported in mg/L
Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

TDS ISOCONCENTRATION CONTOURS IN HSU-1, 1996 Through 1999
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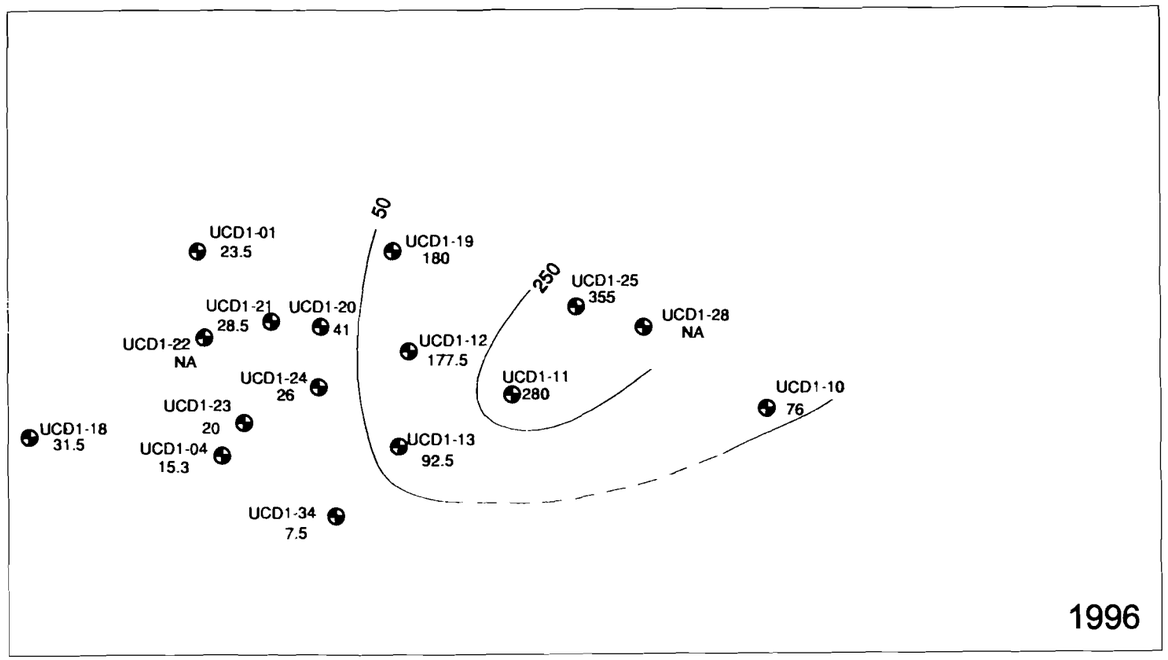
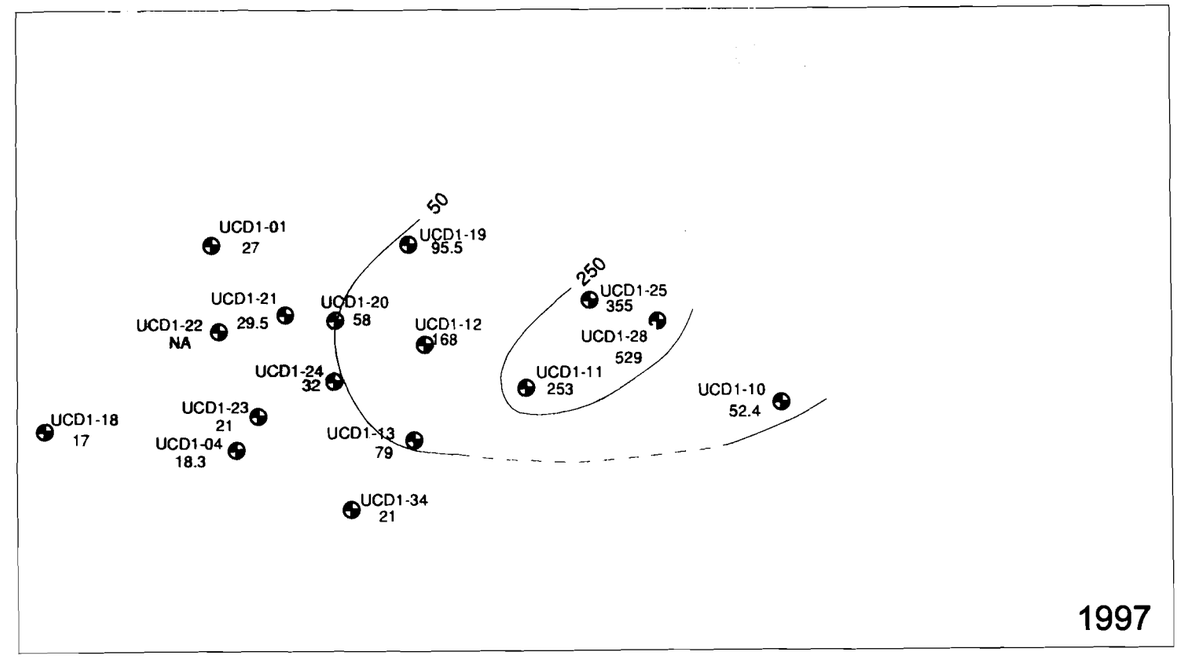
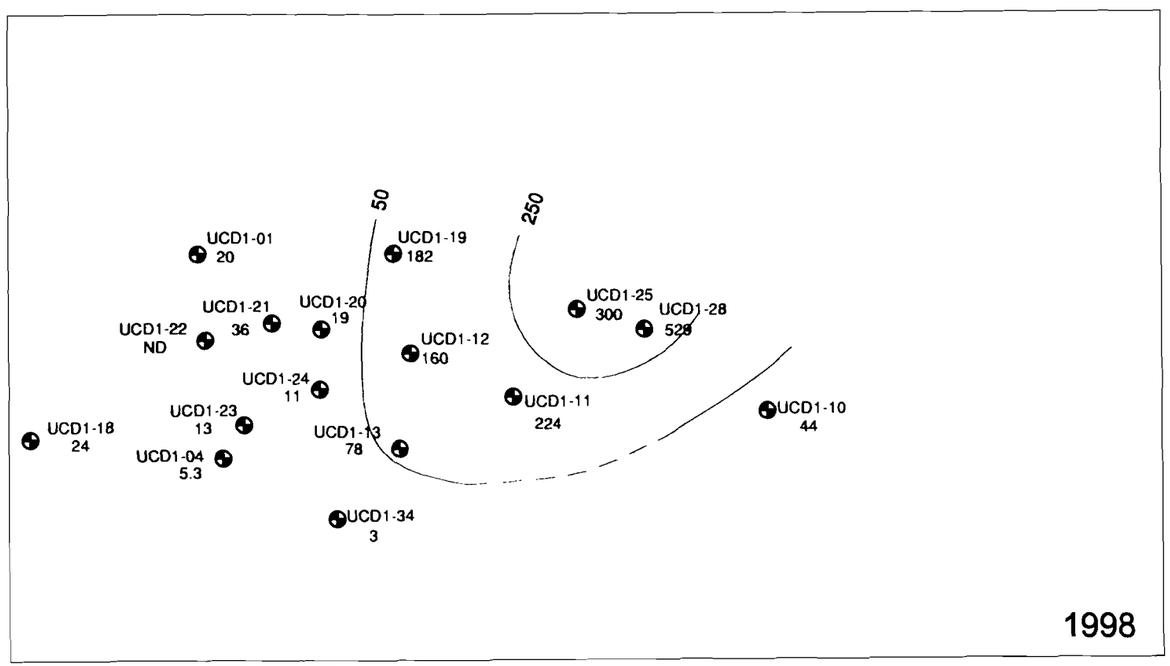
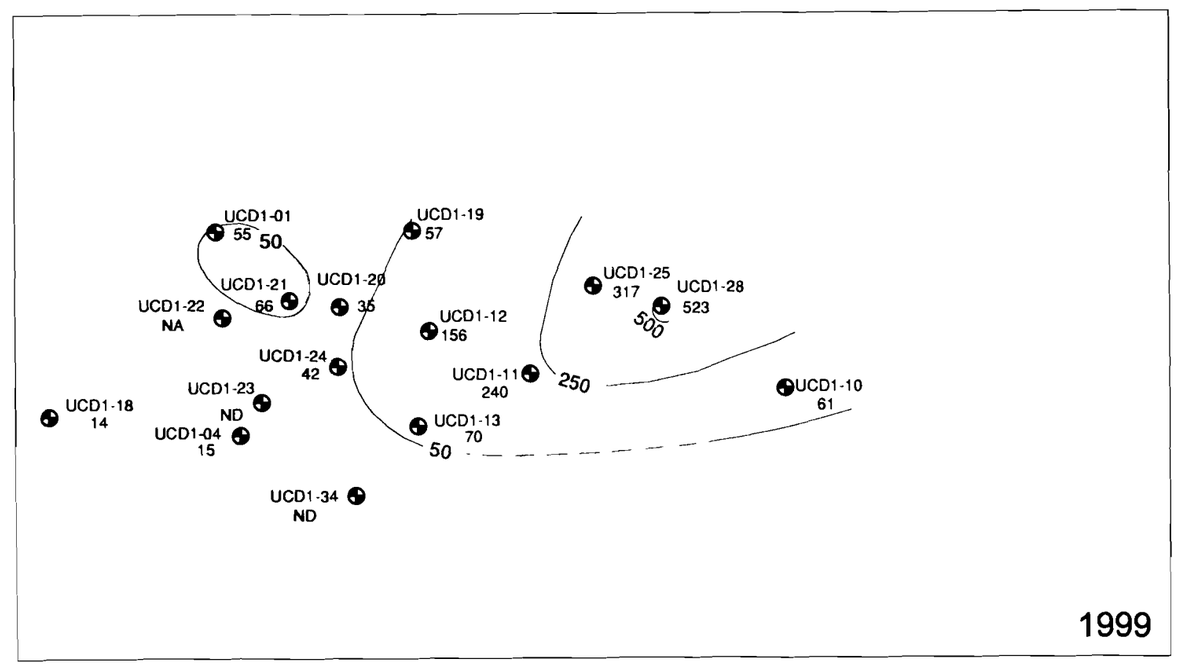
DAMES & MOORE
A DAMES & MOORE GROUP COMPANY









LEGEND

UCD1-11 HSU-1 Monitoring Well
All results reported in ug/L
Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

HEXAVALENT CHROMIUM ISOCONCENTRATION CONTOURS IN HSU-1, 1996 Through 1999

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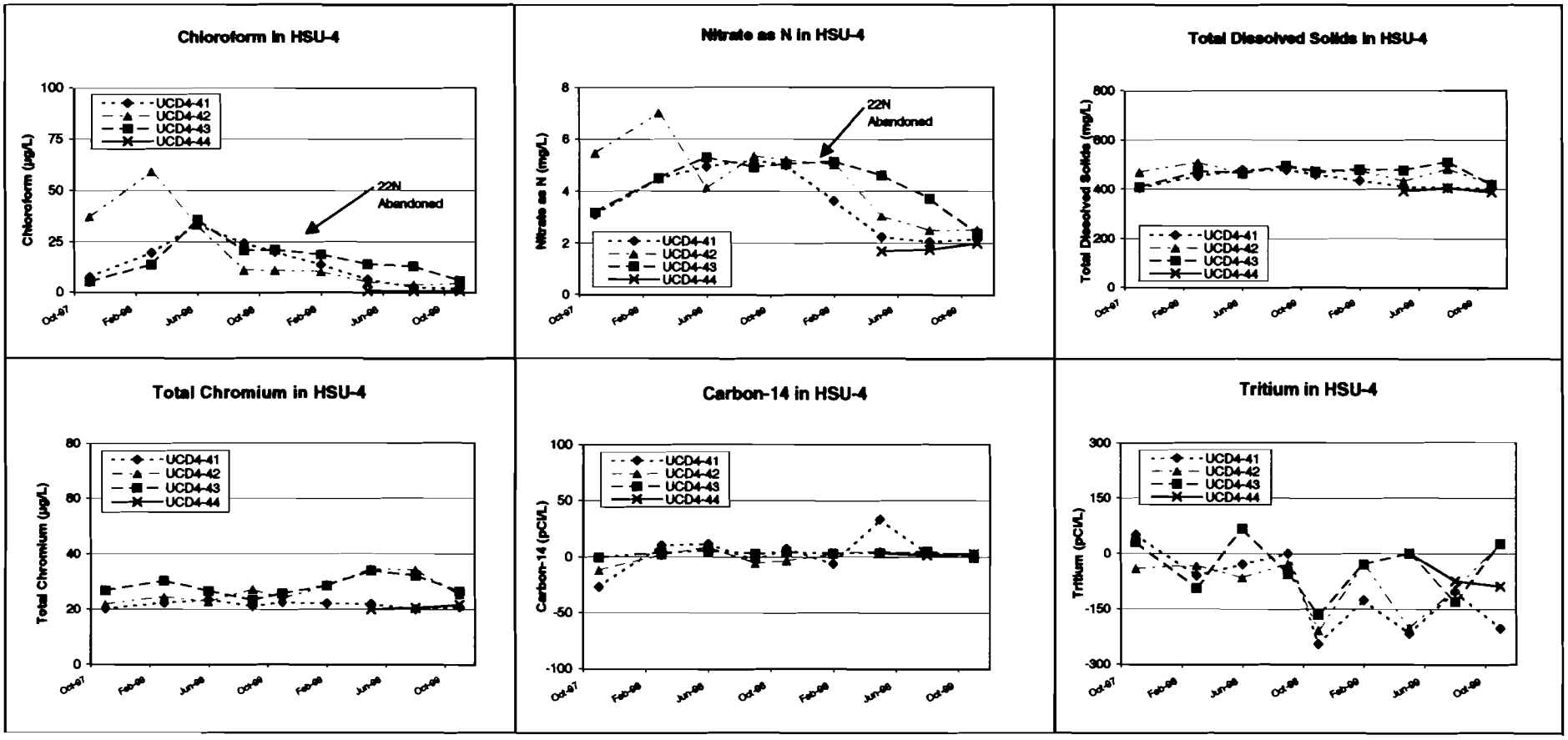
DAMES & MOORE
A DAMES & MOORE GROUP COMPANY



HSU-4 CHLOROFORM, NITRATE, TDS, CHROMIUM, CARBON-14, AND TRITIUM GRAPHS
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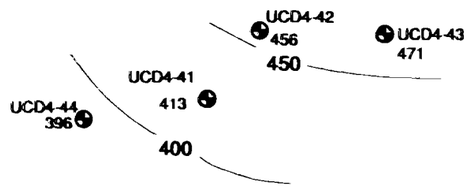
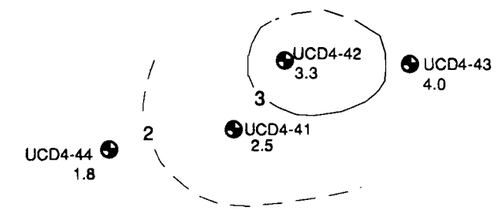
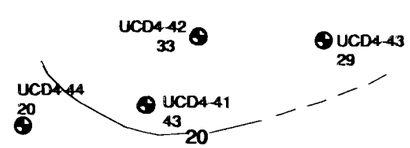
FIGURE 33



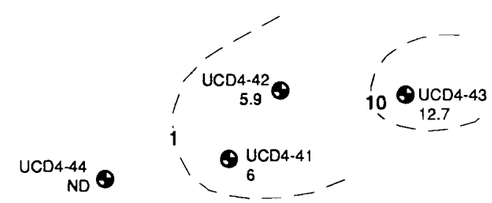
TDS (mg/L)



NITRATE (mg/L)



HEXAVALENT CHROMIUM (ug/L)



CHLOROFORM (ug/L)

LEGEND

UCD4-44 HSU-4 Monitoring Well

Results represent average of quarterly data
NA = Not Analyzed
ND = Not Detected

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

ISOCONCENTRATION CONTOURS IN HSU-4 1999
1999 Annual Report
LEHR/SCDS Environmental Restoration
Davis, California
Figure 34

Appendix A

Complete Analytical Results for 1999 Groundwater Treatment System Influent and Effluent

1999 ANNUAL MONITORING RESULTS
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

APPENDIX A

This appendix presents complete tabulated results of treatment system influent and effluent monitoring data. Presented below is a description of the reporting styles for chemical and radionuclide analyses.

Reporting of Chemical Analysis Results

Results for chemical analysis are reported as positive detections if the analytical result exceeds the laboratory limit. The laboratory limit is equal to or less than the EPA-required Contract Laboratory Program (CLP) detection limits. In the cases that the laboratory limit is lower than the US EPA-required limit, the data are reported, but flagged by the laboratory with a "J" for organic analysis, or a "B" for inorganic analytes.

Reporting of Radionuclide Results

Levels of radioactivity in site water samples are reported in picocuries per liter (pCi/L), with many of the results being very close to the minimum activity that analysis methods are able to detect. Statistical methods are used to determine the amount of radioactivity in a sample. Radionuclide analyses are reported with the calculated activity of the sample, the minimum detectable activity (MDA), and the counting error. The MDA describes quantitatively the sensitivity of the analytical procedures used and represents a minimum detectable radionuclide activity in a sample medium at the time of analysis. Variables include decay rate, sample counting time, sample volume and density, chemical recovery, background counts, and detector efficiency, which all affect the resulting MDA for a given sample. The counting error represents the total statistical uncertainty resulting from measuring all random processes involved in the analytical procedures used. Individual errors associated with these processes are propagated to estimate the total uncertainty.

The uncertainty value is reported as a two-sigma (two standard deviations) error for each sample analysis result. This uncertainty, therefore, approximates a 95% confidence interval about the reported value. Non-random systematic errors will not be reported since they cannot be accurately quantified. Good laboratory practices, quality assurance/quality control (QA/QC) programs and procedures, as well as frequent instrument calibrations minimize any incurred systematic errors. It should be emphasized, however, that despite being statistically detectable on the basis of total uncertainty, a given sample result may not

be significant in terms of health risk, presence of site contamination, or regional background concentrations.

Radionuclide results are reported as the calculated value (V) followed by the total uncertainty (T). The format follows the convention ($V \pm T$). The significance of the radionuclide results can be evaluated by comparing the reported value with the reported uncertainty that is calculated for each sample. Although gross alpha and gross beta analyses are not performed for specific radionuclides (i.e. they measure total alpha or beta energy released in a sample), they are included in the radionuclide analytical results tables for consistency in reporting radionuclide characteristics.

AP. DIX A
FIELD PARAMETERS - INFLUENT AND EFFLUENT
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Location	Date	EC-F umhos/cm	PH-F	TEMPERATURE degree C	TURBIDITY-F ntu
INFLUENT					
TPIN0053	01/04/99	1040	7.90	15.8	0.07
TPIN0057	02/01/99	950	7.66	16.7	0.10
TPIN0061	03/01/99	950	7.87	17.8	0.11
TPIN0066	04/05/99	112	7.95	16.7	0.25
TPIN0070	05/03/99	810	7.66	17.9	0.12
TPIN0074	06/02/99	845	7.58	17.9	0.11
TPIN0079	07/07/99	873	7.54	19.2	0.64
TPIN0083	08/02/99	839	7.69	18.1	0.16
TPIN0087	09/01/99	846	7.78	18.0	--
TPIN0092	10/07/99	840	7.69	18.1	0.21
TPIN0096	11/02/99	857	7.10	18.0	0.11
TPIN0100	12/01/99	770	7.76	16.3	0.25
EFFLUENT					
TPEF0053	01/04/99	1000	8.45	15.7	0.05
TPEF0057	02/01/99	860	8.50	16.6	0.19
TPEF0061	03/01/99	930	8.47	17.8	0.16
TPEF0066	04/05/99	105	8.42	16.1	0.06
TPEF0070	05/03/99	798	8.42	17.7	0.08
TPEF0074	06/02/99	832	8.38	17.8	0.11
TPEF0079	07/07/99	852	8.27	19.0	--
TPEF0083	08/02/99	837	8.45	18.4	0.09
TPEF0087	09/01/99	841	8.45	17.9	--
TPEF0092	10/07/99	825	8.43	18.1	0.08
TPEF0096	11/02/99	843	8.08	17.9	0.07
TPEF0100	12/01/99	821	8.23	17.1	0.09

AF .DIX A
VOLATILE ORGANIC COMPOUNDS - INFLUENT AND EFFLUENT
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		Location	SP-2		SP-2		SP-2		SP-2		SP-2		SP-2		SP-2		SP-2		SP-2	
			INFLUENT		INFLUENT		INFLUENT		INFLUENT		INFLUENT		INFLUENT		INFLUENT		INFLUENT		INFLUENT	
		Sample ID	TPIN0053		TPIN0057		TPIN0061		TPIN0066		TPIN0070		TPIN0074		TPIN0079		TPIN0083		TPIN0087	
		Date	01/04/99		02/01/99		03/01/99		04/05/99		05/03/99		06/02/99		07/07/99		08/02/99		09/01/99	
		QA																		
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	0.20	J|	0.19	J|	0.15	J|	0.14	J|	0.18	J|Jc	**0.56**		**0.53**		0.48	J|	0.37	J|
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		0.2	J|	<0.50		<0.50		<0.50	|UJc	0.39	J|	0.42	J|	0.33	J|	0.25	J|
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	0.34	J|	0.31	J|	0.23	J|	0.23	J|	<0.50	|UJc	**1.1**		**0.90**		**0.73**		**0.59**	|Jc
1,2-DICHLOROPROPANE	0.50	ug/L	0.28	J|	0.25	J|	0.19	J|	0.17	J|	0.26	J|Jc	**0.98**		**1.1**		**0.61**		0.49	J|
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.12	|Uo	<1.0		<1.0		<1.0	|Rc
2-HEXANONE	1.0	ug/L	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.00		<5.0		<5.0		<5.0		<5.0	|UJc	<1.2	JB|Uz	<5.0		<5.0		<5.0	|Rc
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.34	J|Uy	0.16	J|	<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.00		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	**23.10**	B|	**19.7**	B|	**14.5**		**15.1**		**23.6**	B|Jc	**59.5**		**106**	E|JD	**61.7**		**44.1**	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.080	J|Uy	<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	0.56	J|	<1.4	B|Uz	<0.76	JB|U	<1.6	B|Uz
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	

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VOLATILE ORGANIC COMPOUNDS - INFLUENT AND EFFLUENT
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		Location	SP-2		SP-2		SP-2		SP-5		SP-5		SP-5		SP-5		SP-5		SP-5	
			INFLUENT		INFLUENT		INFLUENT		EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT	
		Sample ID	TPIN0092		TPIN0096		TPIN0100		TPEF0053		TPEF0057		TPEF0061		TPEF0066		TPEF0070		TPEF0074	
		Date	10/07/99		11/02/99		12/01/99		01/04/99		02/01/99		03/01/99		04/05/99		05/03/99		06/02/99	
		QA																		
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJs	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	0.32	J|	<0.50		0.17	J|Js	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	0.24	J|	<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	0.38	J|	<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	0.38	J|	<0.50		0.2	J|Js	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
2-BUTANONE	1.0	ug/L	<1.0		**2.9**		<1.0	|UJs	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
2-HEXANONE	1.0	ug/L	<1.0		**2.7**		<1.0	|UJs	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		**3.9**		<1.0	|UJs	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
ACETONE	5.0	ug/L	<5.0		<5.0		<5.0	|UJs	<5.00		<5.0		<5.0		<5.0		<5.0	|UJc	<1.8	JB|Uz
BENZENE	0.50	ug/L	<0.50		0.095	J|	<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJs	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0	|UJs	<1.00		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0	|UJs	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROFORM	0.50	ug/L	**35.6**		**2.8**		**20.1**	|Js	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJl	<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.5	B|Uz	<1.0		<0.35	J|UJys	<1.00		<0.51	J|Uy	<1.0		<1.0		<1.0	|UJc	<1.0	
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TOLUENE	0.50	ug/L	<1.0		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0	|UJs	<1.00		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	

APPENDIX A
VOLATILE ORGANIC COMPOUNDS - INFLUENT AND EFFLUENT
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	SP-6		SP-5		SP-5		SP-5		SP-5		SP-5	
			EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT	
		Sample ID	TPEF0079		TPEF0083		TPEF0087		TPEF0092		TPEF0096		TPEF0100	
		Date	07/07/99		08/02/99		09/01/99		10/07/99		11/02/99		12/01/99	
		QA												
Analyte	CRDL	Units												
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|Rc	<1.0	|UJm	**2.8**		<1.0	|UJm
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJm	**2.8**		<1.0	|UJm
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		**4.1**		<1.0	
ACETONE	5.0	ug/L	<5.0		<5.0		<5.0	|Rc	<5.0	|UJm	<5.0		<5.0	|UJm
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		0.083	J|	<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJm
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc	<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	<0.50		<0.14	J|Uy	0.13	J|	<0.50		<0.50		<0.50	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJl	<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.3	B|Uz	<0.85	JB|Uz	<0.98	JB|Uz	<1.8	B|Uz	<1.0		<0.49	J|Uy
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<1.0		<0.50		<0.12	J|Uy
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	

APPENDIX A
METALS, GENERAL CHEMICALS, AND RADIONUCLIDES - INFLUENT AND EFFLUENT
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

				Metals			General Chemicals				Radionuclides					
			Analyte	TOTAL CHROMIUM		HEXAVALENT CHROMIUM	NITROGEN, NITRATE	TOTAL DISSOLVED SOLIDS	TOTAL ORGANIC CARBON		CARBON-14			TRITIUM		
			CRDL	10		10	0.1	20	1.00		20			300		
			Daily Limit	50		50	10	500	---		---			---		
			Monthly Limit	32		32	7.7	485	---		20			300		
Sample ID	Date	QA	Units	µg/L		µg/L	mg/L	mg/L	mg/L		pCi/L		MDA	pCi/L		MDA
INFLUENT																
TPIN0053	01/04/99			---		---	---	---	**4.55**		3.18±4.87		8.22	-224±156		300
TPIN0057	02/01/99			---		---	---	---	**4.6**		8.20±5.30	|UJv	8.82	-83.2±110		192
TPIN0061	03/01/99			---		---	---	---	**1.53**		11.1±4.82	J|Jv	7.72	-129±122		214
TPIN0066	04/05/99			---		---	---	---	**1.04**		7.25±4.70	|UJv	7.72	-120±146		263
TPIN0070	05/03/99			---		---	---	---	---		5.16±4.65	|UJv	7.75	267±176	|UJv	287
TPIN0074	06/02/99			---		---	---	---	**8.83**		11.9±4.79	J|Jv	7.62	66.4±141		241
TPIN0079	07/07/99			---		---	---	---	**1.75**		13.0±6.97	J|Jv	11.3	30.0±94.5		163
TPIN0083	08/02/99			---		---	---	---	<1.33	|Up	10.9±5.67	J|Jv	9.15	-87.5±127		222
TPIN0087	09/01/99			---		---	---	---	**2.69**		6.60±4.98	|UJv	8.23	147±127	|UJv	207
TPIN0092	10/07/99			---		---	---	---	**3.08**		1.14±4.99		8.57	141±125	|UJv	205
TPIN0096	11/02/99			---		---	---	---	**1.38**		14.9±5.76	J|Jvd	9.15	-88.0±135		250
TPIN0100	12/01/99			---		---	---	---	<1.12	|Uo	**42.3±6.22**		8.40	-59.1±134		245
EFFLUENT																
TPEF0053	01/04/99			**16.8**	|Jo	**21.0**	**6.57**	**486**	---		---			---		
TPEF0054	01/11/99			---		---	**6.30**	**512**	---		---			---		
TPEF0055	01/19/99			---		---	**6.30**	**493**	---		---			---		
TPEF0056	01/25/99			---		---	**6.40**	**498**	---		---			---		
TPEF0057	02/01/99			**20.0**		**21.0**	|Jh **6.38**	**476**	---		---			---		
TPEF0058	02/08/99			---		---	**6.0**	**483**	---		---			---		
TPEF0059	02/16/99			---		---	**5.9**	**496**	---		---			---		
TPEF0060	02/22/99			---		---	**6.0**	**490**	---		---			---		
TPEF0061	03/01/99			**20.5**		**20.0**	--	**475**	---		---			---		
TPEF0062	03/09/99			---		---	**6.3**	**475**	---		---			---		
TPEF0063	03/16/99			---		---	**6.1**	**511**	---		---			---		
TPEF0064	03/22/99			---		---	**5.9**	**482**	---		---			---		
TPEF0065	03/30/99			---		---	**6.1**	**465**	---		---			---		
TPEF0066	04/05/99			**20.2**		**22.0**	--	**482**	---		---			---		
TPEF0067	04/13/99			---		---	**6.4**	**483**	---		---			---		
TPEF0068	04/19/99			---		---	**6.2**	**473**	---		---			---		
TPEF0069	04/26/99			---		---	**6.4**	**492**	---		---			---		
TPEF0070	05/03/99			**22.7**		**25.0**	**6.75**	**477**	---		---			---		
TPEF0071	05/10/99			---		---	**7.1**	**486**	---		---			---		
TPEF0072	05/17/99			---		---	**7.4**	**489**	---		---			---		
TPEF0073	05/24/99			---		---	**8.0**	**502**	---		---			---		

AP, .DIX A
METALS, GENERAL CHEMICALS, AND RADIONUCLIDES - INFLUENT AND EFFLUENT
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

				Metals			General Chemicals			Radionuclides			
			Analyte	TOTAL CHROMIUM	HEXAVALENT CHROMIUM		NITROGEN, NITRATE	TOTAL DISSOLVED SOLIDS	TOTAL ORGANIC CARBON	CARBON-14		TRITIUM	
			CRDL	10	10		0.1	20	1.00	20		300	
			Daily Limit	50	50		10	500	---	---		---	
			Monthly Limit	32	32		7.7	485	---	20		300	
Sample ID	Date	QA	Units	µg/L	µg/L		mg/L	mg/L	mg/L	pCi/L	MDA	pCi/L	MDA
TPEF0074	06/02/99			23.3	26.0		9.14	538	---	---		---	
TPEF0075	06/07/99			---	---		8.7	510	---	---		---	
TPEF0076	06/14/99			---	---		8.7	518	---	---		---	
TPEF0077	06/21/99			---	---		9.5	517	---	---		---	
TPEF0078	06/28/99			---	---		9.9	558	---	---		---	
TPEF0079	07/07/99			24.7	27.0		10.9	517	---	---		---	
TPEF0080	07/12/99			---	---		10.4	515	---	---		---	
TPEF0081	07/19/99			---	---		10.1	533	---	---		---	
TPEF0082	07/26/99			---	---		9.6	542	---	---		---	
TPEF0083	08/02/99			27.9	28.0	|Jh	9.44	544	---	---		---	
TPEF0083A	08/02/99			---	---		9.45	529	---	---		---	
TPEF0084	08/09/99			---	---		9.7	539	---	---		---	
TPEF0085	08/16/99			---	---		9.2	534	---	---		---	
TPEF0086	08/23/99			---	---		9.4	517	---	---		---	
TPEF0087	09/01/99			28.0	28.0		9.59	508	---	---		---	
TPEF0088	09/07/99			---	---		8.9	531	---	---		---	
TPEF0089	09/14/99			---	---		9.6	521	---	---		---	
TPEF0090	09/20/99			---	---		9.0	517	---	---		---	
TPEF0091	09/27/99			---	---		8.8	518	---	---		---	
TPEF0092	10/07/99			26.6	25.0		9.52	522	---	---		---	
TPEF0093	10/11/99			---	---		8.6	502	---	---		---	
TPEF0094	10/18/99			---	---		8.8	524	---	---		---	
TPEF0095	10/25/99			---	---		8.5	499	---	---		---	
TPEF0096	11/02/99			25.9	28.0		9.31	524	---	---		---	
TPEF0097	11/08/99			---	---		8.6	523	---	---		---	
TPEF0098	11/15/99			---	---		8.2	496	---	---		---	
TPEF0099	11/22/99			---	---		8.2	513	---	---		---	
TPEF0100	12/01/99			26.3	20.0		8.93	513	---	---		---	
TPEF0101	12/06/99			---	---		8.3	498	---	---		---	
TPEF0102	12/13/99			---	---		8.3	592	---	---		---	
TPEF0103	12/20/99			---	---		8.6	511	---	---		---	
TPEF0104	12/28/99			---	---		8.4	511	---	---		---	

Appendix B

Complete Analytical Results for 1999 Groundwater, Surface Water, and Storm Water

APPENDIX B
FIELD PARAMETERS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

Location	Date	EC-F umhos/cm	EH-F mvolts	PH-F	TEMPERATURE degree C	TURBIDITY-F ntu
UCD1-001	05/11/99	789	67	7.52	19.7	1.65
UCD1-004	02/10/99	696	212	7.28	17.7	0.46
UCD1-004	05/05/99	797	125	7.31	17.9	0.35
UCD1-004	08/09/99	827	125	7.26	18.3	0.66
UCD1-010	02/11/99	1941	260	7.25	18.4	0.22
UCD1-010	05/11/99	2151	129	7.27	19.3	0.15
UCD1-010	08/03/99	2089	69	7.37	19.1	0.10
UCD1-011	05/05/99	1196	69	7.36	18.8	0.10
UCD1-012	02/10/99	2230	227	7.09	18.8	0.36
UCD1-012	05/11/99	2563	68	7.15	19.4	0.13
UCD1-012	08/05/99	28.97	85	7.31	19.7	10.30
UCD1-013	02/02/99	1486	117	7.06	18.6	0.14
UCD1-013	05/06/99	1631	77	7.12	19.0	0.06
UCD1-013	08/09/99	--	95	7.34	18.8	0.25
UCD1-018	02/02/99	785	126	7.44	17.8	0.17
UCD1-018	05/10/99	867	111	7.47	19.0	0.33
UCD1-019	05/11/99	1609	112	7.30	20.0	0.11
UCD1-020	05/11/99	786	143	7.62	19.4	0.21
UCD1-021	05/10/99	1613	114	7.26	20.1	0.17
UCD1-022	05/04/99	1365	95	7.41	19.3	0.13
UCD1-023	05/06/99	789	67	7.52	19.7	1.65
UCD1-024	05/11/99	1522	145	7.23	20.2	0.23
UCD1-025	02/04/99	1214	100	7.21	18.6	0.21
UCD1-025	05/03/99	1364	122	7.26	19.0	0.18
UCD1-025	08/05/99	1265	88	7.22	18.9	40.1
UCD1-028	01/05/99	2470	--	7.58	9.4	0.41
UCD1-028	02/11/99	196	234	7.36	18.4	2.45
UCD1-028	03/02/99	1485	--	7.43	18.5	1.69
UCD1-028	04/01/99	1108	--	7.10	15.6	0.78
UCD1-028	05/03/99	1665	142	7.28	18.7	1.93
UCD1-028	06/01/99	1310	--	7.34	18.3	0.77
UCD1-028	07/07/99	1146	--	7.37	19.0	4.23
UCD1-028	08/02/99	1610	93	7.42	19.0	0.14
UCD1-028	09/01/99	1498	--	7.40	19.4	2.35
UCD1-028	10/06/99	1709	97	7.37	19.6	--
UCD1-028	11/01/99	1667	33	7.59	19.0	4.5
UCD1-028	12/01/99	1731	95	7.41	18.7	--
UCD1-034	05/04/99	686	31	7.59	17.5	9.6
UCD2-007	02/01/99	766	126	7.57	18.2	0.08
UCD2-007	02/10/99	774	228	7.48	18.2	0.18
UCD2-007	05/06/99	792	103	7.55	18.7	0.16
UCD2-007	08/03/99	820	83	7.60	19.4	0.22
UCD2-007	11/03/99	993.7	105	7.33	18.7	0.14
UCD2-014	02/02/99	860	106	7.39	18.1	0.16
UCD2-014	05/06/99	1347	77	7.19	19.1	0.47

APPENDIX B
FIELD PARAMETERS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

Location	Date	EC-F umhos/cm	EH-F mvolts	PH-F	TEMPERATURE degree C	TURBIDITY-F ntu
UCD2-014	08/09/99	--	95	7.34	19.0	0.22
UCD2-014	11/03/99	1382	115	6.86	19.1	0.30
UCD2-015	02/10/99	694	113	7.56	18.1	0.25
UCD2-015	05/05/99	772	112	7.66	18.1	0.02
UCD2-015	08/09/99	792	106	7.56	19.2	0.28
UCD2-015	11/03/99	816.1	73	7.25	19.0	0.23
UCD2-016	02/02/99	713	153	7.56	18.1	0.05
UCD2-016	05/06/99	793	91	7.55	19.1	0.08
UCD2-016	08/03/99	832	90	7.62	18.7	0.08
UCD2-016	11/03/99	843.1	82	7.36	19.7	0.11
UCD2-017	02/02/99	638	112	6.37	17.7	0.11
UCD2-017	05/05/99	724	71	7.56	18.7	0.04
UCD2-017	08/03/99	719	27	7.66	19.5	0.09
UCD2-017	11/03/99	746.8	34	7.42	19.3	0.11
UCD2-026	02/04/99	691	109	7.47	18.3	0.11
UCD2-026	05/03/99	981	136	7.27	18.8	68.7
UCD2-026	08/05/99	782	84	7.64	18.5	28.5
UCD2-026	11/02/99	803.4	85	7.22	19.2	7.13
UCD2-027Z5	05/10/99	780	84	7.87	20.6	0.16
UCD2-029	01/05/99	961	--	7.78	11.9	0.13
UCD2-029	02/03/99	747	113	7.38	18.0	0.27
UCD2-029	03/02/99	778	--	7.65	18.0	0.74
UCD2-029	04/01/99	576	--	7.48	17.17	0.26
UCD2-029	05/03/99	851	144	7.55	17.8	0.07
UCD2-029	06/01/99	712	--	7.53	18.4	0.39
UCD2-029	07/07/99	808	--	7.65	18.6	0.88
UCD2-029	08/02/99	891.3	107	7.56	18.7	0.14
UCD2-029	09/01/99	845	--	7.65	18.6	0.13
UCD2-029	10/06/99	874.8	117	7.58	18.6	--
UCD2-029	11/01/99	872.6	38	7.33	18.9	0.14
UCD2-029	12/01/99	882.1	86	7.62	18.5	--
UCD2-030	01/05/99	884	--	7.77	13.6	0.13
UCD2-030	02/11/99	138	179	7.67	18.0	0.36
UCD2-030	03/02/99	738	--	7.62	17.5	0.73
UCD2-030	04/05/99	562	--	7.57	13.7	1.30
UCD2-030	05/03/99	779	137	7.58	18.0	0.38
UCD2-030	06/01/99	638	--	7.59	17.0	0.33
UCD2-030	07/07/99	717	--	7.71	18.5	0.68
UCD2-030	08/02/99	770	78	7.68	19.3	0.46
UCD2-030	09/01/99	682	--	7.43	17.9	0.45
UCD2-030	10/06/99	811.2	110	7.65	18.3	--
UCD2-030	11/01/99	812.8	144	6.86	18.7	0.12
UCD2-030	12/01/99	821.9	56	7.62	18.6	--
UCD2-031	01/05/99	873	--	7.77	14.2	0.06
UCD2-031	02/11/99	715	269	7.62	18.2	0.23

APP. ,X B
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Location	Date	EC-F umhos/cm	EH-F mvolts	PH-F	TEMPERATURE degree C	TURBIDITY-F ntu
UCD2-031	03/02/99	759	--	7.76	18.9	0.63
UCD2-031	04/05/99	580	--	7.56	12.8	1.12
UCD2-031	05/03/99	764	61	7.58	18.1	0.10
UCD2-031	06/01/99	638	--	7.60	17.2	0.23
UCD2-031	07/06/99	693	--	7.43	19.3	0.89
UCD2-031	08/02/99	750	66	7.65	18.8	0.24
UCD2-031	09/01/99	745	--	7.69	18.8	0.10
UCD2-031	10/06/99	784.5	119	7.64	18.5	--
UCD2-031	11/01/99	783.2	139	7.38	18.8	0.09
UCD2-031	12/01/99	811.3	85	7.53	18.3	--
UCD2-032	02/04/99	710	25	7.5	18.3	0.16
UCD2-032	05/06/99	828	96	7.57	18.6	0.48
UCD2-032	08/09/99	807	106	7.72	18.8	0.23
UCD2-032	11/04/99	820.7	99	7.24	19.5	0.12
UCD2-035	01/06/99	879	--	7.85	12.8	0.27
UCD2-035	02/03/99	664	31	7.52	17.6	0.20
UCD2-035	03/01/99	715	--	7.49	17.8	1.26
UCD2-035	04/06/99	545	--	7.36	17.9	1.30
UCD2-035	05/04/99	760	67	7.64	17.9	0.25
UCD2-035	06/01/99	665	--	7.47	17.4	0.38
UCD2-035	07/06/99	676	--	7.52	18.4	1.50
UCD2-035	08/05/99	719	32	7.51	18.4	0.47
UCD2-035	09/01/99	639	--	7.60	18.1	0.38
UCD2-035	10/07/99	748.1	82	7.75	18.5	--
UCD2-035	11/03/99	749.9	15	7.50	19.4	1.05
UCD2-035	12/02/99	762.6	105	7.60	18.0	--
UCD2-036	01/04/99	842		7.70	15.1	0.71
UCD2-036	02/01/99	702	14	7.59	18.1	.21
UCD2-036	03/03/99	727	--	7.62	17.9	0.61
UCD2-036	04/05/99	603	--	7.54	11.4	1.22
UCD2-036	05/05/99	775	85	7.58	19.4	0.32
UCD2-036	06/01/99	672	--	7.50	18.7	0.41
UCD2-036	07/06/99	736	--	7.49	19.3	0.54
UCD2-036	08/03/99	819	87	7.66	18.2	0.35
UCD2-036	09/01/99	805	--	7.66	18.5	0.17
UCD2-036	10/07/99	807.8	93	7.61	18.5	--
UCD2-036	11/02/99	839.0	105	7.34	19.5	0.18
UCD2-036	12/02/99	793.1	153	7.57	17.8	--
UCD2-037	01/04/99	910		7.64	15.67	0.40
UCD2-037	02/01/99	640	125	7.69	17.6	0.08
UCD2-037	03/03/99	700	--	7.67	17.5	0.70
UCD2-037	04/06/99	585	--	6.96	14.4	0.98
UCD2-037	05/04/99	754	101	7.59	18.1	0.03
UCD2-037	05/04/99	754	101	7.59	18.1	0.03
UCD2-037	06/01/99	619	--	7.48	17.3	0.58

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Location	Date	EC-F umhos/cm	EH-F mvolts	PH-F	TEMPERATURE degree C	TURBIDITY-F ntu
UCD2-037	07/06/99	656	--	7.50	18.0	0.63
UCD2-037	08/03/99	687	52	7.70	18.8	0.21
UCD2-037	09/01/99	671	--	7.72	17.6	0.02
UCD2-037	10/07/99	675.9	123	7.70	17.9	--
UCD2-037	11/02/99	724.7	68	7.14	18.5	0.18
UCD2-037	12/01/99	756.1	62	7.70	17.8	--
UCD2-038	01/06/99	916	--	7.90	11.0	0.13
UCD2-038	02/03/99	694	99	7.55	18.2	0.36
UCD2-038	03/03/99	728	--	7.74	18.3	0.62
UCD2-038	04/06/99	600	--	7.30	14.2	0.81
UCD2-038	05/04/99	769	111	7.67	17.7	0.13
UCD2-038	06/01/99	653	--	7.54	17.7	0.28
UCD2-038	07/06/99	660	--	7.56	18.0	1.58
UCD2-038	08/05/99	703.9	76	7.64	17.7	0.26
UCD2-038	09/01/99	710	--	7.78	17.5	0.10
UCD2-038	10/07/99	754.6	110	7.74	18.2	--
UCD2-038	11/02/99	794.3	84	7.19	18.2	0.46
UCD2-038	12/01/99	806.2	101	7.69	18.2	--
UCD2-039	01/06/99	951	--	7.79	11.3	0.18
UCD2-039	02/02/99	717	111	7.52	17.9	0.20
UCD2-039	03/03/99	755	--	7.67	18.8	0.78
UCD2-039	04/06/99	623	--	7.30	13.8	0.86
UCD2-039	05/05/99	796	110	7.59	18.7	0.43
UCD2-039	06/01/99	712	--	7.52	18.4	0.28
UCD2-039	07/06/99	736	--	7.44	19.5	0.87
UCD2-039	08/05/99	817	92	7.62	19.0	0.20
UCD2-039	09/01/99	794	--	7.70	18.7	0.08
UCD2-039	10/06/99	844.0	67	7.64	18.6	--
UCD2-039	11/04/99	862.7	55	7.35	18.9	0.05
UCD2-039	12/01/99	842.1	56	7.69	18.2	--
UCD2-040	01/06/99	927	--	7.86	11.8	0.29
UCD2-040	02/04/99	722	85	7.52	18.2	2.25
UCD2-040	03/02/99	784	--	7.68	18.5	0.74
UCD2-040	04/05/99	682	--	7.55	10.2	1.35
UCD2-040	05/04/99	856	89	7.49	18.0	0.56
UCD2-040	06/01/99	672	--	7.49	19.0	0.33
UCD2-040	07/06/99	714	--	7.44	19.5	0.81
UCD2-040	08/02/99	798	59	7.62	18.7	--
UCD2-040	09/01/99	763	--	7.68	18.9	0.25
UCD2-040	10/06/99	782.5	77	7.62	18.9	--
UCD2-040	11/02/99	819.6	126	7.15	18.8	0.28
UCD2-040	12/01/99	836.4	81	7.64	18.6	--
UCD4-041	02/11/99	063	149	7.76	18.7	0.65
UCD4-041	05/12/99	686	150	7.71	19.3	0.45
UCD4-041	08/04/99	650	59	7.75	18.8	0.69

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Location	Date	EC-F umhos/cm	EH-F mvolts	PH-F	TEMPERATURE degree C	TURBIDITY-F ntu
UCD4-041	11/02/99	670.5	93	7.58	18.8	2.75
UCD4-042	02/04/99	708	39	7.61	18.4	0.12
UCD4-042	05/12/99	718	-36	7.70	19.0	0.16
UCD4-042	08/10/99	719	-48	7.71	18.8	0.16
UCD4-042	11/04/99	704.6	80	7.60	18.7	0.12
UCD4-043	02/04/99	717	92	7.60	18.6	0.13
UCD4-043	05/12/99	789	110	7.65	18.9	0.08
UCD4-043	08/10/99	754	84	7.71	18.8	0.03
UCD4-043	11/04/99	706.7	-26	7.59	19.3	0.08
UCD4-044	05/10/99	670	-88	7.73	18.8	6.34
UCD4-044	08/04/99	654	-7	7.76	19.0	0.99
UCD4-044	11/01/99	665.0	154	7.57	18.7	0.41

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		Location	UCD1-001		UCD1-004		UCD1-004		UCD1-004		UCD1-004		UCD1-010		UCD1-010		UCD1-010		UCD1-011		UCD1-012
		Sample ID	GWGW0860		GWGW0800		GWGW0848		GWGW0849		GWGW0912		GWGW0806		GWGW0861		GWGW0906		GWGW0866		GWGW0807
		Date	05/11/99		02/10/99		05/05/99		05/05/99		08/09/99		02/11/99		05/11/99		08/03/99		05/05/99		02/10/99
		QA							DUPLICATE												
Analyte	CRDL	Units																			
ANTIMONY	5	ug/L	--		--		0.18	B|	<5.0		--		--		<5.0		--		<5.0		--
ARSENIC	3	ug/L	--		--		**4.9**		**5.5**		--		--		**7.4**		--		**6.0**		--
BARIUM	20	ug/L	--		--		**223**		**228**		--		--		**46.5**		--		**316**		--
BERYLLIUM	1	ug/L	--		--		0.02	B|	0.01	B|	--		--		0.19	B|	--		<1.0		--
CADMIUM	1	ug/L	--		--		<1.0	|Up	<1.4	|Up	--		--		0.41	B|	--		<1.3	|Up	--
CALCIUM	2000	ug/L	--		--		--		--		--		--		--		--		--		--
CHROMIUM	10	ug/L	--		--		**17.5**		**19.8**		**19.8**		--		**63.5**		--		**217**		--
CHROMIUM, HEXAVALENT	10	ug/L	**55**	|Jh	**12**		**15**	|Jh	**14**	|Jh	**17**	|Jh	**57**		**65**	|Jh	**62**		**240**	|Jh	**145**
COBALT	10	ug/L	--		--		0.07	B|	0.09	B|	--		--		0.52	B|	--		0.12	B|	--
COPPER	10	ug/L	--		--		1.1	B|	2.5	B|	--		--		3.5	B|	--		1.6	B|	--
IRON	100	ug/L	--		--		59.8	B|	55.8	B|	--		--		57.0	B|	--		67.9	B|	--
LEAD	3	ug/L	--		--		<3.0	E|	<3.0	E|	--		--		0.25	B|	--		<3.0	E|	--
MAGNESIUM	2000	ug/L	--		--		--		--		--		--		--		--		--		--
MANGANESE	10	ug/L	--		--		0.95	BE|Jk	0.76	BE|Jk	--		--		0.62	B|	--		0.81	BE|Jk	--
MERCURY	0.2	ug/L	--		--		<0.2		<0.2		--		--		<0.2		--		<0.2		--
MOLYBDENUM	10	ug/L	--		--		2.2	B|	<2.0	B|Uop	--		--		1.1	B|	--		2.4	B|	--
NICKEL	20	ug/L	--		--		1.7	B|	1.5	B|	--		--		1.5	B|	--		1.2	B|	--
POTASSIUM	2000	ug/L	--		--		--		--		--		--		--		--		--		--
SELENIUM	3	ug/L	--		--		1.5	B|	1.5	B|	--		--		**13.7**		--		**10.1**		--
SILVER	10	ug/L	--		--		0.11	B|	0.05	B|	--		--		<10.0		--		0.09	B|	--
SODIUM	2000	ug/L	--		--		--		--		--		--		--		--		--		--
THALLIUM	10	ug/L	--		--		0.38	B|	0.08	B|	--		--		<10.0		--		<10.0		--
VANADIUM	10	ug/L	--		--		9.5	B|	**10.4**		--		--		**15.1**		--		**12.8**		--
ZINC	20	ug/L	--		--		3.3	BE|	3.6	BE|	--		--		7.0	B|	--		4.2	BE|	--

* = Chromium result is from a sample collected on 2/10/99.

APPL .X B
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		Location	UCD1-012	UCD1-012	UCD1-012	UCD1-013	UCD1-013	UCD1-013	UCD1-018	UCD1-019	UCD1-020	UCD1-021
		Sample ID	GWGW0808	GWGW0862	GWGW0913	GWGW0801	GWGW0854	GWGW0914	GWGW0867	GWGW0863	GWGW0864	GWGW0870
		Date	02/10/99	05/11/99	08/05/99	02/02/99	05/06/99	08/09/99	05/10/99	05/11/99	05/11/99	05/10/99
		QA	DUPLICATE									
Analyte	CRDL	Units										
ANTIMONY	5	ug/L	--	<5.0	--	--	<5.0	--	<5.0	<0.13 B|Uo	<5.0	<5.0
ARSENIC	3	ug/L	--	**8.5**	--	--	**5.0**	--	**7.0**	**6.7**	**7.9**	**5.6**
BARIUM	20	ug/L	--	**654**	--	--	**350**	--	**172**	**107**	**132**	**186**
BERYLLIUM	1	ug/L	--	<1.0	--	--	<1.0	--	<1.0	<1.0	<1.0	<1.0
CADMIUM	1	ug/L	--	0.52 B|	--	--	<1.8 |Up	--	<1.0	<1.0	<1.0	<1.0
CALCIUM	2000	ug/L	--	--	--	--	--	--	--	--	--	--
CHROMIUM	10	ug/L	--	**157**	--	--	**69.3**	**77.3**	**18.0**	**206**	**33.1**	**67.6**
CHROMIUM, HEXAVALENT	10	ug/L	**145**	**152** |Jh	**170**	<10	**67**	**73** |Jh	**14**	**57** |Jh	**35** |Jh	**66**
COBALT	10	ug/L	--	0.91 B|	--	--	0.18 B|	--	0.28 B|	0.19 B|	0.06 B|	0.17 B|
COPPER	10	ug/L	--	4.1 B|	--	--	2.0 B|	--	1.3 B|	2.5 B|	1.2 B|	2.3 B|
IRON	100	ug/L	--	78.5 B|	--	--	82.6 B|	--	35.9 B|	61.2 B|	49.1 B|	60.7 B|
LEAD	3	ug/L	--	<3.0	--	--	<3.0 E|	--	<3.0	<3.0	<3.0	<3.0
MAGNESIUM	2000	ug/L	--	--	--	--	--	--	--	--	--	--
MANGANESE	10	ug/L	--	0.41 B|	--	--	0.67 BE|Jk	--	3.9 B|	0.54 B|	0.58 B|	0.38 B|
MERCURY	0.2	ug/L	--	<0.2	--	--	<0.2	--	<0.2	<0.2	<0.2	<0.2
MOLYBDENUM	10	ug/L	--	0.75 B|	--	--	1.4 B|	--	1.1 B|	1.4 B|	1.1 B|	1.1 B|
NICKEL	20	ug/L	--	2.2 B|	--	--	1.7 B|	--	4.3 B|	1.2 B|	0.64 B|	0.99 B|
POTASSIUM	2000	ug/L	--	--	--	--	--	--	--	--	--	--
SELENIUM	3	ug/L	--	**13.4**	--	--	1.7 B|	--	<3.4 |Uop	**12.4**	<2.9 B|Uop	**6.0**
SILVER	10	ug/L	--	<10.0	--	--	0.05 B|	--	<10.0	<10.0	<10.0	<10.0
SODIUM	2000	ug/L	--	--	--	--	--	--	--	--	--	--
THALLIUM	10	ug/L	--	<10.0	--	--	<10.0	--	<10.0	<10.0	<10.0	<10.0
VANADIUM	10	ug/L	--	**12.8**	--	--	**14.3**	--	**11.8**	**11.5**	**14.3**	**11.8**
ZINC	20	ug/L	--	8.8 B|	--	--	5.5 BE|Jk	--	4.2 B|	6.0 B|	3.4 B|	5.3 B|

* = Chromium result is from a sample collected on 2/10/99.

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DAVIS, CALIFORNIA

		Location	UCD1-023		UCD1-024		UCD1-025	UCD1-025		UCD1-027Z3	UCD1-028	UCD1-028		UCD1-028	UCD1-028		UCD1-028	UCD1-028
		Sample ID	GWGW0868		GWGW0865		GWGW0795	GWGW0836		GWGW0875	GWGW0776	GWGW0784		GWGW0817	GWGW0818		GWGW0825
		Date	05/06/99		05/11/99		02/04/99	05/03/99		05/10/99	01/05/99	02/11/99		03/02/99	03/02/99		04/01/99
		QA													DUPLICATE			
Analyte	CRDL	Units																
ANTIMONY	5	ug/L	<5.0		<5.0		--	<0.15	B|Uop	--	--	<0.28	B|Uo	--	--		--
ARSENIC	3	ug/L	**5.7**		**7.3**		--	**3.5**		--	--	2.2	B|	--	--		--
BARIUM	20	ug/L	**112**		**272**		--	**325**		--	--	**270**		--	--		--
BERYLLIUM	1	ug/L	<1.0		<1.0		--	0.04	B|	--	--	0.20	B|	--	--		--
CADMIUM	1	ug/L	<1.1	|Up	<1.0		--	<1.0		--	--	<1.0		--	--		--
CALCIUM	2000	ug/L	--		--		--	--		--	--	**48900**		--	--		--
CHROMIUM	10	ug/L	**11.7**		**37.1**		--	**298**		--	**522**	**485**		**472**	**491**		**518**
CHROMIUM, HEXAVALENT	10	ug/L	<10		**42**	|Jh	**324**	**310**		<10	**480**	**545**		**515**	<22	|Rfq	**581**
COBALT	10	ug/L	0.65	B|	0.17	B|	--	<0.34	B|Uop	--	--	0.28	B|	--	--		--
COPPER	10	ug/L	2.8	B|	2.2	B|	--	<1.2	B|Up	--	--	3.1	B|	--	--		--
IRON	100	ug/L	63.7	B|	45.1	B|	--	86.6	B|	--	--	**215**	E|Jk	--	--		--
LEAD	3	ug/L	0.06	BE|	<3.0		--	<0.18	B|Uop	--	--	0.24	B|	--	--		--
MAGNESIUM	2000	ug/L	--		--		--	--		--	--	**170000**		--	--		--
MANGANESE	10	ug/L	**11.0**	E|Jk	0.23	B|	--	0.89	BE|Jk	--	--	0.69	BE|Jk	--	--		--
MERCURY	0.2	ug/L	<0.2		<0.2		--	<0.2		--	--	<0.2		--	--		--
MOLYBDENUM	10	ug/L	2.3	B|	0.94	B|	--	0.55	B|	--	--	1.3	B|	--	--		--
NICKEL	20	ug/L	**100**		0.86	B|	--	13.6	B|	--	--	2.7	B|	--	--		--
POTASSIUM	2000	ug/L	--		--		--	--		--	--	1070	B|Jk	--	--		--
SELENIUM	3	ug/L	1.2	B|	<4.1	|Uop	--	**7.9**		--	--	**14.8**		--	--		--
SILVER	10	ug/L	0.03	B|	<10.0		--	<0.17	B|Uop	--	--	<10.0		--	--		--
SODIUM	2000	ug/L	--		--		--	--		--	--	**118000**		--	--		--
THALLIUM	10	ug/L	<10.0		<10.0		--	<0.21	B|Uop	--	--	0.47	B|	--	--		--
VANADIUM	10	ug/L	**10.1**		**12.8**		--	8.3	B|	--	--	<500		--	--		--
ZINC	20	ug/L	5.1	BE|Jk	5.0	B|	--	5.8	B|	--	--	**20.9**	E|Jkl	--	--		--

* = Chromium result is from a sample collected on 2/10/99.

APP. X B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD1-028		UCD1-028	UCD1-028	UCD1-028		UCD1-028	UCD1-028	UCD1-028	UCD1-028	UCD1-034		UCD2-007	
		Sample ID	GWGW0837		GWGW0886	GWGW0898	GWGW0901		GWGW0936	GWGW0940	GWGW0951	GWGW0974	GWGW0842		GWGW0802	
		Date	05/03/99		06/02/99	07/07/99	08/02/99		09/01/99	10/06/99	11/01/99	12/01/99	05/04/99		02/01/99	
		QA														
Analyte	CRDL	Units														
ANTIMONY	5	ug/L	<0.18	B|Uop	--	--	<0.16	B|Uo	--	--	--	--	<0.25	B|Uop	--	
ARSENIC	3	ug/L	**4.3**		--	--	**7.7**		--	--	--	--	**3.7**		--	
BARIUM	20	ug/L	**283**		--	--	**277**		--	--	--	--	**159**		--	
BERYLLIUM	1	ug/L	0.01	B|	--	--	<1.0		--	--	--	--	<1.0		--	
CADMIUM	1	ug/L	<1.0		--	--	<1.0		--	--	--	--	<1.0		--	
CALCIUM	2000	ug/L	**49300**		--	--	**42600**		--	--	--	--	--		--	
CHROMIUM	10	ug/L	**469**		**577**	**495**	**454**	E|Jk	**546**	**479**	**499**	**524**	<1.4	B|Up	**31.1**	*
CHROMIUM, HEXAVALENT	10	ug/L	**510**		**550**	**504**	**515**	|Jh	**510**	**500**	--	**520**	<10	|UJh	**27**	|Jh
COBALT	10	ug/L	<0.36	B|Uo	--	--	0.14	B|	--	--	--	--	0.52	B|	--	
COPPER	10	ug/L	<1.7	B|Up	--	--	1.1	B|	--	--	--	--	2.4	B|	--	
IRON	100	ug/L	95.7	B|	--	--	56.0	B|	--	--	--	--	72.2	B|	--	
LEAD	3	ug/L	<0.15	B|Uop	--	--	<2.0		--	--	--	--	<0.21	B|Uop	--	
MAGNESIUM	2000	ug/L	**170000**		--	--	**146000**		--	--	--	--	--		--	
MANGANESE	10	ug/L	0.85	BE|Jk	--	--	0.53	BE|	--	--	--	--	6.5	BE|Jk	--	
MERCURY	0.2	ug/L	<0.2		--	--	<0.2		--	--	--	--	<0.2		--	
MOLYBDENUM	10	ug/L	0.69	B|	--	--	<0.87	B|Uo	--	--	--	--	1.1	B|	--	
NICKEL	20	ug/L	2.1	B|	--	--	3.0	BE|Jk	--	--	--	--	3.1	B|	--	
POTASSIUM	2000	ug/L	1110	B|	--	--	887	B|	--	--	--	--	--		--	
SELENIUM	3	ug/L	**15.9**		--	--	**10.3**		--	--	--	--	<2.0	B|Uo	--	
SILVER	10	ug/L	<0.11	B|Uop	--	--	<0.19	B|Uop	--	--	--	--	<0.08	B|Uop	--	
SODIUM	2000	ug/L	**123000**		--	--	**96600**		--	--	--	--	--		--	
THALLIUM	10	ug/L	<0.26	B|Uop	--	--	<10.0		--	--	--	--	<0.13	B|Uop	--	
VANADIUM	10	ug/L	9.0	B|	--	--	**12.9**	E|Jk	--	--	--	--	**10.0**		--	
ZINC	20	ug/L	4.9	B|	--	--	<0.91	B|Up	--	--	--	--	4.8	B|	--	

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APPENDIX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-007		UCD2-007		UCD2-007	UCD2-007	UCD2-014		UCD2-014		UCD2-014		UCD2-014		UCD2-014
		Sample ID	GWGW0803		GWGW0855		GWGW0915	GWGW0964	GWGW0804		GWGW0856		GWGW0857		GWGW0916		GWGW0965
		Date	02/01/99		05/06/99		08/03/99	11/03/99	02/02/99		05/06/99		05/06/99		08/09/99		11/03/99
		QA	DUPLICATE										DUPLICATE				
Analyte	CRDL	Units															
ANTIMONY	5	ug/L	--		<5.0		--	--	<0.15	B|Uo	<5.0		<5.0		<0.23	B|Uop	--
ARSENIC	3	ug/L	--		**5.1**		--	--	2.7	B|	**5.2**		**5.4**		<3.5	B|Up	--
BARIUM	20	ug/L	--		**173**		--	--	**186**		**263**		**262**		**262**		--
BERYLLIUM	1	ug/L	--		0.02	B|	--	--	<1.0		<1.0		<1.0		<0.01	B|Up	--
CADMIUM	1	ug/L	--		<1.2	|Up	--	--	<1.0		<1.8	|Up	<1.6	|Up	<1.0		--
CALCIUM	2000	ug/L	--		--		--	--	--		--		--		--		--
CHROMIUM	10	ug/L	**31.2**	*	**93.2**		**42.3**	**47.7**	**27.2**		**58.0**		**57.4**		**58.6**		**63.7**
CHROMIUM, HEXAVALENT	10	ug/L	**27**	|Jh	**91**		**41**	--	<10		**56**		**56**		**58**	|Jh	--
COBALT	10	ug/L	--		<10.0		--	--	0.69	B|	0.83	B|	0.93	B|	1.1	B|	--
COPPER	10	ug/L	--		1.3	B|	--	--	1.5	B|	3.1	B|Jf	**20.6**	|Jf	<0.98	B|Up	--
IRON	100	ug/L	--		40.1	B|	--	--	**163**	E|Jk	68.2	B|	65.7	B|	<94.9	B|Up	--
LEAD	3	ug/L	--		0.06	BE|	--	--	0.10	B|	0.03	B|	0.90	BE|Jk	<0.08	B|Up	--
MAGNESIUM	2000	ug/L	--		--		--	--	--		--		--		--		--
MANGANESE	10	ug/L	--		0.95	BE|Jk	--	--	0.47	BE|	0.91	BE|	0.85	BE|Jk	<1.1	B|Up	--
MERCURY	0.2	ug/L	--		<0.2		--	--	<0.2		<0.2		<0.2		<0.2		--
MOLYBDENUM	10	ug/L	--		2.6	B|	--	--	1.8	B|	<2.0	B|Up	<1.8	B|Up	<0.75	B|Uop	--
NICKEL	20	ug/L	--		1.1	B|	--	--	2.1	BE|	1.6	B|	1.9	B|	<2.1	B|Up	--
POTASSIUM	2000	ug/L	--		--		--	--	--		--		--		--		--
SELENIUM	3	ug/L	--		1.8	B|	--	--	2.9	B|	1.7	B|	1.4	B|	<3.0		--
SILVER	10	ug/L	--		0.08	B|	--	--	<10.0		0.04	B|	0.03	B|	<0.34	B|Uop	--
SODIUM	2000	ug/L	--		--		--	--	--		--		--		--		--
THALLIUM	10	ug/L	--		<10.0		--	--	<10.0		<10.0		<10.0		<0.44	B|Uo	--
VANADIUM	10	ug/L	--		**10.0**	B|	--	--	<10.0		**10.8**		**11.2**		**12.5**		--
ZINC	20	ug/L	--		3.5	BE|	--	--	18.8	BE|Jk	**45.3**	E|Jkf	16.7	BE|Jkf	<3.9	ENB|UJmp	--

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APF IX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-015		UCD2-015		UCD2-015		UCD2-016		UCD2-016		UCD2-016		UCD2-016		UCD2-017		UCD2-017	
		Sample ID	GWGW0805		GWGW0850		GWGW0917		GWGW0966		GWGW0797		GWGW0858		GWGW0907		GWGW0967		GWGW0798		GWGW0851
		Date	02/10/99		05/05/99		08/09/99		11/03/99		02/02/99		05/06/99		08/02/99		11/03/99		02/02/99		05/05/99
		QA																			
Analyte	CRDL	Units																			
ANTIMONY	5	ug/L	--		<5.0		--		--		<0.07	B|Uo	<5.0		<0.34	B|Uop	--		--		<5.0	
ARSENIC	3	ug/L	--		**6.3**		--		--		2.3	B|	**6.3**		2.7		--		--		**5.5**	
BARIUM	20	ug/L	--		**165**		--		--		**166**		**156**		**167**		--		--		**150**	
BERYLLIUM	1	ug/L	--		0.01	B|	--		--		0.01	B|	<1.0		<0.05	B|Up	--		--		<1.0	
CADMIUM	1	ug/L	--		<0.90	B|Up	--		--		<1.0		<1.3	|Up	<1.0		--		--		<0.88	B|Up
CALCIUM	2000	ug/L	--		--		--		--		--		--		--		--		--		--	
CHROMIUM	10	ug/L	**21.0**		**20.4**		**23.2**		**25.5**		**28.1**		**26.6**		**33.5**		**31.6**		**12.3**		**11.4**	
CHROMIUM, HEXAVALENT	10	ug/L	**11**		**17**	|Jh	**28**	|Jh	--		<10		**24**		**37**		--		<10		8	J|Jh
COBALT	10	ug/L	--		0.01	B|	--		--		0.45	B|	0.80	B|	1.4	B|	--		--		<10.0	
COPPER	10	ug/L	--		1.2	B|	--		--		1.2	B|	2.7	B|	<0.84	B|Up	--		--		1.2	B|
IRON	100	ug/L	--		51.0	B|	--		--		**169**	E|Jk	54.2	B|	<67.9	B|Up	--		--		48.9	B|
LEAD	3	ug/L	--		<3.0	E|	--		--		0.06	B|	0.08	BE|	<0.17	B|Up	--		--		<3.0	E|
MAGNESIUM	2000	ug/L	--		--		--		--		--		--		--		--		--		--	
MANGANESE	10	ug/L	--		0.55	BE|Jk	--		--		0.84	BE|Jk	0.94	BE|Jk	<1.0	B|Up	--		--		0.47	BE|
MERCURY	0.2	ug/L	--		<0.2		--		--		<0.2		<0.2		<0.2		--		--		<0.2	
MOLYBDENUM	10	ug/L	--		3.7	B|	--		--		1.9	B|	2.5	B|	1.8	B|	--		--		2.8	B|
NICKEL	20	ug/L	--		1.8	B|	--		--		1.2	BE|	1.1	B|	<1.6	B|Up	--		--		0.95	B|
POTASSIUM	2000	ug/L	--		--		--		--		--		--		--		--		--		--	
SELENIUM	3	ug/L	--		1.9	B|	--		--		<3.0		2.1	B|	1.1	B|	--		--		1.4	B|
SILVER	10	ug/L	--		0.04	B|	--		--		<10.0		0.05	B|	<0.39	B|Uop	--		--		0.05	B|
SODIUM	2000	ug/L	--		--		--		--		--		--		--		--		--		--	
THALLIUM	10	ug/L	--		<10.0		--		--		0.11	B|	<10.0		<1.6	B|Uo	--		--		<10.0	
VANADIUM	10	ug/L	--		**11.3**		--		--		<10.0		9.2	B|	**11.5**		--		--		**11.1**	
ZINC	20	ug/L	--		2.6	BE|	--		--		15.9	BE|Jk	3.9	BE|	<3.7	B|Up	--		--		2.5	BE|

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APPENDIX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-017	UCD2-017	UCD2-026	UCD2-026		UCD2-026	UCD2-026	UCD2-026	UCD2-027Z5	UCD2-029		UCD2-029	
		Sample ID	GWGW0908	GWGW0968	GWGW0796	GWGW0838		GWGW0919	GWGW0952	GWGW0953	GWGW0876	GWGW0777		GWGW0785	
		Date	08/03/99	11/03/99	02/04/99	05/03/99		08/05/99	11/02/99	11/02/99	05/10/99	01/05/99		02/03/99	
		QA								DUPLICATE					
Analyte	CRDL	Units													
ANTIMONY	5	ug/L	--	--	--	<0.27	B|Uop	--	--	--	--	--		<0.11	B|Uo
ARSENIC	3	ug/L	--	--	--	**9.4**		--	--	--	--	--		**3.2**	
BARIUM	20	ug/L	--	--	--	**172**		--	--	--	--	--		**186**	
BERYLLIUM	1	ug/L	--	--	--	0.02	B|	--	--	--	--	--		<1.0	
CADMIUM	1	ug/L	--	--	--	<1.0		--	--	--	--	--		<0.05	B|Uo
CALCIUM	2000	ug/L	--	--	--	--		--	--	--	--	--		**45400**	
CHROMIUM	10	ug/L	**11.2**	**14.3**	**18.9**	**41.7**		**26.4**	**23.3**	**22.6**	--	**17.90**	|Jo	**21.6**	
CHROMIUM, HEXAVALENT	10	ug/L	**11**	--	**16**	**34**		**26**	--	--	**12.5**	**19**		**16**	
COBALT	10	ug/L	--	--	--	<0.35	B|Uo	--	--	--	--	--		0.13	B|
COPPER	10	ug/L	--	--	--	<1.4	B|Up	--	--	--	--	--		1.4	B|
IRON	100	ug/L	--	--	--	95.9	B|	--	--	--	--	--		**166**	E|Jk
LEAD	3	ug/L	--	--	--	<0.16	B|Uop	--	--	--	--	--		0.13	B|
MAGNESIUM	2000	ug/L	--	--	--	--		--	--	--	--	--		**81000**	
MANGANESE	10	ug/L	--	--	--	6.3	BE|Jk	--	--	--	--	--		0.77	BE|Jk
MERCURY	0.2	ug/L	--	--	--	<0.2		--	--	--	--	--		<0.2	
MOLYBDENUM	10	ug/L	--	--	--	2.1	B|	--	--	--	--	--		2.2	B|
NICKEL	20	ug/L	--	--	--	18.6	B|	--	--	--	--	--		2.0	BE|
POTASSIUM	2000	ug/L	--	--	--	--		--	--	--	--	--		762	
SELENIUM	3	ug/L	--	--	--	**4.7**		--	--	--	--	--		**3.7**	
SILVER	10	ug/L	--	--	--	<0.06	B|Uop	--	--	--	--	--		<10.0	
SODIUM	2000	ug/L	--	--	--	--		--	--	--	--	--		**40500**	
THALLIUM	10	ug/L	--	--	--	<0.18	B|Uop	--	--	--	--	--		<10.0	
VANADIUM	10	ug/L	--	--	--	**14.7**		--	--	--	--	--		<10.0	
ZINC	20	ug/L	--	--	--	5.3	B|	--	--	--	--	--		18.6	BE|Jk

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APF IX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029
		Sample ID	GWGW0786		GWGW0816		GWGW0826		GWGW0839		GWGW0887		GWGW0899		GWGW0904		GWGW0937		GWGW0941		GWGW0954
		Date	02/03/99		03/02/99		04/01/99		05/03/99		06/02/99		07/07/99		08/02/99		09/01/99		10/06/99		11/01/99
		QA	DUPLICATE																		
Analyte	CRDL	Units																			
ANTIMONY	5	ug/L	<0.13	B|Uo	--		--		<0.22	B|Uop	--		--		<0.08	B|Uop	--		--		--
ARSENIC	3	ug/L	**3.0**		--		--		**3.4**		--		--		**7.5**		--		--		--
BARIUM	20	ug/L	**198**		--		--		**188**		--		--		**196**		--		--		--
BERYLLIUM	1	ug/L	<1.0		--		--		<1.0		--		--		<1.0		--		--		--
CADMIUM	1	ug/L	<1.0		--		--		<1.0		--		--		<1.0		--		--		--
CALCIUM	2000	ug/L	**44700**		--		--		**46200**		--		--		**45400**		--		--		--
CHROMIUM	10	ug/L	**22.8**		**18.7**		**21.2**		**23.9**		**26.7**		**28.0**		**29.9**	E|Jk	**28.5**		**26.5**		**24.6**
CHROMIUM, HEXAVALENT	10	ug/L	**17**		<515	|Rq	**23**		**21**		**26**		**30**		**30**	|Jh	**25**		**26**		--
COBALT	10	ug/L	0.38	B|	--		--		<0.26	B|Uop	--		--		0.01	B|	--		--		--
COPPER	10	ug/L	1.9	B|	--		--		<0.78	B|Up	--		--		0.49	B|	--		--		--
IRON	100	ug/L	**170**	E|Jk	--		--		93.2	B|	--		--		43.2	B|	--		--		--
LEAD	3	ug/L	0.18	B|	--		--		<0.20	B|Uop	--		--		<2.0		--		--		--
MAGNESIUM	2000	ug/L	**79800**		--		--		**80700**		--		--		**78500**		--		--		--
MANGANESE	10	ug/L	1.1	BE|Jk	--		--		1.9	BE|Jk	--		--		0.32	BE|	--		--		--
MERCURY	0.2	ug/L	<0.2		--		--		<0.2		--		--		<0.2		--		--		--
MOLYBDENUM	10	ug/L	2.3	B|	--		--		1.7	B|	--		--		1.6	B|	--		--		--
NICKEL	20	ug/L	2.1	BE|	--		--		1.8	B|	--		--		1.5	BE|Jk	--		--		--
POTASSIUM	2000	ug/L	**747**		--		--		834	B|	--		--		788	B|	--		--		--
SELENIUM	3	ug/L	2.7	B|	--		--		<3.4	|Uo	--		--		2.0	B|	--		--		--
SILVER	10	ug/L	<10.0		--		--		<0.06	B|Uop	--		--		<0.16	B|Uop	--		--		--
SODIUM	2000	ug/L	**39900**		--		--		**42300**		--		--		**40100**		--		--		--
THALLIUM	10	ug/L	<10.0		--		--		<0.24	B|Uop	--		--		<10.0		--		--		--
VANADIUM	10	ug/L	<10.0		--		--		**10.2**		--		--		**13.8**	E|Jk	--		--		--
ZINC	20	ug/L	**21.0**	E|Jk	--		--		<2.1	B|Up	--		--		0.74	B|	--		--		--

* = Chromium result is from a sample collected on 2/10/99.

APPENDIX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-029	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030
		Sample ID	GWGW0975	GWGW0779	GWGW0787	GWGW0815	GWGW0827	GWGW0840	GWGW0888	GWGW0900	GWGW0902	GWGW0938
		Date	12/01/99	01/05/99	02/11/99	03/02/99	04/05/99	05/03/99	06/02/99	07/07/99	08/02/99	09/02/99
		QA										
Analyte	CRDL	Units										
ANTIMONY	5	ug/L	--	--	<0.07 B|Uo	--	--	<0.19 B|Uop	--	--	<5.0	--
ARSENIC	3	ug/L	--	--	2.3 B|	--	--	**4.0**	--	--	**8.1**	--
BARIUM	20	ug/L	--	--	**162**	--	--	**167**	--	--	**173**	--
BERYLLIUM	1	ug/L	--	--	<1.0	--	--	<1.0	--	--	<1.0	--
CADMIUM	1	ug/L	--	--	<1.0	--	--	<1.0	--	--	<1.0	--
CALCIUM	2000	ug/L	--	--	**42600**	--	--	**42700**	--	--	**42000**	--
CHROMIUM	10	ug/L	**24.5**	**12.40** |Jo	**15.5**	**14.2**	**12.1**	**16.0**	**20.0**	**19.1**	**20.3** E|Jk	**24.8**
CHROMIUM, HEXAVALENT	10	ug/L	**21**	9 J|	**13**	**20**	**17**	**15**	**21**	**21**	**20** |Jh	**23**
COBALT	10	ug/L	--	--	0.25 B|	--	--	<0.28 B|Uop	--	--	0.02 B|	--
COPPER	10	ug/L	--	--	1.6 B|	--	--	<0.88 B|Up	--	--	0.82 B|	--
IRON	100	ug/L	--	--	**332** E|Jk	--	--	92.8 B|	--	--	32.1 B|	--
LEAD	3	ug/L	--	--	0.06 B|	--	--	<0.14 B|Uop	--	--	<2.0	--
MAGNESIUM	2000	ug/L	--	--	**73300**	--	--	**72000**	--	--	**69400**	--
MANGANESE	10	ug/L	--	--	0.84 BE|Jk	--	--	<0.64 BE|Up	--	--	0.35 BE|	--
MERCURY	0.2	ug/L	--	--	<0.2	--	--	<0.2	--	--	<0.2	--
MOLYBDENUM	10	ug/L	--	--	1.8 B|	--	--	1.9 B|	--	--	1.8 B|	--
NICKEL	20	ug/L	--	--	2.1 B|	--	--	1.8 B|	--	--	1.2 BE|	--
POTASSIUM	2000	ug/L	--	--	849 E|Jk	--	--	863 B|	--	--	840 B|	--
SELENIUM	3	ug/L	--	--	1.9 B|	--	--	<3.2 |Uo	--	--	<3.0	--
SILVER	10	ug/L	--	--	<10.0	--	--	<0.06 B|Uop	--	--	<0.15 B|Uo	--
SODIUM	2000	ug/L	--	--	**38800**	--	--	**39300**	--	--	**37600**	--
THALLIUM	10	ug/L	--	--	<10.0	--	--	<0.20 B|Uop	--	--	<10.0	--
VANADIUM	10	ug/L	--	--	3.6 B|	--	--	**10.0**	--	--	**14.1** E|Jk	--
ZINC	20	ug/L	--	--	**23.1** E|Jkl	--	--	5.1 B|	--	--	0.84 B|	--

* = Chromium result is from a sample collected on 2/10/99.

APP X B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-031
		Sample ID	GWGW0942	GWGW0959	GWGW0976	GWGW0977	GWGW0778	GWGW0788	GWGW0819	GWGW0828	GWGW0841	GWGW0889
		Date	10/06/99	11/01/99	12/01/99	12/01/99	01/05/99	02/11/99	03/02/99	04/05/99	05/03/99	06/02/99
		QA				DUPLICATE						
Analyte	CRDL	Units										
ANTIMONY	5	ug/L	--	--	--	--	--	<5.0	--	--	<0.29 B|Uop	--
ARSENIC	3	ug/L	--	--	--	--	--	2.0 B|	--	--	**3.4**	--
BARIUM	20	ug/L	--	--	--	--	--	**163**	--	--	**168**	--
BERYLLIUM	1	ug/L	--	--	--	--	--	<1.0	--	--	<1.0	--
CADMIUM	1	ug/L	--	--	--	--	--	<1.0	--	--	<1.0	--
CALCIUM	2000	ug/L	--	--	--	--	--	**43700**	--	--	**43500**	--
CHROMIUM	10	ug/L	**23.2**	**22.9**	**23.8**	**24.9**	**16.40** |Jo	**19.3**	**18.4**	**16.0**	**16.3**	**16.8**
CHROMIUM, HEXAVALENT	10	ug/L	**24**	--	**23**	**15**	**16**	**17**	**14**	**20**	**13**	**17**
COBALT	10	ug/L	--	--	--	--	--	0.10 B|	--	--	<0.19 B|Uop	--
COPPER	10	ug/L	--	--	--	--	--	2.3 B|	--	--	<0.80 B|Up	--
IRON	100	ug/L	--	--	--	--	--	**170** E|Jk	--	--	80.4 B|	--
LEAD	3	ug/L	--	--	--	--	--	0.06 B|	--	--	<0.16 B|Uop	--
MAGNESIUM	2000	ug/L	--	--	--	--	--	**73000**	--	--	**71700**	--
MANGANESE	10	ug/L	--	--	--	--	--	<0.20 BE|Up	--	--	<0.66 BE|Up	--
MERCURY	0.2	ug/L	--	--	--	--	--	<0.2	--	--	<0.2	--
MOLYBDENUM	10	ug/L	--	--	--	--	--	1.4 B|	--	--	1.6 B|	--
NICKEL	20	ug/L	--	--	--	--	--	2.3 B|	--	--	2.5 B|	--
POTASSIUM	2000	ug/L	--	--	--	--	--	778 E|Jk	--	--	820 B|	--
SELENIUM	3	ug/L	--	--	--	--	--	1.8 B|	--	--	<2.8 B|Uo	--
SILVER	10	ug/L	--	--	--	--	--	<10.0	--	--	<0.09 B|Uop	--
SODIUM	2000	ug/L	--	--	--	--	--	**39400**	--	--	**39500**	--
THALLIUM	10	ug/L	--	--	--	--	--	<10.0	--	--	<1.0 B|Uo	--
VANADIUM	10	ug/L	--	--	--	--	--	<10.0	--	--	**10.2**	--
ZINC	20	ug/L	--	--	--	--	--	15.5 BE|Jkl	--	--	3.1 B|	--

* = Chromium result is from a sample collected on 2/10/99.

APPENDIX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-032	UCD2-032	UCD2-032
		Sample ID	GWGW0897	GWGW0903	GWGW0935	GWGW0943	GWGW0960	GWGW0978	GWGW0790	GWGW0859	GWGW0924
		Date	07/06/99	08/02/99	09/01/99	10/06/99	11/01/99	12/01/99	02/04/99	05/06/99	08/09/99
		QA									
Analyte	CRDL	Units									
ANTIMONY	5	ug/L	--	<5.0	--	--	--	--	<0.05 B|Uo	<5.0	<0.22 B|Uop
ARSENIC	3	ug/L	--	**8.0**	--	--	--	--	**3.0**	**4.8**	**3.4**
BARIUM	20	ug/L	--	**162**	--	--	--	--	**176**	**180**	**177**
BERYLLIUM	1	ug/L	--	<1.0	--	--	--	--	<1.0	<1.0	<0.01 B|Up
CADMIUM	1	ug/L	--	<1.0	--	--	--	--	<1.0	<1.2 |Up	<1.0
CALCIUM	2000	ug/L	--	**38400**	--	--	--	--	**43500**	**41900**	**42500**
CHROMIUM	10	ug/L	**18.4**	**16.7** E|Jk	**18.8**	**18.2**	**18.3**	**19.8**	**23.3**	**27.3**	**29.5**
CHROMIUM, HEXAVALENT	10	ug/L	**19**	**16** |Jh	**19**	**16**	--	<10	**15**	**25**	**32** |Jh
COBALT	10	ug/L	--	<10.0	--	--	--	--	0.15 B|	<10.0	0.08 B|
COPPER	10	ug/L	--	0.62 B|	--	--	--	--	1.4 B|	1.1 B|	<0.85 B|Up
IRON	100	ug/L	--	50.3 B|	--	--	--	--	**157** E|Jk	46.0 B|	<74.7 B|Up
LEAD	3	ug/L	--	<2.0	--	--	--	--	0.08 B|	<3.0 E|	<0.10 B|Up
MAGNESIUM	2000	ug/L	--	**63100**	--	--	--	--	**75800**	**70300** |Jm	**70800**
MANGANESE	10	ug/L	--	1.2 BE|	--	--	--	--	0.17 BE|	0.88 BE|Jk	<0.88 B|Up
MERCURY	0.2	ug/L	--	<0.2	--	--	--	--	<0.2	<0.2	<0.2
MOLYBDENUM	10	ug/L	--	<1.5 B|Uo	--	--	--	--	2.0 B|	2.2 B|	<1.4 B|Uo
NICKEL	20	ug/L	--	11.0 BE|Jk	--	--	--	--	2.0 BE|	1.3 B|	<1.6 B|Up
POTASSIUM	2000	ug/L	--	739 B|	--	--	--	--	762	748 B|	877 B|
SELENIUM	3	ug/L	--	<3.0	--	--	--	--	2.2 B|	2.5 B|	1.1 B|
SILVER	10	ug/L	--	<0.14 B|Uop	--	--	--	--	<10.0	0.05 B|	<0.33 B|Uop
SODIUM	2000	ug/L	--	**35200**	--	--	--	--	**41600**	**40200**	**41900**
THALLIUM	10	ug/L	--	<10.0	--	--	--	--	<10.0	<10.0	<0.21 B|Uo
VANADIUM	10	ug/L	--	**13.4** E|Jk	--	--	--	--	<10.0	**10.2**	**12.0**
ZINC	20	ug/L	--	<20.0	--	--	--	--	18.0 BE|Jk	3.0 BE|	18.8 ENB|JKm

* = Chromium result is from a sample collected on 2/10/99.

APP. X B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-032	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035
		Sample ID	GWGW0970	GWGW0782	GWGW0791	GWGW0814	GWGW0834	GWGW0843	GWGW0879	GWGW0880	GWGW0890
		Date	11/04/99	01/06/99	02/03/99	03/01/99	04/06/99	05/04/99	06/01/99	06/01/99	07/06/99
		QA								D	
Analyte	CRDL	Units									
ANTIMONY	5	ug/L	--	--	--	--	--	<0.17 B|Uop	--	--	--
ARSENIC	3	ug/L	--	--	--	--	--	**4.1**	--	--	--
BARIUM	20	ug/L	--	--	--	--	--	**160**	--	--	--
BERYLLIUM	1	ug/L	--	--	--	--	--	<1.0	--	--	--
CADMIUM	1	ug/L	--	--	--	--	--	<1.0	--	--	--
CALCIUM	2000	ug/L	--	--	--	--	--	--	--	--	--
CHROMIUM	10	ug/L	**22.7**	6.30 B|Jo	<11.5 |Uo	**12.0**	**12.6**	**12.9**	**14.4**	**13.9**	**11.9**
CHROMIUM, HEXAVALENT	10	ug/L	--	**18**	**10**	**10**	**11**	**18** |Jh	**12**	**12**	**11**
COBALT	10	ug/L	--	--	--	--	--	<0.34 B|Uo	--	--	--
COPPER	10	ug/L	--	--	--	--	--	<0.88 B|Up	--	--	--
IRON	100	ug/L	--	--	--	--	--	72.4 B|	--	--	--
LEAD	3	ug/L	--	--	--	--	--	<0.14 B|Uop	--	--	--
MAGNESIUM	2000	ug/L	--	--	--	--	--	--	--	--	--
MANGANESE	10	ug/L	--	--	--	--	--	1.0 BE|Jk	--	--	--
MERCURY	0.2	ug/L	--	--	--	--	--	<0.2	--	--	--
MOLYBDENUM	10	ug/L	--	--	--	--	--	2.3 B|	--	--	--
NICKEL	20	ug/L	--	--	--	--	--	5.2 B|	--	--	--
POTASSIUM	2000	ug/L	--	--	--	--	--	--	--	--	--
SELENIUM	3	ug/L	--	--	--	--	--	<3.2 |Uo	--	--	--
SILVER	10	ug/L	--	--	--	--	--	<0.06 B|Uop	--	--	--
SODIUM	2000	ug/L	--	--	--	--	--	--	--	--	--
THALLIUM	10	ug/L	--	--	--	--	--	<0.12 B|Uop	--	--	--
VANADIUM	10	ug/L	--	--	--	--	--	9.8 B|	--	--	--
ZINC	20	ug/L	--	--	--	--	--	2.5 B|	--	--	--

* = Chromium result is from a sample collected on 2/10/99.

APPENDIX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-036	UCD2-036	UCD2-036	UCD2-036	UCD2-036
		Sample ID	GWGW0891	GWGW0920	GWGW0939	GWGW0946	GWGW0969	GWGW0981	GWGW0773	GWGW0793	GWGW0821	GWGW0830	GWGW0831
		Date	07/06/99	08/05/99	09/02/99	10/07/99	11/03/99	12/02/99	01/04/99	02/01/99	03/03/99	04/05/99	04/05/99
		QA	D										D
Analyte	CRDL	Units											
ANTIMONY	5	ug/L	--	--	--	--	--	--	--	<0.15 B|Uo	--	--	--
ARSENIC	3	ug/L	--	--	--	--	--	--	--	2.7 B|	--	--	--
BARIUM	20	ug/L	--	--	--	--	--	--	--	**168**	--	--	--
BERYLLIUM	1	ug/L	--	--	--	--	--	--	--	0.07 B|	--	--	--
CADMIUM	1	ug/L	--	--	--	--	--	--	--	<1.0	--	--	--
CALCIUM	2000	ug/L	--	--	--	--	--	--	--	**37200**	--	--	--
CHROMIUM	10	ug/L	**13.0**	9.4	**10.0**	**10.3**	**11.8**	**13.7**	**12.60** |Jo	**17.1**	**14.1**	**13.8**	**14.5**
CHROMIUM, HEXAVALENT	10	ug/L	**11**	7 J|	8.1 J|	9 J|	--	9 J|	**13**	**14** |Jh	**16.7**	**12**	**15**
COBALT	10	ug/L	--	--	--	--	--	--	--	0.16 B|	--	--	--
COPPER	10	ug/L	--	--	--	--	--	--	--	3.7 B|	--	--	--
IRON	100	ug/L	--	--	--	--	--	--	--	**185** E|Jk	--	--	--
LEAD	3	ug/L	--	--	--	--	--	--	--	0.35 B|	--	--	--
MAGNESIUM	2000	ug/L	--	--	--	--	--	--	--	**65300**	--	--	--
MANGANESE	10	ug/L	--	--	--	--	--	--	--	0.93 BE|Jk	--	--	--
MERCURY	0.2	ug/L	--	--	--	--	--	--	--	<0.2	--	--	--
MOLYBDENUM	10	ug/L	--	--	--	--	--	--	--	2.6 B|	--	--	--
NICKEL	20	ug/L	--	--	--	--	--	--	--	5.0 BE|Jk	--	--	--
POTASSIUM	2000	ug/L	--	--	--	--	--	--	--	702	--	--	--
SELENIUM	3	ug/L	--	--	--	--	--	--	--	<3.0	--	--	--
SILVER	10	ug/L	--	--	--	--	--	--	--	<10.0	--	--	--
SODIUM	2000	ug/L	--	--	--	--	--	--	--	**39500**	--	--	--
THALLIUM	10	ug/L	--	--	--	--	--	--	--	0.33 B|	--	--	--
VANADIUM	10	ug/L	--	--	--	--	--	--	--	2.6 B|	--	--	--
ZINC	20	ug/L	--	--	--	--	--	--	--	17.6 BE|Jk	--	--	--

* = Chromium result is from a sample collected on 2/10/99.
Gwat1999 on 3/1/00 at 2:54 PM

APF ,X B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-036		UCD2-036	UCD2-036	UCD2-036		UCD2-036		UCD2-036	UCD2-036	UCD2-036	UCD2-036	UCD2-037	
		Sample ID	GWGW0852		GWGW0883	GWGW0894	GWGW0909		GWGW0910		GWGW0932	GWGW0947	GWGW0957	GWGW0982	GWGW0774	
		Date	05/05/99		06/01/99	07/06/99	08/03/99		08/03/99		09/01/99	10/07/99	11/02/99	12/02/99	01/04/99	
		QA							D							
Analyte	CRDL	Units														
ANTIMONY	5	ug/L	0.12	B|	--	--	<5.0		<0.39	B|Uop	--	--	--	--	--	
ARSENIC	3	ug/L	**6.0**		--	--	**8.7**		**8.6**		--	--	--	--	--	
BARIUM	20	ug/L	**155**		--	--	**168**		**174**		--	--	--	--	--	
BERYLLIUM	1	ug/L	<1.0		--	--	<1.0		<1.0		--	--	--	--	--	
CADMIUM	1	ug/L	<0.65	B|Up	--	--	<1.0		<1.0		--	--	--	--	--	
CALCIUM	2000	ug/L	**37700**		--	--	**43300**		**46100**		--	--	--	--	--	
CHROMIUM	10	ug/L	**14.0**		**14.4**	**22.1**	**20.1**	E|Jk	**20.6**	E|Jk	**22.2**	**23.2**	**17.8**	**19.6**	4.50	B|Jo
CHROMIUM, HEXAVALENT	10	ug/L	**11**	|Jh	**13**	**19**	**21**		**21**		**25**	**22**	--	**12**	7	J|
COBALT	10	ug/L	<10.0		--	--	<10.0		<10.0		--	--	--	--	--	
COPPER	10	ug/L	0.99	B|	--	--	0.67	B|	0.55	B|	--	--	--	--	--	
IRON	100	ug/L	45.8	B|	--	--	39.3	B|	44.9	B|	--	--	--	--	--	
LEAD	3	ug/L	0.08	BE|	--	--	<2.0		<2.0		--	--	--	--	--	
MAGNESIUM	2000	ug/L	**65600**	|Jm	--	--	**75400**		**80300**		--	--	--	--	--	
MANGANESE	10	ug/L	0.50	BE|Jk	--	--	0.79	BE|	0.70	BE|	--	--	--	--	--	
MERCURY	0.2	ug/L	<0.2		--	--	<0.2		<0.2		--	--	--	--	--	
MOLYBDENUM	10	ug/L	2.5	B|	--	--	<1.5	B|Uo	<1.5	B|Uo	--	--	--	--	--	
NICKEL	20	ug/L	5.3	B|	--	--	4.5	BE|Jk	5.2	BE|Jk	--	--	--	--	--	
POTASSIUM	2000	ug/L	696	B|	--	--	732	B|	786	B|	--	--	--	--	--	
SELENIUM	3	ug/L	1.0	B|	--	--	<3.0		<3.0		--	--	--	--	--	
SILVER	10	ug/L	0.04	B|	--	--	<0.14	B|Uop	<0.21	B|Uop	--	--	--	--	--	
SODIUM	2000	ug/L	**39600**		--	--	**41600**		**43100**		--	--	--	--	--	
THALLIUM	10	ug/L	<10.0		--	--	<10.0		<10.0		--	--	--	--	--	
VANADIUM	10	ug/L	**10.5**		--	--	**14.1**	E|Jk	**13.8**	E|Jk	--	--	--	--	--	
ZINC	20	ug/L	2.9	BE|	--	--	<20.0		0.55	B|	--	--	--	--	--	

* = Chromium result is from a sample collected on 2/10/99.

APPENDIX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037
		Sample ID	GWGW0775		GWGW0799		GWGW0822		GWGW0832		GWGW0844		GWGW0845		GWGW0882		GWGW0893		GWGW0911		GWGW0930
		Date	01/04/99		02/01/99		03/03/99		04/06/99		05/04/99		05/04/99		06/01/99		07/06/99		08/03/99		09/01/99
		QA	D										D								
Analyte	CRDL	Units																			
ANTIMONY	5	ug/L	--		<0.13	B|Uo	--		--		<0.14	B|Uop	<0.15	B|Uop	--		--		<0.11	B|Uop	--
ARSENIC	3	ug/L	--		2.6	B|	--		--		**4.3**		**4.1**		--		--		**8.4**		--
BARIUM	20	ug/L	--		**157**		--		--		**154**		**157**		--		--		**155**		--
BERYLLIUM	1	ug/L	--		0.01	B|	--		--		<1.0		<1.0		--		--		<1.0		--
CADMIUM	1	ug/L	--		<1.0		--		--		<1.0		<1.0		--		--		<1.0		--
CALCIUM	2000	ug/L	--		**36200**		--		--		**40500**		**41400**		--		--		**39100**		--
CHROMIUM	10	ug/L	4.10	B|Jo	8.5	B|	**11.8**		**15.0**		**13.9**		**14.4**		8.2		8.1		9.0	BE|Jk	7.8
CHROMIUM, HEXAVALENT	10	ug/L	**10**		<10	|UJh	**12.1**		**15**		**15**	|Jh	**13**	|Jh	9	J|	9	J|	8	J|	<10
COBALT	10	ug/L	--		0.17	B|	--		--		<0.23	B|Uop	<0.24	B|Uop	--		--		0.02	B|	--
COPPER	10	ug/L	--		1.3	B|	--		--		<1.4	B|Up	<0.99	B|Up	--		--		7.4	B|	--
IRON	100	ug/L	--		**170**	E|Jk	--		--		64.7	B|	83.6	B|	--		--		45.5	B|	--
LEAD	3	ug/L	--		0.13	B|	--		--		<0.17	B|Uop	<0.17	B|Uop	--		--		<2.0		--
MAGNESIUM	2000	ug/L	--		**61500**		--		--		**68600**		**70100**		--		--		**65400**		--
MANGANESE	10	ug/L	--		0.54	BE|Jk	--		--		0.71	BE|Jk	0.76	BE|Jk	--		--		0.51	BE|	--
MERCURY	0.2	ug/L	--		<0.2		--		--		<0.2		<0.2		--		--		<0.2		--
MOLYBDENUM	10	ug/L	--		2.5	B|	--		--		2.0	B|	2.0	B|	--		--		1.9	B|	--
NICKEL	20	ug/L	--		2.5	BE|Jk	--		--		1.5	B|	1.9	B|	--		--		3.6	BE|Jk	--
POTASSIUM	2000	ug/L	--		631		--		--		667	B|	696	B|	--		--		653	B|	--
SELENIUM	3	ug/L	--		<3.0		--		--		<3.3	|Uo	<3.7	|Uo	--		--		<3.0		--
SILVER	10	ug/L	--		<10.0		--		--		<0.05	B|Uop	<0.05	B|Uop	--		--		<0.16	B|Uop	--
SODIUM	2000	ug/L	--		**29500**		--		--		**33200**		**34000**		--		--		**31300**		--
THALLIUM	10	ug/L	--		0.44	B|	--		--		<0.12	B|Uop	<0.11	B|Uop	--		--		<10.0		--
VANADIUM	10	ug/L	--		4.8	B|	--		--		9.7	B|	**10.3**		--		--		**14.7**	E|Jk	--
ZINC	20	ug/L	--		16.0	BE|Jk	--		--		2.8	B|	2.8	B|	--		--		0.67	B|	--

* = Chromium result is from a sample collected on 2/10/99.

API IX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-038	UCD2-038	UCD2-038	UCD2-038	UCD2-038
		Sample ID	GWGW0931	GWGW0948	GWGW0950	GWGW0958	GWGW0983	GWGW0781	GWGW0792	GWGW0823	GWGW0833	GWGW0846
		Date	09/01/99	10/07/99	10/07/99	11/02/99	12/01/99	01/06/99	02/03/99	03/03/99	04/06/99	05/04/99
		QA	D		D							
Analyte	CRDL	Units										
ANTIMONY	5	ug/L	--	--	--	--	--	--	<0.10 B|Uo	--	--	<0.16 B|Uop
ARSENIC	3	ug/L	--	--	--	--	--	--	**3.5**	--	--	**4.2**
BARIUM	20	ug/L	--	--	--	--	--	--	**170**	--	--	**156**
BERYLLIUM	1	ug/L	--	--	--	--	--	--	<1.0	--	--	<1.0
CADMIUM	1	ug/L	--	--	--	--	--	--	<1.0	--	--	<1.0
CALCIUM	2000	ug/L	--	--	--	--	--	--	**36300**	--	--	**37000**
CHROMIUM	10	ug/L	7.5	7.8	7.7	8.4	**13.9**	**15.70** |Jo	**19.8**	**18.3**	**19.3**	**18.9**
CHROMIUM, HEXAVALENT	10	ug/L	**10**	7 J|	<10	--	**11**	**18**	**15**	**22.4**	**20**	**26** |Jh
COBALT	10	ug/L	--	--	--	--	--	--	0.14 B|	--	--	<0.23 B|Uop
COPPER	10	ug/L	--	--	--	--	--	--	1.6 B|	--	--	<1.3 B|Up
IRON	100	ug/L	--	--	--	--	--	--	**143** E|Jk	--	--	56.9 B|
LEAD	3	ug/L	--	--	--	--	--	--	0.12 B|	--	--	<0.17 B|Uop
MAGNESIUM	2000	ug/L	--	--	--	--	--	--	**73100**	--	--	**72700**
MANGANESE	10	ug/L	--	--	--	--	--	--	0.34 BE|	--	--	<0.66 BE|Up
MERCURY	0.2	ug/L	--	--	--	--	--	--	<0.2	--	--	<0.2
MOLYBDENUM	10	ug/L	--	--	--	--	--	--	2.6 B|	--	--	1.9 B|
NICKEL	20	ug/L	--	--	--	--	--	--	2.1 BE|	--	--	1.7 B|
POTASSIUM	2000	ug/L	--	--	--	--	--	--	688	--	--	721 B|
SELENIUM	3	ug/L	--	--	--	--	--	--	**3.2**	--	--	<3.5 |Uo
SILVER	10	ug/L	--	--	--	--	--	--	<10.0	--	--	<0.05 B|Uop
SODIUM	2000	ug/L	--	--	--	--	--	--	**34900**	--	--	**37000**
THALLIUM	10	ug/L	--	--	--	--	--	--	<10.0	--	--	<0.11 B|Uop
VANADIUM	10	ug/L	--	--	--	--	--	--	<10.0	--	--	**10.0** B|
ZINC	20	ug/L	--	--	--	--	--	--	16.6 BE|Jk	--	--	2.6 B|

* = Chromium result is from a sample collected on 2/10/99.

APPENDIX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-038		UCD2-038		UCD2-038		UCD2-038		UCD2-038		UCD2-038		UCD2-039		UCD2-039		UCD2-039
		Sample ID	GWGW0881		GWGW0892		GWGW0921		GWGW0929		GWGW0949		GWGW0955		GWGW0984		GWGW0783		GWGW0794		GWGW0824
		Date	06/01/99		07/06/99		08/05/99		09/01/99		10/07/99		11/02/99		12/01/99		01/06/99		02/02/99		03/03/99
		QA																			
Analyte	CRDL	Units																			
ANTIMONY	5	ug/L	--		--		<0.11	B|Uo	--		--		--		--		--		<0.07	B|Uo	--
ARSENIC	3	ug/L	--		--		**9.8**		--		--		--		--		--		2.5	B|	--
BARIUM	20	ug/L	--		--		**151**		--		--		--		--		--		**179**		--
BERYLLIUM	1	ug/L	--		--		<1.0		--		--		--		--		--		<1.0		--
CADMIUM	1	ug/L	--		--		<1.0		--		--		--		--		--		<1.0		--
CALCIUM	2000	ug/L	--		--		**34200**		--		--		--		--		--		**39400**		--
CHROMIUM	10	ug/L	**11.3**		8.5		9.5	BE|Jk	**19.6**		**15.0**		**20.1**		**25.1**		**13.80**	|Jo	**18.1**		**17.3**
CHROMIUM, HEXAVALENT	10	ug/L	8	J|	8	J|	<10		**21**		**13**		--		**18**		**25**		<10		**17.8**
COBALT	10	ug/L	--		--		0.05	B|	--		--		--		--		--		0.12	B|	--
COPPER	10	ug/L	--		--		1.2	B|	--		--		--		--		--		2.3	B|	--
IRON	100	ug/L	--		--		42.2	B|	--		--		--		--		--		**178**	E|Jk	--
LEAD	3	ug/L	--		--		<2.0		--		--		--		--		--		0.08	B|	--
MAGNESIUM	2000	ug/L	--		--		**66900**		--		--		--		--		--		**71400**		--
MANGANESE	10	ug/L	--		--		0.84	BE|	--		--		--		--		--		0.27	BE|	--
MERCURY	0.2	ug/L	--		--		<0.07	B|Uop	--		--		--		--		--		<0.2		--
MOLYBDENUM	10	ug/L	--		--		1.8	B|	--		--		--		--		--		2.4	B|	--
NICKEL	20	ug/L	--		--		2.7	BE|Jk	--		--		--		--		--		2.4	BE|	--
POTASSIUM	2000	ug/L	--		--		654	B|	--		--		--		--		--		737		--
SELENIUM	3	ug/L	--		--		<3.0		--		--		--		--		--		<3.0		--
SILVER	10	ug/L	--		--		<0.16	B|Uop	--		--		--		--		--		<10.0		--
SODIUM	2000	ug/L	--		--		**31800**		--		--		--		--		--		**35400**		--
THALLIUM	10	ug/L	--		--		<10.0		--		--		--		--		--		0.06	B|	--
VANADIUM	10	ug/L	--		--		**14.7**	E|Jk	--		--		--		--		--		<10.0		--
ZINC	20	ug/L	--		--		1.5	B|	--		--		--		--		--		17.0	BE|Jk	--

* = Chromium result is from a sample collected on 2/10/99.

APF IX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-040
		Sample ID	GWGW0835	GWGW0853	GWGW0884	GWGW0895	GWGW0922	GWGW0933	GWGW0944	GWGW0971	GWGW0979	GWGW0780
		Date	04/06/99	05/05/99	06/01/99	07/06/99	08/05/99	09/01/99	10/06/99	11/04/99	12/01/99	01/06/99
		QA										
Analyte	CRDL	Units										
ANTIMONY	5	ug/L	--	<5.0	--	--	<5.0	--	--	--	--	--
ARSENIC	3	ug/L	--	**5.9**	--	--	**8.7**	--	--	--	--	--
BARIUM	20	ug/L	--	**175**	--	--	**175**	--	--	--	--	--
BERYLLIUM	1	ug/L	--	<1.0	--	--	<1.0	--	--	--	--	--
CADMIUM	1	ug/L	--	<0.94 B|Up	--	--	<1.0	--	--	--	--	--
CALCIUM	2000	ug/L	--	**39800**	--	--	**40200**	--	--	--	--	--
CHROMIUM	10	ug/L	**19.4**	**19.5**	**22.8**	**23.3**	**23.1** E|JK	**24.4**	**24.0**	**24.3**	**24.2**	**22.20** |Jo
CHROMIUM, HEXAVALENT	10	ug/L	**19**	**17** |Jh	**20**	**24**	**22**	**24**	**24**	--	**17**	**12**
COBALT	10	ug/L	--	0.01 B|	--	--	0.04 B|	--	--	--	--	--
COPPER	10	ug/L	--	0.96 B|	--	--	0.56 B|	--	--	--	--	--
IRON	100	ug/L	--	58.2 B|	--	--	44.4 B|	--	--	--	--	--
LEAD	3	ug/L	--	<3.0 E|	--	--	<2.0	--	--	--	--	--
MAGNESIUM	2000	ug/L	--	**69300** |Jm	--	--	**70500**	--	--	--	--	--
MANGANESE	10	ug/L	--	0.55 BE|Jk	--	--	**12.5** E|Jk	--	--	--	--	--
MERCURY	0.2	ug/L	--	<0.2	--	--	<0.06 B|Uop	--	--	--	--	--
MOLYBDENUM	10	ug/L	--	2.8 B|	--	--	1.9 B|	--	--	--	--	--
NICKEL	20	ug/L	--	1.4 B|	--	--	4.9 BE|Jk	--	--	--	--	--
POTASSIUM	2000	ug/L	--	711 B|	--	--	756 B|	--	--	--	--	--
SELENIUM	3	ug/L	--	1.9 B|	--	--	1.4 B|	--	--	--	--	--
SILVER	10	ug/L	--	0.03 B|	--	--	<0.15 B|Uop	--	--	--	--	--
SODIUM	2000	ug/L	--	**35900**	--	--	**36600**	--	--	--	--	--
THALLIUM	10	ug/L	--	<10.0	--	--	<10.0	--	--	--	--	--
VANADIUM	10	ug/L	--	**10.7**	--	--	**13.6** E|Jk	--	--	--	--	--
ZINC	20	ug/L	--	2.6 BE|	--	--	1.6 B|	--	--	--	--	--

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APPENDIX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-040		UCD2-040	UCD2-040	UCD2-040		UCD2-040	UCD2-040	UCD2-040		UCD2-040	UCD2-040	UCD2-040
		Sample ID	GWGW0789		GWGW0820	GWGW0829	GWGW0847		GWGW0885	GWGW0896	GWGW0905		GWGW0934	GWGW0945	GWGW0961
		Date	02/04/99		03/02/99	04/05/99	05/04/99		06/01/99	07/06/99	08/02/99		09/01/99	10/06/99	11/02/99
		QA													
Analyte	CRDL	Units													
ANTIMONY	5	ug/L	<0.05	B|Uo	--	--	<0.13	B|Uop	--	--	<5.0		--	--	--
ARSENIC	3	ug/L	2.6	B|	--	--	**3.8**		--	--	**9.0**		--	--	--
BARIUM	20	ug/L	**182**		--	--	**188**		--	--	**184**		--	--	--
BERYLLIUM	1	ug/L	<1.0		--	--	<1.0		--	--	<1.0		--	--	--
CADMIUM	1	ug/L	<1.0		--	--	<1.0		--	--	<1.0		--	--	--
CALCIUM	2000	ug/L	**42900**		--	--	**45800**		--	--	**39000**		--	--	--
CHROMIUM	10	ug/L	**27.8**		**26.8**	**38.0**	**32.6**		**44.6**	**37.7**	**42.6**	E|Jk	**34.0**	**31.7**	**33.1**
CHROMIUM, HEXAVALENT	10	ug/L	**19**		**30.0**	**39**	**39**	|Jh	***42**	**37**	**32**	|Jh	**36**	**32**	--
COBALT	10	ug/L	0.12	B|	--	--	<0.20	B|Uop	--	--	<10.0		--	--	--
COPPER	10	ug/L	2.0	B|	--	--	<1.2	B|Up	--	--	**0.88**	B|	--	--	--
IRON	100	ug/L	**158**	E|Jk	--	--	74.5	B|	--	--	35.5	B|	--	--	--
LEAD	3	ug/L	0.09	B|	--	--	<0.18	B|Uop	--	--	<2.0		--	--	--
MAGNESIUM	2000	ug/L	**75300**		--	--	**78500**		--	--	**66500**		--	--	--
MANGANESE	10	ug/L	0.46	BE|	--	--	<0.61	BE|Up	--	--	0.39	BE|	--	--	--
MERCURY	0.2	ug/L	<0.2		--	--	<0.2		--	--	<0.2		--	--	--
MOLYBDENUM	10	ug/L	2.2	B|	--	--	1.6	B|	--	--	1.6	B|	--	--	--
NICKEL	20	ug/L	2.5	BE|Jk	--	--	1.9	B|	--	--	1.6	BE|Jk	--	--	--
POTASSIUM	2000	ug/L	783		--	--	872	B|	--	--	748	B|	--	--	--
SELENIUM	3	ug/L	2.0	B|	--	--	**4.6**		--	--	**3.4**		--	--	--
SILVER	10	ug/L	<10.0		--	--	<0.05	B|Uop	--	--	<0.14	B|Uop	--	--	--
SODIUM	2000	ug/L	**39500**		--	--	**42700**		--	--	**36400**		--	--	--
THALLIUM	10	ug/L	<10.0		--	--	<0.10	B|Uop	--	--	<10.0		--	--	--
VANADIUM	10	ug/L	<10.0		--	--	9.4	B|	--	--	**14.1**	E|Jk	--	--	--
ZINC	20	ug/L	18.4	BE|Jk	--	--	3.4	B|	--	--	0.17	B|	--	--	--

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APF IX B
METALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-040	UCD2-040	UCD4-041		UCD4-041		UCD4-041		UCD4-041		UCD4-042		UCD4-042		UCD4-042		UCD4-042	
		Sample ID	GWGW0962	GWGW0980	GWGW0810		GWGW0869		GWGW0927		GWGW0963		GWGW0811		GWGW0872		GWGW0873		GWGW0925	
		Date	11/02/99	12/01/99	02/11/99		05/12/99		08/04/99		11/02/99		02/04/99		05/12/99		05/12/99		08/10/99	
		QA	D														D			
Analyte	CRDL	Units																		
ANTIMONY	5	ug/L	--	--	<5.0		<5.0		<0.14	B|Uo	--		<0.07	B|Uo	<5.0		<5.0		<0.22	B|Uop
ARSENIC	3	ug/L	--	--	2.4	B|	**5.4**		**7.4**		--		2.9	B|	**5.1**		**5.4**		<6.6	|Up
BARIUM	20	ug/L	--	--	**135**		**133**		**119**		--		**170**		**147**		**152**		**151**	
BERYLLIUM	1	ug/L	--	--	<1.0		<1.0		<1.0		--		<1.0		<1.0		<1.0		<0.01	B|Up
CADMIUM	1	ug/L	--	--	<1.0		<1.0		<1.0		--		<0.09	B|Uo	<1.0		<1.0		<1.0	
CALCIUM	2000	ug/L	--	--	**37500**		**34800**		**32100**		--		**40800**		**34600**		**35300**		**32700**	
CHROMIUM	10	ug/L	**30.5**	**32.8**	**22.1**		**21.9**		**20.0**	E|Jk	**20.7**		**28.6**		**33.8**		**35.2**		**34.3**	
CHROMIUM, HEXAVALENT	10	ug/L	--	**26**	**21**		**88**		**19**		--		**19.8**		**33**		**34**		**32**	|Jh
COBALT	10	ug/L	--	--	0.10	B|	<10.0		<10.0		--		0.10	B|	0.14	B|	0.14	B|	0.02	B|
COPPER	10	ug/L	--	--	1.2	B|	0.83	B|	0.37	B|	--		5.8	B|	0.83	B|	0.96	B|	0.40	B|
IRON	100	ug/L	--	--	**150**	E|Jk	25.2	B|	40.3	B|	--		**158**	E|Jk	39.9	B|	41.0	B|	35.5	B|
LEAD	3	ug/L	--	--	0.04	B|	<3.0		<2.0		--		0.18	B|	<3.0		<3.0		<2.0	
MAGNESIUM	2000	ug/L	--	--	**59000**		**54700**		**50300**		--		**70400**		**57200**		**58400**		**55400**	
MANGANESE	10	ug/L	--	--	0.58	BE|Jk	0.42	B|	0.64	BE|	--		8.2	BE|Jk	1.0	B|	0.98	B|	1.7	B|
MERCURY	0.2	ug/L	--	--	<0.2		<0.2		<0.07	B|Uop	--		<0.2		0.18	B|	0.14	B|	<0.2	
MOLYBDENUM	10	ug/L	--	--	1.3	B|	1.2	B|	<1.3	B|Uo	--		2.1	B|	1.6	B|	1.7	B|	1.7	B|
NICKEL	20	ug/L	--	--	1.4	B|	0.68	B|	1.1	BE|	--		1.4	BE|	0.58	B|	0.56	B|	0.54	B|
POTASSIUM	2000	ug/L	--	--	1230	E|Jk	1520	B|	1030	B|	--		887		1580	B|	1310	B|	1420	B|
SELENIUM	3	ug/L	--	--	2.4	B|	<3.2	|Up	1.8	B|	--		2.5	B|	<4.0	|Up	<3.6	|Up	1.7	B|
SILVER	10	ug/L	--	--	<10.0		<10.0		<0.17	B|Uop	--		<10.0		<10.0		<10.0		<0.17	B|Uop
SODIUM	2000	ug/L	--	--	**47100**		**46400**		**43300**		--		**43400**		**45400**		**45700**		**45100**	
THALLIUM	10	ug/L	--	--	<10.0		<10.0		<10.0		--		<10.0		<10.0		<10.0		<0.18	B|Uo
VANADIUM	10	ug/L	--	--	<10.0		**10.0**	B|	**13.1**	E|Jk	--		<10.0		9.6	B|	**10.1**		**15.0**	E|Jk
ZINC	20	ug/L	--	--	13.6	BE|Jkl	2.3	B|	<0.85	B|Up	--		19.3	BE|Jk	2.8	B|	2.4	B|	<1.3	B|Up

* = Chromium result is from a sample collected on 2/10/99.

APPENDIX B
METALS - GROUNDWATER
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		Location	UCD4-042		UCD4-043		UCD4-043		UCD4-043		UCD4-043		UCD4-043		UCD4-044		UCD4-044		UCD4-044	
		Sample ID	GWGW0972		GWGW0812		GWGW0813		GWGW0874		GWGW0926		GWGW0973		GWGW0877		GWGW0928		GWGW0923	
		Date	11/04/99		02/04/99		02/04/99		05/12/99		08/10/99		11/04/99		05/10/99		08/04/99		08/04/99	
		QA					D												D	
Analyte	CRDL	Units																		
ANTIMONY	5	ug/L	--		<0.06	B|Uo	<0.05	B|Uo	<5.0		<0.22	B|Uop	--		<0.17	B|Uo	<0.11	B|Uo	<0.34	B|Uo
ARSENIC	3	ug/L	--		**3.0**		**3.1**		**6.5**		<6.9	|Up	--		**5.3**		**7.6**		**5.6**	
BARIUM	20	ug/L	--		**165**		**164**		**152**		**149**		--		**116**		**117**		**115**	
BERYLLIUM	1	ug/L	--		<1.0		<1.0		<1.0		<0.01	B|Up	--		<1.0		<1.0		<1.0	
CADMIUM	1	ug/L	--		<1.0		<1.0		<1.0		<1.0		--		<1.0		<1.0		<1.0	
CALCIUM	2000	ug/L	--		**40700**		**40200**		**36900**		**35600**		--		**32600**		**31100**		**32000**	
CHROMIUM	10	ug/L	**25.4**		**28.3**		**28.7**		**33.8**		**32.1**		**26.4**		**19.8**		**20.7**	E|Jk	**20.2**	E|Jk
CHROMIUM, HEXAVALENT	10	ug/L	--		**19.8**		**19.8**		**33**		**35**	|Jh	--		**17.5**		**23**		**19**	
COBALT	10	ug/L	--		0.10	B|	0.07	B|	0.07	B|	<10.0		--		0.14	B|	<10.0		<10.0	
COPPER	10	ug/L	--		2.1	B|	1.4	B|	1.0	B|	0.46	B|	--		0.74	B|	0.64	B|	1.0	B|
IRON	100	ug/L	--		**149**	E|Jk	**152**	E|Jk	41.5	B|	36.6	B|	--		39.3	B|	32.6	B|	56.3	B|
LEAD	3	ug/L	--		0.21	B|	0.12	B|	<3.0		<2.0		--		<3.0		<2.0		<2.0	
MAGNESIUM	2000	ug/L	--		**72100**		**71000**		**67600**		**62800**		--		**51100**		**49000**		**50700**	
MANGANESE	10	ug/L	--		0.34	BE|	0.23	BE|	0.48	B|	<0.61	B|Up	--		**44.7**		**27.3**	E|Jk	**23.5**	E|Jk
MERCURY	0.2	ug/L	--		<0.2		<0.2		<0.2		<0.2		--		<0.2		<0.05	B|Uop	<0.07	B|Uop
MOLYBDENUM	10	ug/L	--		<1.8	B|Uo	<1.8	B|Uo	1.2	B|	<1.5	B|Uo	--		2.2	B|	<1.5	B|Uo	2.1	B|
NICKEL	20	ug/L	--		1.7	BE|	2.1	BE|Jk	2.2	B|	0.63	B|	--		1.5	B|	1.2	BE|	6.0	BE|Jk
POTASSIUM	2000	ug/L	--		1090		1080		1130	B|	1170	B|	--		1280	B|	1120	B|	1150	B|
SELENIUM	3	ug/L	--		**3.5**		**3.6**		<3.7	|Up	2.4	B|	--		<2.8	B|Uop	1.9	B|	2.4	B|
SILVER	10	ug/L	--		<10.0		<10.0		<10.0		<0.16	B|Uop	--		<10.0		<0.17	B|Uop	<0.27	B|Uop
SODIUM	2000	ug/L	--		**48000**		**47300**		**46100**		**45100**		--		**51600**		**43700**		**45300**	
THALLIUM	10	ug/L	--		<10.0		<10.0		<10.0		<0.75	B|Uo	--		0.46	B|	<10.0		<0.13	B|Uo
VANADIUM	10	ug/L	--		<10.0		<10.0		9.5	B|	**13.4**	E|Jk	--		9.5	B|	**13.5**	E|Jk	**11.3**	E|Jk
ZINC	20	ug/L	--		17.4	BE|Jk	16.8	BE|Jk	3.1	B|	<2.1	B|Up	--		2.2	B|	1.8	B|	1.6	B|

* = Chromium result is from a sample collected on 2/10/99.
Gwat1999 on 3/1/00 at 2:54 PM

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		Location	UCD4-044	
		Sample ID	GWGW0956	
		Date	11/01/99	
		QA		
Analyte	CRDL	Units		
ANTIMONY	5	ug/L	<5.0	
ARSENIC	3	ug/L	**3.5**	
BARIUM	20	ug/L	**129**	
BERYLLIUM	1	ug/L	<0.03	B|Up
CADMIUM	1	ug/L	<1.0	
CALCIUM	2000	ug/L	**33500**	
CHROMIUM	10	ug/L	**21.5**	
CHROMIUM, HEXAVALENT	10	ug/L	**18**	
COBALT	10	ug/L	<10.0	
COPPER	10	ug/L	0.17	B|
IRON	100	ug/L	49.5	B|
LEAD	3	ug/L	<2.0	
MAGNESIUM	2000	ug/L	**52900**	
MANGANESE	10	ug/L	**35.4**	
MERCURY	0.2	ug/L	<0.2	
MOLYBDENUM	10	ug/L	1.7	B|
NICKEL	20	ug/L	0.63	B|
POTASSIUM	2000	ug/L	1000	B|
SELENIUM	3	ug/L	2.6	B|
SILVER	10	ug/L	<0.01	B|Uop
SODIUM	2000	ug/L	**44900**	
THALLIUM	10	ug/L	1.2	B|
VANADIUM	10	ug/L	**10.1**	
ZINC	20	ug/L	<0.78	B|Up

* = Chromium result is from a sample collected on 2/10/99.
Gwat1999 on 3/1/00 at 2:54 PM

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		Location	UCD1-001	UCD1-004	UCD1-004	UCD1-004	UCD1-004	UCD1-010	UCD1-010	UCD1-010	UCD1-011	UCD1-012
		Sample ID	GWGW0860	GWGW0800	GWGW0848	GWGW0849	GWGW0912	GWGW0806	GWGW0861	GWGW0906	GWGW0866	GWGW0807
		Date	05/11/99	02/10/99	05/05/99	05/05/99	08/09/99	02/11/99	05/11/99	08/03/99	05/05/99	02/10/99
		QA				DUPLICATE						
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	--	--	--	--
CHLORIDES	1	mg/L	--	--	--	--	--	--	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**12.6** |Jh	**4.47**	**3.84**	**3.79**	**5.04**	**45.3**	**40.6** |Jh	**34.9**	**17.6**	**69**
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	--	**445**	**453**	**467**	**556**	**1530**	**1530**	**1540**	**761**	**1460**
TOTAL ORGANIC CARBON	1.00	mg/L	--	**1.52**	0.935 |Jf	0.252 J|Jf	**3.20**	**11.3**	**2.29**	**5.74**	**1.05**	**7.09**

APP. .X B
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		Location	UCD1-012	UCD1-012	UCD1-012	UCD1-013	UCD1-013	UCD1-013	UCD1-018	UCD1-018	UCD1-019	UCD1-020
		Sample ID	GWGW0808	GWGW0862	GWGW0913	GWGW0801	GWGW0854	GWGW0914	GWGW0809	GWGW0867	GWGW0863	GWGW0864
		Date	02/10/99	05/11/99	08/05/99	02/02/99	05/06/99	08/09/99	02/02/99	05/10/99	05/11/99	05/11/99
		QA	DUPLICATE									
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	--	--	--	--
CHLORIDES	1	mg/L	--	--	--	--	--	--	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**69.1**	**70.1** |Jh	**81**	--	**11.8**	--	--	**9.76**	**21.9** |Jh	**16.6** |Jh
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**1460**	**1500**	**1720**	**1010**	**1000**	**1060**	**523**	**511**	**996**	**444**
TOTAL ORGANIC CARBON	1.00	mg/L	**7.02**	**2.50**	<0.874 |Up	**9.13**	**1.73**	**5.02**	**3.54**	**4.01**	0.519	0.705

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		Location	UCD1-021	UCD1-022	UCD1-023	UCD1-024	UCD1-025	UCD1-025	UCD1-027Z3	UCD1-028	UCD1-028	UCD1-028
		Sample ID	GWGW0870	GWGW0871	GWGW0868	GWGW0865	GWGW0795	GWGW0836	GWGW0875	GWGW0776	GWGW0784	GWGW0817
		Date	05/10/99	05/04/99	05/06/99	05/11/99	02/04/99	05/03/99	05/10/99	01/05/99	02/11/99	03/02/99
		QA										
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	--	--	**695**	--
CHLORIDES	1	mg/L	--	--	--	--	--	--	--	--	**47.4**	--
NITROGEN, NITRATE	0.1	mg/L	**61.9**	--	**1.76**	**60.7** |Jh	**18.2**	**21.1**	**0.23**	**46.7**	**50.0**	--
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	--	--	<0.09 |Uo	--
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	--	--	**42.4**	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**1040**	**847**	**449**	**947**	--	**794**	--	**1060**	**1060**	**1060**
TOTAL ORGANIC CARBON	1.00	mg/L	**3.11**	0.584	<0.5	**3.90**	--	**1.24**	--	**9.83**	**9.35**	**1.13** |Jf

APPE B
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		Location	UCD1-028	UCD1-028	UCD1-028	UCD1-028	UCD1-028	UCD1-028	UCD1-028	UCD1-028	UCD1-028	UCD1-028
		Sample ID	GWGW0818	GWGW0825	GWGW0837	GWGW0886	GWGW0898	GWGW0901	GWGW0936	GWGW0940	GWGW0951	GWGW0974
		Date	03/02/99	04/01/99	05/03/99	06/02/99	07/07/99	08/02/99	09/01/99	10/06/99	11/01/99	12/01/99
		QA	DUPLICATE									
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	812	--	--	683	--	--	--	--
CHLORIDES	1	mg/L	--	--	58.9	--	--	41.0	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	--	45.2	43.7	47.3	44.4	42.4	44	45.5	49.9	44.7
PHOSPHORUS AS PO4	1	mg/L	--	--	<0.05	--	--	0.07	--	--	--	--
SULFATE AS SO4	1	mg/L	--	--	40.1	--	--	39.7	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	1030	1050	1030	1080	1030	1080	976	1060	1060	1070
TOTAL ORGANIC CARBON	1.00	mg/L	0.331 J|Jf	2.69	2.31	9.89	<1.34 |Up	6.71	2.45	1.90	--	1.84

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		Location	UCD1-034	UCD2-007	UCD2-007	UCD2-007	UCD2-007	UCD2-007	UCD2-014	UCD2-014	UCD2-014	UCD2-014
		Sample ID	GWGW0842	GWGW0802	GWGW0803	GWGW0855	GWGW0915	GWGW0964	GWGW0804	GWGW0856	GWGW0857	GWGW0916
		Date	05/04/99	02/01/99	02/01/99	05/06/99	08/03/99	11/03/99	02/02/99	05/06/99	05/06/99	08/09/99
		QA			DUPLICATE						DUPLICATE	
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	--	--	--	--
CHLORIDES	1	mg/L	--	--	--	--	--	--	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	0.033 J|	**8.93**	**8.89**	**9.28**	**10.7**	**17.8**	**6.97**	**8.11**	**8.08**	**8.69**
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**394**	**499**	**510**	**494**	**553**	**625**	**566**	**835**	**820**	**924**
TOTAL ORGANIC CARBON	1.00	mg/L	0.338 J|	**3.32**	**5.13**	**2.49**	**2.19**	--	**3.91**	**1.89**	**1.88**	**6.32**

APPE (B
GENERAL CHEMICALS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-014	UCD2-015	UCD2-015	UCD2-015	UCD2-015	UCD2-016	UCD2-016	UCD2-016	UCD2-016	UCD2-017
		Sample ID	GWGW0965	GWGW0805	GWGW0850	GWGW0917	GWGW0966	GWGW0797	GWGW0858	GWGW0907	GWGW0967	GWGW0798
		Date	11/03/99	02/10/99	05/05/99	08/09/99	11/03/99	02/02/99	05/06/99	08/03/99	11/03/99	02/02/99
		QA										
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	--	--	--	--
CHLORIDES	1	mg/L	--	--	--	--	--	--	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**9.25**	**6.43**	**6.45**	**8.75**	**9.82**	**4.61**	**4.01**	**6.82**	**6.09**	**1.92**
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**842**	**446**	**448**	**540**	**494**	**472**	**462**	**529**	**526**	**434**
TOTAL ORGANIC CARBON	1.00	mg/L	--	**4.49**	**2.40**	**1.36**	--	**4.06**	**3.27**	**5.14**	--	**3.62**

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DAVIS, CALIFORNIA

		Location	UCD2-017	UCD2-017	UCD2-017	UCD2-026	UCD2-026	UCD2-026	UCD2-026	UCD2-026	UCD2-027Z5	UCD2-029
		Sample ID	GWGW0851	GWGW0908	GWGW0968	GWGW0796	GWGW0838	GWGW0919	GWGW0952	GWGW0953	GWGW0876	GWGW0777
		Date	05/05/99	08/03/99	11/03/99	02/04/99	05/03/99	08/05/99	11/02/99	11/02/99	05/10/99	01/05/99
		QA								DUPLICATE		
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	--	--	--	--
CHLORIDES	1	mg/L	--	--	--	--	--	--	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**1.97**	**1.96**	**2.61**	**4.48**	**14.7**	**7.36**	**6.67**	**6.24**	**5.86**	**8.23**
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**435**	**451**	**462**	**460**	**620**	**507**	**497**	**497**	--	**491**
TOTAL ORGANIC CARBON	1.00	mg/L	0.219 J	**2.81**	--	**3.09**	**1.02**	**2.97**	--	--	--	**4.91**

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		Location	UCD2-029	UCD2-029	UCD2-029	UCD2-029	UCD2-029	UCD2-029	UCD2-029	UCD2-029	UCD2-029	UCD2-029
		Sample ID	GWGW0785	GWGW0786	GWGW0816	GWGW0826	GWGW0839	GWGW0887	GWGW0899	GWGW0904	GWGW0937	GWGW0941
		Date	02/03/99	02/03/99	03/02/99	04/01/99	05/03/99	06/02/99	07/07/99	08/02/99	09/01/99	10/06/99
		QA		DUPLICATE								
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	**341**	**339**	--	--	**343**	--	--	**367**	--	--
CHLORIDES	1	mg/L	**28.2**	**27.9**	--	--	**33.7**	--	--	**33.2**	--	--
NITROGEN, NITRATE	0.1	mg/L	**7.98**	**8.08**	--	**8.5**	**8.94**	**11.1**	**12.6**	**11.8**	**11.1**	**10.8**
PHOSPHORUS AS PO4	1	mg/L	<0.09 |Uop	<0.1 |Uop	--	--	<0.05	--	--	<0.05	--	--
SULFATE AS SO4	1	mg/L	**40.2**	**40.1**	--	--	**42.6**	--	--	**40.9**	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**489**	**501**	**485**	**498**	**507**	**546**	**522**	**561**	**532**	**537**
TOTAL ORGANIC CARBON	1.00	mg/L	**1.87**	**2.24**	**1.56**	0.625	0.424 J|	**13.3**	<0.633 |Up	**1.87**	**2.64**	**2.38**

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		Location	UCD2-029	UCD2-029	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030
		Sample ID	GWGW0954	GWGW0975	GWGW0779	GWGW0787	GWGW0815	GWGW0827	GWGW0840	GWGW0888	GWGW0900	GWGW0902
		Date	11/01/99	12/01/99	01/05/99	02/11/99	03/02/99	04/05/99	05/03/99	06/02/99	07/07/99	08/02/99
		QA										
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	**317**	--	--	**325**	--	--	**348**
CHLORIDES	1	mg/L	--	--	--	**27**	--	--	**25.2**	--	--	**24.1**
NITROGEN, NITRATE	0.1	mg/L	**11.0**	**9.93**	**4.71**	**3.77**	**5.16**	**2.88**	**4.67**	**5.72**	**8.41**	**5.55**
PHOSPHORUS AS PO4	1	mg/L	--	--	--	<0.07 |Uo	--	--	<0.05	--	--	0.03 J|
SULFATE AS SO4	1	mg/L	--	--	--	**41.9**	--	--	**39.6**	--	--	**39.7**
TOTAL DISSOLVED SOLIDS	20	mg/L	**522**	**534**	**471**	**485**	**451**	**444**	**469**	**454**	**474**	**491**
TOTAL ORGANIC CARBON	1.00	mg/L	--	**1.26**	**7.86**	**2.58**	0.162 J|	**2.20**	**2.57**	**11.6**	<0.392 J|Up	**3.51**

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		Location	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-030	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-031
		Sample ID	GWGW0938	GWGW0942	GWGW0959	GWGW0976	GWGW0977	GWGW0778	GWGW0788	GWGW0819	GWGW0828	GWGW0841
		Date	09/02/99	10/06/99	11/01/99	12/01/99	12/01/99	01/05/99	02/11/99	03/02/99	04/05/99	05/03/99
		QA					DUPLICATE					
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	353	--	--	339
CHLORIDES	1	mg/L	--	--	--	--	--	--	24.1	--	--	23.0
NITROGEN, NITRATE	0.1	mg/L	6.73 |Jh	7.25	8.02	7.32	7.39	5.84	5.93	--	3.9	4.49
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	<0.06 |Uo	--	--	<0.05
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	41.9	--	--	37.2
TOTAL DISSOLVED SOLIDS	20	mg/L	476	501	489	500	500	467	485	457	441	446
TOTAL ORGANIC CARBON	1.00	mg/L	2.48	4.71	--	4.87 |Jf	1.66 |Jf	--	3.49	2.94	0.713	2.78

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		Location	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-031	UCD2-032	UCD2-032	UCD2-032
		Sample ID	GWGW0889	GWGW0897	GWGW0903	GWGW0935	GWGW0943	GWGW0960	GWGW0978	GWGW0790	GWGW0859	GWGW0924
		Date	06/02/99	07/06/99	08/02/99	09/01/99	10/06/99	11/01/99	12/01/99	02/04/99	05/06/99	08/09/99
		QA										
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	**352**	--	--	--	--	**337**	**358**	**387**
CHLORIDES	1	mg/L	--	--	**24.1**	--	--	--	--	**22.0**	**22.0**	**21.0**
NITROGEN, NITRATE	0.1	mg/L	**5.89**	**6.94**	**5.27**	**5.64**	**5.93**	**5.61**	**5.66**	**5.81**	**6.77**	**6.40**
PHOSPHORUS AS PO4	1	mg/L	--	--	0.03 J|	--	--	--	--	<0.09 |Uop	0.03 J|	0.05
SULFATE AS SO4	1	mg/L	--	--	**36.4**	--	--	--	--	**40.4**	**41.4**	**38.2**
TOTAL DISSOLVED SOLIDS	20	mg/L	**467**	**452**	**474**	**460**	**468**	**460**	**487**	**474**	**499**	**534**
TOTAL ORGANIC CARBON	1.00	mg/L	**7.81**	**2.26**	**2.96**	**3.02**	**4.33**	--	**6.74**	**2.44**	**1.28**	**3.27**

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		Location	UCD2-032	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035
		Sample ID	GWGW0970	GWGW0782	GWGW0791	GWGW0814	GWGW0834	GWGW0843	GWGW0879	GWGW0880	GWGW0890	GWGW0891
		Date	11/04/99	01/06/99	02/03/99	03/01/99	04/06/99	05/04/99	06/01/99	06/01/99	07/06/99	07/06/99
		QA								DUPLICATE		DUPLICATE
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	--	--	--	--
CHLORIDES	1	mg/L	--	--	--	--	--	--	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**6.48**	**4.17**	**4.04**	**4.36**	**4.49**	**4.62**	**4.79**	**4.74**	**3.62**	**3.70**
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**492**	**424**	**437**	**433**	**452**	**434**	**436**	**443**	**422**	**421**
TOTAL ORGANIC CARBON	1.00	mg/L	--	**3.70**	**3.62**	**1.71**	0.351 J	0.557	**7.48**	**8.95**	**1.13**	**1.74**

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Analyte	CRDL	Units	UCD2-035 GWGW0920 08/05/99	UCD2-035 GWGW0939 09/02/99	UCD2-035 GWGW0946 10/07/99	UCD2-035 GWGW0969 11/03/99	UCD2-035 GWGW0981 12/02/99	UCD2-036 GWGW0773 01/04/99	UCD2-036 GWGW0793 02/01/99	UCD2-036 GWGW0821 03/03/99	UCD2-036 GWGW0830 04/05/99	UCD2-036 GWGW0831 04/05/99 DUPLICATE
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	**342**	--	--	--
CHLORIDES	1	mg/L	--	--	--	--	--	--	**19.1**	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**2.42**	**2.63**	**4.14**	**4.45**	**4.64**	**5.88**	**4.75**	**6.18**	**3.82**	**4.84**
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	<0.1 |Upo	--	--	--
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	**38.0**	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**438**	**431**	**454**	**462**	**437**	**448**	**466**	**441**	**457**	**459**
TOTAL ORGANIC CARBON	1.00	mg/L	**2.90**	**2.31**	**5.51**	--	**4.26**	**6.53**	**5.71**	**1.35**	**1.01**	0.81

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		Location	UCD2-036	UCD2-036	UCD2-036	UCD2-036	UCD2-036	UCD2-036	UCD2-036	UCD2-036	UCD2-036	UCD2-037
		Sample ID	GWGW0852	GWGW0883	GWGW0894	GWGW0909	GWGW0910	GWGW0932	GWGW0947	GWGW0957	GWGW0982	GWGW0774
		Date	05/05/99	06/01/99	07/06/99	08/03/99	08/03/99	09/01/99	10/07/99	11/02/99	12/02/99	01/04/99
		QA					DUPLICATE					
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	**313**	--	--	**389**	**391**	--	--	--	--	--
CHLORIDES	1	mg/L	**20.3**	--	--	**21.2**	**21.3**	--	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**4.57**	**5.17**	**6.81**	**7.54**	**7.55**	**9.30**	**11.0**	**5.41**	**4.14**	**3.08**
PHOSPHORUS AS PO4	1	mg/L	0.04 J|	--	--	<0.05	<0.05	--	--	--	--	--
SULFATE AS SO4	1	mg/L	**37.9**	--	--	**38.5**	**38.7**	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**448**	**457**	**492**	**527**	**531**	**532**	**602**	**503**	**468**	**413**
TOTAL ORGANIC CARBON	1.00	mg/L	**1.29**	<2.16 |Uop	**1.71**	**3.71**	**5.52**	**1.27**	**5.36**	--	**3.35**	**6.56**

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		Location	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-037
		Sample ID	GWGW0775	GWGW0799	GWGW0822	GWGW0832	GWGW0844	GWGW0845	GWGW0882	GWGW0893	GWGW0911	GWGW0930
		Date	01/04/99	02/01/99	03/03/99	04/06/99	05/04/99	05/04/99	06/01/99	07/06/99	08/03/99	09/01/99
		QA	DUPLICATE					DUPLICATE				
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	**313**	--	--	**301**	**348**	--	--	**339**	--
CHLORIDES	1	mg/L	--	**20.9**	--	--	**24.2**	**24.4**	--	--	**16.1**	--
NITROGEN, NITRATE	0.1	mg/L	**3.06**	**2.99**	**4.12**	**5.17**	**4.88**	**4.92**	**1.6**	**2.49**	**1.93**	**1.95**
PHOSPHORUS AS PO4	1	mg/L	--	<0.13 |Uop	--	--	<0.07 |Uop	<0.05 |Uop	--	--	<0.05	--
SULFATE AS SO4	1	mg/L	--	**36.1**	--	--	**38.8**	**38.7**	--	--	**32.5**	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**408**	**420**	**424**	**445**	**446**	**430**	**428**	**413**	**436**	**409**
TOTAL ORGANIC CARBON	1.00	mg/L	**3.86**	**3.48**	**2.19**	0.315 J|	<0.50	0.30 J|	**7.28**	**1.65**	<1.31 |Up	**1.42** |Jf

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		Location	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-037	UCD2-038	UCD2-038	UCD2-038	UCD2-038	UCD2-038
		Sample ID	GWGW0931	GWGW0948	GWGW0950	GWGW0958	GWGW0983	GWGW0781	GWGW0792	GWGW0823	GWGW0833	GWGW0846
		Date	09/01/99	10/07/99	10/07/99	11/02/99	12/01/99	01/06/99	02/03/99	03/03/99	04/06/99	05/04/99
		QA	DUPLICATE		DUPLICATE							
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	**318**	--	--	**303**
CHLORIDES	1	mg/L	--	--	--	--	--	--	**26.2**	--	--	**26.5**
NITROGEN, NITRATE	0.1	mg/L	**1.93**	**2.06**	**2.06**	**2.22**	**4.33**	**6.35**	**6.33**	**6.09**	**6.20**	**6.04**
PHOSPHORUS AS PO4	1	mg/L	--	--	--	--	--	--	<0.09 |Uop	--	--	<0.2 |Uop
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	**39.7**	--	--	**40.6**
TOTAL DISSOLVED SOLIDS	20	mg/L	**422**	**429**	**434**	**445**	**448**	**435**	**457**	**437**	**445**	**470**
TOTAL ORGANIC CARBON	1.00	mg/L	**4.41** |Jf	<1.27 J|Uo	<1.45 |Uo	--	**4.59**	**5.42**	**2.93**	**1.82**	**1.42**	**1.24**

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		Location	UCD2-038	UCD2-038	UCD2-038	UCD2-038	UCD2-038	UCD2-038	UCD2-038	UCD2-039	UCD2-039	UCD2-039
		Sample ID	GWGW0881	GWGW0892	GWGW0921	GWGW0929	GWGW0949	GWGW0955	GWGW0984	GWGW0783	GWGW0794	GWGW0824
		Date	06/01/99	07/06/99	08/05/99	09/01/99	10/07/99	11/02/99	12/01/99	01/06/99	02/02/99	03/03/99
		QA										
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	**363**	--	--	--	--	--	**332**	--
CHLORIDES	1	mg/L	--	--	**17.9**	--	--	--	--	--	**27.8**	--
NITROGEN, NITRATE	0.1	mg/L	**2.80**	**1.98**	**1.91**	**7.49**	**5.16**	**7.22**	**8.18**	**6.62**	**6.53**	**6.17**
PHOSPHORUS AS PO4	1	mg/L	--	--	<0.05	--	--	--	--	--	<0.1 |Uop	--
SULFATE AS SO4	1	mg/L	--	--	**33.1**	--	--	--	--	--	**41.5**	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**419**	**419**	**439**	**455**	**451**	**472**	**475**	**467**	**513**	**456**
TOTAL ORGANIC CARBON	1.00	mg/L	**4.89**	**1.98**	**2.58**	**2.37**	**5.22**	--	**3.95**	**3.29**	**4.00**	**2.49**

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		Location	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-040
		Sample ID	GWGW0835	GWGW0853	GWGW0884	GWGW0895	GWGW0922	GWGW0933	GWGW0944	GWGW0971	GWGW0979	GWGW0780
		Date	04/06/99	05/05/99	06/01/99	07/06/99	08/05/99	09/01/99	10/06/99	11/04/99	12/01/99	01/06/99
		QA										
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	**305**	--	--	**359**	--	--	--	--	--
CHLORIDES	1	mg/L	--	**27.6**	--	--	**28.3**	--	--	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**6.27**	**6.41**	**7.58**	**8.66**	**8.21**	**9.02**	**9.21**	**9.26**	**8.07**	**5.74**
PHOSPHORUS AS PO4	1	mg/L	--	0.05	--	--	<0.05	--	--	--	--	--
SULFATE AS SO4	1	mg/L	--	**42.3**	--	--	**43.7**	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**458**	**489**	**493**	**481**	**524**	**497**	**526**	**527**	**511**	**446**
TOTAL ORGANIC CARBON	1.00	mg/L	0.242 J|	**2.77**	**10.2**	<0.794 |Uo	**1.23**	**2.10**	**3.08**	--	<0.711 J|Uc	**5.89**

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		Location	UCD2-040	UCD2-040	UCD2-040	UCD2-040	UCD2-040	UCD2-040	UCD2-040	UCD2-040	UCD2-040	UCD2-040
		Sample ID	GWGW0789	GWGW0820	GWGW0829	GWGW0847	GWGW0885	GWGW0896	GWGW0905	GWGW0934	GWGW0945	GWGW0961
		Date	02/04/99	03/02/99	04/05/99	05/04/99	06/01/99	07/06/99	08/02/99	09/01/99	10/06/99	11/02/99
		QA										
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	**342**	--	--	**323**	--	--	**365**	--	--	--
CHLORIDES	1	mg/L	**24.8**	--	--	**28.2**	--	--	**22.9**	--	--	--
NITROGEN, NITRATE	0.1	mg/L	**5.79**	--	**7.69**	**7.62**	**8.24**	**8.69**	**7.4**	**7.78**	**6.83**	**7.10**
PHOSPHORUS AS PO4	1	mg/L	<0.07 |Uop	--	--	<0.05 |Uop	--	--	<0.05	--	--	--
SULFATE AS SO4	1	mg/L	**39.0**	--	--	**41.1**	--	--	**38.5**	--	--	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**475**	**471**	**531**	**498**	**511**	**461**	**497**	**478**	**482**	**517**
TOTAL ORGANIC CARBON	1.00	mg/L	**2.70**	**1.56**	0.917	<0.50	<1.65 |Uop	**1.12**	**1.89**	**3.55**	**3.23**	--

APP. .X B
GENERAL CHEMICALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-040	UCD2-040	UCD4-041	UCD4-041	UCD4-041	UCD4-041	UCD4-042	UCD4-042	UCD4-042	UCD4-042
		Sample ID	GWGW0962	GWGW0980	GWGW0810	GWGW0869	GWGW0927	GWGW0963	GWGW0811	GWGW0872	GWGW0873	GWGW0925
		Date	11/02/99	12/01/99	02/11/99	05/12/99	08/04/99	11/02/99	02/04/99	05/12/99	05/12/99	08/10/99
		QA	DUPLICATE								DUPLICATE	
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	**320**	**310**	**328**	--	**341**	**312**	**316**	**337**
CHLORIDES	1	mg/L	--	--	**21.2**	**18.0**	**17.0**	--	**22.0**	**18.6**	**18.4**	**17.1**
NITROGEN, NITRATE	0.1	mg/L	**6.72**	**6.81**	**3.64**	**2.24**	**2.05**	**2.16**	**5.02**	**3.02**	**3.06**	**2.50**
PHOSPHORUS AS PO4	1	mg/L	--	--	<0.07 |Uo	<0.05	<0.05	--	<0.08 |Uop	0.02 J|	0.02 J|	0.06
SULFATE AS SO4	1	mg/L	--	--	**37.4**	**32.3**	**30.1**	--	**39.0**	**35.4**	**35.5**	**31.3**
TOTAL DISSOLVED SOLIDS	20	mg/L	**495**	**493**	**434**	**410**	**405**	**401**	**477**	**420**	**442**	**482**
TOTAL ORGANIC CARBON	1.00	mg/L	--	**2.57**	**2.45**	0.603	**3.61**	--	**3.47**	**1.73** |Jf	0.251 J|Jf	**1.49**

APPENDIX B
GENERAL CHEMICALS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD4-042	UCD4-043	UCD4-043	UCD4-043	UCD4-043	UCD4-043	UCD4-044	UCD4-044	UCD4-044	UCD4-044
		Sample ID	GWGW0972	GWGW0812	GWGW0813	GWGW0874	GWGW0926	GWGW0973	GWGW0877	GWGW0928	GWGW0923	GWGW0956
		Date	11/04/99	02/04/99	02/04/99	05/12/99	08/10/99	11/04/99	05/10/99	08/04/99	08/04/99	11/01/99
		QA			DUPLICATE						DUPLICATE	
Analyte	CRDL	Units										
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	**342**	**344**	**351**	**374**	--	**283**	**320**	**322**	**320** |Jm
CHLORIDES	1	mg/L	--	**21.9**	**21.6**	**20.8**	**19.0**	--	**17.4**	**16.3**	**16.2**	**17.7**
NITROGEN, NITRATE	0.1	mg/L	**2.51**	**5.14**	**5.16**	**4.61**	**3.71**	**2.37**	**1.67**	**1.76**	**1.72**	**1.99**
PHOSPHORUS AS PO4	1	mg/L	--	<0.08 |Uop	<0.09 |Uop	<0.05	0.04 J|	--	0.03 J|	<0.05	<0.05	<0.0800 |UJmo
SULFATE AS SO4	1	mg/L	--	**38.1**	**38.1**	**37.2**	**34.4**	--	**33.3**	**29.5**	**29.8**	**32.1**
TOTAL DISSOLVED SOLIDS	20	mg/L	**421**	**481**	**480**	**475**	**510**	**418**	**390**	**394**	**412**	**387**
TOTAL ORGANIC CARBON	1.00	mg/L	--	**2.26**	**2.16**	**3.53**	**3.76**	--	**2.81**	**2.68**	**2.08**	0.333 J|

APPL X B
PESTICIDES/PCBS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD1-004	UCD1-004	UCD1-004	UCD1-004	UCD1-010	UCD1-011	UCD1-012	UCD1-012	UCD1-012	UCD1-012
		Sample ID	GWGW0800	GWGW0848	GWGW0849	GWGW0912	GWGW0861	GWGW0866	GWGW0807	GWGW0808	GWGW0862	GWGW0913
		Date	02/10/99	05/05/99	05/05/99	08/09/99	05/11/99	05/05/99	02/10/99	02/10/99	05/11/99	08/05/99
		QA			DUPLICATE					DUPLICATE		
Analyte	CRDL	Units										
4,4'-DDD	0.02	ug/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 |UJs
4,4'-DDE	0.02	ug/L	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02	<0.02 |UJQ	<0.02 |UJs
4,4'-DDT	0.02	ug/L	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02	<0.02 |UJQ	<0.02 |UJs
ALDRIN	0.01	ug/L	<0.01	<0.01	<0.01	<0.0099	<0.01	<0.01	<0.0099	<0.0099	<0.01	<0.0099 |UJs
ALPHA-BHC	0.01	ug/L	<0.01	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.0099	<0.01 |UJQ	<0.0099 |UJs
ALPHA-CHLORDANE	0.01	ug/L	<0.01	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.01	<0.01	<0.0099	<0.0099	<0.01 |UJQ	<0.0099 |UJs
AROCLOR-1016	0.2	ug/L	<0.051	<0.062 |UJQ	<0.062 |UJQ	<0.062 |UJQ	<0.062	<0.062 |UJQ	<0.05	<0.05	<0.062	<0.062 |UJQs
AROCLOR-1221	0.4	ug/L	<0.051	<0.062	<0.062	<0.062	<0.062	<0.062	<0.05	<0.05	<0.062	<0.062 |UJs
AROCLOR-1232	0.2	ug/L	<0.051	<0.062	<0.062	<0.062	<0.062	<0.062	<0.05	<0.05	<0.062	<0.062 |UJs
AROCLOR-1242	0.2	ug/L	<0.051	<0.062	<0.062	<0.062	<0.062	<0.062	<0.05	<0.05	<0.062	<0.062 |UJs
AROCLOR-1248	0.2	ug/L	<0.051	<0.062	<0.062	<0.062	<0.062	<0.062	<0.05	<0.05	<0.062	<0.062 |UJs
AROCLOR-1254	0.2	ug/L	<0.051	<0.062	<0.062	<0.062	<0.062	<0.062	<0.05	<0.05	<0.062	<0.062 |UJs
AROCLOR-1260	0.2	ug/L	<0.051	<0.062 |UJQ	<0.062 |UJQ	<0.062 |UJQ	<0.062	<0.062 |UJQ	<0.05	<0.05	<0.062	<0.062 |UJQs
BETA-BHC	0.01	ug/L	<0.01	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.0099	<0.01 |UJQ	<0.0099 |UJs
DELTA-BHC	0.01	ug/L	<0.01	<0.01	<0.01	<0.0099	<0.01	<0.01 |UJQ	<0.0099	<0.0099	<0.01	<0.0099 |UJs
DIELDRIN	0.02	ug/L	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02	<0.02 |UJQ	<0.02 |UJs
ENDOSULFAN I	0.01	ug/L	<0.01	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.0099	<0.01 |UJQ	<0.0099 |UJs
ENDOSULFAN II	0.02	ug/L	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02	<0.02 |UJQ	<0.02 |UJs
ENDOSULFAN SULFATE	0.02	ug/L	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02	<0.02 |UJQ	<0.02 |UJs
ENDRIN	0.02	ug/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 |UJQ	<0.02	<0.02	<0.02	<0.02 |UJs
ENDRIN ALDEHYDE	0.02	ug/L	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02 |UJQ	<0.02 |UJQ	0.00075 J|	<0.02	<0.02 |UJQ	<0.02 |UJs
ENDRIN KETONE	0.02	ug/L	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02 |UJQ	<0.02 |UJQ	<0.02	<0.02	<0.02 |UJQ	<0.02 |UJs
GAMMA-BHC	0.01	ug/L	<0.01	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.0099	<0.01 |UJQ	<0.0099 |UJs
GAMMA-CHLORDANE	0.01	ug/L	<0.01	<0.01	<0.01	<0.0099	<0.01	<0.01	<0.0099	<0.0099	<0.01	<0.0099 |UJs
HEPTACHLOR	0.01	ug/L	<0.01	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.01 |UJQ	<0.01 |UJQc	<0.0099	<0.0099	<0.01 |UJQ	<0.0099 |UJs
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.01	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.01 |UJQ	<0.01 |UJQ	<0.0099	<0.0099	<0.01 |UJQ	<0.0099 |UJs
METHOXYCHLOR	0.1	ug/L	<0.1	<0.1 |UJQ	<0.1 |UJQ	<0.099	<0.1 |UJQ	<0.1 |UJQ	<0.099	<0.099	<0.1 |UJQ	<0.099 |UJs
TOXAPHENE	1.0	ug/L	<0.51	<0.5	<0.5	<0.5 |UJQ	<0.5 |UJQ	<0.5	<0.5	<0.5	<0.5 |UJQ	<0.5 |UJQs

APPENDIX B
PESTICIDES/PCBS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD1-013		UCD1-013		UCD1-013		UCD1-018		UCD1-019		UCD1-020		UCD1-024		UCD1-025		UCD1-028		UCD1-028	
		Sample ID	GWGW0801		GWGW0854		GWGW0914		GWGW0867		GWGW0863		GWGW0864		GWGW0865		GWGW0836		GWGW0784		GWGW0837	
		Date	02/02/99		05/06/99		08/09/99		05/10/99		05/11/99		05/11/99		05/11/99		05/03/99		02/11/99		05/03/99	
		QA																				
Analyte	CRDL	Units																				
4,4'-DDD	0.02	ug/L	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02	
4,4'-DDE	0.02	ug/L	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02		<0.02		<0.02	
4,4'-DDT	0.02	ug/L	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02		<0.02		<0.02	
ALDRIN	0.01	ug/L	<0.0099		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.0098		<0.01	
ALPHA-BHC	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.0098		<0.01	
ALPHA-CHLORDANE	0.01	ug/L	<0.0099		0.0048	J|	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.0098		<0.01	
AROCLOR-1016	0.2	ug/L	<0.062		<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.062		<0.062		<0.062		<0.062		<0.049		<0.062	
AROCLOR-1221	0.4	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062	
AROCLOR-1232	0.2	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062	
AROCLOR-1242	0.2	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062	
AROCLOR-1248	0.2	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062	
AROCLOR-1254	0.2	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062	
AROCLOR-1260	0.2	ug/L	<0.062	|UJc	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.062		<0.062		<0.062		<0.062	|UJQ	<0.049		<0.062	|UJQ
BETA-BHC	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.0098		<0.01	
DELTA-BHC	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01		<0.01		<0.01	|UJQ	<0.0098		<0.01	|UJQ
DIELDRIN	0.02	ug/L	0.0069	J|	<0.02	|UJQ	0.0065	J|	<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02		<0.02		<0.02	
ENDOSULFAN I	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.0098		<0.01	
ENDOSULFAN II	0.02	ug/L	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02		<0.02		<0.02	
ENDOSULFAN SULFATE	0.02	ug/L	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02		<0.02		<0.02	
ENDRIN	0.02	ug/L	<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	|UJc	<0.02		<0.02	|UJc
ENDRIN ALDEHYDE	0.02	ug/L	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02		<0.02		<0.02	
ENDRIN KETONE	0.02	ug/L	<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02		<0.02		<0.02	
GAMMA-BHC	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.0098		<0.01	
GAMMA-CHLORDANE	0.01	ug/L	<0.0099		0.0067	J|	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.0098		<0.01	
HEPTACHLOR	0.01	ug/L	<0.0099	|UJc	<0.01	|UJQc	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.0098		<0.01	
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.0098		<0.01	
METHOXYCHLOR	0.1	ug/L	<0.099		<0.1	|UJQ	<0.1		<0.1	|UJQ	<0.1	|UJQ	<0.1	|UJQ	<0.1	|UJQ	<0.1		<0.098		<0.1	
TOXAPHENE	1.0	ug/L	<0.5	|UJc	<0.5		<0.5	|UJQ	<0.5		<0.5	|UJQ	<0.5	|UJQ	<0.5	|UJQ	<0.5		<0.49		<0.5	

APP. X B
PESTICIDES/PCBS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD1-028		UCD1-034		UCD2-007		UCD2-014		UCD2-014		UCD2-014		UCD2-014		UCD2-015		UCD2-015		UCD2-015	
		Sample ID	GWGW0901		GWGW0842		GWGW0855		GWGW0804		GWGW0856		GWGW0857		GWGW0916		GWGW0805		GWGW0850		GWGW0917	
		Date	08/02/99		05/04/99		05/06/99		02/02/99		05/06/99		05/06/99		08/09/99		02/10/99		05/05/99		08/09/99	
		QA											DUPLICATE									
Analyte	CRDL	Units																				
4,4'-DDD	0.02	ug/L	<0.02		<0.02	UJQ	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02	
4,4'-DDE	0.02	ug/L	<0.02		<0.02		<0.02	UJQ	<0.02		<0.02	UJQ	<0.02	UJQ	<0.02		<0.02		<0.02	UJQ	<0.02	
4,4'-DDT	0.02	ug/L	<0.02	UJQ	<0.02	UJc	<0.02	UJQ	<0.02		<0.02	UJQ	<0.02	UJQ	<0.02		<0.02		<0.02	UJQ	<0.02	
ALDRIN	0.01	ug/L	<0.01		<0.0099	UJc	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.0098		<0.01		<0.01	
ALPHA-BHC	0.01	ug/L	<0.01		<0.0099	UJQ	<0.01	UJQ	<0.01		<0.01	UJQ	<0.01	UJQ	<0.0099		<0.0098		<0.01	UJQ	<0.01	
ALPHA-CHLORDANE	0.01	ug/L	<0.01		<0.0099	UJQ	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.0098		<0.01	UJQ	<0.01	
AROCLOR-1016	0.2	ug/L	<0.062	UJQ	<0.062		<0.062	UJQ	<0.062		<0.062	UJQ	<0.062	UJQ	<0.062	UJQ	<0.049		<0.062	UJQ	<0.063	UJQ
AROCLOR-1221	0.4	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062		<0.063	
AROCLOR-1232	0.2	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062		<0.063	
AROCLOR-1242	0.2	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062		<0.063	
AROCLOR-1248	0.2	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062		<0.063	
AROCLOR-1254	0.2	ug/L	<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.049		<0.062		<0.063	
AROCLOR-1260	0.2	ug/L	<0.062	UJQ	<0.062	UJQ	<0.062	UJQ	<0.062	UJc	<0.062	UJQ	<0.062	UJQ	<0.062	UJQ	<0.049		<0.062	UJQ	<0.063	UJQ
BETA-BHC	0.01	ug/L	<0.01		<0.0099	UJQ	<0.01	UJQ	<0.01		<0.01	UJQ	<0.01	UJQ	<0.0099		<0.0098		<0.01	UJQ	<0.01	
DELTA-BHC	0.01	ug/L	<0.01	UJQ	<0.0099	UJQc	<0.01	UJQ	<0.01		<0.01	UJQ	<0.01	UJQ	<0.0099		<0.0098		<0.01		<0.01	
DIELDRIN	0.02	ug/L	<0.02		<0.02		<0.02	UJQ	<0.02		<0.02	UJQ	<0.02	UJQ	<0.02		<0.02		<0.02	UJQ	<0.02	
ENDOSULFAN I	0.01	ug/L	<0.01		<0.0099		<0.01	UJQ	<0.01		<0.01	UJQ	<0.01	UJQ	<0.0099		<0.0098		<0.01	UJQ	<0.01	
ENDOSULFAN II	0.02	ug/L	<0.02		<0.02		<0.02	UJQ	<0.02		<0.02	UJQ	<0.02	UJQ	<0.02		<0.02		<0.02	UJQ	<0.02	
ENDOSULFAN SULFATE	0.02	ug/L	<0.02		<0.02		<0.02	UJQ	<0.02		<0.02	UJQ	<0.02	UJQ	<0.02		<0.02		<0.02	UJQ	<0.02	
ENDRIN	0.02	ug/L	<0.02	UJc	<0.02	UJc	<0.02	UJQ	<0.02	UJc	<0.02	UJQ	<0.02	UJQ	<0.02		<0.02		<0.02		<0.02	
ENDRIN ALDEHYDE	0.02	ug/L	<0.02		<0.02		<0.02	UJQ	<0.02		<0.02	UJQ	<0.02	UJQ	<0.02		<0.02		<0.02	UJQ	<0.02	
ENDRIN KETONE	0.02	ug/L	<0.02		<0.02		<0.02	UJQ	<0.02	UJc	<0.02	UJQ	<0.02	UJQ	<0.02		<0.02		<0.02	UJQ	<0.02	
GAMMA-BHC	0.01	ug/L	<0.01		<0.0099		<0.01	UJQ	<0.01		<0.01	UJQ	<0.01	UJQ	<0.0099		<0.0098		<0.01	UJQ	<0.01	
GAMMA-CHLORDANE	0.01	ug/L	<0.01		<0.0099	UJQ	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.0098		<0.01		<0.01	
HEPTACHLOR	0.01	ug/L	<0.01	UJQ	<0.0099		<0.01	UJQc	<0.01	UJc	<0.01	UJQc	<0.01	UJQc	<0.0099		<0.0098		<0.01	UJQ	<0.01	
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.01		<0.0099		<0.01	UJQ	<0.01		<0.01	UJQ	<0.01	UJQ	<0.0099		<0.0098		<0.01	UJQ	<0.01	
METHOXYCHLOR	0.1	ug/L	<0.01		<0.099		<0.1	UJQ	<0.1		<0.1	UJQ	<0.1	UJQ	<0.099		<0.098		<0.1	UJQ	<0.1	
TOXAPHENE	1.0	ug/L	<0.5	UJQ	<0.5		<0.5		<0.5	UJc	<0.5		<0.5		<0.5	UJQ	<0.49		<0.5		<0.5	UJQ

APPENDIX B
PESTICIDES/PCBS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-017		UCD2-026		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-030		UCD2-030		UCD2-030		UCD2-031
		Sample ID	GWGW0851		GWGW0838		GWGW0785		GWGW0786		GWGW0839		GWGW0904		GWGW0787		GWGW0840		GWGW0902		GWGW0788
		Date	05/05/99		05/03/99		02/03/99		02/03/99		05/03/99		08/02/99		02/11/99		05/03/99		08/02/99		02/11/99
		QA							DUPLICATE												
Analyte	CRDL	Units																			
4,4'-DDD	0.02	ug/L	<0.02		<0.02	|UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02
4,4'-DDE	0.02	ug/L	<0.02	|UJQ	<0.02	|UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02
4,4'-DDT	0.02	ug/L	<0.02	|UJQ	<0.02	|UJs	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02	|UJQ	<0.02
ALDRIN	0.01	ug/L	<0.01		<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.01		<0.01		<0.01
ALPHA-BHC	0.01	ug/L	<0.01	|UJQ	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.01		<0.01		<0.01
ALPHA-CHLORDANE	0.01	ug/L	<0.01	|UJQ	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.01		<0.01		<0.01
AROCLOR-1016	0.2	ug/L	<0.062	|UJQ	<0.062	|UJs	<0.05		<0.05		<0.062		<0.062	|UJQ	<0.05		<0.063		<0.062	|UJQ	<0.05
AROCLOR-1221	0.4	ug/L	<0.062		<0.062	|UJs	<0.05		<0.05		<0.062		<0.062		<0.05		<0.063		<0.062		<0.05
AROCLOR-1232	0.2	ug/L	<0.062		<0.062	|UJs	<0.05		<0.05		<0.062		<0.062		<0.05		<0.063		<0.062		<0.05
AROCLOR-1242	0.2	ug/L	<0.062		<0.062	|UJs	<0.05		<0.05		<0.062		<0.062		<0.05		<0.063		<0.062		<0.05
AROCLOR-1248	0.2	ug/L	<0.062		<0.062	|UJs	<0.05		<0.05		<0.062		<0.062		<0.05		<0.063		<0.062		<0.05
AROCLOR-1254	0.2	ug/L	<0.062		<0.062	|UJs	<0.05		<0.05		<0.062		<0.062		<0.05		<0.063		<0.062		<0.05
AROCLOR-1260	0.2	ug/L	<0.062	|UJQ	<0.062	|UJQs	<0.05	|UJc	<0.05	|UJc	<0.062	|UJQ	<0.062	|UJQ	<0.05		<0.063	|UJQ	<0.062	|UJQ	<0.05
BETA-BHC	0.01	ug/L	<0.01	|UJQ	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.01		<0.01		<0.01
DELTA-BHC	0.01	ug/L	<0.01		<0.01	|UJQs	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.0099		<0.01	|UJQ	<0.01	|UJQ	<0.01
DIELDRIN	0.02	ug/L	<0.02	|UJQ	<0.02	|UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02
ENDOSULFAN I	0.01	ug/L	<0.01	|UJQ	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.01		<0.01		<0.01
ENDOSULFAN II	0.02	ug/L	<0.02	|UJQ	<0.02	|UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02
ENDOSULFAN SULFATE	0.02	ug/L	<0.02	|UJQ	<0.02	|UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02
ENDRIN	0.02	ug/L	<0.02		<0.02	|UJcs	<0.02	|UJc	<0.02	|UJc	<0.02	|UJc	<0.02	|UJc	<0.02		<0.02	|UJc	<0.02	|UJc	<0.02
ENDRIN ALDEHYDE	0.02	ug/L	<0.02	|UJQ	<0.02	|UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02
ENDRIN KETONE	0.02	ug/L	<0.02	|UJQ	<0.02	|UJs	<0.02	|UJc	<0.02	|UJc	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02
GAMMA-BHC	0.01	ug/L	<0.01	|UJQ	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.01		<0.01		<0.01
GAMMA-CHLORDANE	0.01	ug/L	<0.01		<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.01		<0.01		<0.01
HEPTACHLOR	0.01	ug/L	<0.01	|UJQ	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01	|UJQ	<0.0099		<0.01		<0.01	|UJQ	<0.01
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.01	|UJQ	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.01		<0.01		<0.01
METHOXYCHLOR	0.1	ug/L	<0.1	|UJQ	<0.1	|UJs	<0.1		<0.1		<0.1		<0.1		<0.099		<0.1		<0.1		<0.1
TOXAPHENE	1.0	ug/L	<0.5		<0.5	|UJs	<0.5	|UJc	<0.51	|UJc	<0.5		<0.5	|UJQ	<0.5		<0.5		<0.5	|UJQ	<0.5

APP. X B
PESTICIDES/PCBS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-031		UCD2-031		UCD2-032		UCD2-032		UCD2-032		UCD2-035		UCD2-036		UCD2-036		UCD2-036		UCD2-036	
		Sample ID	GWGW0841		GWGW0903		GWGW0790		GWGW0859		GWGW0924		GWGW0843		GWGW0793		GWGW0852		GWGW0909		GWGW0910	
		Date	05/03/99		08/02/99		02/04/99		05/06/99		08/09/99		05/04/99		02/01/99		05/05/99		08/03/99		08/03/99	
		QA																			DUPLICATE	
Analyte	CRDL	Units																				
4,4'-DDD	0.02	ug/L	<0.02	|UJs	<0.02		<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	|UJQ
4,4'-DDE	0.02	ug/L	<0.02	|UJs	<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02	
4,4'-DDT	0.02	ug/L	<0.02	|UJs	<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJc	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ
ALDRIN	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099	|UJc	<0.01		<0.01		<0.01		<0.01	
ALPHA-BHC	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01	|UJQ	<0.01		<0.0099	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01	
ALPHA-CHLORDANE	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01	
AROCLOR-1016	0.2	ug/L	<0.062	|UJs	<0.062	|UJQ	<0.05		<0.062	|UJQ	<0.062	|UJQ	<0.062		<0.062		<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ
AROCLOR-1221	0.4	ug/L	<0.062	|UJs	<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1232	0.2	ug/L	<0.062	|UJs	<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1242	0.2	ug/L	<0.062	|UJs	<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1248	0.2	ug/L	<0.062	|UJs	<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1254	0.2	ug/L	<0.062	|UJs	<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1260	0.2	ug/L	<0.062	|UJQs	<0.062	|UJQ	<0.05	|UJc	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJc	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ
BETA-BHC	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01	|UJQ	<0.01		<0.0099	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01	
DELTA-BHC	0.01	ug/L	<0.01	|UJQs	<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.0099	|UJQc	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ
DIELDRIN	0.02	ug/L	<0.02	|UJs	<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02	
ENDOSULFAN I	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01	|UJQ	<0.01		<0.0099		<0.01		<0.01	|UJQ	<0.01		<0.01	
ENDOSULFAN II	0.02	ug/L	<0.02	|UJs	<0.02		<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02	
ENDOSULFAN SULFATE	0.02	ug/L	<0.02	|UJs	<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02	
ENDRIN	0.02	ug/L	<0.02	|UJcs	<0.02	|UJc	<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02	|UJc	<0.02	|UJc	<0.02		<0.02	|UJc	<0.02	
ENDRIN ALDEHYDE	0.02	ug/L	<0.02	|UJs	<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02	
ENDRIN KETONE	0.02	ug/L	<0.02	|UJs	<0.02		<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02		<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02	
GAMMA-BHC	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01	|UJQ	<0.01		<0.0099		<0.01		<0.01	|UJQ	<0.01		<0.01	
GAMMA-CHLORDANE	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.0099	|UJQ	<0.01		<0.01		<0.01		<0.01	
HEPTACHLOR	0.01	ug/L	<0.01	|UJs	<0.01	|UJQ	<0.01		<0.01	|UJQc	<0.01		<0.0099		<0.01	|UJc	<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01	|UJQ	<0.01		<0.0099		<0.01		<0.01	|UJQ	<0.01		<0.01	
METHOXYCHLOR	0.1	ug/L	<0.1	|UJs	<0.1	|UJQ	<0.1		<0.1	|UJQ	<0.1		<0.099		<0.1		<0.1	|UJQ	<0.1		<0.1	|UJQ
TOXAPHENE	1.0	ug/L	<0.5	|UJs	<0.5	|UJQ	<0.5	|UJc	<0.5		<0.5	|UJQ	<0.5		<0.5	|UJc	<0.5		<0.5	|UJQ	<0.5	|UJQ

APPENDIX B
PESTICIDES/PCBS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-038		UCD2-038		UCD2-038		UCD2-039		UCD2-039		UCD2-039	
		Sample ID	GWGW0799		GWGW0844		GWGW0845		GWGW0911		GWGW0792		GWGW0846		GWGW0921		GWGW0794		GWGW0853		GWGW0922	
		Date	02/01/99		05/04/99		05/04/99		08/03/99		02/03/99		05/04/99		08/05/99		02/02/99		05/05/99		08/05/99	
		QA					DUPLICATE															
Analyte	CRDL	Units																				
4,4'-DDD	0.02	ug/L	<0.02		<0.02	UJQs	<0.02	UJQ	<0.02	UJQ	<0.02		<0.02	UJQ	<0.02		<0.02		<0.02		<0.02	
4,4'-DDE	0.02	ug/L	<0.02		<0.02	UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02	UJQ	<0.02	
4,4'-DDT	0.02	ug/L	<0.02		<0.02	UJcs	<0.02	UJc	<0.02	UJQ	<0.02		<0.02	UJc	<0.02		<0.02		<0.02	UJQ	<0.02	
ALDRIN	0.01	ug/L	<0.0099		<0.01	UJcs	<0.01	UJc	<0.01		<0.01		<0.01	UJc	<0.0099		<0.0099		<0.01		<0.0099	
ALPHA-BHC	0.01	ug/L	<0.0099		<0.01	UJQs	<0.01	UJQ	<0.01		<0.01		<0.01	UJQ	<0.0099		<0.0099		<0.01	UJQ	<0.0099	
ALPHA-CHLORDANE	0.01	ug/L	<0.0099		<0.01	UJQs	<0.01	UJQ	<0.01		<0.01		<0.01	UJQ	<0.0099		<0.0099		<0.01	UJQ	<0.0099	
AROCLOR-1016	0.2	ug/L	<0.062		<0.062	UJs	<0.062		<0.062	UJQ	<0.05		<0.062		<0.062	UJQ	<0.062		<0.062	UJQ	<0.062	UJQ
AROCLOR-1221	0.4	ug/L	<0.062		<0.062	UJs	<0.062		<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1232	0.2	ug/L	<0.062		<0.062	UJs	<0.062		<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1242	0.2	ug/L	<0.062		<0.062	UJs	<0.062		<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1248	0.2	ug/L	<0.062		<0.062	UJs	<0.062		<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1254	0.2	ug/L	<0.062		<0.062	UJs	<0.062		<0.062		<0.05		<0.062		<0.062		<0.062		<0.062		<0.062	
AROCLOR-1260	0.2	ug/L	<0.062	UJc	<0.062	UJQs	<0.062	UJQ	<0.062	UJQ	<0.05	UJc	<0.062	UJQ	<0.062	UJQ	<0.062	UJc	<0.062	UJQ	<0.062	UJQ
BETA-BHC	0.01	ug/L	<0.0099		<0.01	UJQs	<0.01	UJQ	<0.01		<0.01		<0.01	UJQ	<0.0099		<0.0099		<0.01	UJQ	<0.0099	
DELTA-BHC	0.01	ug/L	<0.0099		<0.01	UJQs	<0.01	UJQc	<0.01	UJQ	<0.01		<0.01	UJQc	<0.0099		<0.0099		<0.01		<0.0099	
DIELDRIN	0.02	ug/L	<0.02		<0.02	UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02	UJQ	<0.02	
ENDOSULFAN I	0.01	ug/L	<0.0099		<0.01	UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.0099		<0.01	UJQ	<0.0099	
ENDOSULFAN II	0.02	ug/L	<0.02		<0.02	UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02	UJQ	<0.02	
ENDOSULFAN SULFATE	0.02	ug/L	<0.02		<0.02	UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02	UJQ	<0.02	
ENDRIN	0.02	ug/L	<0.02	UJc	<0.02	UJcs	<0.02	UJc	<0.02		<0.02	UJc	<0.02	UJc	<0.02		<0.02	UJc	<0.02		<0.02	
ENDRIN ALDEHYDE	0.02	ug/L	<0.02		<0.02	UJs	<0.02		<0.02		<0.02		<0.02		<0.02		<0.02		<0.02	UJQ	<0.02	
ENDRIN KETONE	0.02	ug/L	<0.02	UJc	<0.02	UJs	<0.02		<0.02		<0.02	UJc	<0.02		<0.02		<0.02	UJc	<0.02	UJQ	<0.02	
GAMMA-BHC	0.01	ug/L	<0.0099		<0.01	UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.0099		<0.01	UJQ	<0.0099	
GAMMA-CHLORDANE	0.01	ug/L	<0.0099		<0.01	UJQs	<0.01	UJQ	<0.01		<0.01		<0.01	UJQ	<0.0099		<0.0099		<0.01		<0.0099	
HEPTACHLOR	0.01	ug/L	<0.0099	UJc	<0.01	UJs	<0.01		<0.01	UJQ	<0.01		<0.01		<0.0099		<0.0099	UJc	<0.01	UJQ	<0.0099	
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.0099		<0.01	UJs	<0.01		<0.01		<0.01		<0.01		<0.0099		<0.0099		<0.01	UJQ	<0.0099	
METHOXYCHLOR	0.1	ug/L	<0.099		<0.1	UJs	<0.1		<0.1	UJQ	<0.1		<0.1		<0.099		<0.099		<0.1	UJQ	<0.099	
TOXAPHENE	1.0	ug/L	<0.5	UJc	<0.5	UJs	<0.5		<0.5	UJQ	<0.5	UJc	<0.5		<0.5	UJQ	<0.5	UJc	<0.5		<0.5	UJQ

APF IX B
PESTICIDES/PCBS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-040		UCD2-040		UCD2-040		UCD4-041		UCD4-041		UCD4-041		UCD4-042		UCD4-042		UCD4-042		UCD4-042	
		Sample ID	GWGW0789		GWGW0847		GWGW0905		GWGW0810		GWGW0869		GWGW0927		GWGW0811		GWGW0872		GWGW0873		GWGW0925	
		Date	02/04/99		05/04/99		08/02/99		02/11/99		05/12/99		08/04/99		02/04/99		05/12/99		05/12/99		08/10/99	
		QA																	DUPLICATE			
Analyte	CRDL	Units																				
4,4'-DDD	0.02	ug/L	<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02		<0.02	
4,4'-DDE	0.02	ug/L	<0.02		<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	
4,4'-DDT	0.02	ug/L	<0.02		<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	
ALDRIN	0.01	ug/L	<0.0099		<0.01	|UJc	<0.01		<0.0099		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
ALPHA-BHC	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.0099		<0.01	|UJQ	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	
ALPHA-CHLORDANE	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.0099		<0.01	|UJQ	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	
AROCLOR-1016	0.2	ug/L	<0.05		<0.062		<0.062	|UJQ	<0.05		<0.062	|UJQ	<0.062	|UJQ	<0.05		<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ
AROCLOR-1221	0.4	ug/L	<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.062	
AROCLOR-1232	0.2	ug/L	<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.062	
AROCLOR-1242	0.2	ug/L	<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.062	
AROCLOR-1248	0.2	ug/L	<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.062	
AROCLOR-1254	0.2	ug/L	<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.05		<0.062		<0.062		<0.062	
AROCLOR-1260	0.2	ug/L	<0.05	|UJc	<0.062	|UJQ	<0.062	|UJQ	<0.05		<0.062	|UJQ	<0.062	|UJQ	<0.05	|UJc	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ
BETA-BHC	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.0099		<0.01	|UJQ	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	
DELTA-BHC	0.01	ug/L	<0.0099		<0.01	|UJQc	<0.01	|UJQ	<0.0099		<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	
DIELDRIN	0.02	ug/L	<0.02		<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	
ENDOSULFAN I	0.01	ug/L	<0.0099		<0.01		<0.01		<0.0099		<0.01	|UJQ	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	
ENDOSULFAN II	0.02	ug/L	<0.02	|UJc	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	
ENDOSULFAN SULFATE	0.02	ug/L	<0.02		<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	
ENDRIN	0.02	ug/L	<0.02	|UJc	<0.02	|UJc	<0.02	|UJc	<0.02		<0.02		<0.02		<0.02	|UJc	<0.02		<0.02		<0.02	
ENDRIN ALDEHYDE	0.02	ug/L	<0.02		<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	
ENDRIN KETONE	0.02	ug/L	<0.02	|UJc	<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02	|UJc	<0.02	|UJQ	<0.02	|UJQ	<0.02	
GAMMA-BHC	0.01	ug/L	<0.0099		<0.01		<0.01		<0.0099		<0.01	|UJQ	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	
GAMMA-CHLORDANE	0.01	ug/L	<0.0099		<0.01	|UJQ	<0.01		<0.0099		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	
HEPTACHLOR	0.01	ug/L	<0.0099		<0.01		<0.01	|UJQ	<0.0099		<0.01	|UJQ	<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.0099		<0.01		<0.01		<0.0099		<0.01	|UJQ	<0.01		<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	
METHOXYCHLOR	0.1	ug/L	<0.099		<0.1		<0.1		<0.099		<0.1	|UJQ	<0.1	|UJQ	<0.1		<0.1	|UJQ	<0.1	|UJQ	<0.1	
TOXAPHENE	1.0	ug/L	<0.5	|UJc	<0.5		<0.5	|UJQ	<0.5		<0.5	|UJQ	<0.5	|UJQ	<0.5	|UJc	<0.5	|UJQ	<0.5	|UJQ	<0.5	|UJQ

APPENDIX B
PESTICIDES/PCBS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD4-043		UCD4-043		UCD4-043		UCD4-043		UCD4-044		UCD4-044		UCD4-044		UCD4-044
		Sample ID	GWGW0812		GWGW0813		GWGW0874		GWGW0926		GWGW0877		GWGW0928		GWGW0923		GWGW0956
		Date	02/04/99		02/04/99		05/12/99		08/10/99		05/10/99		08/04/99		08/04/99		11/01/99
		QA			DUPLICATE										DUPLICATE		
Analyte	CRDL	Units															
4,4'-DDD	0.02	ug/L	<0.02	|UJs	<0.02		<0.02		<0.02		<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02
4,4'-DDE	0.02	ug/L	<0.02	|UJs	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02
4,4'-DDT	0.02	ug/L	<0.02	|UJs	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02	|UJQ	<0.02	|UJQ	<0.02
ALDRIN	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01
ALPHA-BHC	0.01	ug/L	<0.01	|UJs	<0.01		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01		<0.01
ALPHA-CHLORDANE	0.01	ug/L	<0.01	|UJs	<0.01		<0.01	|UJQ	<0.01		<0.01		<0.01		<0.01		<0.01
AROCLOR-1016	0.2	ug/L	<0.05	|UJs	<0.05		<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.05
AROCLOR-1221	0.4	ug/L	<0.05	|UJs	<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.05
AROCLOR-1232	0.2	ug/L	<0.05	|UJs	<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.05
AROCLOR-1242	0.2	ug/L	<0.05	|UJs	<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.05
AROCLOR-1248	0.2	ug/L	<0.05	|UJs	<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.05
AROCLOR-1254	0.2	ug/L	<0.056	P|Ru	<0.05		<0.062		<0.062		<0.062		<0.062		<0.062		<0.05
AROCLOR-1260	0.2	ug/L	<0.05	|UJcs	<0.05	|UJc	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.062	|UJQ	<0.05
BETA-BHC	0.01	ug/L	<0.01	|UJs	<0.01		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01		<0.01
DELTA-BHC	0.01	ug/L	<0.01	|UJs	<0.01		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01
DIELDRIN	0.02	ug/L	<0.02	|UJs	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02
ENDOSULFAN I	0.01	ug/L	<0.01	|UJs	<0.01		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01		<0.01
ENDOSULFAN II	0.02	ug/L	<0.02	|UJs	<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02
ENDOSULFAN SULFATE	0.02	ug/L	<0.02	|UJs	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02
ENDRIN	0.02	ug/L	<0.02	|UJcs	<0.02	|UJc	<0.02		<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02
ENDRIN ALDEHYDE	0.02	ug/L	<0.02	|UJs	<0.02		<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02
ENDRIN KETONE	0.02	ug/L	<0.02	|UJcs	<0.02	|UJc	<0.02	|UJQ	<0.02		<0.02	|UJQ	<0.02		<0.02		<0.02
GAMMA-BHC	0.01	ug/L	<0.01	|UJs	<0.01		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01		<0.01
GAMMA-CHLORDANE	0.01	ug/L	<0.01	|UJs	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01
HEPTACHLOR	0.01	ug/L	<0.01	|UJs	<0.01		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01	|UJQ	<0.01	|UJQ	<0.01
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.01	|UJs	<0.01		<0.01	|UJQ	<0.01		<0.01	|UJQ	<0.01		<0.01		<0.01
METHOXYCHLOR	0.1	ug/L	<0.1	|UJs	<0.1		<0.1	|UJQ	<0.1		<0.1	|UJQ	<0.1	|UJQ	<0.1	|UJQ	<0.1
TOXAPHENE	1.0	ug/L	<0.5	|UJcs	<0.5	|UJc	<0.5	|UJQ	<0.5	|UJQ	<0.5		<0.5	|UJQ	<0.5	|UJQ	<0.5

APF ıX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD1-004		UCD1-004		UCD1-004		UCD1-004		UCD1-010		UCD1-010		UCD1-010		UCD1-011		UCD1-012	
		Sample ID	GWGW0800		GWGW0848		GWGW0849		GWGW0912		GWGW0806		GWGW0861		GWGW0906		GWGW0866		GWGW0807	
		Date	02/10/99		05/05/99		05/05/99		08/09/99		02/11/99		05/11/99		08/03/99		05/05/99		02/10/99	
		QA					DUPLICATE													
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	**2.5**	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	**9.3**	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	**16**	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	**3.7**	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	0.22	J|
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50	
2-BUTANONE	1.0	ug/L	<1.0	|UJm	<1.0	|UJmc	<1.0	|UJc	<1.0	|Rc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0	|UJmc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
ACETONE	5.0	ug/L	<5.0	|UJm	<5.0	|UJmc	<5.0	|UJc	<5.0		<5.0		<5.0	|Rc	<5.0		<5.0	|UJc	<5.0	
BENZENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	0.35	J|
BROMOFORM	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.18	J|Uy	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROFORM	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		**0.73**	|Jc	**4220**	DB|
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	0.068	J|
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.099	J|Uy	<0.50		0.055	J|	<0.50		<0.50	|UJc	<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0	|UJc	<1.2	B|Uz	<1.0		<1.0		<0.86	JB|Uz	<1.0	|UJc	<1.0	
STYRENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	0.19	J|
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	0.26	J|
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0	|UJh	<1.0	|UJh	<1.0	|UJch	<1.0	

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD1-012		UCD1-012		UCD1-012		UCD1-013		UCD1-013		UCD1-013		UCD1-018		UCD1-019		UCD1-020	
		Sample ID	GWGW0808		GWGW0862		GWGW0913		GWGW0801		GWGW0854		GWGW0914		GWGW0867		GWGW0863		GWGW0864	
		Date	02/10/99		05/11/99		08/05/99		02/02/99		05/06/99		08/09/99		05/10/99		05/11/99		05/11/99	
		QA	DUPLICATE																	
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	**3.8**		**2.2**		**5.5**		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	**9.7**		**12.3**		**20.2**		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	**15.4**		**11.3**		**20.1**		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|Rh	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh
1,2-DICHLOROETHANE	0.50	ug/L	**4.3**		**5.8**		**9.8**		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	0.22	J|	0.34	J|	0.43	J|	<0.50		0.23	J|Jh	0.25	J|	<0.50		<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|Rh	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|Rh	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|Rc	<1.0		<1.0	|UJh	<1.0	|Rc	<1.0		<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0		0.87	J|Jc	<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		**1.2**		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0		<5.0	|Rc	<5.0	|UJc	<5.0		<5.0	|Rc	<5.0		<5.0	|Rc	<5.0	|Rc	<5.0	
BENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|Rh	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	0.35	J|	0.47	J|	**0.65**		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		0.48	J|	<0.50		<0.50	|UJh	<0.55	|Uy	<0.50		0.17	J|	<0.50	
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0	|UJh	<1.0		<1.0		<1.0		<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|Rh	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	**4510**	DB|	**5340**	DE|Jd	**8170**	D|	<0.55	B|Uz	0.36	J|Jh	<0.37	J|Uy	<0.50		<0.50		<0.50	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	0.077	J|	<0.50		0.12	J|	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		0.16	J|	<0.50		<0.50	|UJh	<0.18	J|Uy	<0.50		0.058	J|	<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|Rh	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<1.0		<1.2	B|Uz	<0.92	J|Uy	<1.0	|UJh	<0.86	JB|Uz	<1.0		<1.0		<1.0	
STYRENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|Rh	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		0.36	J|	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|Rh	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	0.15	J|	0.17	J|	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	0.34	J|	0.20	J|	**0.50**		0.086	J|	0.087	J|Jh	0.061	J|	<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0	|UJh	<1.0		<1.0	|UJh	<1.0	|Rh	<1.0		<1.0		<1.0	|UJh	<1.0	|UJh

APP. .X B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD1-021		UCD1-023		UCD1-024		UCD1-025		UCD1-025		UCD1-025		UCD1-027Z3		UCD1-028		UCD1-028	
		Sample ID	GWGW0870		GWGW0868		GWGW0865		GWGW0795		GWGW0836		GWGW0918		GWGW0875		GWGW0776		GWGW0784	
		Date	05/10/99		05/06/99		05/11/99		02/04/99		05/03/99		08/05/99		05/10/99		01/05/99		02/11/99	
		QA																		
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.00		<1	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50		<0.50	|UJh	<0.50	|UJh	<0.5	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50		<0.50	|UJh	<0.50	|UJh	<0.5	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50		<0.50	|UJh	<0.50	|UJh	<0.5	
2-BUTANONE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.00		<1	
2-HEXANONE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.00		<1	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.00		<1	
ACETONE	5.0	ug/L	<5.0	|Rc	<5.0	|UJc	<5.0		<5.0		<5.0	|UJc	<5.0	|UJl	<5.0	|Rc	<5.00		<5	
BENZENE	0.50	ug/L	<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50		<0.50	|UJh	<0.50	|UJh	<0.5	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.00		<1	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
BROMOFORM	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	0.32	J|	<0.50		<0.50		<0.5	
BROMOMETHANE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.00		<1	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.00		<1	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
CHLOROBENZENE	0.50	ug/L	<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50		<0.50	|UJh	<0.50	|UJh	<0.5	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
CHLOROFORM	0.50	ug/L	**1.2**		<0.50	|UJc	<0.50		**1.7**	B|	**1.7**	B|Jc	**2.1**		<0.50		<0.32	JB|Uz	<1.4	B|Ua
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50	|UJl	<0.50		<0.50		<0.5	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	0.14	J|	<0.50		<0.50		<0.5	
ETHYLBENZENE	0.50	ug/L	<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50		<0.50	|UJh	<0.50	|UJh	<0.5	
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.4	|Uy	<1.0	|UJc	<1.2	B|Uz	<1.0		<1.00		<0.62	J|Uz
STYRENE	0.50	ug/L	<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50		<0.50	|UJh	<0.50	|UJh	<0.5	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	0.30	J|	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
TOLUENE	0.50	ug/L	<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJch	<0.50		<0.50	|UJh	<0.50	|UJh	<0.5	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.5	
XYLENES (TOTAL)	1.0	ug/L	<1.0	|UJh	<1.0	|UJc	<1.0	|UJh	<1.0	|UJh	<1.0	|UJch	<1.0		<1.0	|UJh	<1.00	|UJh	<1	

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD1-028		UCD1-028		UCD1-028		UCD1-028		UCD1-028		UCD1-028		UCD1-028		UCD1-028		UCD1-028	
		Sample ID	GWGW0817		GWGW0818		GWGW0825		GWGW0837		GWGW0886		GWGW0898		GWGW0901		GWGW0936		GWGW0940	
		Date	03/02/99		03/02/99		04/01/99		05/03/99		06/02/99		07/07/99		08/02/99		09/01/99		10/06/99	
		QA			DUPLICATE															
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|UJh
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|UJh
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|UJh
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|Rc	<1.0	|Rc	<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0		<5.0		<5.0	|Rc	<5.0	|UJc	<1.4	JB|Uz	<5.0		<5.0	|UJc	<5.0	|Rc	<5.0	
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.38	J|Uy	<0.50		<0.50		<0.50		0.18	J|
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0	|UJm	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|UJh
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	<0.27	J|Uy	<0.25	J|Uy	0.34	J|	<0.18	JB|UJcz	0.13	J|	<0.50		<0.12	J|Uy	0.17	J|	0.21	J|
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJl	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.11	J|Uy	<0.50		<0.50		<0.50		0.076	J|
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|UJh
METHYLENE CHLORIDE	1.0	ug/L	<1.0	|UJl	<1.0	|UJl	<1.0	|UJl	<1.0	|UJc	<1.0		<0.85	JB|Uz	<1.2	B|Uz	<1.1	B|Uz	<1.4	B|Uz
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50		<0.50	|UJh	<0.50	|UJh
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50		<0.50	|UJh	<1.0	|UJh
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJh	<1.0	|UJh	<1.0		<1.0	|UJh	<1.0	|UJh

APPL .X B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD1-028		UCD1-028		UCD1-034		UCD2-007		UCD2-007		UCD2-007		UCD2-007		UCD2-007		UCD2-014	
		Sample ID	GWGW0951		GWGW0974		GWGW0842		GWGW0802		GWGW0803		GWGW0855		GWGW0915		GWGW0964		GWGW0804	
		Date	11/01/99		12/01/99		05/04/99		02/01/99		02/01/99		05/06/99		08/03/99		11/03/99		02/02/99	
		QA									DUPLICATE									
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		0.14	J|
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0		<5.0		<5.0	|UJc	<5.0		<5.0		<5.0	|UJc	<5.0		<5.0		<5.0	
BENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0	|UJc	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	0.18	J|	<0.18	J|Uy	<0.50	|UJc	<0.15	JB|Uz	<0.15	JB|Uz	<0.50	|UJc	<0.22	J|Uy	<0.23	J|Uy	**1.8**	B|
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<0.34	J|Uy	<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.7	B|Uz	<1.0		<0.64	J|Uy
STYRENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50	|UJc	<0.50	|UJh	<0.50	|UJh	<0.50	|UJc	<0.50		<0.50		<0.50	|UJh
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0	|UJh	<1.0	|UJc	<1.0	|UJh	<1.0	|UJh	<1.0	|UJc	<1.0		<1.0		<1.0	|UJh

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-014		UCD2-014		UCD2-014		UCD2-014		UCD2-015		UCD2-015		UCD2-015		UCD2-015		UCD2-016	
		Sample ID	GWGW0856		GWGW0857		GWGW0916		GWGW0965		GWGW0805		GWGW0850		GWGW0917		GWGW0966		GWGW0797	
		Date	05/06/99		05/06/99		08/09/99		11/03/99		02/10/99		05/05/99		08/09/99		11/03/99		02/02/99	
		QA			DUPLICATE															
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJch	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	0.24	J|Jc	0.22	J|Jc	0.26	J|	0.23	J|	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJch	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJch	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0	|Rc	<1.0		<1.0		<1.0	|UJc	<1.0	|Rc	<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJm	<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0	|UJc	<5.0	|UJc	<5.0		<5.0		<5.0		<5.0	|UJc	<5.0	|UJm	<5.0		<5.0	
BENZENE	0.50	ug/L	0.15	J|Jch	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50	|UJch	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	0.44	J|Jc	0.43	J|Jc	<0.49	J|Uy	<0.62	|Uy	<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJm	<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50	|UJch	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.0	|UJc	<1.0	|UJc	<0.96	JB|Uz	<1.0		<1.0		<1.0	|UJc	<1.0	B|Uz	<1.0		<1.0	
STYRENE	0.50	ug/L	<0.50	|UJch	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50	|UJch	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50	|UJc	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0	|UJch	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	

APF IX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-016		UCD2-016		UCD2-016	UCD2-017		UCD2-017		UCD2-017		UCD2-017	UCD2-026		UCD2-026	
		Sample ID	GWGW0858		GWGW0907		GWGW0967	GWGW0798		GWGW0851		GWGW0908		GWGW0968	GWGW0796		GWGW0838	
		Date	05/06/99		08/03/99		11/03/99	02/02/99		05/05/99		08/03/99		11/03/99	02/04/99		05/03/99	
		QA																
Analyte	CRDL	Units																
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc
1,1-DICHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,1-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,2-DIBROMOETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,2-DICHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
2-BUTANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc
2-HEXANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc
ACETONE	5.0	ug/L	<5.0	|UJc	<5.0		<5.0	<5.0		<5.0	|UJc	<5.0		<5.0	<5.0		<5.0	|UJc
BENZENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
BROMOCHLOROMETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc
BROMODICHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
BROMOFORM	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	<1.0	|UJc	<1.0	|UJc	<1.0		<1.0	<1.0	|UJc	<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc
CARBON TETRACHLORIDE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
CHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
CHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
CHLOROFORM	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	**3.7**	B|	**6.4**	B|Jc
CHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
ETHYLBENZENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
METHYLENE CHLORIDE	1.0	ug/L	<1.0	|UJc	<0.94	JB|Uz	<1.0	<1.0		<1.0	|UJc	<1.7	B|Uz	<1.0	<1.0		<1.0	|UJc
STYRENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
TETRACHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
TOLUENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
TRICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
VINYL CHLORIDE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc	<0.50		<0.50	<0.50		<0.50	|UJc
XYLENES (TOTAL)	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc	<1.0		<1.0	<1.0		<1.0	|UJc

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-026		UCD2-026		UCD2-026		UCD2-027Z5		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029	
		Sample ID	GWGW0919		GWGW0952		GWGW0953		GWGW0876		GWGW0777		GWGW0785		GWGW0786		GWGW0816		GWGW0826	
		Date	08/05/99		11/02/99		11/02/99		05/10/99		01/05/99		02/03/99		02/03/99		03/02/99		04/01/99	
		QA					DUPLICATE								DUPLICATE					
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		0.36	J|	0.38	J|	0.37	J|	0.39	J|	0.49	J|
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		**0.56**		**0.59**		**0.52**		0.40	J|	0.46	J|
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		**0.62**		**0.60**		**0.67**		<0.66	|Uy	**0.93**	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		**0.63**		**0.58**		**0.61**		**0.65**		**0.78**	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0	|UJl	<5.0		<5.0		<5.0	|Rc	<5.0		<5.0		<5.0		<5.0		<5.0	|Rc
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		0.14	J|	<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		0.20	J|	<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	**3.9**		<0.50		0.20	J|	**5.4**		**126**	DB|	**86.0**	DB|Jh	**121**	DB|	**118**	|Jch	**77.9**	
CHLOROMETHANE	0.50	ug/L	<0.50	|UJl	<0.50	|UJl	<0.50	|UJl	<0.50		<0.50		<0.50		0.40	J|	<0.50		<0.50	|UJl
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		0.063	J|	<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.2	B|Uz	<1.0		<1.0		<1.0		<1.0		<0.81	J|Uy	<0.5	J|Uy	<1.0	|UJl	<1.0	|UJl
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		0.06	J|	0.078	J|	0.073	J|	0.065	J|	<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0	

APF IX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-029		UCD2-030	
		Sample ID	GWGW0839		GWGW0887		GWGW0899		GWGW0904		GWGW0937		GWGW0941		GWGW0954		GWGW0975		GWGW0779	
		Date	05/03/99		06/02/99		07/07/99		08/02/99		09/01/99		10/06/99		11/01/99		12/01/99		01/05/99	
		QA																		
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<2.0		<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	0.39	J|Jc	**1.2**		**0.58**		**0.52**	J|	0.46	J|	**0.61**		0.46	J|	0.42	J|	0.10	J|
1,1-DICHLOROETHENE	0.50	ug/L	**0.51**	|Jc	**1.1**		**0.71**		**0.83**	J|	**0.74**		**0.84**		**0.65**		**0.57**		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
1,2-DICHLOROETHANE	0.50	ug/L	**0.68**	|Jc	**2.2**		**0.96**		**0.82**	J|	**0.77**	|Jc	**0.78**		**0.70**		**0.70**		0.18	J|
1,2-DICHLOROPROPANE	0.50	ug/L	**0.62**	|Jc	**3.0**		**1.3**		**0.95**	J|	**0.90**		**0.97**		**0.75**		**0.66**		0.18	J|
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
2-BUTANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<2.0		<1.0	|Rc	<1.0		<1.0		<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<2.0		<1.0		<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<2.0		<1.0		<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0	|UJc	<5.0		<5.0		<10.0	|UJm	<5.0	|Rc	<5.0		<5.0		<5.0		<5.0	
BENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
BROMOCHLOROMETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<2.0		<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50	|UJc	0.20	J|	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50	|UJc	<0.22	J|Uy	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<2.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<2.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
CHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	**116**	EB|JDc	**168**	D|	177	D|	**207**	E|JD	**171**	D|	**167**	D|	**150**	D|	**134**	D|	**6.0**	B|
CHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		0.18	J|	<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.093	J|Uy	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
METHYLENE CHLORIDE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0	B|Uz	<1.6	JB|Uz	<2.1	B|Uz	<1.7	B|Uz	<1.0		<0.44	J|Uy	<1.0	
STYRENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
TETRACHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<1.0		<0.50		<1.0		<0.50		<0.50		<0.50	|UJh
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50	|UJc	0.070	J|	<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<1.0		<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0	|UJc	<1.0	|UJh	<1.0		<2.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJh

APPENDIX B
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		Location	UCD2-030		UCD2-030		UCD2-030		UCD2-030		UCD2-030		UCD2-030		UCD2-030		UCD2-030		UCD2-030	
		Sample ID	GWGW0787		GWGW0815		GWGW0827		GWGW0840		GWGW0888		GWGW0900		GWGW0902		GWGW0938		GWGW0942	
		Date	02/11/99		03/02/99		04/05/99		05/03/99		06/02/99		07/07/99		08/02/99		09/02/99		10/06/99	
		QA																		
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	0.082	J|	0.057	J|	<0.50		<0.50	|UJc	0.079	J|	0.38	J|	0.14	J|	0.086	J|	0.14	J|
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		0.35	J|	<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	0.18	J|	0.17	J|	<0.50		<0.50	|UJc	<0.50		**0.50**		0.16	J|	0.13	J|Jc	<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	0.17	J|	0.14	J|	0.11	J|	<0.50	|UJc	<0.50		**0.65**		0.074	J|	<0.50		0.14	J|
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|UJm	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|Rc	<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0		<5.0		<5.0	|UJm	<5.0	|UJc	<1.4	JB|Uz	<5.0		<5.0		<5.0	|Rc	<5.0	
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|Rc
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	**5.2**	B|	**3.6**		**3.2**		<2.6	B|UJac	**3.5**		**52.3**		**6.7**		**5.4**		**9.1**	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJm	<0.50	|UJc	0.15	J|	<0.50		<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<0.77	J|Uz	<1.0	|UJl	<1.0		<1.0	|UJc	<1.0		<1.7	B|Uz	<1.1	B|Uz	<1.6	B|Uz	<1.0	
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<1.0	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	

APP IX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-030		UCD2-030		UCD2-030		UCD2-031		UCD2-031		UCD2-031		UCD2-031		UCD2-031		UCD2-031	
		Sample ID	GWGW0959		GWGW0976		GWGW0977		GWGW0778		GWGW0788		GWGW0819		GWGW0828		GWGW0841		GWGW0889	
		Date	11/01/99		12/01/99		12/01/99		01/05/99		02/11/99		03/02/99		04/05/99		05/03/99		06/02/99	
		QA					DUPLICATE													
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJa
1,1-DICHLOROETHANE	0.50	ug/L	0.25	J|	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
1,1-DICHLOROETHENE	0.50	ug/L	0.24	J|	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJha
1,2-DICHLOROETHANE	0.50	ug/L	0.30	J|	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
1,2-DICHLOROPROPANE	0.50	ug/L	0.27	J|	0.071	J|	0.072	J|	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJha
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJha
2-BUTANONE	1.0	ug/L	<1.0	|UJm	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJcm	<1.0	|UJa
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJcm	<1.0	|UJa
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJa
ACETONE	5.0	ug/L	<5.0	|UJm	<5.0		<5.0		<5.0		<5.0		<5.0		<5.0		<5.0	|UJcm	<5.0	|UJa
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJha
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJa
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0	|UJa
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJa
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJha
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
CHLOROFORM	0.50	ug/L	**16.1**		**4.0**		**4.0**		<1.8	B|Uz	**1.7**	B|	**1.2**		**3.5**		**5.3**	B|Jc	**11.9**	|Ja
CHLOROMETHANE	0.50	ug/L	<0.50	|UJm	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJha
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<0.69	J|Uy	<0.56	J|Uy	<1.0		<0.54	J|Uz	<1.0	|UJl	<1.0		<1.0	|UJc	<1.0	|UJa
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJha
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJha
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJa
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJha

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-031		UCD2-031		UCD2-031		UCD2-031		UCD2-031		UCD2-031		UCD2-032		UCD2-032		UCD2-032	
		Sample ID	GWGW0897		GWGW0903		GWGW0935		GWGW0943		GWGW0960		GWGW0978		GWGW0790		GWGW0859		GWGW0924	
		Date	07/06/99		08/02/99		09/01/99		10/06/99		11/01/99		12/01/99		02/04/99		05/06/99		08/09/99	
		QA																		
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		0.073	J|	<0.50	|UJc	<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		0.17	J|	<0.50	|UJc	<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		0.12	J|	<0.50	|UJc	<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|Rc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|Rc
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
ACETONE	5.0	ug/L	<5.0		<5.0		<0.78	J|UJc	<5.0		<5.0		<5.0		<5.0		<5.0	|UJc	<5.0	
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJh	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.24	J|Uy
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJh	<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0	|UJc	<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CHLOROFORM	0.50	ug/L	**13.6**		<0.84	|Uy	**0.67**	|Jh	**0.68**		**2.0**		<0.54	|Uy	**10.1**	B|	**7.2**	|Jc	**1.9**	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.12	J|Uy
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.3	B|Uz	<1.1	B|Uz	<1.0	|UJh	<1.5	B|Uz	<1.0		<0.5	J|Uy	<1.1	|Uy	<1.0	|UJc	<0.96	JB|Uz
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<1.0	|UJh	<0.50		<0.089	J|Uy	<0.50		<0.50	|UJc	<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0	|UJh	<1.0	|UJh	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	

APF ,X B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-032	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035	UCD2-035
		Sample ID	GWGW0970	GWGW0782	GWGW0791	GWGW0814	GWGW0834	GWGW0843	GWGW0879	GWGW0880	GWGW0890
		Date	11/04/99	01/06/99	02/03/99	03/01/99	04/06/99	05/04/99	06/01/99	06/01/99	07/06/99
		QA								DUPLICATE	
Analyte	CRDL	Units									
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0
1,1-DICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,1-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,2-DIBROMOETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50 |UJh	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,2-DICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50 |UJh	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
2-BUTANONE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0 |UJm
2-HEXANONE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0 |UJm
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0
ACETONE	5.0	ug/L	<5.0	<5.0	<5.0	<5.0 |UJm	<5.0	<5.0 |UJc	<1.7 JB|UJmz	<1.6 JB|Uz	<5.0 |UJm
BENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50 |UJh	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
BROMOCHLOROMETHANE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0
BROMODICHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
BROMOFORM	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.17 J|Uy	<0.50
BROMOMETHANE	1.0	ug/L	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0 |UJc	<1.0 |UJm	<1.0	<1.0
CARBON DISULFIDE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
CHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50 |UJh	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
CHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
CHLOROFORM	0.50	ug/L	**3.2**	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
CHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
ETHYLBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
METHYLENE CHLORIDE	1.0	ug/L	<1.0	<1.0	<0.98 J|Uy	<1.0 |UJl	<1.0	<1.0 |UJc	<1.0	<1.0	<0.85 JB|Uz
STYRENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
TETRACHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
TOLUENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50 |UJh	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
TRICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
VINYL CHLORIDE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50	<0.50
XYLENES (TOTAL)	1.0	ug/L	<1.0	<1.0	<1.0	<1.0 |UJh	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-035		UCD2-035		UCD2-035		UCD2-035		UCD2-035		UCD2-035		UCD2-036		UCD2-036		UCD2-036	
		Sample ID	GWGW0891		GWGW0920		GWGW0939		GWGW0946		GWGW0969		GWGW0981		GWGW0773		GWGW0793		GWGW0821	
		Date	07/06/99		08/05/99		09/02/99		10/07/99		11/03/99		12/02/99		01/04/99		02/01/99		03/03/99	
		QA	DUPLICATE																	
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJs	<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|Rc	<1.0		<1.0		<1.0	|UJs	<1.0		<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJs	<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJs	<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0		<5.0	|UJl	<5.0	|Rc	<5.0		<5.0		<5.0	|UJs	<5.0		<5.0	|UJm	<5.0	
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		0.056	J|	<0.50	|UJs	<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJs	<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJls	<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0	|UJs	<1.0		<1.0	|UJc	<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		0.22	J|Js	<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		0.058	J|Js	<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		0.055	J|Js	<0.50		<0.50		<0.50	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJl	<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50	|UJm	<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<0.84	JB|Uz	<1.1	B|Uz	<1.8	B|Uz	<1.8	B|Uz	<1.0		<0.34	JB|UJzsl	<1.0		<1.0		<1.0	|UJl
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<1.0		<0.50		<0.065	JB|UJzs	<0.50		<0.50		<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJs	<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJs	<1.0		<1.0		<1.0	

APP. X B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-036	UCD2-036	UCD2-036		UCD2-036		UCD2-036		UCD2-036		UCD2-036		UCD2-036		UCD2-036	
		Sample ID	GWGW0830	GWGW0831	GWGW0852		GWGW0883		GWGW0894		GWGW0909		GWGW0910		GWGW0932		GWGW0947	
		Date	04/05/99	04/05/99	05/05/99		06/01/99		07/06/99		08/03/99		08/03/99		09/01/99		10/07/99	
		QA		DUPLICATE									DUPLICATE					
Analyte	CRDL	Units																
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|Rc	<1.0	
2-HEXANONE	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0	<5.0	<5.0	|UJc	<1.7	JB|Uz	<5.0		<5.0		<5.0		<5.0	|Rc	<5.0	
BENZENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		0.17	J|	<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	0.12	J|	<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<0.82	JB|Uz	<0.86	JB|Uz	<1.7	B|Uz	<1.0		<1.8	B|Uz
STYRENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<1.0	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50	<0.50	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0	<1.0	<1.0	|UJc	<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0	

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD2-036		UCD2-036		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037	
		Sample ID	GWGW0957		GWGW0982		GWGW0774		GWGW0775		GWGW0799		GWGW0822		GWGW0832		GWGW0844		GWGW0845	
		Date	11/02/99		12/02/99		01/04/99		01/04/99		02/01/99		03/03/99		04/06/99		05/04/99		05/04/99	
		QA							DUPLICATE										DUPLICATE	
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
2-BUTANONE	1.0	ug/L	<1.0		<1.0	|UJm	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc
2-HEXANONE	1.0	ug/L	<1.0		<1.0	|UJm	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc
ACETONE	5.0	ug/L	<5.0		<5.0	|UJm	<5.0		<5.0		<5.0		<5.0		<5.0		<5.0	|UJc	<5.0	|UJc
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
BROMOFORM	0.50	ug/L	<0.50		0.20	J|JI	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0		0.21	J|	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		0.095	J|	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
CHLOROFORM	0.50	ug/L	<0.50		0.061	J|	<0.15	JB|Uz	<0.16	JB|Uz	<0.18	JB|Uz	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
CHLOROMETHANE	0.50	ug/L	<0.50		<0.36	J|Uy	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.082	J|Uy	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<0.53	JB|UJlz	<1.0		<1.0		<1.0		<1.0	|UJl	<1.0		<1.0	|UJc	<1.0	|UJc
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
TOLUENE	0.50	ug/L	<0.50		<0.046	JB|Uz	<0.50		<0.50		<0.50	|UJh	<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50	|UJc
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJh	<1.0		<1.0		<1.0	|UJc	<1.0	|UJc

APP X B
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		Location	UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037		UCD2-037	
		Sample ID	GWGW0882		GWGW0893		GWGW0911		GWGW0930		GWGW0931		GWGW0948		GWGW0950		GWGW0958		GWGW0983
		Date	06/01/99		07/06/99		08/03/99		09/01/99		09/01/99		10/07/99		10/07/99		11/02/99		12/01/99
		QA									DUPLICATE				DUPLICATE				
Analyte	CRDL	Units																	
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|Rc	<1.0	|Rc	<1.0		<1.0		<1.0		<1.0
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
ACETONE	5.0	ug/L	<1.4	JB|Uz	<5.0		<5.0		<5.0	|Rc	<5.0	|Rc	<5.0		<5.0		<5.0		<5.0
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
BROMOFORM	0.50	ug/L	<0.16	J|Uy	0.31	J|	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CHLOROFORM	0.50	ug/L	0.21	J|	<0.50		<0.24	J|Uy	0.29	J|	0.27	J|	0.22	J|	0.22	J|	0.20	J|	<0.50
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.11	J|Uy	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<1.1	B|Uz	<0.66	JB|Uz	<1.6	B|Uz	<0.72	JB|Uz	<1.8	B|Uz	<1.9	B|Uz	<1.0		<0.22	J|Uy
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<1.0		<1.0		<0.50		<0.50
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-038		UCD2-038		UCD2-038		UCD2-038		UCD2-038		UCD2-038		UCD2-038		UCD2-038		UCD2-038	
		Sample ID	GWGW0781		GWGW0792		GWGW0823		GWGW0833		GWGW0846		GWGW0881		GWGW0892		GWGW0921		GWGW0929	
		Date	01/06/99		02/03/99		03/03/99		04/06/99		05/04/99		06/01/99		07/06/99		08/05/99		09/01/99	
		QA																		
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<1.0		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0	|Rc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|Rc
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<0.50	|Rc	<5.0		<5.0		<5.0		<5.0	|UJc	<1.6	JB|Uz	<5.0		<5.0	|UJl	<5.0	|Rc
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<0.50		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	<0.53	B|Uz	<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50	|UJl	<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<0.53	J|Uy	<1.0	|UJl	<1.0		<1.0	|UJc	0.53	J|	<1.0	B|Uz	<1.2	B|Uz	<1.1	B|Uz
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50	|UJc	<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<0.50		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	

APPENDIX B
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		Location	UCD2-038	UCD2-038	UCD2-038	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039	UCD2-039
		Sample ID	GWGW0949	GWGW0955	GWGW0984	GWGW0783	GWGW0794	GWGW0824	GWGW0835	GWGW0853	GWGW0884	GWGW0895
		Date	10/07/99	11/02/99	12/01/99	01/06/99	02/02/99	03/03/99	04/06/99	05/05/99	06/01/99	07/06/99
		QA										
Analyte	CRDL	Units										
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0
1,1-DICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,1-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,2-DIBROMOETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,2-DICHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.14 J|Uy	<0.50	<0.50 |UJc	<0.50	<0.50
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
2-BUTANONE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0
2-HEXANONE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0
ACETONE	5.0	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 |UJc	<2.0 JB|Uz	<5.0
BENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
BROMOCHLOROMETHANE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0
BROMODICHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
BROMOFORM	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
BROMOMETHANE	1.0	ug/L	<1.0 |UJc	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0
CARBON DISULFIDE	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0
CARBON TETRACHLORIDE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
CHLOROBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
CHLOROETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
CHLOROFORM	0.50	ug/L	<0.50	<0.50	<0.50	<1.7 B|Uz	**1.7** B|	<1.0 |Uy	**0.71**	**0.91** |Jc	**1.7**	**1.8**
CHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
ETHYLBENZENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
METHYLENE CHLORIDE	1.0	ug/L	<1.7 B|Uz	<1.0	<0.28 J|Uy	<1.0	<1.0	<1.0 |UJl	<1.0	<1.0 |UJc	<1.0	<1.3 B|Uz
STYRENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
TETRACHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
TOLUENE	0.50	ug/L	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
TRICHLOROETHENE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
VINYL CHLORIDE	0.50	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 |UJc	<0.50	<0.50
XYLENES (TOTAL)	1.0	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 |UJc	<1.0	<1.0

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD2-039		UCD2-039		UCD2-039		UCD2-039		UCD2-039		UCD2-040		UCD2-040		UCD2-040		UCD2-040	
		Sample ID	GWGW0922		GWGW0933		GWGW0944		GWGW0971		GWGW0979		GWGW0780		GWGW0789		GWGW0820		GWGW0829	
		Date	08/05/99		09/01/99		10/06/99		11/04/99		12/01/99		01/06/99		02/04/99		03/02/99		04/05/99	
		QA																		
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	0.055	J|	0.062	J|	<0.50		<0.50		<0.50		0.23	J|	0.22	J|	0.29	J|	0.23	J|
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		0.43	J|	0.32	J|	0.29	J|	0.28	J|
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		0.42	J|	0.49	J|	<0.57	|Uy	0.46	J|
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		0.35	J|	0.37	J|	0.44	J|	0.38	J|
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0	|Rc	<1.0	|Rc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0	|UJc	<5.0	|Rc	<5.0		<5.0		0.87	J|Jcl	<5.0		<5.0		<5.0		<5.0	
BENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	**2.0**		**2.2**		**1.8**		**1.8**		**1.5**		**40.2**	B|	**36.7**	B|	**43.0**		**44.8**	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.6	B|Uz	<2.3	B|Uz	<1.5	B|Uz	<1.0		<0.63	J|Uy	<1.0		<1.0		<1.0	|UJl	<1.0	
STYRENE	0.50	ug/L	<0.50		<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50	|UJh	<1.0		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		0.060	J|	<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0	|UJh	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	

APPE . B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	UCD2-040		UCD2-040		UCD2-040		UCD2-040		UCD2-040		UCD2-040		UCD2-040		UCD2-040		UCD2-040	
		Sample ID	GWGW0847		GWGW0885		GWGW0896		GWGW0905		GWGW0934		GWGW0945		GWGW0961		GWGW0962		GWGW0980	
		Date	05/04/99		06/01/99		07/06/99		08/02/99		09/01/99		10/06/99		11/02/99		11/02/99		12/01/99	
		QA															DUPLICATE			
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	0.22	J|Jc	0.18	J|	0.076	J|	0.069	J|	<0.50		0.061	J|	<0.50		0.073	J|	<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	0.37	J|Jc	0.35	J|	0.18	J|	<0.50		<0.50		0.19	J|	0.23	J|	0.23	J|	<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50	|UJc	0.35	J|	0.16	J|	0.15	J|	0.14	J|Jc	0.11	J|	<0.50		0.15	J|	<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	0.36	J|Jc	0.23	J|	0.12	J|	0.088	J|	<0.50		0.092	J|	0.11	J|	0.13	J|	0.11	J|
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|Rc	<1.0		<1.0		<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5.0	|UJc	<1.4	JB|Uz	<5.0		<5.0		<5.0	|Rc	<5.0		<5.0		<5.0		<5.0	
BENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		0.058	J|	<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0		<1.0	|UJc	<1.0	|UJc	<1.0	|UJc	<1.0	
CARBON DISULFIDE	1.0	ug/L	<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	|UJc	<1.0		<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	**41.1**	B|Jc	**40.3**		**23.5**		**15.8**		**11.3**		**13.9**		**15.3**		**17.2**		**18.3**	
CHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJl	<0.50	|UJl	<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<0.54	J|UJcy	0.51	J|	<1.2	B|Uz	<0.75	JB|Uz	<1.7	B|Uz	<1.6	B|Uz	<1.0		<1.0		<0.32	J|Uy
STYRENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50	|UJc	<0.50	|UJh	<0.50		<0.50		<0.50		<1.0		<0.50		<0.50		<0.50	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50	|UJc	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0	|UJc	<1.0	|UJh	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD4-041		UCD4-041		UCD4-041		UCD4-041		UCD4-042		UCD4-042		UCD4-042		UCD4-042		UCD4-043	
		Sample ID	GWGW0810		GWGW0869		GWGW0927		GWGW0963		GWGW0811		GWGW0872		GWGW0873		GWGW0925		GWGW0972		GWGW0812	
		Date	02/11/99		05/12/99		08/04/99		11/02/99		02/04/99		05/12/99		05/12/99		08/10/99		11/04/99		02/04/99	
		QA													DUPLICATE							
Analyte	CRDL	Units																				
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	0.13	J|	<0.50		<0.50		<0.50		0.10	J|	0.054	J|	<0.50		<0.50		<0.50		0.16	J|
1,1-DICHLOROETHENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
1,2-DICHLOROETHANE	0.50	ug/L	0.24	J|	<0.50		<0.50		<0.50		0.18	J|	<0.50		<0.50		<0.50		<0.50		0.30	J|
1,2-DICHLOROPROPANE	0.50	ug/L	0.15	J|	0.061	J|	<0.50		<0.50		0.12	J|	<0.50		0.066	J|	<0.50		<0.50		0.21	J|
1,3-DICHLOROBENZENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
1,4-DICHLOROBENZENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
2-BUTANONE	1.0	ug/L	<1		<1.0	|UJm	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|Rc	<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1		<1.0	|UJm	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
ACETONE	5.0	ug/L	<5		<5.0	|UJm	<5.0	|UJl	<5.0		<5.0		<5.0		<5.0		<5.0		<5.0		<5.0	
BENZENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
BROMOCHLOROMETHANE	1.0	ug/L	<1		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOFORM	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1	|UJc	<1.0	|RI	<1.0		<1.0	|UJc	<1.0	|UJc	<1.0	|RI	<1.0	|RI	<1.0		<1.0		<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1		<1.0	|UJl	<1.0		<1.0		<1.0		<1.0	|UJl	<1.0	|UJl	<1.0		<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
CHLOROETHANE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROFORM	0.50	ug/L	**13.6**	B|	**6.2**	B|	**2.6**		**1.8**		**10.3**	B|	**4.8**	B|	**5.2**	B|	**3.7**		**4.4**		**18.2**	B|
CHLOROMETHANE	0.50	ug/L	<0.5		<0.50		<0.50	|UJl	<0.50	|UJl	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
METHYLENE CHLORIDE	1.0	ug/L	<0.5	J|Uz	<1.0		<1.1	B|Uz	<1.0		<0.97	J|Uy	<1.0		<1.0		<1.0	B|Uz	<1.0		<1.0	|Uy
STYRENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
TETRACHLOROETHENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJh
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.5		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJh

APF IX B
VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD4-043		UCD4-043		UCD4-043		UCD4-043		UCD4-044		UCD4-044		UCD4-044		UCD4-044
		Sample ID	GWGW0813		GWGW0874		GWGW0926		GWGW0973		GWGW0877		GWGW0923		GWGW0928		GWGW0956
		Date	02/04/99		05/12/99		08/10/99		11/04/99		05/10/99		08/04/99		08/04/99		11/01/99
		QA	DUPLICATE										DUPLICATE				
Analyte	CRDL	Units															
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
1,1-DICHLOROETHANE	0.50	ug/L	0.18	J|	0.098	J|	0.098	J|	<0.50		<0.50		<0.50		<0.50		<0.50
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		0.18	J|	<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DICHLOROETHANE	0.50	ug/L	0.32	J|	0.16	J|	0.17	J|	<0.50		<0.50		<0.50		<0.50		<0.50
1,2-DICHLOROPROPANE	0.50	ug/L	0.22	J|	0.15	J|	0.13	J|	0.060	J|	<0.50		<0.50		<0.50		<0.50
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
2-BUTANONE	1.0	ug/L	<1.0		<1.0		<1.0	|Rc	<1.0	|UJm	<1.0		<1.0	|Rc	<1.0	|UJm	<1.0
2-HEXANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJm	<1.0
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
ACETONE	5.0	ug/L	<5.0		<5.0		<5.0		<5.0	|UJm	<5.0	|Rc	<5.0	|UJc	<5.0	|UJl	<5.0
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.52	|Uy	<0.50		<0.50		<0.50		<0.50		<0.50
BROMOMETHANE	1.0	ug/L	<1.0	|UJc	<1.0	|Rl	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0	|UJl	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CHLOROFORM	0.50	ug/L	**19.1**	B|	**13.7**	B|	**12.8**		**5.6**		<0.50		<0.50		<0.50		<0.50
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	|UJl	<0.50
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.11	J|Uy	<0.50		<0.50		<0.50		<0.50		<0.50
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
METHYLENE CHLORIDE	1.0	ug/L	<0.73	J|Uy	<1.0		<1.0	B|Uz	<1.0		<1.0		<1.2	B|Uz	<0.76	JB|Uz	<1.0
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0

APPENDIX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD1-004		UCD1-004		UCD1-010		UCD1-012		UCD1-013		UCD1-018		UCD1-020		UCD1-025		UCD1-028	
		Sample ID	GWGW0848		GWGW0849		GWGW0861		GWGW0862		GWGW0854		GWGW0867		GWGW0864		GWGW0836		GWGW0784	
		Date	05/05/99		05/05/99		05/11/99		05/11/99		05/06/99		05/10/99		05/11/99		05/03/99		02/11/99	
		QA			DUPLICATE															
Analyte	CRDL	Units																		
1,2,4-TRICHLOROBENZENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
1,4-DICHLOROBENZENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
2,4,5-TRICHLOROPHENOL	10	ug/L	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJs
2,4,6-TRICHLOROPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJs
2,4-DICHLOROPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJs
2,4-DIMETHYLPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJs
2,4-DINITROPHENOL	25	ug/L	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<24.8	|UJs
2,4-DINITROTOLUENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
2,6-DINITROTOLUENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
2-2'-OXYBIS(1-CHLOROPROPANE)	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
2-CHLORONAPHTHALENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
2-CHLOROPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJs
2-METHYLNAPHTHALENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
2-METHYLPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJs
2-NITROANILINE	25	ug/L	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0		<24.8	
2-NITROPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJs
3,3'-DICHLOROBENZIDINE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
3-NITROANILINE	25	ug/L	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0		<24.8	
4,6-DINITRO-2-METHYLPHENOL	25	ug/L	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJs
4-BROMOPHENYL-PHENYLETHER	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
4-CHLORO-3-METHYLPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJs
4-CHLOROANILINE	10	ug/L	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0	|UJc	<25.0		<24.8	
4-CHLOROPHENYL-PHENYLETHER	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
3/4-METHYLPHENOL	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJs
4-NITROANILINE	25	ug/L	<25.0	|UJc	<25.0	|UJc	<25.0	|UJcl	<25.0	|UJcl	<25.0	|UJc	<25.0	|UJcl	<25.0	|UJcl	<25.0		<24.8	
4-NITROPHENOL	25	ug/L	<25.0	|RI	<25.0	|RI	<25.0	|UJcls	<25.0	|UJcls	<25.0	|RI	<25.0	|UJcls	<25.0	|UJcls	<25.0	|UJls	<24.8	|UJs
ACENAPHTHENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
ACENAPHTHYLENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
ANTHRACENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BENZO(A)ANTHRACENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BENZO(A)PYRENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BENZO(B)FLUORANTHENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BENZO(G,H,I)PERYLENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BENZO(K)FLUORANTHENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BIS(2-CHLOROETHOXY)METHANE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BIS(2-CHLOROETHYL) ETHER	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BIS(2-ETHYLHEXYL)PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
BUTYLBENZYLPHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
CARBAZOLE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJcl	<10.0	|UJcl	<10.0	|UJc	<10.0	|UJcl	<10.0	|UJcl	<10.0		<9.9	
CHRYSENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
DI-N-BUTYL PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
DI-N-OCTYL PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
DIBENZ(A,H)ANTHRACENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
DIBENZOFURAN	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
DIETHYL PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	

APPENDIX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD1-004		UCD1-004		UCD1-010		UCD1-012		UCD1-013		UCD1-018		UCD1-020		UCD1-025		UCD1-028	
		Sample ID	GWGW0848		GWGW0849		GWGW0861		GWGW0862		GWGW0854		GWGW0867		GWGW0864		GWGW0836		GWGW0784	
		Date	05/05/99		05/05/99		05/11/99		05/11/99		05/06/99		05/10/99		05/11/99		05/03/99		02/11/99	
		QA			DUPLICATE															
Analyte	CRDL	Units																		
DIMETHYL PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
DIPHENYLAMINE	10	ug/L	--		--		--		--		--		--		--		--		--	
FLUORANTHENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
FLUORENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
HEXACHLOROBENZENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
HEXACHLOROBUTADIENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
HEXACHLOROCYCLOPENTADIENE	10	ug/L	<10.0	|UJcl	<10.0	|UJcl	<10.0	|UJc	<10.0	|UJc	<10.0	|UJcl	<10.0	|UJc	<10.0	|UJc	<10.0	|UJl	<9.9	
HEXACHLOROETHANE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
INDENO(1,2,3-C,D)PYRENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
ISOPHORONE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
N-NITROSODI-N-PROPYLAMINE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
N-NITROSODIPHENYLAMINE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	--		<9.9	
NAPHTHALENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
NITROBENZENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
PENTACHLOROPHENOL	25	ug/L	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJs
PHENANTHRENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	
PHENOL	10	ug/L	<10.0	|RI	<10.0	|RI	<10.0	|RI	<10.0	|RI	<10.0	|RI	<10.0	|RI	<10.0	|RI	<10.0	|UJls	<9.9	|UJs
PYRENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	

APPENDIX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD1-028		UCD1-028		UCD1-034		UCD2-014		UCD2-014		UCD2-015		UCD2-017		UCD2-026		UCD2-029	
		Sample ID	GWGW0837		GWGW0901		GWGW0842		GWGW0856		GWGW0857		GWGW0850		GWGW0851		GWGW0838		GWGW0785	
		Date	05/03/99		08/02/99		05/04/99		05/06/99		05/06/99		05/05/99		05/05/99		05/03/99		02/03/99	
		QA									DUPLICATE									
Analyte	CRDL	Units																		
1,2,4-TRICHLOROBENZENE	10	ug/L	<10.0		<10.0		<10.0	UJcls	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
1,4-DICHLOROBENZENE	10	ug/L	<10.0		<10.0		<10.0	UJcls	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
2,4,5-TRICHLOROPHENOL	10	ug/L	<25.0	UJs	<25.0	UJs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJs	<25.2	UJsc
2,4,6-TRICHLOROPHENOL	10	ug/L	<10.0	UJs	<10.0	UJs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJs	<10.1	UJsc
2,4-DICHLOROPHENOL	10	ug/L	<10.0	UJs	<10.0	UJs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJs	<10.1	UJsc
2,4-DIMETHYLPHENOL	10	ug/L	<10.0	UJs	<10.0	UJs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJs	<10.1	UJsc
2,4-DINITROPHENOL	25	ug/L	<25.0	UJcs	<25.0	UJs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.2	UJsc
2,4-DINITROTOLUENE	10	ug/L	<10.0		<10.0		<10.0	UJcsm	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
2,6-DINITROTOLUENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
2-2'-OXYBIS(1-CHLOROPROPANE)	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
2-CHLORONAPHTHALENE	10	ug/L	<10.0		<10.0		<10.0	UJlcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
2-CHLOROPHENOL	10	ug/L	<10.0	UJs	<10.0	UJs	<10.0	UJcsm	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJs	<10.1	UJsc
2-METHYLNAPHTHALENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
2-METHYLPHENOL	10	ug/L	<10.0	UJs	<10.0	UJs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJs	<10.1	UJsc
2-NITROANILINE	25	ug/L	<25.0		<25.0		<25.0	UJcs	<25.0	UJc	<25.0	UJc	<25.0	UJc	<25.0	UJc	<25.0		<25.2	
2-NITROPHENOL	10	ug/L	<10.0	UJs	<10.0	UJs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJs	<10.1	UJsc
3,3'-DICHLOROBENZIDINE	10	ug/L	<10.0		<10.0		<10.0	UJcls	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
3-NITROANILINE	25	ug/L	<25.0		<25.0		<25.0	UJcs	<25.0	UJc	<25.0	UJc	<25.0	UJc	<25.0	UJc	<25.0		<25.2	
4,6-DINITRO-2-METHYLPHENOL	25	ug/L	<25.0	UJs	<25.0	UJs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJcs	<25.0	UJs	<25.2	UJsc
4-BROMOPHENYL-PHENYLETHER	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
4-CHLORO-3-METHYLPHENOL	10	ug/L	<10.0	UJs	<10.0	UJs	<10.0	UJcsm	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJcs	<10.0	UJs	<10.1	UJsc
4-CHLOROANILINE	10	ug/L	<25.0		<25.0		<25.0	UJcs	<25.0	UJc	<25.0	UJc	<25.0	UJc	<25.0	UJc	<25.0		<20.2	
4-CHLOROPHENYL-PHENYLETHER	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
3/4-METHYLPHENOL	10	ug/L	<10.0		<10.0	UJs	<10.0	UJlcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	UJsc
4-NITROANILINE	25	ug/L	<25.0		<25.0		<25.0	UJlcs	<25.0	UJc	<25.0	UJc	<25.0	UJc	<25.0	UJc	<25.0		<25.2	
4-NITROPHENOL	25	ug/L	<25.0	UJls	<25.0	RI	<25.0	RI	<25.0	RI	<25.0	RI	<25.0	RI	<25.0	RI	<25.0	UJls	<25.2	RI
ACENAPHTHENE	10	ug/L	<10.0		<10.0		<10.0	UJcsm	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
ACENAPHTHYLENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
ANTHRACENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BENZO(A)ANTHRACENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BENZO(A)PYRENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BENZO(B)FLUORANTHENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BENZO(G,H,I)PERYLENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BENZO(K)FLUORANTHENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BIS(2-CHLOROETHOXY)METHANE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BIS(2-CHLOROETHYL) ETHER	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BIS(2-ETHYLHEXYL)PHTHALATE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
BUTYLBENZYLPHTHALATE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
CARBAZOLE	10	ug/L	<10.0		<10.0		<10.0	UJcls	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
CHRYSENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
DI-N-BUTYL PHTHALATE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
DI-N-OCTYL PHTHALATE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
DIBENZ(A,H)ANTHRACENE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
DIBENZOFURAN	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	
DIETHYL PHTHALATE	10	ug/L	<10.0		<10.0		<10.0	UJcs	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0	UJc	<10.0		<10.1	

APPENDIX B
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Analyte	CRDL	Units	UCD1-028 GWGW0837 05/03/99	UCD1-028 GWGW0901 08/02/99	UCD1-034 GWGW0842 05/04/99	UCD2-014 GWGW0856 05/06/99	UCD2-014 GWGW0857 05/06/99 DUPLICATE	UCD2-015 GWGW0850 05/05/99	UCD2-017 GWGW0851 05/05/99	UCD2-026 GWGW0838 05/03/99	UCD2-029 GWGW0785 02/03/99
DIMETHYL PHTHALATE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
DIPHENYLAMINE	10	ug/L	--	<10.0	--	--	--	--	--	--	--
FLUORANTHENE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
FLUORENE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
HEXACHLOROBENZENE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
HEXACHLOROBUTADIENE	10	ug/L	<10.0	<10.0	<10.0 |UJcls	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
HEXACHLOROCYCLOPENTADIENE	10	ug/L	<10.0 |UJl	<10.0	<10.0 |UJcls	<10.0 |UJcl	<10.0 |UJcl	<10.0 |UJcl	<10.0 |UJcl	<10.0 |UJl	<10.1
HEXACHLOROETHANE	10	ug/L	<10.0	<10.0	<10.0 |UJlcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
INDENO(1,2,3-C,D)PYRENE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
ISOPHORONE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
N-NITROSODI-N-PROPYLAMINE	10	ug/L	<10.0	<10.0	<10.0 |UJcsm	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
N-NITROSODIPHENYLAMINE	10	ug/L	--	--	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	--	<10.1
NAPHTHALENE	10	ug/L	<10.0	<10.0	<10.0 |UJcls	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
NITROBENZENE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
PENTACHLOROPHENOL	25	ug/L	<25.0 |UJs	<25.0 |UJs	<25.0 |UJcs	<25.0 |UJcs	<25.0 |UJcs	<25.0 |UJcs	<25.0 |UJcs	<25.0 |UJs	<25.2 |UJsc
PHENANTHRENE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1
PHENOL	10	ug/L	<10.0 |UJls	<10.0 |Rl	<10.0 |Rl	<10.0 |Rl	<10.0 |Rl	<10.0 |Rl	<10.0 |Rl	<10.0 |UJls	<10.1 |UJlsc
PYRENE	10	ug/L	<10.0	<10.0	<10.0 |UJcs	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0 |UJc	<10.0	<10.1

APPENDIX B
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		Location	UCD2-029		UCD2-029		UCD2-029		UCD2-030		UCD2-030		UCD2-030		UCD2-031		UCD2-031		UCD2-031	
		Sample ID	GWGW0786		GWGW0839		GWGW0904		GWGW0787		GWGW0840		GWGW0902		GWGW0788		GWGW0841		GWGW0903	
		Date	02/03/99		05/03/99		08/02/99		02/11/99		05/03/99		08/02/99		02/11/99		05/03/99		08/02/99	
		QA	DUPLICATE																	
Analyte	CRDL	Units																		
1,2,4-TRICHLOROBENZENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
1,4-DICHLOROBENZENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
2,4,5-TRICHLOROPHENOL	10	ug/L	<25.0	|UJsc	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJs	<25.0	|UJs
2,4,6-TRICHLOROPHENOL	10	ug/L	<10.0	|UJsc	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs
2,4-DICHLOROPHENOL	10	ug/L	<10.0	|UJsc	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs
2,4-DIMETHYLPHENOL	10	ug/L	<10.0	|UJsc	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs
2,4-DINITROPHENOL	25	ug/L	<25.0	|UJsc	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJcs	<25.0	|UJs
2,4-DINITROTOLUENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
2,6-DINITROTOLUENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
2-2'-OXYBIS(1-CHLOROPROPANE)	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
2-CHLORONAPHTHALENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
2-CHLOROPHENOL	10	ug/L	<10.0	|UJsc	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs
2-METHYLNAPHTHALENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
2-METHYLPHENOL	10	ug/L	<10.0	|UJsc	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs
2-NITROANILINE	25	ug/L	<25.0		<25.0		<25.0		<24.8		<25.0		<25.0		<24.8		<25.0		<25.0	
2-NITROPHENOL	10	ug/L	<10.0	|UJsc	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs
3,3'-DICHLOROBENZIDINE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
3-NITROANILINE	25	ug/L	<25.0		<25.0		<25.0		<24.8		<25.0		<25.0		<24.8		<25.0		<25.0	
4,6-DINITRO-2-METHYLPHENOL	25	ug/L	<25.0	|UJsc	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJs	<25.0	|UJs
4-BROMOPHENYL-PHENYLETHER	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
4-CHLORO-3-METHYLPHENOL	10	ug/L	<10.0	|UJsc	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJs	<10.0	|UJl
4-CHLOROANILINE	10	ug/L	<20.0		<25.0		<25.0	|UJl	<24.8		<25.0		<25.0	|UJl	<24.8		<25.0		<25.0	|UJl
4-CHLOROPHENYL-PHENYLETHER	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
3/4-METHYLPHENOL	10	ug/L	<10.0	|UJsc	<10.0		<10.0	|UJs	<9.9	|UJs	<10.0		<10.0	|UJs	<9.9	|UJs	<10.0		<10.0	|UJs
4-NITROANILINE	25	ug/L	<25.0		<25.0		<25.0		<24.8		<25.0		<25.0		<24.8		<25.0		<25.0	
4-NITROPHENOL	25	ug/L	<25.0	|Rl	<25.0	|UJls	<25.0	|UJs	<24.8	|UJs	<25.0	|UJls	<25.0	|Rl	<24.8	|UJs	<25.0	|UJls	<25.0	|Rl
ACENAPHTHENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
ACENAPHTHYLENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
ANTHRACENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BENZO(A)ANTHRACENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BENZO(A)PYRENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BENZO(B)FLUORANTHENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BENZO(G,H,I)PERYLENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BENZO(K)FLUORANTHENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BIS(2-CHLOROETHOXY)METHANE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BIS(2-CHLOROETHYL) ETHER	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BIS(2-ETHYLHEXYL)PHTHALATE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
BUTYLBENZYLPHTHALATE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
CARBAZOLE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
CHRYSENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
DI-N-BUTYL PHTHALATE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
DI-N-OCTYL PHTHALATE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
DIBENZ(A,H)ANTHRACENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
DIBENZOFURAN	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
DIETHYL PHTHALATE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	

APP X B
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		Location	UCD2-029		UCD2-029		UCD2-029		UCD2-030		UCD2-030		UCD2-030		UCD2-031		UCD2-031		UCD2-031	
		Sample ID	GWGW0786		GWGW0839		GWGW0904		GWGW0787		GWGW0840		GWGW0902		GWGW0788		GWGW0841		GWGW0903	
		Date	02/03/99		05/03/99		08/02/99		02/11/99		05/03/99		08/02/99		02/11/99		05/03/99		08/02/99	
		QA	DUPLICATE																	
Analyte	CRDL	Units																		
DIMETHYL PHTHALATE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
DIPHENYLAMINE	10	ug/L	--		--		<10.0		--		--		<10.0		--		--		<10.0	
FLUORANTHENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
FLUORENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
HEXACHLOROBENZENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
HEXACHLOROBUTADIENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
HEXACHLOROCYCLOPENTADIENE	10	ug/L	<10.0		<10.0	|UJl	<10.0		<9.9		<10.0	|UJl	<10.0		<9.9		<10.0	|UJl	<10.0	
HEXACHLOROETHANE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
INDENO(1,2,3-C,D)PYRENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
ISOPHORONE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
N-NITROSODI-N-PROPYLAMINE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
N-NITROSODIPHENYLAMINE	10	ug/L	<10.0		--		--		<9.9		--		--		<9.9		--		--	
NAPHTHALENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
NITROBENZENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
PENTACHLOROPHENOL	25	ug/L	<25.0	|UJsc	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJs	<25.0	|UJs
PHENANTHRENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	
PHENOL	10	ug/L	<10.0	|UJlsc	<10.0	|UJls	<10.0	|Rl	<9.9	|UJs	<10.0	|UJls	<10.0	|Rl	<9.9	|UJs	<10.0	|UJls	<10.0	|Rl
PYRENE	10	ug/L	<10.0		<10.0		<10.0		<9.9		<10.0		<10.0		<9.9		<10.0		<10.0	

APPENDIX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

Analyte	CRDL	Units	UCD2-032 GWGW0790 02/04/99	UCD2-032 GWGW0859 05/06/99	UCD2-032 GWGW0924 08/09/99	UCD2-035 GWGW0843 05/04/99	UCD2-036 GWGW0793 02/01/99	UCD2-036 GWGW0852 05/05/99	UCD2-036 GWGW0909 08/03/99	UCD2-036 GWGW0910 08/03/99 DUPLICATE	UCD2-037 GWGW0799 02/01/99
1,2,4-TRICHLOROBENZENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
1,4-DICHLOROBENZENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
2,4,5-TRICHLOROPHENOL	10	ug/L	<25.0 |UJs	<25.0 |UJcs	<25.2 |UJs	<25.0 |UJcs	<24.8 |UJsc	<25.0 |UJcs	<25.0 |UJs	<25.0 |UJs	<25.0 |UJsc
2,4,6-TRICHLOROPHENOL	10	ug/L	<10.0 |UJs	<10.0 |UJcs	<10.1 |UJs	<10.0 |UJcs	<9.9 |UJsc	<10.0 |UJcs	<10.0 |UJs	<10.0 |UJs	<10.0 |UJsc
2,4-DICHLOROPHENOL	10	ug/L	<10.0 |UJs	<10.0 |UJcs	<10.1 |UJs	<10.0 |UJcs	<9.9 |UJsc	<10.0 |UJcs	<10.0 |UJs	<10.0 |UJs	<10.0 |UJsc
2,4-DIMETHYLPHENOL	10	ug/L	<10.0 |UJs	<10.0 |UJcs	<10.1 |UJs	<10.0 |UJcs	<9.9 |UJsc	<10.0 |UJcs	<10.0 |UJs	<10.0 |UJs	<10.0 |UJsc
2,4-DINITROPHENOL	25	ug/L	<25.0 |UJs	<25.0 |UJcs	<25.2 |UJs	<25.0 |UJcs	<24.8 |UJsc	<25.0 |UJcs	<25.0 |UJs	<25.0 |UJs	<25.0 |UJsc
2,4-DINITROTOLUENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
2,6-DINITROTOLUENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
2-2'-OXYBIS(1-CHLOROPROPANE)	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
2-CHLORONAPHTHALENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
2-CHLOROPHENOL	10	ug/L	<10.0 |UJs	<10.0 |UJcs	<10.1 |UJs	<10.0 |UJcs	<9.9 |UJsc	<10.0 |UJcs	<10.0 |UJs	<10.0 |UJs	<10.0 |UJsc
2-METHYLNAPHTHALENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
2-METHYLPHENOL	10	ug/L	<10.0 |UJs	<10.0 |UJcs	<10.1 |UJs	<10.0 |UJcs	<9.9 |UJsc	<10.0 |UJcs	<10.0 |UJs	<10.0 |UJs	<10.0 |UJsc
2-NITROANILINE	25	ug/L	<25.0	<25.0 |UJc	<25.2	<25.0 |UJc	<24.8 |UJc	<25.0 |UJc	<25.0	<25.0	<25.0 |UJc
2-NITROPHENOL	10	ug/L	<10.0 |UJs	<10.0 |UJcs	<10.1 |UJs	<10.0 |UJcs	<9.9 |UJsc	<10.0 |UJcs	<10.0 |UJs	<10.0 |UJs	<10.0 |UJsc
3,3'-DICHLOROBENZIDINE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
3-NITROANILINE	25	ug/L	<25.0	<25.0 |UJc	<25.2	<25.0 |UJc	<24.8 |UJc	<25.0 |UJc	<25.0	<25.0	<25.0 |UJc
4,6-DINITRO-2-METHYLPHENOL	25	ug/L	<25.0 |UJs	<25.0 |UJcs	<25.2 |UJs	<25.0 |UJcs	<24.8 |UJsc	<25.0 |UJcs	<25.0 |UJs	<25.0 |UJs	<25.0 |UJsc
4-BROMOPHENYL-PHENYLETHER	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
4-CHLORO-3-METHYLPHENOL	10	ug/L	<10.0 |UJs	<10.0 |UJcs	<10.1 |UJs	<10.0 |UJcs	<9.9 |UJsc	<10.0 |UJcs	<10.0 |UJs	<10.0 |UJs	<10.0 |UJsc
4-CHLOROANILINE	10	ug/L	<25.0	<25.0 |UJc	<25.2	<25.0 |UJc	<19.8 |UJc	<25.0 |UJc	<25.0 |UJl	<25.0 |UJl	<20.0 |UJc
4-CHLOROPHENYL-PHENYLETHER	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
3/4-METHYLPHENOL	10	ug/L	<10.0 |UJs	<10.0 |UJc	<10.1 |UJs	<10.0 |Rc	<9.9 |UJsc	<10.0 |UJc	<10.0 |UJs	<10.0 |UJs	<10.0 |UJsc
4-NITROANILINE	25	ug/L	<25.0	<25.0 |UJc	<25.2	<25.0 |UJc	<24.8 |UJc	<25.0 |UJc	<25.0	<25.0	<25.0 |UJc
4-NITROPHENOL	25	ug/L	<25.0 |UJs	<25.0 |RI	<25.2 |UJls	<25.0 |RI	<24.8 |RI	<25.0 |RI	<25.0 |RI	<25.0 |RI	<25.0 |RI
ACENAPHTHENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
ACENAPHTHYLENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
ANTHRACENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BENZO(A)ANTHRACENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BENZO(A)PYRENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BENZO(B)FLUORANTHENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BENZO(G,H,I)PERYLENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BENZO(K)FLUORANTHENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BIS(2-CHLOROETHOXY)METHANE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BIS(2-CHLOROETHYL) ETHER	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BIS(2-ETHYLHEXYL)PHTHALATE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
BUTYLBENZYLPHTHALATE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
CARBAZOLE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
CHRYSENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
DI-N-BUTYL PHTHALATE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
DI-N-OCTYL PHTHALATE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
DIBENZ(A,H)ANTHRACENE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
DIBENZOFURAN	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc
DIETHYL PHTHALATE	10	ug/L	<10.0	<10.0 |UJc	<10.1	<10.0 |UJc	<9.9 |UJc	<10.0 |UJc	<10.0	<10.0	<10.0 |UJc

APP .X B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD2-032		UCD2-032		UCD2-032		UCD2-035		UCD2-036		UCD2-036		UCD2-036		UCD2-036		UCD2-037	
		Sample ID	GWGW0790		GWGW0859		GWGW0924		GWGW0843		GWGW0793		GWGW0852		GWGW0909		GWGW0910		GWGW0799	
		Date	02/04/99		05/06/99		08/09/99		05/04/99		02/01/99		05/05/99		08/03/99		08/03/99		02/01/99	
		QA															DUPLICATE			
Analyte	CRDL	Units																		
DIMETHYL PHTHALATE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
DIPHENYLAMINE	10	ug/L	--		--		<10.1		--		--		--		<10.0		<10.0		--	
FLUORANTHENE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
FLUORENE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
HEXACHLOROBENZENE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
HEXACHLOROBUTADIENE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
HEXACHLOROCYCLOPENTADIENE	10	ug/L	<10.0		<10.0	|UJcl	<10.1	|UJl	<10.0	|UJcl	<9.9	|UJc	<10.0	|UJcl	<10.0		<10.0		<10.0	|UJc
HEXACHLOROETHANE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
INDENO(1,2,3-C,D)PYRENE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
ISOPHORONE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
N-NITROSODI-N-PROPYLAMINE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
N-NITROSODIPHENYLAMINE	10	ug/L	<10.0		<10.0	|UJc	--		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	--		--		<10.0	|UJc
NAPHTHALENE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
NITROBENZENE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
PENTACHLOROPHENOL	25	ug/L	<25.0	|UJs	<25.0	|UJcs	<25.2	|UJs	<25.0	|UJcs	<24.8	|UJsc	<25.0	|UJcs	<25.0	|UJs	<25.0	|UJs	<25.0	|UJsc
PHENANTHRENE	10	ug/L	<10.0		<10.0	|UJc	<10.1		<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc
PHENOL	10	ug/L	<10.0	|UJs	<10.0	|RI	<10.1		<10.0	|RI	<9.9	|UJlsc	<10.0	|RI	<10.0	|RI	<10.0	|RI	<10.0	|UJlc
PYRENE	10	ug/L	<10.0		<10.0	|UJc	<10.1	|UJls	<10.0	|UJc	<9.9	|UJc	<10.0	|UJc	<10.0		<10.0		<10.0	|UJc

APPENDIX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD2-037		UCD2-037		UCD2-037		UCD2-038		UCD2-038		UCD2-038		UCD2-039		UCD2-039		UCD2-039	
		Sample ID	GWGW0844		GWGW0845		GWGW0911		GWGW0792		GWGW0846		GWGW0921		GWGW0794		GWGW0853		GWGW0922	
		Date	05/04/99		05/04/99		08/03/99		02/03/99		05/04/99		08/05/99		02/02/99		05/05/99		08/05/99	
		QA			DUPLICATE															
Analyte	CRDL	Units																		
1,2,4-TRICHLOROBENZENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
1,4-DICHLOROBENZENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
2,4,5-TRICHLOROPHENOL	10	ug/L	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJc	<25.0	|UJcs	<24.8	|UJs	<24.8	|UJsc	<25.0	|UJcs	<24.8	|UJs
2,4,6-TRICHLOROPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJc	<10.0	|UJcs	<9.9	|UJs	<9.9	|UJsc	<10.0	|UJcs	<9.9	|UJs
2,4-DICHLOROPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJc	<10.0	|UJcs	<9.9	|UJs	<9.9	|UJsc	<10.0	|UJcs	<9.9	|UJs
2,4-DIMETHYLPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJc	<10.0	|UJcs	<9.9	|UJs	<9.9	|UJsc	<10.0	|UJcs	<9.9	|UJs
2,4-DINITROPHENOL	25	ug/L	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJc	<25.0	|UJcs	<24.8	|UJs	<24.8	|UJsc	<25.0	|UJcs	<24.8	|UJs
2,4-DINITROTOLUENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
2,6-DINITROTOLUENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
2-2'-OXYBIS(1-CHLOROPROPANE)	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
2-CHLORONAPHTHALENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
2-CHLOROPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJc	<10.0	|UJcs	<9.9	|UJs	<9.9	|UJsc	<10.0	|UJcs	<9.9	|UJs
2-METHYLNAPHTHALENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
2-METHYLPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJc	<10.0	|UJcs	<9.9	|UJs	<9.9	|UJsc	<10.0	|UJcs	<9.9	|UJs
2-NITROANILINE	25	ug/L	<25.0	|UJc	<25.0	|UJc	<25.0		<24.8	|UJc	<25.0	|UJc	<24.8		<24.8	|UJc	<25.0	|UJc	<24.8	
2-NITROPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJc	<10.0	|UJcs	<9.9	|UJs	<9.9	|UJsc	<10.0	|UJcs	<9.9	|UJs
3,3'-DICHLOROBENZIDINE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
3-NITROANILINE	25	ug/L	<25.0	|UJc	<25.0	|UJc	<25.0		<24.8	|UJc	<25.0	|UJc	<24.8		<24.8	|UJc	<25.0	|UJc	<24.8	
4,6-DINITRO-2-METHYLPHENOL	25	ug/L	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJc	<25.0	|UJcs	<24.8	|UJs	<24.8	|UJsc	<25.0	|UJcs	<24.8	|UJs
4-BROMOPHENYL-PHENYLETHER	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
4-CHLORO-3-METHYLPHENOL	10	ug/L	<10.0	|UJcs	<10.0	|UJcs	<10.0	|UJs	<9.9	|UJc	<10.0	|UJcs	<9.9	|UJs	<9.9	|UJsc	<10.0	|UJcs	<9.9	|UJs
4-CHLOROANILINE	10	ug/L	<25.0	|UJc	<25.0	|UJc	<25.0	|UJl	<19.8	|UJc	<25.0	|UJc	<24.8		<19.8	|UJc	<25.0	|UJc	<24.8	
4-CHLOROPHENYL-PHENYLETHER	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
3/4-METHYLPHENOL	10	ug/L	<10.0	|Rc	<10.0	|Rc	<10.0	|UJs	<9.9	|UJc	<10.0	|Rc	<9.9	|UJs	<9.9	|UJsc	<10.0	|UJc	<9.9	|UJs
4-NITROANILINE	25	ug/L	<25.0	|UJc	<25.0	|UJc	<25.0		<24.8	|UJc	<25.0	|UJc	<24.8		<24.8	|UJc	<25.0	|UJc	<24.8	
4-NITROPHENOL	25	ug/L	<25.0	|RI	<25.0	|RI	<25.0	|RI	<24.8	|RI	<25.0	|RI	<24.8	|UJls	<24.8	|RI	<25.0	|RI	<24.8	|UJs
ACENAPHTHENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
ACENAPHTHYLENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
ANTHRACENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BENZO(A)ANTHRACENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BENZO(A)PYRENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BENZO(B)FLUORANTHENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BENZO(G,H,I)PERYLENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BENZO(K)FLUORANTHENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BIS(2-CHLOROETHOXY)METHANE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BIS(2-CHLOROETHYL) ETHER	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BIS(2-ETHYLHEXYL)PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
BUTYLBENZYLPHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
CARBAZOLE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
CHRYSENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
DI-N-BUTYL PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
DI-N-OCTYL PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
DIBENZ(A,H)ANTHRACENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
DIBENZOFURAN	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
DIETHYL PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	

APP ,X B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD2-037		UCD2-037		UCD2-037		UCD2-038		UCD2-038		UCD2-038		UCD2-039		UCD2-039		UCD2-039	
		Sample ID	GWGW0844		GWGW0845		GWGW0911		GWGW0792		GWGW0846		GWGW0921		GWGW0794		GWGW0853		GWGW0922	
		Date	05/04/99		05/04/99		08/03/99		02/03/99		05/04/99		08/05/99		02/02/99		05/05/99		08/05/99	
		QA			DUPLICATE															
Analyte	CRDL	Units																		
DIMETHYL PHTHALATE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
DIPHENYLAMINE	10	ug/L	--		--		<10.0		--		--		<9.9		--		--		<9.9	
FLUORANTHENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
FLUORENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
HEXACHLOROBENZENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
HEXACHLOROBUTADIENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
HEXACHLOROCYCLOPENTADIENE	10	ug/L	<10.0	|UJcl	<10.0	|UJcl	<10.0		<9.9	|UJc	<10.0	|UJcl	<9.9		<9.9	|UJc	<10.0	|UJcl	<9.9	
HEXACHLOROETHANE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
INDENO(1,2,3-C,D)PYRENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
ISOPHORONE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
N-NITROSODI-N-PROPYLAMINE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
N-NITROSODIPHENYLAMINE	10	ug/L	<10.0	|UJc	<10.0	|UJc	--		<9.9	|UJc	<10.0	|UJc	--		<9.9	|UJc	<10.0	|UJc	--	
NAPHTHALENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
NITROBENZENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
PENTACHLOROPHENOL	25	ug/L	<25.0	|UJcs	<25.0	|UJcs	<25.0	|UJs	<24.8	|UJc	<25.0	|UJcs	<24.8	|UJs	<24.8	|UJsc	<25.0	|UJcs	<24.8	|UJs
PHENANTHRENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	
PHENOL	10	ug/L	<10.0	|RI	<10.0	|RI	<10.0	|RI	<9.9	|UJlc	<10.0	|RI	<9.9	|UJls	<9.9	|UJlsc	<10.0	|RI	<9.9	|UJls
PYRENE	10	ug/L	<10.0	|UJc	<10.0	|UJc	<10.0		<9.9	|UJc	<10.0	|UJc	<9.9		<9.9	|UJc	<10.0	|UJc	<9.9	

APPENDIX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD2-040		UCD2-040		UCD2-040		UCD4-041		UCD4-041		UCD4-041		UCD4-042		UCD4-042		UCD4-042	
		Sample ID	GWGW0789		GWGW0847		GWGW0905		GWGW0810		GWGW0869		GWGW0927		GWGW0811		GWGW0872		GWGW0873	
		Date	02/04/99		05/04/99		08/02/99		02/11/99		05/12/99		08/04/99		02/04/99		05/12/99		05/12/99	
		QA																	DUPLICATE	
Analyte	CRDL	Units																		
1,2,4-TRICHLOROBENZENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
1,4-DICHLOROBENZENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
2,4,5-TRICHLOROPHENOL	10	ug/L	<24.8	UJs	<25.0	UJcs	<25.0	UJs	<24.8	UJs	<25.0	UJcs	<24.8	UJs	<24.8	UJs	<25.0	UJcs	<25.0	UJcs
2,4,6-TRICHLOROPHENOL	10	ug/L	<9.9	UJs	<10.0	UJcs	<10.0	UJs	<9.9	UJs	<10.0	UJcs	<9.9	UJs	<9.9	UJs	<10.0	UJcs	<10.0	UJcs
2,4-DICHLOROPHENOL	10	ug/L	<9.9	UJs	<10.0	UJcs	<10.0	UJs	<9.9	UJs	<10.0	UJcs	<9.9	UJs	<9.9	UJs	<10.0	UJcs	<10.0	UJcs
2,4-DIMETHYLPHENOL	10	ug/L	<9.9	UJs	<10.0	UJcs	<10.0	UJs	<9.9	UJs	<10.0	UJcs	<9.9	UJs	<9.9	UJs	<10.0	UJcs	<10.0	UJcs
2,4-DINITROPHENOL	25	ug/L	<24.8	UJs	<25.0	UJcs	<25.0	UJs	<24.8	UJs	<25.0	UJcs	<24.8	UJs	<24.8	UJs	<25.0	UJcs	<25.0	UJcs
2,4-DINITROTOLUENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
2,6-DINITROTOLUENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
2-2'-OXYBIS(1-CHLOROPROPANE)	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
2-CHLORONAPHTHALENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
2-CHLOROPHENOL	10	ug/L	<9.9	UJs	<10.0	UJcs	<10.0	UJs	<9.9	UJs	<10.0	UJcs	<9.9	UJs	<9.9	UJs	<10.0	UJcs	<10.0	UJcs
2-METHYLNAPHTHALENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
2-METHYLPHENOL	10	ug/L	<9.9	UJs	<10.0	UJcs	<10.0	UJs	<9.9	UJs	<10.0	UJcs	<9.9	UJs	<9.9	UJs	<10.0	UJcs	<10.0	UJcs
2-NITROANILINE	25	ug/L	<24.8		<25.0	UJc	<25.0		<24.8		<25.0	UJc	<24.8		<24.8		<25.0	UJc	<25.0	UJc
2-NITROPHENOL	10	ug/L	<9.9	UJs	<10.0	UJcs	<10.0	UJs	<9.9	UJs	<10.0	UJcs	<9.9	UJs	<9.9	UJs	<10.0	UJcs	<10.0	UJcs
3,3'-DICHLOROBENZIDINE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
3-NITROANILINE	25	ug/L	<24.8		<25.0	UJc	<25.0		<24.8		<25.0	UJc	<24.8		<24.8		<25.0	UJc	<25.0	UJc
4,6-DINITRO-2-METHYLPHENOL	25	ug/L	<24.8	UJs	<25.0	UJcs	<25.0	UJs	<24.8	UJs	<25.0	UJcs	<24.8	UJs	<24.8	UJs	<25.0	UJcs	<25.0	UJcs
4-BROMOPHENYL-PHENYLETHER	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
4-CHLORO-3-METHYLPHENOL	10	ug/L	<9.9	UJs	<10.0	UJcs	<10.0	UJs	<9.9	UJs	<10.0	UJcs	<9.9	UJs	<9.9	UJs	<10.0	UJcs	<10.0	UJcs
4-CHLOROANILINE	10	ug/L	<24.8		<25.0	UJc	<25.0	UJl	<24.8		<25.0	UJc	<24.8		<24.8		<25.0	UJc	<25.0	UJc
4-CHLOROPHENYL-PHENYLETHER	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
3/4-METHYLPHENOL	10	ug/L	<9.9	UJs	<10.0	UJc	<10.0	UJs	<9.9	UJs	<10.0	UJc	<9.9	UJs	<9.9	UJs	<10.0	UJc	<10.0	UJc
4-NITROANILINE	25	ug/L	<24.8		<25.0	UJlc	<25.0		<24.8		<25.0	UJlc	<24.8		<24.8		<25.0	UJlc	<25.0	UJlc
4-NITROPHENOL	25	ug/L	<24.8	Rl	<25.0	UJlcs	<25.0	UJs	<24.8	UJs	<25.0	UJlcs	<24.8	UJls	<24.8	Rl	<25.0	UJlcs	<25.0	UJlcs
ACENAPHTHENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
ACENAPHTHYLENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
ANTHRACENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BENZO(A)ANTHRACENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BENZO(A)PYRENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BENZO(B)FLUORANTHENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BENZO(G,H,I)PERYLENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BENZO(K)FLUORANTHENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BIS(2-CHLOROETHOXY)METHANE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BIS(2-CHLOROETHYL) ETHER	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BIS(2-ETHYLHEXYL)PHTHALATE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
BUTYLBENZYLPHTHALATE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
CARBAZOLE	10	ug/L	<9.9		<10.0	UJlc	<10.0		<9.9		<10.0	UJlc	<9.9		<9.9		<10.0	UJlc	<10.0	UJlc
CHRYSENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
DI-N-BUTYL PHTHALATE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
DI-N-OCTYL PHTHALATE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
DIBENZ(A,H)ANTHRACENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
DIBENZOFURAN	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
DIETHYL PHTHALATE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc

APPENDIX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD2-040		UCD2-040		UCD2-040		UCD4-041		UCD4-041		UCD4-041		UCD4-042		UCD4-042		UCD4-042	
		Sample ID	GWGW0789		GWGW0847		GWGW0905		GWGW0810		GWGW0869		GWGW0927		GWGW0811		GWGW0872		GWGW0873	
		Date	02/04/99		05/04/99		08/02/99		02/11/99		05/12/99		08/04/99		02/04/99		05/12/99		05/12/99	
		QA																	DUPLICATE	
Analyte	CRDL	Units																		
DIMETHYL PHTHALATE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
DIPHENYLAMINE	10	ug/L	--		--		<10.0		--		--		<9.9		--		--		--	
FLUORANTHENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
FLUORENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
HEXACHLOROBENZENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
HEXACHLOROBUTADIENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
HEXACHLOROCYCLOPENTADIENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
HEXACHLOROETHANE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
INDENO(1,2,3-C,D)PYRENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
ISOPHORONE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
N-NITROSODI-N-PROPYLAMINE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
N-NITROSODIPHENYLAMINE	10	ug/L	<9.9		<10.0	UJc	--		<9.9		<10.0	UJc	--		<9.9		<10.0	UJc	<10.0	UJc
NAPHTHALENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
NITROBENZENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc
PENTACHLOROPHENOL	25	ug/L	<24.8	UJs	<25.0	UJcs	<25.0	UJs	<24.8	UJs	<25.0	UJc	<24.8	UJs	<24.8	UJs	<25.0	UJcs	<25.0	UJcs
PHENANTHRENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJcs	<9.9		<9.9		<10.0	UJc	<10.0	UJc
PHENOL	10	ug/L	<9.9	RI	<10.0	RI	<10.0	RI	<9.9	UJs	<10.0	RI	<9.9	UJls	<9.9	RI	<10.0	RI	<10.0	RI
PYRENE	10	ug/L	<9.9		<10.0	UJc	<10.0		<9.9		<10.0	UJc	<9.9		<9.9		<10.0	UJc	<10.0	UJc

APPENDIX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD4-042		UCD4-043		UCD4-043		UCD4-043		UCD4-043		UCD4-044		UCD4-044		UCD4-044		UCD4-044	
		Sample ID	GWGW0925		GWGW0812		GWGW0813		GWGW0874		GWGW0926		GWGW0877		GWGW0928		GWGW0923		GWGW0956	
		Date	08/10/99		02/04/99		02/04/99		05/12/99		08/10/99		05/10/99		08/04/99		08/04/99		11/01/99	
		QA					DUPLICATE										DUPLICATE			
Analyte	CRDL	Units																		
1,2,4-TRICHLOROBENZENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
1,4-DICHLOROBENZENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
2,4,5-TRICHLOROPHENOL	10	ug/L	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJcs	<25.0	|UJs	<25.0	|UJcs	<25.2	|UJs	<25.2	|UJs	<12.5	|UJs
2,4,6-TRICHLOROPHENOL	10	ug/L	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJcs	<10.0	|UJs	<10.0	|UJcs	<10.1	|UJs	<10.1	|UJs	<5.0	|UJs
2,4-DICHLOROPHENOL	10	ug/L	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJcs	<10.0	|UJs	<10.0	|UJcs	<10.1	|UJs	<10.1	|UJs	<5.0	|UJs
2,4-DIMETHYLPHENOL	10	ug/L	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJcs	<10.0	|UJs	<10.0	|UJcs	<10.1	|UJs	<10.1	|UJs	<5.0	|UJs
2,4-DINITROPHENOL	25	ug/L	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJcs	<25.0	|UJs	<25.0	|UJcs	<25.2	|UJs	<25.2	|UJs	<12.5	|UJls
2,4-DINITROTOLUENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
2,6-DINITROTOLUENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
2-2'-OXYBIS(1-CHLOROPROPANE)	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
2-CHLORONAPHTHALENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
2-CHLOROPHENOL	10	ug/L	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJcs	<10.0	|UJs	<10.0	|UJcs	<10.1	|UJs	<10.1	|UJs	<5.0	|UJs
2-METHYLNAPHTHALENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
2-METHYLPHENOL	10	ug/L	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJcs	<10.0	|UJs	<10.0	|UJcs	<10.1	|UJs	<10.1	|UJs	<5.0	|UJls
2-NITROANILINE	25	ug/L	<25.0		<25.0		<24.8		<25.0	|UJc	<25.0		<25.0	|UJc	<25.2		<25.2		<12.5	|UJl
2-NITROPHENOL	10	ug/L	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJcs	<10.0	|UJs	<10.0	|UJcs	<10.1	|UJs	<10.1	|UJs	<5.0	|UJls
3,3'-DICHLOROBENZIDINE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
3-NITROANILINE	25	ug/L	<25.0		<25.0		<24.8		<25.0	|UJc	<25.0		<25.0	|UJc	<25.2		<25.2		<12.5	
4,6-DINITRO-2-METHYLPHENOL	25	ug/L	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJcs	<25.0	|UJs	<25.0	|UJcs	<25.2	|UJs	<25.2	|UJs	<12.5	|UJs
4-BROMOPHENYL-PHENYLETHER	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
4-CHLORO-3-METHYLPHENOL	10	ug/L	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJcs	<10.0	|UJs	<10.0	|UJcs	<10.1	|UJs	<10.1	|UJs	<5.0	|UJs
4-CHLOROANILINE	10	ug/L	<25.0		<25.0		<24.8		<25.0	|UJc	<25.0		<25.0	|UJc	<25.2		<25.2		<12.5	
4-CHLOROPHENYL-PHENYLETHER	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
3/4-METHYLPHENOL	10	ug/L	<10.0	|UJs	<10.0	|UJs	<9.9	|UJs	<10.0	|UJc	<10.0	|UJs	<10.0	|UJc	<10.1	|UJs	<10.1	|UJs	<5.0	|UJls
4-NITROANILINE	25	ug/L	<25.0		<25.0		<24.8		<25.0	|UJlc	<25.0		<25.0	|UJlc	<25.2		<25.2		<12.5	
4-NITROPHENOL	25	ug/L	<25.0	|UJls	<25.0	|RI	<24.8	|RI	<25.0	|UJlcs	<25.0	|UJls	<25.0	|UJcls	<25.2	|UJls	<25.2	|UJls	<12.5	|RI
ACENAPHTHENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
ACENAPHTHYLENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
ANTHRACENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
BENZO(A)ANTHRACENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
BENZO(A)PYRENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
BENZO(B)FLUORANTHENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
BENZO(G,H,I)PERYLENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
BENZO(K)FLUORANTHENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
BIS(2-CHLOROETHOXY)METHANE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
BIS(2-CHLOROETHYL) ETHER	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	|UJl
BIS(2-ETHYLHEXYL)PHTHALATE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
BUTYLBENZYLPHTHALATE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
CARBAZOLE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJlc	<10.0		<10.0	|UJlc	<10.1		<10.1		<5.0	
CHRYSENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
DI-N-BUTYL PHTHALATE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<0.13	JB|UJrz
DI-N-OCTYL PHTHALATE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<20	|UJr
DIBENZ(A,H)ANTHRACENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
DIBENZOFURAN	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
DIETHYL PHTHALATE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	

AP, IX B
SEMI-VOLATILE ORGANIC COMPOUNDS - GROUNDWATER
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		Location	UCD4-042		UCD4-043		UCD4-043		UCD4-043		UCD4-043		UCD4-044		UCD4-044		UCD4-044		UCD4-044	
		Sample ID	GWGW0925		GWGW0812		GWGW0813		GWGW0874		GWGW0926		GWGW0877		GWGW0928		GWGW0923		GWGW0956	
		Date	08/10/99		02/04/99		02/04/99		05/12/99		08/10/99		05/10/99		08/04/99		08/04/99		11/01/99	
		QA					DUPLICATE										DUPLICATE			
Analyte	CRDL	Units																		
DIMETHYL PHTHALATE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
DIPHENYLAMINE	10	ug/L	<10.0		--		--		--		<10.0		--		<10.1		<10.1		<5.0	
FLUORANTHENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
FLUORENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
HEXACHLOROBENZENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
HEXACHLOROBUTADIENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
HEXACHLOROCYCLOPENTADIENE	10	ug/L	<10.0	|UJl	<10.0		<9.9		<10.0	|UJc	<10.0	|UJl	<10.0	|UJc	<10.1		<10.1		<5.0	
HEXACHLOROETHANE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
INDENO(1,2,3-C,D)PYRENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
ISOPHORONE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
N-NITROSODI-N-PROPYLAMINE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	|UJl
N-NITROSODIPHENYLAMINE	10	ug/L	--		<10.0		<9.9		<10.0	|UJc	--		<10.0	|UJc	--		--		--	
NAPHTHALENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
NITROBENZENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	|UJl
PENTACHLOROPHENOL	25	ug/L	<25.0	|UJs	<25.0	|UJs	<24.8	|UJs	<25.0	|UJcs	<25.0	|UJs	<25.0	|UJcs	<25.2	|UJs	<25.2	|UJs	<12.5	|UJs
PHENANTHRENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	
PHENOL	10	ug/L	<10.0	|UJls	<10.0	|Rl	<9.9	|Rl	<10.0	|Rl	<10.0	|UJls	<10.0	|Rl	<10.1	|UJls	<10.1	|UJls	<5.0	|Rl
PYRENE	10	ug/L	<10.0		<10.0		<9.9		<10.0	|UJc	<10.0		<10.0	|UJc	<10.1		<10.1		<5.0	

APPENDIX B
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		Location	UCD1-004			UCD1-004			UCD1-004			UCD1-004			UCD1-010		
		Sample ID	GWGW0800			GWGW0848			GWGW0849			GWGW0912			GWGW0861		
		Date	02/10/99			05/05/99			05/05/99			08/09/99			05/11/99		
		QA							DUPLICATE								
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	0.00±14.1	U|UJv	10.2	8.62±12.3	U|UJv	15.3	3.14±4.57	U|	8.44	0.00±9.68	U|UJv	8.40	0.919±14.9	U|UJv	14.4
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	14.6±10.6	U|UJv	20.1	14.9±18.4	U|UJv	26.3	10.3±9.25	U|UJv	17.8	4.77±10.8	U|UJv	13.9	2.96±15.5	U|	27.3
BISMUTH-214	10	pCi/L	7.12±6.92	J|Jv	4.78	4.20±4.13	U|UJv	7.53	3.87±6.31	U|UJv	5.30	9.17±4.58	J|	3.83	7.07±8.60	U|UJv	7.78
CARBON-14	20	pCi/L	--			--			--			--			--		
CESIUM-137	10	pCi/L	1.16±3.15	U|UJv	2.47	-0.975±2.23	U|	3.21	2.58±3.37	J|Jv	2.11	0.0378±1.01	U|	1.79	11.1±4.06		3.32
COBALT-60	10	pCi/L	0.0260±1.54	U|	2.75	-0.00499±2.30	U|	3.59	-0.649±1.33	U|	1.97	1.36±1.69	U|UJv	2.04	-0.159±1.95	U|	3.50
GROSS ALPHA	2	pCi/L	12.9±1.88		1.18	1.53±0.488	J|	0.576	1.95±0.517	J|	0.576	3.67±1.21		1.37	6.68±2.02		2.09
GROSS BETA	3	pCi/L	0.912±0.913	U|UJv	1.82	0.342±0.393	U|UJv	0.659	0.427±0.427	U|UJv	0.659	2.40±0.867	J|	1.50	2.02±2.30	U|UJv	3.86
LEAD-210	450	pCi/L	245±237	U|UJv	371	293±239	U|UJv	376	701±600	U|UJv	959	302±188	U|UJv	324	256±235	U|UJv	370
LEAD-212	10	pCi/L	0.195±4.46	U|	4.79	0.00±4.01	U|	7.01	3.29±4.58	U|UJv	4.53	1.35±3.98	U|UJv	3.95	0.00±4.24	U|	7.40
LEAD-214	10	pCi/L	0.00±7.72	U|UJv	5.91	0.00±6.17	U|	7.48	0.00±5.30	U|UJv	4.96	10.7±4.75		4.02	1.98±4.74	U|	7.44
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	29.6±33.3	J|Jv	20.6	26.6±29.4	U|UJv	49.1	32.8±17.5	U|UJv	33.0	3.65±24.3	U|UJv	19.2	40.8±23.4	U|UJv	47.1
RADIUM-226	1	pCi/L	0.207±0.302	U|UJv	0.508	0.437±0.383	J|Jv	0.237	1.06±0.732	|Jv	0.948	1.85±0.862		0.818	--		
SODIUM-22	10	pCi/L	-1.22±1.65	U|	2.68	0.599±2.78	U|UJv	3.30	-1.06±1.31	U|	2.21	-0.291±1.05	U|	1.86	-0.541±2.23	U|	3.36
STRONTIUM-90	1	pCi/L	-0.380±0.284	U|	0.509	-0.252±0.330	U|	0.762	-0.0568±0.317	U|	0.698	-0.0177±0.411	U|	0.916	--		
THALLIUM-208	5	pCi/L	1.03±1.55	U|	2.78	0.516±4.23	U|UJv	4.39	1.72±1.36	U|UJv	2.58	1.04±2.42	U|UJv	1.93	0.864±4.58	U|UJv	4.49
THORIUM-234	200	pCi/L	50.8±129	U|UJv	112	0.00±127	U|	170	263±215	|Jv	136	0.00±142	U|UJv	106	0.00±127	U|	171
TRITIUM	300	pCi/L	-208±149	U|	267	110±114	U|UJv	190	138±115	U|UJv	190	-64.4±142	U|	260	-30.9±101	U|	182
URANIUM-235	25	pCi/L	2.75±11.5	U|	17.3	6.92±13.8	U|	23.6	8.64±8.82	U|UJv	15.7	3.99±13.5	U|UJv	15.0	3.81±13.6	U|	23.0
URANIUM-238	500	pCi/L	50.8±129	U|UJv	112	0.00±127	U|	170	263±215	J|Jv	136	134±142	J|Jv	89.1	0.00±127	U|	171

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		Location	UCD1-011			UCD1-012			UCD1-012			UCD1-012			UCD1-012		
		Sample ID	GWGW0866			GWGW0807			GWGW0808			GWGW0862			GWGW0913		
		Date	05/05/99			02/10/99			02/10/99			05/11/99			08/05/99		
		QA							DUPLICATE								
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	3.50±4.53	U|	8.69	6.83±8.51	U|UJv	10.6	10.2±13.5	U|UJv	19.0	1.80±10.9	U|	14.2	5.29±4.98	U|UJv	9.21
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	1.45±10.1	U|	18.4	-4.58±9.96	U|	16.8	3.75±21.0	U|	37.6	0.0932±16.1	U|	28.0	-4.27±10.3	U|	17.7
BISMUTH-214	10	pCi/L	0.00±5.49	U|	5.55	4.37±5.83	U|UJv	6.29	0.155±9.79	U|	11.1	0.00±9.18	U|UJv	7.93	0.00±3.02	U|	5.44
CARBON-14	20	pCi/L	--			**289±12.8**		10.7	**308±13.2**		10.8	**385±11.0**		7.12	**367±11.5**		8.13
CESIUM-137	10	pCi/L	-0.927±1.34	U|	2.25	-0.350±1.27	U|UJf	2.20	**57.5±8.49**	|Jf	4.42	-0.369±2.10	U|	3.62	-0.122±1.24	U|	2.20
COBALT-60	10	pCi/L	-0.813±1.13	U|	1.93	-0.344±1.40	U|	2.49	2.04±2.67	U|	5.39	-0.260±2.11	U|	3.75	0.288±1.26	U|	2.35
GROSS ALPHA	2	pCi/L	**4.33±1.44**		1.69	**6.05±1.79**		2.27	**6.40±1.83**		2.28	**6.83±2.11**		2.46	**5.59±2.27**		3.07
GROSS BETA	3	pCi/L	**3.65±1.56**	|Jv	2.67	2.87±1.36	|Jv	2.19	2.70±1.27	|Jv	2.05	3.85±2.61	U|UJv	4.30	-0.548±2.41	U|	4.17
LEAD-210	450	pCi/L	-89.2±350	U|	513	68.5±369	U|UJv	342	570±474	U|UJv	741	264±241	U|UJv	378	0.00±32.5	U|	47.8
LEAD-212	10	pCi/L	0.00±2.65	U|	4.83	2.49±4.68	U|UJv	4.88	5.77±8.23	U|UJv	8.70	0.00±4.08	U|	7.15	3.47±3.15	J|Jv	2.80
LEAD-214	10	pCi/L	1.97±4.62	U|	5.51	7.79±5.72	J|Jv	4.77	9.49±10.1	U|UJv	11.1	4.26±5.34	U|UJv	7.03	1.17±5.43	U|UJv	3.51
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	28.5±17.0	U|UJv	35.4	5.14±26.1	U|	31.8	1.73±49.5	U|	52.5	0.993±41.3	U|UJv	35.3	25.9±15.7	U|UJv	31.0
RADIUM-226	1	pCi/L	--			0.290±0.449	U|	0.782	0.343±0.355	U|UJv	0.505	**1.84±0.718**		0.501	0.517±0.413	J|Jv	0.233
SODIUM-22	10	pCi/L	1.26±1.50	U|	2.80	0.221±1.15	U|	2.19	2.75±2.46	U|UJv	5.17	1.19±1.97	U|	3.60	0.237±1.37	U|	2.40
STRONTIUM-90	1	pCi/L	--			0.433±0.307	U|UJv	0.574	0.345±0.356	U|	0.738	-0.0573±0.163	U|	5.34	-0.111±0.25	U|	0.593
THALLIUM-208	5	pCi/L	0.987±1.45	U|	2.72	2.53±1.42	U|UJv	2.74	2.33±5.19	U|UJv	5.30	0.00±2.24	U|	4.23	0.262±2.80	U|UJv	2.72
THORIUM-234	200	pCi/L	50.3±116	U|UJv	133	55.4±62.5	U|UJv	111	115±162	U|UJv	194	0.00±131	U|	170	7.52±40.2	U|	52.5
TRITIUM	300	pCi/L	55.9±113	U|	193	-160±148	U|	262	-260±144	U|	260	61.7±107	U|	182	-133±121	U|	213
URANIUM-235	25	pCi/L	-0.617±8.47	U|	14.6	-3.03±9.52	U|	16.1	-2.04±14.8	U|	25.5	5.64±19.6	U|UJv	23.1	7.64±6.65	U|UJv	11.0
URANIUM-238	500	pCi/L	50.3±116	U|UJv	122	55.4±62.5	U|UJv	111	115±162	U|UJv	175	0.00±131	U|	170	7.52±40.2	U|UJv	29.8

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		Location	UCD1-013			UCD1-013			UCD1-013			UCD1-018			UCD1-018		
		Sample ID	GWGW0801			GWGW0854			GWGW0914			GWGW0809			GWGW0867		
		Date	02/02/99			05/06/99			08/09/99			02/02/99			05/10/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	1.00±7.34	U|	9.95	8.12±4.93	U|UJv	9.70	7.97±4.35	U|UJv	8.17	--			2.91±18.2	U|UJv	12.8
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	0.278±9.04	U|	16.0	-4.19±10.9	U|	18.6	0.0520±8.56	U|	14.8	--			-5.57±14.4	U|	24.2
BISMUTH-214	10	pCi/L	5.92±6.36	U|UJv	6.18	0.00±5.36	U|	6.05	**13.4±5.22**		3.82	--			0.00±4.14	U|	7.30
CARBON-14	20	pCi/L	**1380±28.1**		11.5	**1230±24.9**		9.83	**904±18.5**		8.68	-0.869±5.25	U|	9.10	-0.577±4.18	U|	7.25
CESIUM-137	10	pCi/L	-0.277±1.24	U|	2.15	-0.226±1.29	U|	2.27	0.627±1.08	U|	1.95	--			0.376±1.78	U|	3.12
COBALT-60	10	pCi/L	0.975±1.31	U|	2.61	0.241±1.28	U|	2.41	0.351±1.24	U|	2.26	--			0.269±1.71	U|	3.09
GROSS ALPHA	2	pCi/L	**3.09±1.36**	|Jv	1.92	**5.67±1.42**		1.56	**5.19±1.75**		2.36	--			1.37±0.537	J|	0.672
GROSS BETA	3	pCi/L	**3.65±1.21**		1.89	**4.11±1.33**		2.08	1.06±0.988	U|UJv	1.90	--			0.753±0.617	U|UJv	1.02
LEAD-210	450	pCi/L	168±399	U|UJv	350	295±351	U|UJv	312	0.00±201	U|	311	--			128±481	U|UJv	337
LEAD-212	10	pCi/L	1.99±2.67	U|UJv	4.60	0.579±4.68	U|UJv	4.89	4.65±3.68	J|Jv	3.13	--			0.0412±5.52	U|UJv	4.88
LEAD-214	10	pCi/L	5.92±6.15	U|UJv	6.30	2.84±4.82	U|UJv	5.41	**15.7±5.96**		3.80	--			4.97±3.80	U|UJv	6.51
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	13.9±23.7	U|UJv	27.0	1.61±25.4	U|UJv	20.7	18.7±13.5	U|UJv	26.1	--			2.40±60.3	U|UJv	27.3
RADIUM-226	1	pCi/L	0.163±0.392	U|	0.760	0.884±0.568	J|Jv	0.593	**5.64±1.43**		0.935	--			**1.34±0.618**	|Jv	0.495
SODIUM-22	10	pCi/L	0.286±1.58	U|	2.90	-0.765±1.35	U|	1.96	0.872±1.09	U|	2.10	--			2.67±1.79	U|UJv	3.53
STRONTIUM-90	1	pCi/L	-0.0728±0.246	U|	0.591	-0.0436±0.214	U|	0.461	-0.0160±0.312	U|	0.704	--			-0.0798±0.235	U|	0.481
THALLIUM-208	5	pCi/L	1.61±2.46	U|UJv	2.55	0.954±2.67	U|UJv	3.11	1.57±1.25	U|UJv	2.13	--			1.80±4.37	U|UJv	3.27
THORIUM-234	200	pCi/L	0.00±148	U|UJv	109	114±75.6	U|UJv	122	0.654±79.4	U|	95.1	--			133±81.5	U|UJv	136
TRITIUM	300	pCi/L	**14700±325**		219	**8410±331**		188	**9110±448**		260	--			-83.9±147	U|	268
URANIUM-235	25	pCi/L	4.50±9.58	U|	16.6	1.01±8.98	U|	14.1	7.88±13.1	U|UJv	13.9	--			4.63±10.9	U|	18.6
URANIUM-238	500	pCi/L	0.00±148	U|UJv	99.1	114±75.6	U|UJv	122	0.654±79.4	U|	84.5	--			133±81.5	U|UJv	136

APP[illegible] B
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		Location	UCD1-019			UCD1-020			UCD1-021			UCD1-022			UCD1-023		
		Sample ID	GWGW0863			GWGW0864			GWGW0870			GWGW0871			GWGW0868		
		Date	05/11/99			05/11/99			05/10/99			05/04/99			05/06/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	5.41±4.66	U|UJv	8.96	10.2±7.26	U|UJv	13.2	5.04±10.7	U|UJv	13.3	0.143±5.27	U|	9.31	5.23±5.24	U|UJv	9.80
AMERICIUM-241	1	pCi/L	--			--			0.0599±0.340	U|	1.00	0.0563±0.0972	U|	0.192	--		
BISMUTH-212	70	pCi/L	1.43±8.66	U|	15.7	6.43±14.5	U|	25.7	16.2±12.9	U|UJv	24.8	6.50±9.71	U|	18.4	-2.69±10.6	U|	18.4
BISMUTH-214	10	pCi/L	2.92±2.76	U|UJv	5.14	0.00±3.94	U|	7.24	2.59±5.43	U|UJv	6.64	0.00±6.29	U|	7.71	0.00±5.71	U|UJv	5.28
CARBON-14	20	pCi/L	--			2.68±4.28	U|UJv	7.25	0.285±4.16	U|	7.17	--			19.6±4.83	J|	7.32
CESIUM-137	10	pCi/L	0.869±1.19	U|	2.24	0.861±1.79	U|	3.19	-0.608±1.57	U|	2.76	0.688±1.30	U|	2.43	0.0687±1.32	U|	2.36
COBALT-60	10	pCi/L	0.499±1.32	U|	2.55	0.155±1.88	U|	3.40	-0.0313±1.55	U|	2.88	0.156±1.54	U|	2.88	0.227±1.40	U|	2.63
GROSS ALPHA	2	pCi/L	**9.75±1.81**		1.73	1.20±0.508	J|	0.672	**3.97±1.27**		1.52	**2.99±1.17**		1.51	0.460±0.597	U|	1.14
GROSS BETA	3	pCi/L	1.85±1.33	U|UJv	2.19	0.817±0.564	U|UJv	0.928	1.83±1.36	U|UJv	2.26	1.35±1.24	U|UJv	2.06	0.727±0.784	U|UJv	1.51
LEAD-210	450	pCi/L	422±386	U|UJv	428	275±451	U|UJv	379	0.00±39.2	U|	61.0	387±397	U|UJv	559	607±627	U|UJv	1000
LEAD-212	10	pCi/L	2.96±5.04	U|UJv	4.71	3.87±6.32	U|UJv	4.91	0.00±2.61	U|	4.84	6.44±4.52	J|Jv	3.65	3.80±2.68	U|UJv	4.77
LEAD-214	10	pCi/L	0.00±2.96	U|	5.37	2.63±7.80	U|UJv	6.77	0.00±3.01	U|	5.62	**14.1±5.93**		4.96	2.60±2.88	U|UJv	5.09
PLUTONIUM-241	10	pCi/L	--			--			-1.12±4.61	U|	7.97	1.63±4.02	U|	6.03	--		
POTASSIUM-40	100	pCi/L	13.5±14.9	U|	29.4	35.7±46.0	J|Jv	29.8	17.3±26.5	U|UJv	23.8	34.9±18.1	U|UJv	37.7	0.586±27.4	U|UJv	22.7
RADIUM-226	1	pCi/L	--			**2.31±0.777**		0.184	**2.38±0.832**		0.632	**2.59±0.731**		0.381	0.602±0.506	U|UJv	0.634
SODIUM-22	10	pCi/L	-0.0350±1.30	U|	2.41	-0.820±2.15	U|	3.21	-0.537±1.73	U|	2.92	0.338±1.32	U|	2.56	0.123±1.45	U|	2.69
STRONTIUM-90	1	pCi/L	--			-0.0868±0.251	U|	0.517	0.000878±0.197	U|	0.400	-0.0433±0.345	U|	0.752	-0.289±0.25	U|	0.583
THALLIUM-208	5	pCi/L	1.93±1.43	U|UJv	2.72	3.51±1.96	U|UJv	3.65	1.53±2.96	U|UJv	3.54	0.387±2.00	U|	2.52	2.06±1.47	U|UJv	2.81
THORIUM-234	200	pCi/L	101±72.0	U|UJv	126	0.00±73.9	U|	117	0.00±62.1	U|	64.1	30.6±75.7	U|	135	108±169	U|UJv	147
TRITIUM	300	pCi/L	30.8±105	U|	182	91.1±107	U|UJv	179	-54.8±145	U|	262	97.9±129	U|UJv	218	168±119	U|UJv	193
URANIUM-235	25	pCi/L	1.83±8.37	U|	14.5	3.82±18.6	U|UJv	17.9	8.62±12.8	U|UJv	14.5	13.7±18.8	U|UJv	16.7	4.94±15.8	U|UJv	16.9
URANIUM-238	500	pCi/L	101±72.0	U|UJv	126	0.00±73.9	U|	117	0.00±62.1	U|	64.1	30.6±75.7	U|	135	108±169	U|UJv	147

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		Location	UCD1-024			UCD1-025			UCD1-025			UCD1-025			UCD1-027Z3		
		Sample ID	GWGW0865			GWGW0795			GWGW0836			GWGW0918			GWGW0875		
		Date	05/11/99			02/04/99			05/03/99			08/05/99			05/10/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	0.616±12.2	U|UJv	12.5	--			3.77±17.4	U|UJv	13.5	--			--		
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	9.24±13.6	U|	24.1	--			0.311±14.3	U|	24.6	--			--		
BISMUTH-214	10	pCi/L	3.92±3.37	U|UJv	6.08	--			1.36±8.30	U|UJv	6.33	--			--		
CARBON-14	20	pCi/L	3.20±4.22	U|UJv	7.11	4.72±6.04	U|UJv	10.2	11.2±4.81	J|Jv	7.72	2.31±4.60	U|	7.81	3.87±4.36	U|UJv	7.31
CESIUM-137	10	pCi/L	-0.886±1.72	U|	2.87	--			-0.872±1.88	U|	3.15	--			--		
COBALT-60	10	pCi/L	-0.625±1.97	U|	3.38	--			0.580±1.79	U|	3.27	--			--		
GROSS ALPHA	2	pCi/L	**2.43±1.04**		1.37	--			**2.40±1.06**	|Jv	1.44	--			--		
GROSS BETA	3	pCi/L	1.15±1.40	U|UJv	2.35	--			0.509±1.22	U|	2.07	--			--		
LEAD-210	450	pCi/L	87.6±437	U|UJv	360	--			0.00±258	U|	390	--			--		
LEAD-212	10	pCi/L	1.22±6.10	U|UJv	5.62	--			3.50±5.35	U|UJv	4.55	--			--		
LEAD-214	10	pCi/L	0.987±5.96	U|UJv	5.95	--			5.65±4.12	U|UJv	7.02	--			--		
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	17.1±44.0	U|UJv	29.7	--			0.00±22.0	U|	43.1	--			--		
RADIUM-226	1	pCi/L	0.457±0.461	U|UJv	0.704	--			**1.15±0.568**		0.562	--			--		
SODIUM-22	10	pCi/L	1.42±1.27	U|	3.74	--			0.758±1.76	U|	3.26	--			--		
STRONTIUM-90	1	pCi/L	-0.00214±0.199	U|	0.402	--			-0.552±0.27	U|	0.652	--			--		
THALLIUM-208	5	pCi/L	2.76±4.34	U|UJv	3.57	--			1.10±3.89	U|UJv	4.01	--			--		
THORIUM-234	200	pCi/L	0.912±137	U|UJv	124	--			113±89.7	U|UJv	140	--			--		
TRITIUM	300	pCi/L	61.5±106	U|	181	-58.7±124	U|	230	-236±152	U|	285	-183±122	U|	218	-82.4±144	U|	263
URANIUM-235	25	pCi/L	4.70±10.3	U|	17.7	--			7.76±10.6	U|UJv	18.2	--			--		
URANIUM-238	500	pCi/L	0.912±137	U|UJv	104	--			113±89.7	U|UJv	140	--			--		

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		Location	UCD1-028			UCD1-028			UCD1-028			UCD1-028			UCD1-028		
		Sample ID	GWGW0776			GWGW0784			GWGW0817			GWGW0818			GWGW0825		
		Date	01/05/99			02/11/99			03/02/99			03/02/99			04/01/99		
		QA										DUPLICATE					
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			4.41±4.84	U|UJv	8.96	--			--			--		
AMERICIUM-241	1	pCi/L	--			0.169±0.216	U|UJv	0.322	--			--			--		
BISMUTH-212	70	pCi/L	--			1.48±10.2	U|	17.9	--			--			--		
BISMUTH-214	10	pCi/L	--			**34.5±7.48**		4.35	--			--			--		
CARBON-14	20	pCi/L	-4.60±4.63	U|	8.18	3.50±5.59	U|	9.47	9.74±4.93	J|Jvf	7.97	-0.344±4.51	U|UJf	7.82	-2.48±4.18	U|	7.35
CESIUM-137	10	pCi/L	--			-1.29±1.36	U|	2.19	--			--			--		
COBALT-60	10	pCi/L	--			0.405±1.45	U|	2.69	--			--			--		
GROSS ALPHA	2	pCi/L	--			**12.1±2.11**		2.10	--			--			--		
GROSS BETA	3	pCi/L	--			**4.95±1.39**		2.15	--			--			--		
LEAD-210	450	pCi/L	--			62.2±249	U|	379	--			--			--		
LEAD-212	10	pCi/L	--			0.00±2.57	U|	4.57	--			--			--		
LEAD-214	10	pCi/L	--			**35.4±6.53**		4.28	--			--			--		
PLUTONIUM-241	10	pCi/L	--			-0.895±3.48	U|	5.96	--			--			--		
POTASSIUM-40	100	pCi/L	--			28.3±16.9	U|UJv	33.8	--			--			--		
RADIUM-226	1	pCi/L	--			0.474±0.440	U|UJv	0.629	--			--			--		
SODIUM-22	10	pCi/L	--			1.09±1.13	U|	2.61	--			--			--		
STRONTIUM-90	1	pCi/L	--			0.0801±0.304	U|	0.664	--			--			--		
THALLIUM-208	5	pCi/L	--			0.0762±2.39	U|	2.79	--			--			--		
THORIUM-234	200	pCi/L	--			14.1±113	U|UJv	117	--			--			--		
TRITIUM	300	pCi/L	-319±149	U|	299	-41.1±155	U|	269	-183±120	U|	212	-249±118	U|	210	-140±143	U|	268
URANIUM-235	25	pCi/L	--			6.62±10.4	U|UJv	16.4	--			--			--		
URANIUM-238	500	pCi/L	--			14.1±113	U|UJv	105	--			--			--		

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		Location	UCD1-028			UCD1-028			UCD1-028			UCD1-028			UCD1-028		
		Sample ID	GWGW0837			GWGW0886			GWGW0898			GWGW0901			GWGW0936		
		Date	05/03/99			06/02/99			07/07/99			08/02/99			09/01/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	5.71±5.38	U|UJv	9.27	--			--			4.64±7.94	U|UJv	7.51	--		
AMERICIUM-241	1	pCi/L	0.0431±0.060	U|UJv	0.0647	--			--			0.00±0.00	U|	0.159	--		
BISMUTH-212	70	pCi/L	6.33±10.7	U|	19.7	--			--			-0.643±8.31	U|	14.4	--		
BISMUTH-214	10	pCi/L	0.00±2.69	U|	5.26	--			--			**14.6±4.66**		3.20	--		
CARBON-14	20	pCi/L	0.00±4.35	U|	7.51	2.12±4.63	U|	7.89	5.12±4.13	U|UJv	6.86	5.79±6.02	U|UJv	10.1	3.17±5.07	U|	8.58
CESIUM-137	10	pCi/L	-0.441±1.30	U|	2.23	--			--			0.0904±1.09	U|	1.91	--		
COBALT-60	10	pCi/L	-0.00612±1.15	U|	2.16	--			--			2.09±1.32	U|UJv	2.28	--		
GROSS ALPHA	2	pCi/L	**2.20±1.08**	|Jv	1.52	--			--			**3.73±1.31**		1.63	--		
GROSS BETA	3	pCi/L	1.90±1.35	U|UJv	2.23	--			--			1.72±1.42	U|UJv	2.36	--		
LEAD-210	450	pCi/L	445±336	J|Jv	430	--			--			232±253	U|UJv	389	--		
LEAD-212	10	pCi/L	0.626±4.78	U|UJv	4.56	--			--			0.00±2.11	U|	3.70	--		
LEAD-214	10	pCi/L	4.87±2.79	U|UJv	5.10	--			--			6.56±4.91	J|Jv	3.75	--		
PLUTONIUM-241	10	pCi/L	1.86±6.29	U|	8.72	--			--			2.61±4.07	U|	6.87	--		
POTASSIUM-40	100	pCi/L	1.24±20.8	U|	26.6	--			--			18.9±12.9	U|UJv	25.3	--		
RADIUM-226	1	pCi/L	0.619±0.454	J|Jv	0.575	--			--			0.801±0.629	U|UJv	0.828	--		
SODIUM-22	10	pCi/L	0.199±1.44	U|	2.69	--			--			0.223±1.12	U|	2.07	--		
STRONTIUM-90	1	pCi/L	0.0336±0.303	U|	0.637	--			--			-0.0133±0.350	U|	0.782	--		
THALLIUM-208	5	pCi/L	2.21±1.44	U|UJv	2.77	--			--			0.531±2.31	U|UJv	2.22	--		
THORIUM-234	200	pCi/L	0.00±76.7	U|	123	--			--			32.0±97.8	U|UJv	104	--		
TRITIUM	300	pCi/L	-297±150	U|	287	27.3±138	U|	237	-30.7±93.5	U|	167	61.0±133	U|	227	0.00±114	U|	204
URANIUM-235	25	pCi/L	0.492±13.8	U|	15.1	--			--			8.66±11.0	U|UJv	12.8	--		
URANIUM-238	500	pCi/L	0.00±76.7	U|	123	--			--			32.0±97.8	U|UJv	85.4	--		

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		Location	UCD1-028			UCD1-028			UCD1-028			UCD1-034			UCD2-007		
		Sample ID	GWGW0940			GWGW0951			GWGW0974			GWGW0842			GWGW0802		
		Date	10/06/99			11/01/99			12/01/99			05/04/99			02/01/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			3.67±4.80	U|	8.95	--		
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	--			--			--			10.2±10.2	U|UJv	19.4	--		
BISMUTH-214	10	pCi/L	--			--			--			1.63±3.70	U|UJv	4.94	--		
CARBON-14	20	pCi/L	-4.14±4.74	U|	8.49	5.35±5.37	U|UJvd	8.98	-5.95±4.62	U|	8.40	4.93±4.84	U|UJv	8.09	-3.12±4.93	U|	8.67
CESIUM-137	10	pCi/L	--			--			--			0.0903±1.09	U|	1.98	--		
COBALT-60	10	pCi/L	--			--			--			-0.182±1.31	U|	2.39	--		
GROSS ALPHA	2	pCi/L	--			--			--			0.694±0.538	U|UJv	0.860	--		
GROSS BETA	3	pCi/L	--			--			--			0.578±0.589	U|	1.18	--		
LEAD-210	450	pCi/L	--			--			--			329±776	U|UJv	618	--		
LEAD-212	10	pCi/L	--			--			--			0.00±2.76	U|	4.98	--		
LEAD-214	10	pCi/L	--			--			--			1.19±5.65	U|UJv	4.94	--		
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	--			--			--			15.6±14.1	U|UJv	28.3	--		
RADIUM-226	1	pCi/L	--			--			--			**1.95±0.644**		0.387	--		
SODIUM-22	10	pCi/L	--			--			--			-0.0969±1.25	U|	2.31	--		
STRONTIUM-90	1	pCi/L	--			--			--			-0.0317±0.335	U|	0.735	--		
THALLIUM-208	5	pCi/L	--			--			--			0.00±1.46	U|	2.87	--		
THORIUM-234	200	pCi/L	--			--			--			135±87.3	U|UJv	144	--		
TRITIUM	300	pCi/L	55.8±118	U|	204	-177±129	U|	252	-29.6±136	U|	245	-64.0±120	U|	214	-123±113	U|	197
URANIUM-235	25	pCi/L	--			--			--			2.73±8.55	U|	15.0	--		
URANIUM-238	500	pCi/L	--			--			--			135±87.3	U|UJv	144	--		

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		Location	UCD2-007			UCD2-007			UCD2-007			UCD2-007			UCD2-014		
		Sample ID	GWGW0803			GWGW0855			GWGW0915			GWGW0964			GWGW0804		
		Date	02/01/99			05/06/99			08/03/99			11/03/99			02/02/99		
		QA	DUPLICATE														
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			3.74±9.82	U|UJv	9.28	--			--			8.67±11.0	U|	20.5
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	--			8.89±10.3	U|	19.2	--			--			6.74±22.1	U|	39.9
BISMUTH-214	10	pCi/L	--			5.39±5.64	U|UJv	5.46	--			--			10.2±14.6	U|UJv	12.8
CARBON-14	20	pCi/L	-1.67±5.30	U|	9.24	4.51±4.58	U|UJv	7.65	-3.04±5.25	U|	9.29	-3.62±5.16	U|UJd	9.13	**173±9.07**		8.91
CESIUM-137	10	pCi/L	--			1.21±3.05	U|UJv	2.28	--			--			0.323±2.90	U|	5.17
COBALT-60	10	pCi/L	--			1.52±1.22	U|UJv	2.54	--			--			-1.29±3.75	U|	5.67
GROSS ALPHA	2	pCi/L	--			**2.26±0.979**	|Jv	1.33	--			--			**2.13±0.879**		1.01
GROSS BETA	3	pCi/L	--			0.842±0.852	U|UJv	1.64	--			--			2.13±0.824	|Jv	1.45
LEAD-210	450	pCi/L	--			487±1010	U|UJv	608	--			--			309±387	U|UJv	647
LEAD-212	10	pCi/L	--			1.38±3.70	U|UJv	4.94	--			--			0.00±5.21	U|	9.34
LEAD-214	10	pCi/L	--			1.21±5.61	U|UJv	5.24	--			--			0.295±10.7	U|	11.2
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	--			0.00±17.1	U|	35.3	--			--			38.0±63.3	U|UJv	49.9
RADIUM-226	1	pCi/L	--			0.676±0.524	J|Jv	0.623	--			--			0.604±0.560	U|UJv	0.802
SODIUM-22	10	pCi/L	--			-0.516±1.37	U|	2.30	--			--			1.48±2.43	U|	4.93
STRONTIUM-90	1	pCi/L	--			-0.206±0.294	U|	0.663	--			--			0.116±0.321	U|	0.715
THALLIUM-208	5	pCi/L	--			1.98±1.40	U|UJv	2.67	--			--			4.94±5.40	J|Jv	4.43
THORIUM-234	200	pCi/L	--			42.7±105	U|UJv	137	--			--			39.8±186	U|UJv	185
TRITIUM	300	pCi/L	-79.7±114	U|	198	55.4±111	U|	191	-166±123	U|	219	26.4±101	U|	178	**504±126**		197
URANIUM-235	25	pCi/L	--			2.55±13.2	U|	17.0	--			--			15.2±20.6	U|UJv	28.9
URANIUM-238	500	pCi/L	--			42.7±105	U|UJv	118	--			--			39.8±186	U|UJv	185

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		Location	UCD2-014			UCD2-014			UCD2-014			UCD2-014			UCD2-015		
		Sample ID	GWGW0856			GWGW0857			GWGW0916			GWGW0965			GWGW0805		
		Date	05/06/99			05/06/99			08/09/99			11/03/99			02/10/99		
		QA				DUPLICATE											
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	9.85±6.73	U|UJv	12.4	11.0±6.72	U|UJv	12.7	2.37±7.50	U|UJv	7.09	--			3.12±5.37	U|	8.72
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	7.53±13.3	U|	23.7	5.98±15.2	U|	26.1	6.17±6.93	U|UJv	12.9	--			2.72±10.4	U|	18.7
BISMUTH-214	10	pCi/L	5.84±3.59	U|UJv	6.57	4.51±3.93	U|UJv	6.94	0.00±4.95	U|	5.22	--			0.00±4.75	U|	6.17
CARBON-14	20	pCi/L	526±12.9	|Rf	7.40	7.74±4.77	U|Rf	7.82	**413±10.9**		7.07	**581±15.0**	|Jd	9.13	8.80±5.80	U|UJv	9.52
CESIUM-137	10	pCi/L	-1.51±1.66	U|	2.72	-1.73±1.95	U|	3.13	0.00±1.68	U|	3.06	--			1.20±1.29	U|UJv	2.44
COBALT-60	10	pCi/L	-1.85±1.69	U|	2.71	0.895±2.08	U|	3.74	-0.325±1.02	U|	1.80	--			0.647±1.32	U|	2.54
GROSS ALPHA	2	pCi/L	**4.29±1.17**		1.24	**4.37±1.25**		1.42	**3.73±1.24**		1.18	--			**2.12±1.01**	|Jv	1.32
GROSS BETA	3	pCi/L	**3.28±1.15**		1.81	1.17±1.34	U|UJv	2.24	-0.0699±0.8	U|	1.72	--			1.12±0.872	U|UJv	1.70
LEAD-210	450	pCi/L	**881±425**	|Jv	459	290±281	U|UJv	429	0.00±23.4	U|	35.6	--			165±254	U|UJv	394
LEAD-212	10	pCi/L	0.230±5.73	U|UJv	4.48	4.12±7.57	U|UJv	6.33	3.01±1.81	U|UJv	3.18	--			0.00±2.63	U|	4.73
LEAD-214	10	pCi/L	3.37±3.41	U|UJv	5.86	0.00±3.81	U|	6.93	**12.1±4.36**		3.27	--			0.00±6.17	U|	6.45
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	27.1±44.8	U|UJv	30.6	31.3±46.8	U|UJv	34.5	0.00±12.9	U|	26.7	--			28.3±15.6	U|UJv	31.8
RADIUM-226	1	pCi/L	0.505±0.522	U|UJv	0.783	0.632±0.587	U|UJv	0.840	**1.61±0.796**		0.787	--			0.278±0.471	U|	0.835
SODIUM-22	10	pCi/L	-0.488±1.97	U|	3.45	0.518±2.31	U|	3.57	0.386±0.992	U|	1.87	--			-0.703±1.26	U|	2.19
STRONTIUM-90	1	pCi/L	-0.0802±0.2	U|	0.519	-0.0254±0.204	U|	0.437	0.0104±0.36	U|	0.804	--			-0.110±0.244	U|	0.506
THALLIUM-208	5	pCi/L	0.00±1.91	U|	3.60	1.11±4.15	U|UJv	3.88	0.235±2.10	U|UJv	1.92	--			1.35±3.86	U|UJv	2.68
THORIUM-234	200	pCi/L	0.00±90.4	U|	134	0.00±91.8	U|	138	0.956±31.8	U|	35.4	--			84.0±85.5	U|UJv	129
TRITIUM	300	pCi/L	**1810±183**		192	**2040±189**		190	**1770±237**		260	**2280±220**		179	-75.7±150	U|	261
URANIUM-235	25	pCi/L	10.3±9.52	U|UJv	16.5	16.3±19.1	U|UJv	18.7	1.44±6.23	U|	10.8	--			13.4±11.3	U|UJv	18.0
URANIUM-238	500	pCi/L	0.00±90.4	U|	134	0.00±91.8	U|	138	0.956±31.8	U|UJv	29.5	--			84.0±85.5	U|UJv	129

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		Location	UCD2-015			UCD2-015			UCD2-015			UCD2-016			UCD2-016		
		Sample ID	GWGW0850			GWGW0917			GWGW0966			GWGW0797			GWGW0858		
		Date	05/05/99			08/09/99			11/03/99			02/02/99			05/06/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	8.35±4.90	U|UJv	9.60	1.66±6.89	U|UJv	7.22	--			--			6.34±5.86	U|UJv	9.83
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	2.91±10.2	U|	18.6	2.30±14.7	U|UJv	14.0	--			--			-9.00±10.2	U|	16.9
BISMUTH-214	10	pCi/L	4.09±5.30	U|UJv	5.22	**12.5±4.33**		3.35	--			--			3.11±5.47	U|UJv	5.21
CARBON-14	20	pCi/L	-2.05±6.63	U|	11.6	4.76±4.27	U|UJv	7.12	8.02±5.48	U|UJvd	9.03	-2.24±4.99	U|	8.73	5.96±4.69	U|UJv	7.77
CESIUM-137	10	pCi/L	0.577±1.33	U|	2.44	7.58±2.54	J|	1.97	--			--			-0.387±1.55	U|	2.34
COBALT-60	10	pCi/L	-0.344±1.33	U|	2.39	0.304±1.02	U|	1.91	--			--			0.787±1.67	U|	2.78
GROSS ALPHA	2	pCi/L	1.51±0.857	J|Jv	1.30	**5.69±1.36**		1.20	--			--			1.87±0.838	J|Jv	1.06
GROSS BETA	3	pCi/L	0.796±0.840	U|UJv	1.62	0.841±0.876	U|UJv	1.69	--			--			0.914±0.802	U|UJv	1.53
LEAD-210	450	pCi/L	-15.7±602	U|	992	12.2±373	U|UJv	356	--			--			238±222	U|UJv	386
LEAD-212	10	pCi/L	2.95±4.86	U|UJv	5.07	2.79±3.47	U|UJv	3.88	--			--			0.152±4.59	U|UJv	4.13
LEAD-214	10	pCi/L	0.773±5.81	U|UJv	5.23	8.52±4.61	J|	3.59	--			--			0.916±5.00	U|UJv	5.39
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	24.7±16.3	U|UJv	33.0	24.5±13.0	U|UJv	26.0	--			--			0.00±16.5	U|	32.5
RADIUM-226	1	pCi/L	**1.04±0.590**		0.235	**3.30±1.08**		0.242	--			--			0.430±0.505	U|UJv	0.799
SODIUM-22	10	pCi/L	0.416±1.45	U|	2.74	-0.0854±1.08	U|	1.94	--			--			0.0127±1.52	U|	2.41
STRONTIUM-90	1	pCi/L	0.0162±0.27	U|	0.599	0.0960±0.332	U|	0.724	--			--			-0.0275±0.310	U|	0.676
THALLIUM-208	5	pCi/L	0.940±2.06	U|UJv	2.69	0.349±2.02	U|UJv	2.19	--			--			3.19±2.90	J|Jv	2.23
THORIUM-234	200	pCi/L	23.0±138	U|UJv	152	28.3±92.6	U|UJv	86.9	--			--			0.00±79.1	U|	129
TRITIUM	300	pCi/L	82.7±113	U|UJv	190	-96.6±140	U|	260	211±116	J|Jv	179	-155±112	U|	198	83.1±113	U|UJv	191
URANIUM-235	25	pCi/L	6.56±9.16	U|	16.2	0.569±12.7	U|UJv	12.7	--			--			-5.85±9.96	U|	17.0
URANIUM-238	500	pCi/L	23.0±138	U|UJv	152	28.3±92.6	U|UJv	86.9	--			--			0.00±79.1	U|	129

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		Location	UCD2-016			UCD2-016			UCD2-017			UCD2-017			UCD2-017		
		Sample ID	GWGW0907			GWGW0967			GWGW0798			GWGW0851			GWGW0908		
		Date	08/03/99			11/03/99			02/02/99			05/05/99			08/03/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			2.43±4.24	U|	7.80	--		
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	--			--			--			-2.55±10.4	U|	17.7	--		
BISMUTH-214	10	pCi/L	--			--			--			2.81±5.34	U|UJv	4.78	--		
CARBON-14	20	pCi/L	-3.93±5.78	U|	10.3	-0.610±5.24	U|UJd	9.08	-0.515±5.02	U|	8.68	3.46±4.43	U|UJv	7.46	0.0886±5.22	U|	9.03
CESIUM-137	10	pCi/L	--			--			--			-0.303±1.28	U|	2.21	--		
COBALT-60	10	pCi/L	--			--			--			0.172±1.68	U|	2.66	--		
GROSS ALPHA	2	pCi/L	--			--			--			1.53±0.762	J|Jv	1.01	--		
GROSS BETA	3	pCi/L	--			--			--			1.64±0.826	J|Jv	1.51	--		
LEAD-210	450	pCi/L	--			--			--			371±446	J|Jv	316	--		
LEAD-212	10	pCi/L	--			--			--			3.93±4.35	U|UJv	4.60	--		
LEAD-214	10	pCi/L	--			--			--			3.89±2.79	U|UJv	4.98	--		
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	--			--			--			5.38±23.6	U|UJv	21.8	--		
RADIUM-226	1	pCi/L	--			--			--			--			--		
SODIUM-22	10	pCi/L	--			--			--			-0.520±1.26	U|	2.19	--		
STRONTIUM-90	1	pCi/L	--			--			--			--			--		
THALLIUM-208	5	pCi/L	--			--			--			1.99±2.70	U|UJv	2.69	--		
THORIUM-234	200	pCi/L	--			--			--			109±105	U|UJv	114	--		
TRITIUM	300	pCi/L	-160±123	U|	219	26.5±102	U|	179	-118±111	U|	195	55.6±112	U|	191	-135±122	U|	216
URANIUM-235	25	pCi/L	--			--			--			6.15±9.39	U|UJv	14.9	--		
URANIUM-238	500	pCi/L	--			--			--			109±105	J|Jv	95.7	--		

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		Location	UCD2-017			UCD2-026			UCD2-026			UCD2-026			UCD2-026		
		Sample ID	GWGW0968			GWGW0796			GWGW0838			GWGW0919			GWGW0952		
		Date	11/03/99			02/04/99			05/03/99			08/05/99			11/02/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			1.07±14.8	U|UJv	12.8	--			--		
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	--			--			-1.36±14.2	U|	24.5	--			--		
BISMUTH-214	10	pCi/L	--			--			0.473±6.47	U|	7.03	--			--		
CARBON-14	20	pCi/L	-3.36±5.18	U|UJd	9.13	-0.992±6.02	U|	10.5	-2.69±4.23	U|	7.44	2.72±4.45	U|	7.54	-1.32±5.17	U|UJd	9.01
CESIUM-137	10	pCi/L	--			--			-0.326±1.71	U|	2.94	--			--		
COBALT-60	10	pCi/L	--			--			-0.0805±1.86	U|	3.34	--			--		
GROSS ALPHA	2	pCi/L	--			--			**2.23±0.668**		0.766	--			--		
GROSS BETA	3	pCi/L	--			--			1.58±0.694	J|Jv	1.12	--			--		
LEAD-210	450	pCi/L	--			--			144±475	U|UJv	377	--			--		
LEAD-212	10	pCi/L	--			--			1.22±6.62	U|UJv	6.16	--			--		
LEAD-214	10	pCi/L	--			--			0.152±6.84	U|UJv	6.48	--			--		
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	--			--			44.7±46.2	J|Jv	29.1	--			--		
RADIUM-226	1	pCi/L	--			--			0.299±0.423	U|UJv	0.720	--			--		
SODIUM-22	10	pCi/L	--			--			0.459±1.95	U|	3.57	--			--		
STRONTIUM-90	1	pCi/L	--			--			-0.388±0.329	U|	0.744	--			--		
THALLIUM-208	5	pCi/L	--			--			1.31±3.92	U|UJv	3.93	--			--		
THORIUM-234	200	pCi/L	--			--			36.6±104	U|UJv	121	--			--		
TRITIUM	300	pCi/L	79.3±106	U|UJv	179	29.5±132	U|	231	-267±152	U|	287	-39.2±124	U|	214	-88.0±135	U|	250
URANIUM-235	25	pCi/L	--			--			3.97±15.3	U|UJv	18.3	--			--		
URANIUM-238	500	pCi/L	--			--			36.6±104	U|UJv	97.6	--			--		

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		Location	UCD2-026			UCD2-027Z5			UCD2-029			UCD2-029			UCD2-029		
		Sample ID	GWGW0953			GWGW0876			GWGW0777			GWGW0785			GWGW0786		
		Date	11/02/99			05/10/99			01/05/99			02/03/99			02/03/99		
		QA	DUPLICATE												DUPLICATE		
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			0.00±9.37	U|	9.51	8.16±13.2	U|UJv	15.3
AMERICIUM-241	1	pCi/L	--			--			--			0.0794±0.105	U|UJv	0.176	0.0535±0.0785	U|	0.134
BISMUTH-212	70	pCi/L	--			--			--			2.61±10.1	U|	18.0	17.8±17.8	U|UJv	27.5
BISMUTH-214	10	pCi/L	--			--			--			0.00±5.35	U|	6.75	**14.5±8.09**	|Jv	7.54
CARBON-14	20	pCi/L	6.79±5.39	U|Jvd	8.94	7.90±4.58	J|Jv	7.47	-0.260±4.66	U|	8.02	3.88±5.33	U|UJv	8.99	2.56±5.20	U|	8.83
CESIUM-137	10	pCi/L	--			--			--			0.186±1.31	U|	2.32	-0.640±2.09	U|	3.55
COBALT-60	10	pCi/L	--			--			--			0.137±1.36	U|	2.49	1.66±2.18	U|	4.17
GROSS ALPHA	2	pCi/L	--			--			--			**2.41±0.966**		1.23	**3.14±1.06**		1.19
GROSS BETA	3	pCi/L	--			--			--			0.634±0.825	U|UJd	1.61	1.26±0.822	U|UJvd	1.53
LEAD-210	450	pCi/L	--			--			--			357±237	U|UJv	380	130±214	U|UJv	331
LEAD-212	10	pCi/L	--			--			--			3.31±3.80	U|UJv	4.55	0.00±4.03	U|	6.99
LEAD-214	10	pCi/L	--			--			--			8.15±5.26	J|Jv	4.55	8.80±7.90	J|Jv	6.56
PLUTONIUM-241	10	pCi/L	--			--			--			-0.168±2.97	U|	5.07	2.17±3.48	U|	5.86
POTASSIUM-40	100	pCi/L	--			--			--			7.43±20.4	U|UJv	25.4	1.26±36.1	U|UJv	32.1
RADIUM-226	1	pCi/L	--			--			--			0.907±0.583	J|Jv	0.608	0.408±0.620	U|UJv	1.07
SODIUM-22	10	pCi/L	--			--			--			-0.225±1.25	U|	2.22	-0.630±1.88	U|	3.29
STRONTIUM-90	1	pCi/L	--			--			--			-0.206±0.292	U|	0.643	-0.0536±0.277	U|	0.593
THALLIUM-208	5	pCi/L	--			--			--			1.91±2.33	U|UJv	2.88	0.00±2.51	U|	4.64
THORIUM-234	200	pCi/L	--			--			--			62.6±97.8	U|UJv	112	4.06±133	U|	161
TRITIUM	300	pCi/L	-204±126	U|	249	-27.6±148	U|	264	-127±161	U|	298	-195±111	U|	198	-126±115	U|	202
URANIUM-235	25	pCi/L	--			--			--			1.05±9.09	U|	15.7	14.2±15.4	U|UJv	23.4
URANIUM-238	500	pCi/L	--			--			--			62.6±97.8	U|UJv	95.9	4.06±133	U|	146

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		Location	UCD2-029			UCD2-029			UCD2-029			UCD2-029			UCD2-029		
		Sample ID	GWGW0816			GWGW0826			GWGW0839			GWGW0887			GWGW0899		
		Date	03/02/99			04/01/99			05/03/99			06/02/99			07/07/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			0.296±18.5	U|UJv	13.7	--			--		
AMERICIUM-241	1	pCi/L	--			--			-0.000157±0.00	U|	0.0472	--			--		
BISMUTH-212	70	pCi/L	--			--			6.89±15.3	U|	26.5	--			--		
BISMUTH-214	10	pCi/L	--			--			0.00±8.80	U|UJv	7.85	--			--		
CARBON-14	20	pCi/L	7.74±4.69	J|Jv	7.67	0.945±7.24	U|	12.4	12.8±4.93	J|	7.84	13.4±4.90	J|	7.73	14.3±4.37	J|	6.81
CESIUM-137	10	pCi/L	--			--			0.579±1.80	U|	3.12	--			--		
COBALT-60	10	pCi/L	--			--			1.20±1.99	U|	3.65	--			--		
GROSS ALPHA	2	pCi/L	--			--			1.99±0.811	J|	1.01	--			--		
GROSS BETA	3	pCi/L	--			--			0.661±0.608	U|UJv	1.21	--			--		
LEAD-210	450	pCi/L	--			--			384±298	U|UJv	456	--			--		
LEAD-212	10	pCi/L	--			--			4.81±6.91	U|UJv	6.33	--			--		
LEAD-214	10	pCi/L	--			--			5.32±3.72	U|UJv	6.72	--			--		
PLUTONIUM-241	10	pCi/L	--			--			-2.68±5.02	U|	7.05	--			--		
POTASSIUM-40	100	pCi/L	--			--			19.2±52.8	U|UJv	32.5	--			--		
RADIUM-226	1	pCi/L	--			--			0.428±0.360	U|UJv	0.451	--			--		
SODIUM-22	10	pCi/L	--			--			-1.27±2.02	U|	3.32	--			--		
STRONTIUM-90	1	pCi/L	--			--			-0.139±0.316	U|	0.688	--			--		
THALLIUM-208	5	pCi/L	--			--			0.00±2.14	U|	3.94	--			--		
THORIUM-234	200	pCi/L	--			--			0.00±86.7	U|	140	--			--		
TRITIUM	300	pCi/L	-245±118	U|	211	-177±142	U|	260	-58.5±159	U|	283	153±143	U|UJv	238	0.00±93.3	U|	164
URANIUM-235	25	pCi/L	--			--			12.3±19.5	U|UJv	19.3	--			--		
URANIUM-238	500	pCi/L	--			--			0.00±86.7	U|	140	--			--		

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		Location	UCD2-029			UCD2-029			UCD2-029			UCD2-029			UCD2-029		
		Sample ID	GWGW0904			GWGW0937			GWGW0941			GWGW0954			GWGW0975		
		Date	08/02/99			09/01/99			10/06/99			11/01/99			12/01/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	7.94±7.04	U|UJv	8.33	--			--			--			--		
AMERICIUM-241	1	pCi/L	0.0378±0.0758	U|UJv	0.113	--			--			--			--		
BISMUTH-212	70	pCi/L	8.27±8.56	U|UJv	15.8	--			--			--			--		
BISMUTH-214	10	pCi/L	0.00±5.83	U|UJv	5.54	--			--			--			--		
CARBON-14	20	pCi/L	10.7±5.61	J|Jv	9.06	18.5±5.30	J|	8.14	7.01±5.13	U|UJv	8.45	10.1±5.53	J|Jvd	9.01	6.10±5.09	U|UJv	8.45
CESIUM-137	10	pCi/L	0.0443±1.05	U|	1.86	--			--			--			--		
COBALT-60	10	pCi/L	0.461±1.07	U|	2.00	--			--			--			--		
GROSS ALPHA	2	pCi/L	**3.15±1.04**		1.11	--			--			--			--		
GROSS BETA	3	pCi/L	1.05±0.917	U|UJv	1.76	--			--			--			--		
LEAD-210	450	pCi/L	113±320	U|UJv	244	--			--			--			--		
LEAD-212	10	pCi/L	3.19±4.04	J|Jv	3.02	--			--			--			--		
LEAD-214	10	pCi/L	0.00±4.07	U|	5.16	--			--			--			--		
PLUTONIUM-241	10	pCi/L	0.496±4.65	U|	7.94	--			--			--			--		
POTASSIUM-40	100	pCi/L	0.00±13.6	U|	27.0	--			--			--			--		
RADIUM-226	1	pCi/L	**1.29±0.695**	|Jv	0.634	--			--			--			--		
SODIUM-22	10	pCi/L	0.138±1.11	U|	2.03	--			--			--			--		
STRONTIUM-90	1	pCi/L	0.280±0.325	U|	0.675	--			--			--			--		
THALLIUM-208	5	pCi/L	0.239±3.00	U|UJv	2.45	--			--			--			--		
THORIUM-234	200	pCi/L	82.5±85.6	J|Jv	81.3	--			--			--			--		
TRITIUM	300	pCi/L	-23.4±128	U|	222	144±124	U|UJv	203	27.7±115	U|	203	-59.2±138	U|	252	-88.7±132	U|	245
URANIUM-235	25	pCi/L	2.15±7.55	U|	11.8	--			--			--			--		
URANIUM-238	500	pCi/L	82.5±85.6	J|UJpv	81.3	--			--			--			--		

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		Location	UCD2-030			UCD2-030			UCD2-030			UCD2-030			UCD2-030		
		Sample ID	GWGW0779			GWGW0787			GWGW0815			GWGW0827			GWGW0840		
		Date	01/05/99			02/11/99			03/02/99			04/05/99			05/03/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			4.51±5.20	U|	9.74	--			--			10.8±7.60	U|UJv	12.5
AMERICIUM-241	1	pCi/L	--			-0.0117±0.0234	U|	0.257	--			--			0.0153±0.0490	U|	0.119
BISMUTH-212	70	pCi/L	--			9.55±11.6	U|UJv	19.5	--			--			31.3±22.3	J|Jv	24.1
BISMUTH-214	10	pCi/L	--			**24.4±5.80**		4.76	--			--			4.43±9.34	U|UJv	6.99
CARBON-14	20	pCi/L	4.12±4.90	U|UJv	8.23	3.57±5.58	U|	9.44	7.16±4.79	U|UJv	7.88	0.523±4.38	U|UJm	7.53	0.569±4.35	U|	7.48
CESIUM-137	10	pCi/L	--			-0.233±1.41	U|	2.46	--			--			0.0235±1.70	U|	2.98
COBALT-60	10	pCi/L	--			-0.670±1.41	U|	2.47	--			--			2.37±2.95	U|UJv	3.25
GROSS ALPHA	2	pCi/L	--			**13.0±1.90**		0.963	--			--			0.953±0.609	J|Jv	0.936
GROSS BETA	3	pCi/L	--			**3.11±0.869**		1.44	--			--			1.70±0.691	J|Jv	1.27
LEAD-210	450	pCi/L	--			0.00±40.5	U|	59.8	--			--			400±294	U|UJv	456
LEAD-212	10	pCi/L	--			0.292±4.56	U|UJv	4.22	--			--			0.00±3.58	U|	6.25
LEAD-214	10	pCi/L	--			**25.1±7.74**		5.02	--			--			0.00±3.80	U|	6.69
PLUTONIUM-241	10	pCi/L	--			1.24±3.21	U|	5.44	--			--			-1.70±5.36	U|	7.50
POTASSIUM-40	100	pCi/L	--			6.67±28.4	U|UJv	18.9	--			--			0.00±22.3	U|	44.3
RADIUM-226	1	pCi/L	--			0.268±0.454	U|	0.805	--			--			0.428±0.360	U|UJv	0.451
SODIUM-22	10	pCi/L	--			0.0968±1.40	U|	2.60	--			--			-1.61±1.82	U|	3.04
STRONTIUM-90	1	pCi/L	--			0.0339±0.297	U|	0.660	--			--			-0.312±0.295	U|	0.671
THALLIUM-208	5	pCi/L	--			0.0692±1.99	U|	2.61	--			--			2.88±3.65	U|UJv	3.87
THORIUM-234	200	pCi/L	--			0.00±69.4	U|UJv	55.1	--			--			0.00±98.7	U|	144
TRITIUM	300	pCi/L	-225±156	U|	301	-87.6±153	U|	267	-63.0±167	U|	209	-206±140	U|	259	-88.4±159	U|	285
URANIUM-235	25	pCi/L	--			2.41±15.1	U|UJv	16.3	--			--			10.6±20.7	U|UJv	20.8
URANIUM-238	500	pCi/L	--			63.6±69.4	J|Jv	45.2	--			--			0.00±98.7	U|	144

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		Location	UCD2-030			UCD2-030			UCD2-030			UCD2-030			UCD2-030		
		Sample ID	GWGW0888			GWGW0900			GWGW0902			GWGW0938			GWGW0942		
		Date	06/02/99			07/07/99			08/02/99			09/02/99			10/06/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			5.36±3.94	U|UJv	7.35	--			--		
AMERICIUM-241	1	pCi/L	--			--			0.0308±0.0834	U|	0.214	--			--		
BISMUTH-212	70	pCi/L	--			--			5.95±7.93	U|	14.6	--			--		
BISMUTH-214	10	pCi/L	--			--			0.00±4.77	U|	5.00	--			--		
CARBON-14	20	pCi/L	17.6±5.04	J|	7.76	11.2±4.21	J|	6.68	11.8±5.61	J|Jv	9.01	-1.38±4.76	U|	8.32	10.8±5.30	J|Jv	8.52
CESIUM-137	10	pCi/L	--			--			-0.0189±0.956	U|	1.69	--			--		
COBALT-60	10	pCi/L	--			--			0.243±1.16	U|	2.12	--			--		
GROSS ALPHA	2	pCi/L	--			--			**53.5±5.01**		1.61	--			--		
GROSS BETA	3	pCi/L	--			--			**45.9±2.96**		2.12	--			--		
LEAD-210	450	pCi/L	--			--			1.46±495	U|UJv	491	--			--		
LEAD-212	10	pCi/L	--			--			0.00±2.28	U|	4.00	--			--		
LEAD-214	10	pCi/L	--			--			1.37±5.49	U|UJv	4.75	--			--		
PLUTONIUM-241	10	pCi/L	--			--			-0.684±4.78	U|	8.22	--			--		
POTASSIUM-40	100	pCi/L	--			--			25.8±13.3	U|UJv	26.4	--			--		
RADIUM-226	1	pCi/L	--			--			**1.32±0.751**	|Jv	0.817	--			--		
SODIUM-22	10	pCi/L	--			--			-0.667±1.08	U|	1.85	--			--		
STRONTIUM-90	1	pCi/L	--			--			-0.0346±0.350	U|	0.767	--			--		
THALLIUM-208	5	pCi/L	--			--			1.78±1.18	U|UJv	2.20	--			--		
THORIUM-234	200	pCi/L	--			--			25.8±115	U|UJv	121	--			--		
TRITIUM	300	pCi/L	57.3±137	U|UJv	234	0.00±92.9	U|	163	-12.7±128	U|	220	261±133	J|Jv	204	224±131	J|Jv	205
URANIUM-235	25	pCi/L	--			--			3.89±12.0	U|UJv	13.3	--			--		
URANIUM-238	500	pCi/L	--			--			25.8±115	U|UJv	104	--			--		

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		Location	UCD2-030			UCD2-030			UCD2-030			UCD2-031			UCD2-031		
		Sample ID	GWGW0959			GWGW0976			GWGW0977			GWGW0778			GWGW0788		
		Date	11/01/99			12/01/99			12/01/99			01/05/99			02/11/99		
		QA							DUPLICATE								
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			--			3.34±11.5	U|UJv	11.3
AMERICIUM-241	1	pCi/L	--			--			--			--			0.0465±0.105	U|	0.222
BISMUTH-212	70	pCi/L	--			--			--			--			2.26±10.1	U|	17.8
BISMUTH-214	10	pCi/L	--			--			--			--			0.00±6.27	U|	8.69
CARBON-14	20	pCi/L	16.5±5.96	J|Jd	9.41	15.8±5.45	J|	8.49	11.5±5.27	J|Jv	8.42	-4.13±4.58	U|	8.07	0.307±5.63	U|	9.72
CESIUM-137	10	pCi/L	--			--			--			--			-0.501±1.43	U|	2.40
COBALT-60	10	pCi/L	--			--			--			--			0.197±1.33	U|	2.44
GROSS ALPHA	2	pCi/L	--			--			--			--			**24.5±2.6**		1.27
GROSS BETA	3	pCi/L	--			--			--			--			**6.90±1.10**		1.64
LEAD-210	450	pCi/L	--			--			--			--			207±363	U|UJv	381
LEAD-212	10	pCi/L	--			--			--			--			0.00±3.01	U|	4.83
LEAD-214	10	pCi/L	--			--			--			--			**17.9±7.11**		5.16
PLUTONIUM-241	10	pCi/L	--			--			--			--			-1.49±3.31	U|	5.69
POTASSIUM-40	100	pCi/L	--			--			--			--			19.0±17.3	U|UJv	33.3
RADIUM-226	1	pCi/L	--			--			--			--			0.205±0.445	U|	0.823
SODIUM-22	10	pCi/L	--			--			--			--			-0.269±1.51	U|	2.63
STRONTIUM-90	1	pCi/L	--			--			--			--			-0.206±0.216	U|	0.462
THALLIUM-208	5	pCi/L	--			--			--			--			2.54±1.59	U|UJv	2.98
THORIUM-234	200	pCi/L	--			--			--			--			20.5±129	U|UJv	122
TRITIUM	300	pCi/L	0.00±141	U|	251	-58.6±133	U|	243	0.00±138	U|	246	-255±153	U|	299	-83.3±152	U|	266
URANIUM-235	25	pCi/L	--			--			--			--			1.95±10.3	U|	17.6
URANIUM-238	500	pCi/L	--			--			--			--			20.5±129	U|UJv	112

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		Location	UCD2-031			UCD2-031			UCD2-031			UCD2-031			UCD2-031		
		Sample ID	GWGW0819			GWGW0828			GWGW0841			GWGW0889			GWGW0897		
		Date	03/02/99			04/05/99			05/03/99			06/02/99			07/06/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			1.34±7.69	U|UJv	8.61	--			--		
AMERICIUM-241	1	pCi/L	--			--			0.0265±0.0501	U|	0.102	--			--		
BISMUTH-212	70	pCi/L	--			--			-1.40±9.33	U|	16.2	--			--		
BISMUTH-214	10	pCi/L	--			--			3.88±4.62	U|UJv	3.94	--			--		
CARBON-14	20	pCi/L	7.98±7.85	U|UJv	13.1	-0.154±4.37	U|	7.56	-0.899±4.25	U|	7.38	2.37±4.53	U|	7.69	4.67±4.01	U|UJv	6.67
CESIUM-137	10	pCi/L	--			--			-0.463±1.20	U|	2.05	--			--		
COBALT-60	10	pCi/L	--			--			0.953±1.38	U|	2.68	--			--		
GROSS ALPHA	2	pCi/L	--			--			0.794±0.597	U|UJv	0.991	--			--		
GROSS BETA	3	pCi/L	--			--			0.871±0.651	U|UJv	1.28	--			--		
LEAD-210	450	pCi/L	--			--			142±220	U|UJv	344	--			--		
LEAD-212	10	pCi/L	--			--			3.60±5.25	U|UJv	4.78	--			--		
LEAD-214	10	pCi/L	--			--			1.10±4.41	U|UJv	4.87	--			--		
PLUTONIUM-241	10	pCi/L	--			--			-1.53±4.32	U|	6.05	--			--		
POTASSIUM-40	100	pCi/L	--			--			12.8±14.3	U|	27.9	--			--		
RADIUM-226	1	pCi/L	--			--			1.37±0.574		0.169	--			--		
SODIUM-22	10	pCi/L	--			--			-1.02±1.63	U|	2.29	--			--		
STRONTIUM-90	1	pCi/L	--			--			-0.155±0.333	U|	0.727	--			--		
THALLIUM-208	5	pCi/L	--			--			1.98±2.30	U|UJv	2.68	--			--		
THORIUM-234	200	pCi/L	--			--			76.1±119	U|UJv	111	--			--		
TRITIUM	300	pCi/L	-177±119	U|	209	-236±139	U|	260	-265±151	U|	286	139±145	U|UJv	242	0.00±94.2	U|	165
URANIUM-235	25	pCi/L	--			--			3.13±9.48	U|	14.9	--			--		
URANIUM-238	500	pCi/L	--			--			76.1±119	U|UJv	92.4	--			--		

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		Location	UCD2-031			UCD2-031			UCD2-031			UCD2-031			UCD2-031		
		Sample ID	GWGW0903			GWGW0935			GWGW0943			GWGW0960			GWGW0978		
		Date	08/02/99			09/01/99			10/06/99			11/01/99			12/01/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	5.76±8.31	U|UJv	7.96	--			--			--			--		
AMERICIUM-241	1	pCi/L	0.00±0.00	U|	0.136	--			--			--			--		
BISMUTH-212	70	pCi/L	-0.899±8.39	U|	14.7	--			--			--			--		
BISMUTH-214	10	pCi/L	0.00±4.91	U|	5.77	--			--			--			--		
CARBON-14	20	pCi/L	-3.78±4.99	U|	8.89	3.83±5.03	U|UJv	8.47	0.368±4.94	U|	8.53	3.33±5.60	U|UJd	9.49	-2.05±4.78	U|	8.42
CESIUM-137	10	pCi/L	-0.184±1.06	U|	1.85	--			--			--			--		
COBALT-60	10	pCi/L	-0.370±1.23	U|	2.17	--			--			--			--		
GROSS ALPHA	2	pCi/L	1.56±1.03	U|UJv	1.74	--			--			--			--		
GROSS BETA	3	pCi/L	0.453±0.832	U|	1.64	--			--			--			--		
LEAD-210	450	pCi/L	40.9±301	U|	449	--			--			--			--		
LEAD-212	10	pCi/L	0.843±3.67	U|UJv	3.87	--			--			--			--		
LEAD-214	10	pCi/L	12.0±4.94		3.94	--			--			--			--		
PLUTONIUM-241	10	pCi/L	0.734±4.35	U|	7.43	--			--			--			--		
POTASSIUM-40	100	pCi/L	11.0±14.6	U|	27.6	--			--			--			--		
RADIUM-226	1	pCi/L	0.342±0.581	U|	1.03	--			--			--			--		
SODIUM-22	10	pCi/L	-0.601±1.09	U|	1.90	--			--			--			--		
STRONTIUM-90	1	pCi/L	0.0683±0.320	U|	0.708	--			--			--			--		
THALLIUM-208	5	pCi/L	2.00±1.24	U|UJv	2.34	--			--			--			--		
THORIUM-234	200	pCi/L	76.2±128	U|UJv	93.3	--			--			--			--		
TRITIUM	300	pCi/L	-117±126	U|	222	57.5±117	U|	202	82.2±118	U|UJv	200	-147±131	U|	250	0.00±138	U|	246
URANIUM-235	25	pCi/L	2.17±7.37	U|	12.8	--			--			--			--		
URANIUM-238	500	pCi/L	76.2±128	U|UJv	93.3	--			--			--			--		

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		Location	UCD2-032			UCD2-032			UCD2-032			UCD2-032			UCD2-035		
		Sample ID	GWGW0790			GWGW0859			GWGW0924			GWGW0970			GWGW0782		
		Date	02/04/99			05/06/99			08/09/99			11/04/99			01/06/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	2.12±9.61	U|UJv	9.43	4.53±4.93	U|UJv	9.23	0.241±8.16	U|UJv	6.88	--			--		
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	12.2±10.2	U|UJv	19.5	3.12±9.83	U|	17.8	3.94±8.21	U|	14.8	--			--		
BISMUTH-214	10	pCi/L	2.54±5.91	U|UJv	4.59	2.88±2.69	U|UJv	5.00	**10.7±4.63**		3.29	--			--		
CARBON-14	20	pCi/L	1.56±6.12	U|	10.5	3.10±4.58	U|	7.74	0.710±4.24	U|	7.27	6.64±4.99	U|UJv	8.23	-0.617±4.90	U|	8.45
CESIUM-137	10	pCi/L	-0.779±1.24	U|	2.06	1.42±1.25	U|UJv	2.40	-0.657±0.98	U|	1.67	--			--		
COBALT-60	10	pCi/L	0.410±1.43	U|	2.69	-0.798±1.27	U|	2.15	-0.927±1.08	U|	1.80	--			--		
GROSS ALPHA	2	pCi/L	**2.11±0.890**	|Jv	1.24	**2.06±0.890**		1.16	**3.55±1.35**		1.91	--			--		
GROSS BETA	3	pCi/L	2.44±0.673	|Jd	1.13	1.05±0.856	U|UJv	1.63	1.42±0.984	U|UJv	1.86	--			--		
LEAD-210	450	pCi/L	80.4±327	U|UJv	356	189±242	U|UJv	372	181±481	U|	725	--			--		
LEAD-212	10	pCi/L	1.33±4.56	U|UJv	4.83	0.489±3.69	U|	4.80	2.88±3.75	J|Jv	2.83	--			--		
LEAD-214	10	pCi/L	4.25±5.30	U|UJv	5.26	1.83±3.29	U|UJv	5.06	9.16±4.51	J|	3.71	--			--		
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	10.6±22.1	U|	23.2	17.8±16.3	U|UJv	32.1	21.9±12.4	U|UJv	24.7	--			--		
RADIUM-226	1	pCi/L	0.475±0.581	U|UJv	0.953	**1.55±0.825**	|Jv	0.926	0.980±0.716	U|UJv	0.983	--			--		
SODIUM-22	10	pCi/L	0.175±1.39	U|	2.58	-0.405±1.29	U|	2.28	0.517±0.983	U|	1.88	--			--		
STRONTIUM-90	1	pCi/L	0.121±0.307	U|	0.633	-0.191±0.26	U|	0.580	0.152±0.396	U|	0.858	--			--		
THALLIUM-208	5	pCi/L	2.00±2.14	U|UJv	2.72	0.955±2.19	U|UJv	2.72	0.00±1.18	U|	2.25	--			--		
THORIUM-234	200	pCi/L	11.7±81.9	U|UJv	91.6	2.65±90.1	U|	108	7.90±121	U|	145	--			--		
TRITIUM	300	pCi/L	87.9±135	U|	229	83.9±114	U|UJv	193	-161±135	U|	260	106±108	U|UJv	178	-188±155	U|	294
URANIUM-235	25	pCi/L	8.05±9.67	U|UJv	16.9	9.53±10.5	U|UJv	16.6	1.07±11.2	U|	12.8	--			--		
URANIUM-238	500	pCi/L	11.7±81.9	U|UJv	91.6	2.65±90.1	U|	108	7.90±121	U|	135	--			--		

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		Location	UCD2-035			UCD2-035			UCD2-035			UCD2-035			UCD2-035		
		Sample ID	GWGW0791			GWGW0814			GWGW0834			GWGW0843			GWGW0879		
		Date	02/03/99			03/01/99			04/06/99			05/04/99			06/01/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			5.05±4.96	U|UJv	9.55	--		
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	--			--			--			8.92±10.7	U|	20.4	--		
BISMUTH-214	10	pCi/L	--			--			--			2.21±4.84	U|UJv	5.25	--		
CARBON-14	20	pCi/L	0.809±5.11	U|	8.77	2.86±4.58	U|UJv	7.75	4.47±9.20	U|	15.7	3.52±4.43	U|UJv	7.46	2.64±5.78	U|	9.84
CESIUM-137	10	pCi/L	--			--			--			-0.443±1.23	U|	2.14	--		
COBALT-60	10	pCi/L	--			--			--			0.164±1.26	U|	2.43	--		
GROSS ALPHA	2	pCi/L	--			--			--			0.777±0.793	U|UJv	1.52	--		
GROSS BETA	3	pCi/L	--			--			--			0.945±0.680	U|UJv	1.33	--		
LEAD-210	450	pCi/L	--			--			--			299±364	U|UJv	569	--		
LEAD-212	10	pCi/L	--			--			--			0.00±2.79	U|	5.10	--		
LEAD-214	10	pCi/L	--			--			--			2.26±2.92	U|UJv	5.15	--		
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	--			--			--			0.00±17.0	U|	37.3	--		
RADIUM-226	1	pCi/L	--			--			--			**1.16±0.487**		0.143	--		
SODIUM-22	10	pCi/L	--			--			--			0.305±1.54	U|	2.92	--		
STRONTIUM-90	1	pCi/L	--			--			--			-0.0656±0.337	U|	0.739	--		
THALLIUM-208	5	pCi/L	--			--			--			1.09±1.34	U|	2.55	--		
THORIUM-234	200	pCi/L	--			--			--			0.812±59.5	U|	127	--		
TRITIUM	300	pCi/L	-198±108	U|	193	**1170±146**		211	-175±140	U|	257	63.1±124	U|	211	92.5±137	U|	232
URANIUM-235	25	pCi/L	--			--			--			14.9±12.3	U|UJv	16	--		
URANIUM-238	500	pCi/L	--			--			--			0.812±59.5	U|	115	--		

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		Location	UCD2-035			UCD2-035			UCD2-035			UCD2-035			UCD2-035		
		Sample ID	GWGW0880			GWGW0890			GWGW0891			GWGW0920			GWGW0939		
		Date	06/01/99			07/06/99			07/06/99			08/05/99			09/02/99		
		QA	DUPLICATE						DUPLICATE								
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			--			--		
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	--			--			--			--			--		
BISMUTH-214	10	pCi/L	--			--			--			--			--		
CARBON-14	20	pCi/L	3.07±4.54	U|	7.68	4.98±3.97	U|UJv	6.59	1.83±3.90	U|	6.63	5.08±4.83	U|UJv	8.07	0.0877±4.71	U|	8.14
CESIUM-137	10	pCi/L	--			--			--			--			--		
COBALT-60	10	pCi/L	--			--			--			--			--		
GROSS ALPHA	2	pCi/L	--			--			--			--			--		
GROSS BETA	3	pCi/L	--			--			--			--			--		
LEAD-210	450	pCi/L	--			--			--			--			--		
LEAD-212	10	pCi/L	--			--			--			--			--		
LEAD-214	10	pCi/L	--			--			--			--			--		
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	--			--			--			--			--		
RADIUM-226	1	pCi/L	--			--			--			--			--		
SODIUM-22	10	pCi/L	--			--			--			--			--		
STRONTIUM-90	1	pCi/L	--			--			--			--			--		
THALLIUM-208	5	pCi/L	--			--			--			--			--		
THORIUM-234	200	pCi/L	--			--			--			--			--		
TRITIUM	300	pCi/L	1.78±134	U|	232	-30.6±93.1	U|	166	0.00±93.7	U|	164	-114±122	U|	215	142±122	U|UJv	200
URANIUM-235	25	pCi/L	--			--			--			--			--		
URANIUM-238	500	pCi/L	--			--			--			--			--		

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		Location	UCD2-035			UCD2-035			UCD2-035			UCD2-036			UCD2-036		
		Sample ID	GWGW0946			GWGW0969			GWGW0981			GWGW0773			GWGW0793		
		Date	10/07/99			11/03/99			12/02/99			01/04/99			02/01/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			--			4.13±5.16	U|	9.62
AMERICIUM-241	1	pCi/L	--			--			--			--			0.0368±0.131	U|	0.295
BISMUTH-212	70	pCi/L	--			--			--			--			7.72±9.59	U|	18.2
BISMUTH-214	10	pCi/L	--			--			--			--			5.63±5.96	U|UJv	6.93
CARBON-14	20	pCi/L	0.198±4.92	U|	8.51	2.53±8.89	U|UJd	15.2	**24.2±5.71**		8.46	-2.61±4.71	U|	8.22	-1.35±5.13	U|	8.93
CESIUM-137	10	pCi/L	--			--			--			--			0.935±1.38	U|UJv	2.07
COBALT-60	10	pCi/L	--			--			--			--			-0.727±1.27	U|	2.21
GROSS ALPHA	2	pCi/L	--			--			--			--			**2.36±1.14**	|Jv	1.68
GROSS BETA	3	pCi/L	--			--			--			--			0.522±0.960	U|	1.97
LEAD-210	450	pCi/L	--			--			--			--			233±399	U|UJv	351
LEAD-212	10	pCi/L	--			--			--			--			0.524±3.78	U|UJv	4.27
LEAD-214	10	pCi/L	--			--			--			--			0.00±5.17	U|	6.48
PLUTONIUM-241	10	pCi/L	--			--			--			--			0.672±4.21	U|	7.16
POTASSIUM-40	100	pCi/L	--			--			--			--			29.6±17.6	U|UJv	36.0
RADIUM-226	1	pCi/L	--			--			--			--			0.151±0.362	U|	0.701
SODIUM-22	10	pCi/L	--			--			--			--			-1.01±1.55	U|	2.23
STRONTIUM-90	1	pCi/L	--			--			--			--			0.0661±0.326	U|	0.739
THALLIUM-208	5	pCi/L	--			--			--			--			1.88±3.45	U|UJv	2.93
THORIUM-234	200	pCi/L	--			--			--			--			82.6±122	U|UJv	98.8
TRITIUM	300	pCi/L	83.6±120	U|	204	132±110	U|UJv	178	-147±127	U|	244	-221±153	U|	295	-176±111	U|	197
URANIUM-235	25	pCi/L	--			--			--			--			-8.54±9.57	U|	15.7
URANIUM-238	500	pCi/L	--			--			--			--			82.6±122	U|UJv	98.8

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		Location	UCD2-036			UCD2-036			UCD2-036			UCD2-036			UCD2-036		
		Sample ID	GWGW0821			GWGW0830			GWGW0831			GWGW0852			GWGW0883		
		Date	03/03/99			04/05/99			04/05/99			05/05/99			06/01/99		
		QA							DUPLICATE								
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			6.89±5.18	U|UJv	9.89	--		
AMERICIUM-241	1	pCi/L	--			--			--			-0.0471±0.00	U|	0.274	--		
BISMUTH-212	70	pCi/L	--			--			--			-4.34±9.83	U|	16.7	--		
BISMUTH-214	10	pCi/L	--			--			--			4.75±2.52	U|UJv	4.92	--		
CARBON-14	20	pCi/L	-0.917±4.57	U|	7.90	14.7±4.86	J|	7.59	16.3±4.85	J|	7.49	0.00±4.26	U|	7.36	2.67±4.52	U|	7.67
CESIUM-137	10	pCi/L	--			--			--			1.30±1.25	U|UJv	2.39	--		
COBALT-60	10	pCi/L	--			--			--			0.0464±1.24	U|	2.31	--		
GROSS ALPHA	2	pCi/L	--			--			--			**2.34±0.899**		1.08	--		
GROSS BETA	3	pCi/L	--			--			--			0.858±0.893	U|UJv	1.72	--		
LEAD-210	450	pCi/L	--			--			--			367±495	U|UJv	454	--		
LEAD-212	10	pCi/L	--			--			--			2.83±4.08	U|UJv	4.97	--		
LEAD-214	10	pCi/L	--			--			--			1.16±2.82	U|	4.84	--		
PLUTONIUM-241	10	pCi/L	--			--			--			-0.516±5.33	U|	9.18	--		
POTASSIUM-40	100	pCi/L	--			--			--			14.3±15.6	U|	30.6	--		
RADIUM-226	1	pCi/L	--			--			--			0.261±0.511	U|	0.936	--		
SODIUM-22	10	pCi/L	--			--			--			0.107±1.41	U|	2.62	--		
STRONTIUM-90	1	pCi/L	--			--			--			-0.0950±0.280	U|	0.628	--		
THALLIUM-208	5	pCi/L	--			--			--			2.36±1.44	U|UJv	2.79	--		
THORIUM-234	200	pCi/L	--			--			--			109±70.0	U|UJv	122	--		
TRITIUM	300	pCi/L	-213±93.7	U|	166	-205±139	U|	258	-236±139	U|	259	28.3±112	U|	195	44.9±143	U|	244
URANIUM-235	25	pCi/L	--			--			--			-1.6±8.70	U|	14.8	--		
URANIUM-238	500	pCi/L	--			--			--			109±70.0	U|UJv	122	--		

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		Location	UCD2-036			UCD2-036			UCD2-036			UCD2-036			UCD2-036		
		Sample ID	GWGW0894			GWGW0909			GWGW0910			GWGW0932			GWGW0947		
		Date	07/06/99			08/03/99			08/03/99			09/01/99			10/07/99		
		QA							DUPLICATE								
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			7.45±5.30	U|UJv	9.86	2.96±7.99	U|UJv	8.06	--			--		
AMERICIUM-241	1	pCi/L	--			0.0474±0.0900	U|UJv	0.142	0.0425±0.120	U|	0.309	--			--		
BISMUTH-212	70	pCi/L	--			3.69±9.86	U|	17.8	0.660±8.39	U|	14.8	--			--		
BISMUTH-214	10	pCi/L	--			4.96±6.20	U|UJv	6.23	3.07±4.38	U|UJv	3.63	--			--		
CARBON-14	20	pCi/L	2.97±3.95	U|UJv	6.66	**254±11.0**		8.93	**211±10.2**		8.89	1.94±4.80	U|	8.19	-1.47±5.06	U|	8.86
CESIUM-137	10	pCi/L	--			-0.920±1.28	U|	2.18	0.238±1.58	U|	2.04	--			--		
COBALT-60	10	pCi/L	--			0.585±1.27	U|	2.41	0.919±1.16	U|	2.20	--			--		
GROSS ALPHA	2	pCi/L	--			**3.57±1.11**		1.15	**2.45±0.645**		0.661	--			--		
GROSS BETA	3	pCi/L	--			0.907±0.848	U|UJv	1.62	1.47±0.700	J|Jv	1.14	--			--		
LEAD-210	450	pCi/L	--			3.56±37.4	U|UJv	28.8	117±294	U|UJv	312	--			--		
LEAD-212	10	pCi/L	--			0.142±3.40	U|UJv	2.94	0.00±2.28	U|	4.02	--			--		
LEAD-214	10	pCi/L	--			8.93±5.73	J|Jv	3.72	7.74±5.12	J|Jv	4.04	--			--		
PLUTONIUM-241	10	pCi/L	--			2.07±3.92	U|	6.64	-0.532±3.97	U|	6.82	--			--		
POTASSIUM-40	100	pCi/L	--			16.4±28.0	U|UJv	21.4	39.1±33.1	J|Jv	17.8	--			--		
RADIUM-226	1	pCi/L	--			0.819±0.642	U|UJv	0.883	**1.10±0.640**	|Jv	0.622	--			--		
SODIUM-22	10	pCi/L	--			0.981±1.46	U|	2.66	0.371±1.19	U|	1.81	--			--		
STRONTIUM-90	1	pCi/L	--			0.0308±0.310	U|	0.692	0.151±0.302	U|	0.648	--			--		
THALLIUM-208	5	pCi/L	--			0.478±2.50	U|UJv	2.65	0.00±1.21	U|	2.30	--			--		
THORIUM-234	200	pCi/L	--			20.6±40.9	U|UJv	31.1	29.1±95.7	U|UJv	107	--			--		
TRITIUM	300	pCi/L	-92.9±91.0	U|	168	-128±123	U|	217	-136±127	U|	224	117±124	U|UJv	206	28.2±117	U|	206
URANIUM-235	25	pCi/L	--			11.0±7.34	U|UJv	12.1	3.95±12.9	U|UJv	13.9	--			--		
URANIUM-238	500	pCi/L	--			20.6±40.9	U|UJv	31.1	29.1±95.7	U|UJv	91.4	--			--		

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		Location	UCD2-036			UCD2-036			UCD2-037			UCD2-037			UCD2-037		
		Sample ID	GWGW0957			GWGW0982			GWGW0774			GWGW0775			GWGW0799		
		Date	11/02/99			12/02/99			01/04/99			01/04/99			02/01/99		
		QA										DUPLICATE					
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			--			2.66±10.2	U|UJv	11.2
AMERICIUM-241	1	pCi/L	--			--			--			--			-0.0181±0.0538	U|	0.151
BISMUTH-212	70	pCi/L	--			--			--			--			-1.84±10.9	U|	18.4
BISMUTH-214	10	pCi/L	--			--			--			--			0.00±5.79	U|	6.76
CARBON-14	20	pCi/L	5.37±5.57	U|UJvd	9.32	2.92±6.44	U|	11.0	-1.01±4.71	U|	8.14	-7.16±4.46	U|	8.00	-1.63±4.90	U|	8.55
CESIUM-137	10	pCi/L	--			--			--			--			0.582±1.44	U|	2.56
COBALT-60	10	pCi/L	--			--			--			--			-0.0945±1.51	U|	2.67
GROSS ALPHA	2	pCi/L	--			--			--			--			1.79±0.954	|Jv	1.43
GROSS BETA	3	pCi/L	--			--			--			--			0.0150±0.918	U|	1.94
LEAD-210	450	pCi/L	--			--			--			--			148±249	U|UJv	381
LEAD-212	10	pCi/L	--			--			--			--			0.625±4.36	U|	5.03
LEAD-214	10	pCi/L	--			--			--			--			**11.9±5.72**		4.93
PLUTONIUM-241	10	pCi/L	--			--			--			--			3.03±3.03	U|UJv	5.07
POTASSIUM-40	100	pCi/L	--			--			--			--			16.4±31.5	U|UJv	28.4
RADIUM-226	1	pCi/L	--			--			--			--			0.926±0.609	J|Jv	0.768
SODIUM-22	10	pCi/L	--			--			--			--			1.50±1.47	U|UJv	2.90
STRONTIUM-90	1	pCi/L	--			--			--			--			0.144±0.367	U|	0.816
THALLIUM-208	5	pCi/L	--			--			--			--			0.858±2.95	U|UJv	2.92
THORIUM-234	200	pCi/L	--			--			--			--			32.1±139	U|UJv	120
TRITIUM	300	pCi/L	-177±129	U|	251	-88.0±131	U|	243	-316±147	U|	296	-95.3±163	U|	298	-107±112	U|	196
URANIUM-235	25	pCi/L	--			--			--			--			5.06±10.1	U|	17.4
URANIUM-238	500	pCi/L	--			--			--			--			32.1±139	U|UJv	98.2

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		Location	UCD2-037			UCD2-037			UCD2-037			UCD2-037			UCD2-037		
		Sample ID	GWGW0822			GWGW0832			GWGW0844			GWGW0845			GWGW0882		
		Date	03/03/99			04/06/99			05/04/99			05/04/99			06/01/99		
		QA										DUPLICATE					
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			3.49±9.22	U|UJv	9.74	2.51±4.54	U|	8.36	--		
AMERICIUM-241	1	pCi/L	--			--			0.00618±0.0388	U|	0.135	0.134±0.153	U|UJv	0.269	--		
BISMUTH-212	70	pCi/L	--			--			10.6±9.85	U|UJv	18.7	5.84±8.76	U|	16.5	--		
BISMUTH-214	10	pCi/L	--			--			3.86±5.02	U|UJv	5.53	1.85±5.18	U|UJv	4.68	--		
CARBON-14	20	pCi/L	0.212±4.72	U|	8.11	4.76±4.51	U|UJv	7.52	9.59±4.58	J|Jv	7.40	7.20±4.52	U|UJv	7.41	3.00±4.58	U|	7.74
CESIUM-137	10	pCi/L	--			--			2.62±3.00	J|Jv	2.18	0.00±1.91	U|	3.68	--		
COBALT-60	10	pCi/L	--			--			1.07±1.46	U|	2.65	0.443±1.27	U|	2.44	--		
GROSS ALPHA	2	pCi/L	--			--			**2.08±0.928**	|Jv	1.34	1.99±0.853	J|	1.11	--		
GROSS BETA	3	pCi/L	--			--			0.784±0.639	U|UJv	1.26	1.23±0.674	U|UJv	1.28	--		
LEAD-210	450	pCi/L	--			--			374±823	U|UJv	648	0.00±26.4	U|	42.4	--		
LEAD-212	10	pCi/L	--			--			2.26±2.86	U|UJv	4.53	3.22±2.19	U|UJv	3.92	--		
LEAD-214	10	pCi/L	--			--			2.61±5.65	U|UJv	5.29	3.16±2.40	U|UJv	4.35	--		
PLUTONIUM-241	10	pCi/L	--			--			0.593±3.76	U|	5.23	-0.101±5.41	U|	7.54	--		
POTASSIUM-40	100	pCi/L	--			--			5.03±32.6	U|UJv	18.5	13.0±25.1	U|UJv	17.1	--		
RADIUM-226	1	pCi/L	--			--			**1.15±0.562**	|Jv	0.630	**1.57±0.562**		0.142	--		
SODIUM-22	10	pCi/L	--			--			-0.132±1.49	U|	2.26	0.370±1.22	U|	2.38	--		
STRONTIUM-90	1	pCi/L	--			--			0.117±0.276	U|	0.583	-0.131±0.244	U|	0.556	--		
THALLIUM-208	5	pCi/L	--			--			0.294±2.48	U|	2.79	1.23±1.28	U|UJv	2.42	--		
THORIUM-234	200	pCi/L	--			--			28.5±114	U|UJv	123	0.00±29.2	U|	42.4	--		
TRITIUM	300	pCi/L	-190±94.3	U|	167	-207±140	U|	260	31.8±123	U|	212	30.7±119	U|	205	20.1±139	U|	238
URANIUM-235	25	pCi/L	--			--			15.2±15.8	U|UJv	17.4	0.0538±7.07	U|	12.3	--		
URANIUM-238	500	pCi/L	--			--			28.5±114	U|UJv	123	0.00±29.2	U|	42.4	--		

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		Location	UCD2-037			UCD2-037			UCD2-037			UCD2-037			UCD2-037		
		Sample ID	GWGW0893			GWGW0911			GWGW0930			GWGW0931			GWGW0948		
		Date	07/06/99			08/03/99			09/01/99			09/01/99			10/07/99		
		QA										DUPLICATE					
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			2.41±6.08	U|UJv	7.16	--			--			--		
AMERICIUM-241	1	pCi/L	--			0.112±0.130	U|UJv	0.198	--			--			--		
BISMUTH-212	70	pCi/L	--			2.83±7.80	U|	14.0	--			--			--		
BISMUTH-214	10	pCi/L	--			6.38±5.06	J|Jv	3.49	--			--			--		
CARBON-14	20	pCi/L	1.35±3.96	U|	6.76	2.95±5.53	U|	9.39	0.772±4.80	U|	8.26	0.755±4.70	U|	8.08	0.00±4.94	U|	8.56
CESIUM-137	10	pCi/L	--			-0.206±1.02	U|	1.77	--			--			--		
COBALT-60	10	pCi/L	--			-0.0613±1.00	U|	1.89	--			--			--		
GROSS ALPHA	2	pCi/L	--			**2.21±0.853**		1.01	--			--			--		
GROSS BETA	3	pCi/L	--			0.440±0.881	U|	1.74	--			--			--		
LEAD-210	450	pCi/L	--			172±546	U|UJv	503	--			--			--		
LEAD-212	10	pCi/L	--			0.318±3.71	U|UJv	3.94	--			--			--		
LEAD-214	10	pCi/L	--			3.25±5.29	U|UJv	3.82	--			--			--		
PLUTONIUM-241	10	pCi/L	--			-0.855±3.98	U|	6.85	--			--			--		
POTASSIUM-40	100	pCi/L	--			2.21±26.3	U|UJv	19.0	--			--			--		
RADIUM-226	1	pCi/L	--			**2.13±0.886**		0.654	--			--			--		
SODIUM-22	10	pCi/L	--			0.0512±1.01	U|	1.85	--			--			--		
STRONTIUM-90	1	pCi/L	--			0.336±0.330	U|	0.679	--			--			--		
THALLIUM-208	5	pCi/L	--			1.06±2.29	U|UJv	2.39	--			--			--		
THORIUM-234	200	pCi/L	--			69.4±117	U|UJv	95.9	--			--			--		
TRITIUM	300	pCi/L	-88.1±86.4	U|	160	-171±123	U|	220	145±125	U|UJv	204	87.2±121	U|UJv	205	55.8±118	U|	204
URANIUM-235	25	pCi/L	--			4.93±14.3	U|UJv	12.0	--			--			--		
URANIUM-238	500	pCi/L	--			69.4±117	U|UJv	95.9	--			--			--		

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		Location	UCD2-037			UCD2-037			UCD2-037			UCD2-038			UCD2-038		
		Sample ID	GWGW0950			GWGW0958			GWGW0983			GWGW0781			GWGW0792		
		Date	10/07/99			11/02/99			12/01/99			01/06/99			02/03/99		
		QA	DUPLICATE														
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			--			2.53±4.90	U|	9.01
AMERICIUM-241	1	pCi/L	--			--			--			--			-0.0137±0.0667	U|	0.175
BISMUTH-212	70	pCi/L	--			--			--			--			5.43±9.77	U|	18.2
BISMUTH-214	10	pCi/L	--			--			--			--			3.29±4.89	U|UJv	5.88
CARBON-14	20	pCi/L	7.29±9.32	U|UJv	15.7	4.00±5.78	U|UJvd	9.77	0.758±4.89	U|	8.43	5.87±4.83	U|UJv	8.04	7.51±5.31	U|UJv	8.76
CESIUM-137	10	pCi/L	--			--			--			--			-0.898±1.23	U|	2.06
COBALT-60	10	pCi/L	--			--			--			--			0.927±1.28	U|	2.58
GROSS ALPHA	2	pCi/L	--			--			--			--			2.10±0.532		0.548
GROSS BETA	3	pCi/L	--			--			--			--			1.42±0.441	J|Jvd	0.685
LEAD-210	450	pCi/L	--			--			--			--			384±299	U|UJv	464
LEAD-212	10	pCi/L	--			--			--			--			0.210±4.05	U|	4.69
LEAD-214	10	pCi/L	--			--			--			--			6.4±5.36	J|Jv	4.77
PLUTONIUM-241	10	pCi/L	--			--			--			--			-0.539±2.97	U|	5.09
POTASSIUM-40	100	pCi/L	--			--			--			--			0.00±17.0	U|	36.0
RADIUM-226	1	pCi/L	--			--			--			--			0.00±0.336	U|	0.798
SODIUM-22	10	pCi/L	--			--			--			--			-0.171±1.29	U|	2.38
STRONTIUM-90	1	pCi/L	--			--			--			--			0.139±0.282	U|	0.579
THALLIUM-208	5	pCi/L	--			--			--			--			0.670±2.60	U|UJv	2.75
THORIUM-234	200	pCi/L	--			--			--			--			0.00±134	U|UJv	114
TRITIUM	300	pCi/L	83.8±120	U|	204	-145±130	U|	248	-58.9±133	U|	244	-190±156	U|	296	-113±111	U|	194
URANIUM-235	25	pCi/L	--			--			--			--			8.30±9.84	U|	15.7
URANIUM-238	500	pCi/L	--			--			--			--			0.00±134	U|UJv	107

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		Location	UCD2-038			UCD2-038			UCD2-038			UCD2-038			UCD2-038		
		Sample ID	GWGW0823			GWGW0833			GWGW0846			GWGW0881			GWGW0892		
		Date	03/03/99			04/06/99			05/04/99			06/01/99			07/06/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			5.90±7.89	UJUJv	9.10	--			--		
AMERICIUM-241	1	pCi/L	--			--			0.0405±0.0825	UJ	0.169	--			--		
BISMUTH-212	70	pCi/L	--			--			4.02±8.38	UJ	15.6	--			--		
BISMUTH-214	10	pCi/L	--			--			3.46±2.50	UJUJv	4.74	--			--		
CARBON-14	20	pCi/L	5.30±4.87	UJUJv	8.14	4.21±4.50	UJUJv	7.54	13.9±4.78	J	7.51	7.48±4.85	UJUJv	7.95	7.24±4.19	JJv	6.85
CESIUM-137	10	pCi/L	--			--			0.00±1.90	UJ	3.70	--			--		
COBALT-60	10	pCi/L	--			--			0.684±1.16	UJ	2.30	--			--		
GROSS ALPHA	2	pCi/L	--			--			**2.21±0.844**		0.910	--			--		
GROSS BETA	3	pCi/L	--			--			1.08±0.626	UJUJv	1.19	--			--		
LEAD-210	450	pCi/L	--			--			-79.5±578	UJ	870	--			--		
LEAD-212	10	pCi/L	--			--			0.00±2.51	UJ	4.53	--			--		
LEAD-214	10	pCi/L	--			--			0.807±2.62	UJ	4.51	--			--		
PLUTONIUM-241	10	pCi/L	--			--			-1.29±5.76	UJ	8.05	--			--		
POTASSIUM-40	100	pCi/L	--			--			20.6±15.6	UJUJv	30.9	--			--		
RADIUM-226	1	pCi/L	--			--			**2.12±0.695**		0.557	--			--		
SODIUM-22	10	pCi/L	--			--			0.726±1.24	UJ	2.44	--			--		
STRONTIUM-90	1	pCi/L	--			--			0.0511±0.289	UJ	0.620	--			--		
THALLIUM-208	5	pCi/L	--			--			0.434±2.47	UJUJv	2.57	--			--		
THORIUM-234	200	pCi/L	--			--			72.8±96.7	UJUJv	159	--			--		
TRITIUM	300	pCi/L	-186±93.2	UJ	164	-207±141	UJ	261	0.00±125	UJ	217	102±144	UJUJv	243	-61.3±91.7	UJ	167
URANIUM-235	25	pCi/L	--			--			2.34±11.5	UJUJv	12.3	--			--		
URANIUM-238	500	pCi/L	--			--			72.8±96.7	UJUJv	159	--			--		

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		Location	UCD2-038			UCD2-038			UCD2-038			UCD2-038			UCD2-038		
		Sample ID	GWGW0921			GWGW0929			GWGW0949			GWGW0955			GWGW0984		
		Date	08/05/99			09/01/99			10/07/99			11/02/99			12/01/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	2.41±7.10	U|UJv	7.94	--			--			--			--		
AMERICIUM-241	1	pCi/L	-0.00908±0.0182	U|	0.200	--			--			--			--		
BISMUTH-212	70	pCi/L	2.00±7.68	U|	13.6	--			--			--			--		
BISMUTH-214	10	pCi/L	0.00±2.32	U|	4.42	--			--			--			--		
CARBON-14	20	pCi/L	3.34±4.53	U|UJv	7.64	4.34±4.83	U|UJv	8.11	3.50±5.19	U|	8.78	3.51±5.30	U|UJd	8.96	4.72±5.07	U|UJv	8.49
CESIUM-137	10	pCi/L	-0.528±1.10	U|	1.85	--			--			--			--		
COBALT-60	10	pCi/L	1.37±1.04	U|UJv	2.10	--			--			--			--		
GROSS ALPHA	2	pCi/L	2.60±1.24	|Jv	1.63	--			--			--			--		
GROSS BETA	3	pCi/L	2.41±1.11	J|Jv	2.06	--			--			--			--		
LEAD-210	450	pCi/L	221±201	U|UJv	307	--			--			--			--		
LEAD-212	10	pCi/L	0.152±3.51	U|	3.78	--			--			--			--		
LEAD-214	10	pCi/L	3.49±5.06	U|UJv	4.34	--			--			--			--		
PLUTONIUM-241	10	pCi/L	-1.15±4.75	U|	8.19	--			--			--			--		
POTASSIUM-40	100	pCi/L	25.4±13.1	U|UJv	26.3	--			--			--			--		
RADIUM-226	1	pCi/L	0.606±0.509	U|UJv	0.638	--			--			--			--		
SODIUM-22	10	pCi/L	1.24±1.12	U|UJv	2.20	--			--			--			--		
STRONTIUM-90	1	pCi/L	0.00625±0.200	U|	0.543	--			--			--			--		
THALLIUM-208	5	pCi/L	1.47±1.15	U|UJv	2.12	--			--			--			--		
THORIUM-234	200	pCi/L	0.00±126	U|UJv	90.2	--			--			--			--		
TRITIUM	300	pCi/L	-199±123	U|	220	204±130	U|UJv	205	56.2±119	U|	206	0.00±141	U|	250	29.5±140	U|	245
URANIUM-235	25	pCi/L	5.42±7.91	U|	13.6	--			--			--			--		
URANIUM-238	500	pCi/L	0.00±126	U|UJv	78.0	--			--			--			--		

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		Location	UCD2-039			UCD2-039			UCD2-039			UCD2-039			UCD2-039		
		Sample ID	GWGW0783			GWGW0794			GWGW0824			GWGW0835			GWGW0853		
		Date	01/06/99			02/02/99			03/03/99			04/06/99			05/05/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			7.78±4.64	U|UJv	9.10	--			--			6.40±4.68	U|UJv	9.07
AMERICIUM-241	1	pCi/L	--			0.0119±0.0798	U|	0.152	--			--			0.0247±0.107	U|	0.239
BISMUTH-212	70	pCi/L	--			5.17±10.4	U|	19.0	--			--			0.225±8.68	U|	15.6
BISMUTH-214	10	pCi/L	--			0.00±6.80	U|UJv	6.26	--			--			2.86±5.27	U|UJv	4.93
CARBON-14	20	pCi/L	8.60±8.34	U|UJv	13.9	9.36±5.35	J|Jv	8.74	10.2±8.05	U|UJv	13.4	12.3±5.17	J|Jv	8.24	16.7±5.05	J|	7.83
CESIUM-137	10	pCi/L	--			0.476±1.44	U|	2.59	--			--			0.349±1.13	U|	2.09
COBALT-60	10	pCi/L	--			-0.245±1.42	U|	2.54	--			--			0.158±1.34	U|	2.50
GROSS ALPHA	2	pCi/L	--			1.03±0.726	U|UJv	1.19	--			--			**2.31±0.836**		0.773
GROSS BETA	3	pCi/L	--			1.93±0.936	J|Jv	1.72	--			--			1.64±0.789	J|Jv	1.43
LEAD-210	450	pCi/L	--			441±388	J|Jv	327	--			--			588±416	U|UJv	671
LEAD-212	10	pCi/L	--			0.00±2.77	U|	4.97	--			--			1.25±4.68	U|UJv	5.20
LEAD-214	10	pCi/L	--			0.00±6.59	U|UJv	6.29	--			--			4.58±5.52	U|UJv	5.24
PLUTONIUM-241	10	pCi/L	--			0.474±3.83	U|	6.52	--			--			-2.86±4.86	U|	8.47
POTASSIUM-40	100	pCi/L	--			27.4±15.5	U|UJv	31.6	--			--			19.6±15.3	U|UJv	30.7
RADIUM-226	1	pCi/L	--			0.413±0.537	U|UJv	0.890	--			--			0.855±0.670	U|UJv	0.921
SODIUM-22	10	pCi/L	--			0.0218±1.32	U|	2.42	--			--			-0.478±1.20	U|	2.14
STRONTIUM-90	1	pCi/L	--			-0.0218±0.230	U|	0.396	--			--			-0.108±0.326	U|	0.722
THALLIUM-208	5	pCi/L	--			2.10±1.46	U|UJv	2.76	--			--			0.339±2.51	U|	3.12
THORIUM-234	200	pCi/L	--			0.00±80.8	U|	130	--			--			40.6±138	U|UJv	118
TRITIUM	300	pCi/L	-97.0±166	U|	303	-71.1±113	U|	196	-72.7±94.7	U|	164	-59.0±147	U|	260	223±121	J|Jv	192
URANIUM-235	25	pCi/L	--			2.27±11.0	U|	17.1	--			--			2.00±11.2	U|	15.2
URANIUM-238	500	pCi/L	--			0.00±80.8	U|	130	--			--			40.6±138	U|UJv	118

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		Location	UCD2-039			UCD2-039			UCD2-039			UCD2-039			UCD2-039		
		Sample ID	GWGW0884			GWGW0895			GWGW0922			GWGW0933			GWGW0944		
		Date	06/01/99			07/06/99			08/05/99			09/01/99			10/06/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			0.699±8.48	U|UJv	7.86	--			--		
AMERICIUM-241	1	pCi/L	--			--			0.0381±0.0700	U|UJv	0.114	--			--		
BISMUTH-212	70	pCi/L	--			--			2.85±15.9	U|UJv	14.5	--			--		
BISMUTH-214	10	pCi/L	--			--			3.83±4.56	U|UJv	4.99	--			--		
CARBON-14	20	pCi/L	**24.6±5.25**		7.76	**24.5±4.53**		6.60	16.0±4.87	J|	7.57	14.0±5.26	J|	8.31	12.5±5.36	J|Jv	8.53
CESIUM-137	10	pCi/L	--			--			-0.349±1.06	U|	1.83	--			--		
COBALT-60	10	pCi/L	--			--			-0.914±1.15	U|	1.93	--			--		
GROSS ALPHA	2	pCi/L	--			--			**2.63±0.736**		0.839	--			--		
GROSS BETA	3	pCi/L	--			--			0.785±0.699	U|UJv	1.16	--			--		
LEAD-210	450	pCi/L	--			--			89.3±315	U|UJv	320	--			--		
LEAD-212	10	pCi/L	--			--			1.84±4.53	U|UJv	3.37	--			--		
LEAD-214	10	pCi/L	--			--			1.68±4.82	U|UJv	4.80	--			--		
PLUTONIUM-241	10	pCi/L	--			--			-2.66±4.53	U|	7.87	--			--		
POTASSIUM-40	100	pCi/L	--			--			11.5±23.4	U|UJv	20.5	--			--		
RADIUM-226	1	pCi/L	--			--			**1.39±0.721**		0.639	--			--		
SODIUM-22	10	pCi/L	--			--			-0.824±1.25	U|	1.78	--			--		
STRONTIUM-90	1	pCi/L	--			--			-0.574±0.320	U|	0.817	--			--		
THALLIUM-208	5	pCi/L	--			--			0.107±2.07	U|UJv	1.79	--			--		
THORIUM-234	200	pCi/L	--			--			74.8±97.7	U|UJv	109	--			--		
TRITIUM	300	pCi/L	288±148	J|Jv	239	117±96.6	U|UJv	159	64.7±152	U|	262	290±135	J|Jv	204	84.0±121	U|	205
URANIUM-235	25	pCi/L	--			--			3.30±12.8	U|UJv	14.6	--			--		
URANIUM-238	500	pCi/L	--			--			74.8±97.7	U|UJv	90.7	--			--		

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		Location	UCD2-039			UCD2-039			UCD2-040			UCD2-040			UCD2-040		
		Sample ID	GWGW0971			GWGW0979			GWGW0780			GWGW0789			GWGW0820		
		Date	11/04/99			12/01/99			01/06/99			02/04/99			03/02/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			6.95±5.91	UJUJv	9.96	--		
AMERICIUM-241	1	pCi/L	--			--			--			-0.0975±0.0919	UJ	0.296	--		
BISMUTH-212	70	pCi/L	--			--			--			2.45±9.97	UJ	18.0	--		
BISMUTH-214	10	pCi/L	--			--			--			2.10±6.08	UJUJv	6.13	--		
CARBON-14	20	pCi/L	14.4±5.15	JJ	8.07	11.8±5.26	JJJv	8.39	3.34±4.88	UJ	8.23	2.32±5.90	UJ	10.1	6.56±4.73	UJUJv	7.80
CESIUM-137	10	pCi/L	--			--			--			-0.781±1.39	UJ	2.36	--		
COBALT-60	10	pCi/L	--			--			--			-0.784±1.24	UJ	2.12	--		
GROSS ALPHA	2	pCi/L	--			--			--			1.82±0.807	JJv	1.10	--		
GROSS BETA	3	pCi/L	--			--			--			1.29±0.699	UJUJvd	1.34	--		
LEAD-210	450	pCi/L	--			--			--			338±254	UJUJv	403	--		
LEAD-212	10	pCi/L	--			--			--			3.15±5.19	UJUJv	5.15	--		
LEAD-214	10	pCi/L	--			--			--			3.68±6.40	UJUJv	5.78	--		
PLUTONIUM-241	10	pCi/L	--			--			--			1.94±3.78	UJ	6.39	--		
POTASSIUM-40	100	pCi/L	--			--			--			29.3±16.8	UJUJv	33.7	--		
RADIUM-226	1	pCi/L	--			--			--			0.459±0.474	UJUJv	0.712	--		
SODIUM-22	10	pCi/L	--			--			--			-0.0961±1.33	UJ	2.43	--		
STRONTIUM-90	1	pCi/L	--			--			--			-0.161±0.297	UJ	0.649	--		
THALLIUM-208	5	pCi/L	--			--			--			2.16±1.47	UJUJv	2.79	--		
THORIUM-234	200	pCi/L	--			--			--			38.6±111	UJUJv	131	--		
TRITIUM	300	pCi/L	58.3±114	UJ	197	0.00±139	UJ	247	-317.00±148	UJ	297	0.00±130	UJ	231	-97.8±120	UJ	208
URANIUM-235	25	pCi/L	--			--			--			3.39±11.1	UJ	17.4	--		
URANIUM-238	500	pCi/L	--			--			--			38.6±111	UJUJv	112	--		

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		Location	UCD2-040			UCD2-040			UCD2-040			UCD2-040			UCD2-040		
		Sample ID	GWGW0829			GWGW0847			GWGW0885			GWGW0896			GWGW0905		
		Date	04/05/99			05/04/99			06/01/99			07/06/99			08/02/99		
		QA															
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			1.58±9.06	U|	11.7	--			--			1.92±3.74	U|	6.72
AMERICIUM-241	1	pCi/L	--			-0.0301±0.120	U|	0.302	--			--			0.00±0.00	U|	0.127
BISMUTH-212	70	pCi/L	--			3.59±12.5	U|	22.9	--			--			3.02±11.9	U|	15.0
BISMUTH-214	10	pCi/L	--			5.51±6.33	U|UJv	6.29	--			--			3.02±4.77	U|UJv	4.66
CARBON-14	20	pCi/L	11.3±4.80	J|Jv	7.65	11.4±4.88	J|Jv	7.82	4.94±4.57	U|UJv	7.61	6.18±4.10	U|UJv	6.75	-0.204±5.15	U|	8.93
CESIUM-137	10	pCi/L	--			1.83±1.62	U|UJv	3.10	--			--			0.00±1.67	U|	3.04
COBALT-60	10	pCi/L	--			0.258±1.75	U|	3.27	--			--			0.380±1.08	U|	2.01
GROSS ALPHA	2	pCi/L	--			1.76±0.660	J|	0.935	--			--			**2.01±1.03**	|Jv	1.59
GROSS BETA	3	pCi/L	--			0.642±0.435	U|UJv	0.715	--			--			1.29±0.933	U|UJv	1.77
LEAD-210	450	pCi/L	--			0.00±35.1	U|	56.7	--			--			10.1±32.0	U|UJv	27.9
LEAD-212	10	pCi/L	--			0.00±2.65	U|	4.90	--			--			0.248±2.87	U|UJv	2.62
LEAD-214	10	pCi/L	--			2.62±3.08	U|UJv	5.52	--			--			4.09±4.70	J|Jv	3.42
PLUTONIUM-241	10	pCi/L	--			-0.396±4.73	U|	6.61	--			--			-1.20±3.81	U|	6.57
POTASSIUM-40	100	pCi/L	--			11.3±32.9	U|UJv	29.3	--			--			23.4±13.3	U|UJv	26.2
RADIUM-226	1	pCi/L	--			**2.05±0.665**		0.476	--			--			0.358±0.555	U|	0.965
SODIUM-22	10	pCi/L	--			-0.441±1.92	U|	3.26	--			--			-0.419±0.990	U|	1.75
STRONTIUM-90	1	pCi/L	--			-0.146±0.215	U|	0.496	--			--			-0.0302±0.300	U|	0.820
THALLIUM-208	5	pCi/L	--			1.02±3.34	U|UJv	3.43	--			--			1.68±1.04	U|UJv	1.96
THORIUM-234	200	pCi/L	--			2.99±44.8	U|UJv	37.3	--			--			0.00±24.5	U|	34.5
TRITIUM	300	pCi/L	-236±139	U|	260	97.2±128	U|UJv	216	1.83±138	U|	239	0.00±93.1	U|	163	-115±126	U|	222
URANIUM-235	25	pCi/L	--			4.39±10.1	U|UJv	14.3	--			--			8.68±6.22	U|UJv	10.9
URANIUM-238	500	pCi/L	--			2.99±44.8	U|UJv	37.3	--			--			0.00±24.5	U|	34.5

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		Location	UCD2-040			UCD2-040			UCD2-040			UCD2-040			UCD2-040		
		Sample ID	GWGW0934			GWGW0945			GWGW0961			GWGW0962			GWGW0980		
		Date	09/01/99			10/06/99			11/02/99			11/02/99			12/01/99		
		QA										DUPLICATE					
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	--			--			--			--			--		
AMERICIUM-241	1	pCi/L	--			--			--			--			--		
BISMUTH-212	70	pCi/L	--			--			--			--			--		
BISMUTH-214	10	pCi/L	--			--			--			--			--		
CARBON-14	20	pCi/L	22.2±5.44		8.19	-0.364±4.85	U|	8.43	1.34±5.35	U|UJd	9.16	3.49±5.56	U|UJd	9.41	-0.0848±4.90	U|	8.49
CESIUM-137	10	pCi/L	--			--			--			--			--		
COBALT-60	10	pCi/L	--			--			--			--			--		
GROSS ALPHA	2	pCi/L	--			--			--			--			--		
GROSS BETA	3	pCi/L	--			--			--			--			--		
LEAD-210	450	pCi/L	--			--			--			--			--		
LEAD-212	10	pCi/L	--			--			--			--			--		
LEAD-214	10	pCi/L	--			--			--			--			--		
PLUTONIUM-241	10	pCi/L	--			--			--			--			--		
POTASSIUM-40	100	pCi/L	--			--			--			--			--		
RADIUM-226	1	pCi/L	--			--			--			--			--		
SODIUM-22	10	pCi/L	--			--			--			--			--		
STRONTIUM-90	1	pCi/L	--			--			--			--			--		
THALLIUM-208	5	pCi/L	--			--			--			--			--		
THORIUM-234	200	pCi/L	--			--			--			--			--		
TRITIUM	300	pCi/L	115±122	U|UJv	202	111±122	U|UJv	204	-58.1±135	U|	247	-145±130	U|	248	-146±126	U|	242
URANIUM-235	25	pCi/L	--			--			--			--			--		
URANIUM-238	500	pCi/L	--			--			--			--			--		

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	Location		UCD4-041			UCD4-041			UCD4-041			UCD4-041			UCD4-042		
	Sample ID		GWGW0810			GWGW0869			GWGW0927			GWGW0963			GWGW0811		
	Date		02/11/99			05/12/99			08/04/99			11/02/99			02/04/99		
	QA																
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	2.87±4.81	U|	8.84	5.45±10.4	U|UJv	11.3	2.77±7.10	U|UJv	7.96	--			4.28±10.3	U|UJv	10.6
AMERICIUM-241	1	pCi/L	-0.0314±0.0935	U|	0.262	-0.003±0.261	U|	0.608	0.205±0.164	J|Jv	0.160	--			0.0385±0.132	U|	0.287
BISMUTH-212	70	pCi/L	-2.30±10.2	U|	17.8	1.25±11.7	U|	20.2	4.89±10.6	U|UJv	13.6	--			-4.47±11.2	U|	18.5
BISMUTH-214	10	pCi/L	**20.0±7.02**		4.52	4.70±5.33	U|UJv	5.25	7.74±6.25	J|Jv	3.75	--			0.00±5.69	U|	6.94
CARBON-14	20	pCi/L	-6.16±8.95	U|	15.9	**32.8±5.12**		7.18	2.95±4.68	U|	7.92	2.31±5.34	U|UJd	9.10	2.64±5.47	U|	9.31
CESIUM-137	10	pCi/L	-0.464±1.37	U|	2.38	-0.519±1.43	U|	2.40	0.291±1.08	U|	1.94	--			-0.422±1.49	U|	2.5
COBALT-60	10	pCi/L	-0.476±1.42	U|	2.51	2.38±3.33	U|UJv	2.85	0.808±0.987	U|	1.93	--			1.20±1.55	U|	2.97
GROSS ALPHA	2	pCi/L	**5.94±1.32**		1.17	**2.08±0.959**	|Jv	1.43	1.80±0.966	J|Jv	1.52	--			1.56±0.819	|Jv	1.25
GROSS BETA	3	pCi/L	2.59±0.928		1.61	1.60±0.883	U|UJv	1.63	1.63±0.942	U|UJv	1.76	--			0.955±0.687	U|UJvd	1.35
LEAD-210	450	pCi/L	183±427	U|UJv	384	302±228	U|UJv	362	52.6±178	U|	269	--			286±236	U|UJv	371
LEAD-212	10	pCi/L	2.00±5.03	U|UJv	5.04	1.71±4.80	U|UJv	4.21	0.201±3.51	U|UJv	3.70	--			4.79±2.84	U|UJv	4.96
LEAD-214	10	pCi/L	**23.0±6.65**		5.19	3.55±6.97	U|UJv	5.02	0.00±5.37	U|	5.40	--			0.00±5.89	U|	6.8
PLUTONIUM-241	10	pCi/L	-1.68±3.32	U|	5.72	1.15±4.59	U|	7.79	0.205±5.50	U|	8.97	--			-1.89±2.96	U|	5.11
POTASSIUM-40	100	pCi/L	0.00±16.3	U|	33.7	11.1±17.0	U|	31.7	0.00±13.8	U|	27.4	--			17.1±34.7	U|UJv	28.4
RADIUM-226	1	pCi/L	0.684±0.536	U|UJv	0.737	**1.71±0.706**		0.611	**1.28±0.804**	|Jv	1.03	--			0.323±0.501	U|	0.871
SODIUM-22	10	pCi/L	-0.616±1.51	U|	2.24	-0.373±1.30	U|	2.27	-0.157±1.04	U|	1.85	--			0.728±1.50	U|	2.81
STRONTIUM-90	1	pCi/L	0.371±0.322	U|UJv	0.652	-0.022±0.223	U|	0.453	0.0415±0.26	U|	0.580	--			-0.235±0.24	U|	0.563
THALLIUM-208	5	pCi/L	2.71±1.55	U|UJv	2.95	2.28±1.66	U|UJv	3.08	0.697±2.62	U|UJv	2.43	--			1.01±1.57	U|	2.82
THORIUM-234	200	pCi/L	0.00±82.2	U|	132	79.6±65.7	U|UJv	117	16.5±86.9	U|UJv	92.7	--			42.1±119	U|UJv	108
TRITIUM	300	pCi/L	-126±149	U|	262	-217±139	U|	259	-102±123	U|	217	-203±125	U|	247	-29.5±127	U|	231
URANIUM-235	25	pCi/L	2.36±10.4	U|	18.3	8.17±14.0	U|UJv	15.5	0.494±7.19	U|	12.4	--			5.83±9.83	U|	17.0
URANIUM-238	500	pCi/L	0.00±82.2	U|	132	79.6±65.7	U|UJv	117	16.5±86.9	U|UJv	92.7	--			42.1±119	U|UJv	108

APF :B
RADIONUCLIDES GROUNDWATER
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DAVIS, CALIFORNIA

		Location	UCD4-042			UCD4-042			UCD4-042			UCD4-042			UCD4-043		
		Sample ID	GWGW0872			GWGW0873			GWGW0925			GWGW0972			GWGW0812		
		Date	05/12/99			05/12/99			08/10/99			11/04/99			02/04/99		
		QA				DUPLICATE											
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	2.37±6.33	U|UJv	8.63	6.22±7.85	U|UJv	8.69	4.72±4.31	U|UJv	8.01	--			9.33±11.1	U|UJv	10.4
AMERICIUM-241	1	pCi/L	0.0793±0.113	U|UJv	1.19	0.0717±0.140	U|	1.00	-0.0248±0.00	U|	0.322	--			-0.0576±0.0905	U|	0.254
BISMUTH-212	70	pCi/L	-1.04±10.3	U|	18.3	5.36±9.28	U|	17.3	6.86±9.34	U|	17.1	--			-0.541±9.84	U|	17.4
BISMUTH-214	10	pCi/L	1.08±4.82	U|UJv	5.21	2.97±2.48	U|UJv	4.68	**19.9±5.65**		3.58	--			7.78±5.38	J|Jv	4.52
CARBON-14	20	pCi/L	4.67±4.24	U|UJv	7.07	4.57±4.43	U|UJv	7.41	3.20±4.48	U|UJv	7.55	-0.964±4.63	U|	8.08	3.21±5.61	U|	9.51
CESIUM-137	10	pCi/L	0.0236±1.31	U|	2.35	1.80±3.13	U|UJv	2.18	-0.289±1.21	U|	1.83	--			0.293±1.28	U|	2.32
COBALT-60	10	pCi/L	0.261±1.50	U|	2.84	-0.0730±1.24	U|	2.28	0.727±1.17	U|	2.26	--			0.580±1.36	U|	2.64
GROSS ALPHA	2	pCi/L	**2.22±0.961**	|Jv	1.37	1.71±0.920	J|Jv	1.43	2.22±1.10	|Jv	1.55	--			**2.55±1.13**	|Jv	1.64
GROSS BETA	3	pCi/L	1.14±0.79	U|UJv	1.48	1.09±0.769	U|	1.44	1.06±0.856	U|UJv	1.62	--			0.905±0.912	U|UJvd	1.75
LEAD-210	450	pCi/L	349±558	U|UJv	552	26.3±35.3	U|UJv	30.9	120±304	U|	459	--			**452±433**	|Jv	357
LEAD-212	10	pCi/L	0.290±3.91	U|	4.95	1.66±3.98	U|UJv	4.17	0.00±2.22	U|	3.94	--			3.44±3.87	U|UJv	3.90
LEAD-214	10	pCi/L	0.419±5.85	U|UJv	5.21	4.47±4.64	U|UJv	4.90	**16.5±5.80**		3.96	--			**10.5±5.29**		4.78
PLUTONIUM-241	10	pCi/L	4.86±4.23	U|UJv	7.73	2.07±4.04	U|	6.82	-1.83±4.77	U|	7.84	--			-0.370±3.28	U|	5.60
POTASSIUM-40	100	pCi/L	25.1±25.4	U|UJv	28.2	4.51±29.7	U|UJv	15.3	10.3±19.8	U|UJv	21.9	--			37.3±18.2	U|UJv	37.7
RADIUM-226	1	pCi/L	**1.77±0.731**		0.633	**2.03±0.779**		0.705	1.42±0.528	|Up	0.415	--			0.565±0.525	U|UJv	0.751
SODIUM-22	10	pCi/L	0.567±1.48	U|	2.87	0.501±1.29	U|	2.49	0.318±1.17	U|	2.19	--			0.305±1.54	U|	2.88
STRONTIUM-90	1	pCi/L	0.0596±0.208	U|	0.413	0.119±0.239	U|	0.469	0.224±0.398	U|	0.851	--			-0.366±0.301	U|	0.688
THALLIUM-208	5	pCi/L	0.921±2.83	U|UJv	2.81	1.78±1.34	U|UJv	2.56	1.43±1.20	U|UJv	2.24	--			1.88±1.46	U|UJv	2.78
THORIUM-234	200	pCi/L	40.0±74.4	U|	133	0.00±28.2	U|	41.3	0.00±169	U|UJv	114	--			81.6±116	U|UJv	115
TRITIUM	300	pCi/L	-155±142	U|	260	-249±138	U|	260	-95.9±139	U|	258	26.4±101	U|	178	-58.8±125	U|	230
URANIUM-235	25	pCi/L	4.82±8.59	U|	15.2	4.00±10.2	U|UJv	12.9	3.30±7.59	U|	13.2	--			-1.80±9.13	U|	15.6
URANIUM-238	500	pCi/L	40.0±74.4	U|	133	0.00±28.2	U|	41.3	0.00±169	U|UJv	101	--			81.6±116	U|UJv	94.2

APPENDIX B
RADIONUCLIDES - GROUNDWATER
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		Location	UCD4-043			UCD4-043			UCD4-043			UCD4-043			UCD4-044		
		Sample ID	GWGW0813			GWGW0874			GWGW0926			GWGW0973			GWGW0877		
		Date	02/04/99			05/12/99			08/10/99			11/04/99			05/10/99		
		QA	DUPLICATE														
Analyte	CRDL	Units			MDA			MDA			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	0.00±11.4	U|UJv	11.2	0.00±5.50	U|	10.7	2.42±9.15	U|UJv	9.36	--			6.54±7.64	U|UJv	8.69
AMERICIUM-241	1	pCi/L	0.0134±0.0743	U|	0.173	-0.202±0.220	U|	0.565	-0.0101±0.00	U|	0.222	--			-0.042±0.0842	U|	0.330
BISMUTH-212	70	pCi/L	11.5±11.3	U|UJv	20.9	2.15±10.5	U|	18.9	3.90±10.8	U|	19.3	--			12.4±9.35	U|UJv	18.1
BISMUTH-214	10	pCi/L	2.53±6.40	U|UJv	6.20	1.67±4.57	U|UJv	4.98	**17.3±5.59**		4.50	--			4.65±2.48	U|UJv	4.80
CARBON-14	20	pCi/L	2.65±5.68	U|	9.67	3.15±4.35	U|UJv	7.34	4.68±4.36	U|UJv	7.27	-0.443±4.65	U|	8.08	3.21±4.35	U|UJv	7.34
CESIUM-137	10	pCi/L	-0.318±1.36	U|	2.30	8.34±2.48	J|	2.00	-1.26±1.33	U|	2.24	--			2.21±3.12	J|Jv	2.05
COBALT-60	10	pCi/L	1.36±1.84	U|Jv	2.81	-0.334±1.41	U|	2.53	1.19±1.42	U|	2.72	--			-0.0170±1.23	U|	2.28
GROSS ALPHA	2	pCi/L	1.50±0.837	|Jv	1.35	1.43±0.800	J|Jv	1.19	**2.47±1.15**	|Jv	1.67	--			1.67±0.558	J|	0.667
GROSS BETA	3	pCi/L	0.913±0.618	U|UJvd	1.20	1.34±0.767	U|UJv	1.41	0.580±0.918	U|	1.80	--			1.13±0.620	J|Jv	1.00
LEAD-210	450	pCi/L	89.7±242	U|	368	454±636	U|UJv	1010	10.4±44.7	U|UJv	31.0	--			584±555	U|UJv	891
LEAD-212	10	pCi/L	1.94±4.41	U|UJv	5.10	1.46±4.64	U|UJv	4.16	2.94±3.49	J|Jv	2.86	--			2.74±3.08	U|UJv	4.69
LEAD-214	10	pCi/L	3.87±5.32	U|UJv	6.08	1.29±3.07	U|	5.28	**17.8±5.07**		3.99	--			1.88±4.55	U|UJv	4.80
PLUTONIUM-241	10	pCi/L	-0.83±3.66	U|	6.28	1.00±4.24	U|	7.89	0.788±3.86	U|	6.59	--			-0.659±5.44	U|	9.37
POTASSIUM-40	100	pCi/L	18.9±16.0	U|UJv	31.4	19.7±17.3	U|UJv	33.9	21.2±15.7	U|UJv	30.4	--			29.2±15.0	U|UJv	31.0
RADIUM-226	1	pCi/L	0.700±0.506	J|Jv	0.573	**1.28±0.644**	|Jv	0.652	**3.28±1.05**		0.619	--			**3.06±0.951**		0.733
SODIUM-22	10	pCi/L	0.131±1.56	U|	2.45	0.849±1.40	U|	2.74	-0.478±1.46	U|	2.43	--			-0.537±1.07	U|	1.88
STRONTIUM-90	1	pCi/L	-0.210±0.285	U|	0.626	0.209±0.195	U|UJv	0.371	0.0609±0.320	U|	0.706	--			0.0866±0.247	U|	0.489
THALLIUM-208	5	pCi/L	0.624±3.25	U|UJv	2.96	1.64±1.46	U|UJv	2.76	0.00±1.57	U|	2.82	--			0.594±1.21	U|	2.24
THORIUM-234	200	pCi/L	90.9±67.0	U|UJv	118	109±107	U|UJv	175	34.8±37.3	U|UJv	53.8	--			89.2±132	U|UJv	134
TRITIUM	300	pCi/L	0.00±129	U|	230	0.00±149	U|	260	-130±139	U|	262	26.4±101	U|	178	0.00±150	U|	265
URANIUM-235	25	pCi/L	6.93±14.0	U|UJv	17.2	6.74±9.72	U|	17.2	2.05±13.8	U|UJv	10.7	--			2.74±9.29	U|	14.8
URANIUM-238	500	pCi/L	90.9±67.0	U|UJv	118	109±107	U|UJv	175	34.8±37.3	J|Jv	32.0	--			89.2±132	U|UJv	134

APPENDIX B
RADIONUCLIDES - GROUNDWATER
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		Location	UCD4-044			UCD4-044			UCD4-044		
		Sample ID	GWGW0923			GWGW0928			GWGW0956		
		Date	08/04/99			08/04/99			11/01/99		
		QA	DUPLICATE								
Analyte	CRDL	Units			MDA			MDA			MDA
ACTINIUM-228	20	pCi/L	3.40±6.99	U|UJv	8.32	5.08±6.82	U|UJv	7.95	8.82±10.5	U|UJv	14.0
AMERICIUM-241	1	pCi/L	-0.0549±0.0422	U|	0.295	-0.00763±0.00	U|	0.168	0.0154±0.295	U|	0.672
BISMUTH-212	70	pCi/L	3.82±8.76	U|	15.8	2.95±8.34	U|	14.7	0.00±18.4	U|	22.4
BISMUTH-214	10	pCi/L	0.00±4.91	U|UJf	5.62	**10.7±4.79**	|Jf	3.51	3.57±6.52	U|UJv	4.79
CARBON-14	20	pCi/L	1.84±4.54	U|	7.73	0.805±4.53	U|	7.78	2.37±5.29	U|UJd	9.01
CESIUM-137	10	pCi/L	-0.0369±0.976	U|	1.73	0.654±1.07	U|	1.92	2.14±2.92	U|UJv	3.20
COBALT-60	10	pCi/L	-0.669±1.14	U|	1.97	0.498±1.16	U|	2.12	0.562±1.93	U|	3.86
GROSS ALPHA	2	pCi/L	1.23±0.916	U|UJv	1.60	1.01±0.694	U|UJv	1.09	**2.93±1.09**		1.24
GROSS BETA	3	pCi/L	-0.243±0.780	U|	1.61	0.863±0.839	U|UJv	1.61	1.47±0.957	U|UJv	1.85
LEAD-210	450	pCi/L	198±292	U|UJv	447	250±183	U|UJv	289	347±444	U|UJv	740
LEAD-212	10	pCi/L	0.00±2.16	U|	3.83	0.782±3.29	U|UJv	3.65	2.83±3.61	U|UJv	6.43
LEAD-214	10	pCi/L	0.00±5.06	U|	5.43	6.39±4.05	J|Jv	3.76	4.20±7.82	U|UJv	7.23
PLUTONIUM-241	10	pCi/L	-1.37±4.70	U|	7.71	0.475±5.11	U|	8.32	**10.8±5.06**	|Jv	8.30
POTASSIUM-40	100	pCi/L	0.00±15.0	U|	30.3	10.8±24.8	U|UJv	18.8	16.4±22.7	U|	46.3
RADIUM-226	1	pCi/L	0.420±0.593	U|UJv	1.01	0.975±0.673	J|Jv	0.824	**107±5.90**		1.01
SODIUM-22	10	pCi/L	0.382±1.05	U|	2.01	-0.497±1.10	U|	1.87	-0.00503±1.93	U|	3.69
STRONTIUM-90	1	pCi/L	-0.122±0.340	U|	0.801	0.228±0.292	U|	0.608	-0.222±0.240	U|	0.540
THALLIUM-208	5	pCi/L	2.13±1.20	U|UJv	2.29	0.00±1.20	U|	2.27	0.868±2.80	U|	4.00
THORIUM-234	200	pCi/L	76.5±62.3	U|UJv	110	36.8±93.7	U|UJv	75.4	12.6±121	U|	163
TRITIUM	300	pCi/L	-80.7±120	U|	210	-68.8±121	U|	211	-88.8±136	U|	252
URANIUM-235	25	pCi/L	3.21±7.45	U|	12.9	4.28±8.12	U|	12.7	4.13±12.7	U|	22.3
URANIUM-238	500	pCi/L	76.5±62.3	U|UJv	110	36.8±93.7	U|UJv	75.4	12.6±121	U|	165

APP. X B
FIELD PARAMETERS - STORM WATER
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DAVIS, CALIFORNIA

Location	Date	Analyte Units	EC-F umhos/cm	EH-F mvolts	PH-F	TEMPERATURE degree C	TURBIDITY-F ntu
LF-01	01/31/99		44	215	7.90	9.1	2.48
LF-01	03/25/99		110	--	7.62	14.3	--
LF-01	11/19/99		73	215	7.25	12.3	277
LF-03	01/31/99		111	132	9.49	11.3	761
LF-03	03/25/99		540	--	7.40	14.4	--
LF-03	11/19/99		116	174	8.14	12.5	35.7
LS-01	01/31/99		28	215	7.87	10.1	32.2
LS-01	11/19/99		56	158	7.93	14.8	352

APPENDIX B
METALS - STORM WATER
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		Location	LF-01		LF-01		LF-01		LF-03		LF-03		LF-03		LS-01		LS-01	
		Sample ID	STMW0109		STMW0112		STMW0113		STMW0110		STMW0111		STMW0114		RWSW0018		RWSW0019	
		Date	01/31/99		03/25/99		11/19/99		01/31/99		03/25/99		11/19/99		01/31/99		11/19/99	
		QA																
Analyte	CRDL	Units																
ALUMINUM	200	ug/L	--		--		--		--		--		--		29.7	B|	**1760**	
ANTIMONY	5	ug/L	0.31	B|Uo	<0.73	B|Uop	<0.73	B|Uo	0.63	B|Uo	<0.89	B|Uop	<5.0		**13.6**	B|	**12.6**	B|
ARSENIC	3	ug/L	1.0	B|	0.88	B|	1.1	B|	**9.7**		**5.6**		**4.1**		<10		<10.0	
BARIUM	20	ug/L	14.0	B|	**29.5**		17.6	BE|Jk	18.2	B|	**52.1**		9.9	BE|Jk	5.20	BE|	**53.6**	B|
BERYLLIUM	1	ug/L	0.01	B|	<0.08	B|Uop	<1.0		0.05	B|	<0.05	B|Uop	<1.0		0.14	B|	<5.0	
CADMIUM	1	ug/L	0.07	B|Uo	<1.0		<1.0		<1.0		<1.0		<1.0		0.49	B|	<5.0	
CALCIUM	2000	ug/L	--		--		--		--		--		--		1440	B|	**2670**	B|
CHROMIUM	10	ug/L	2.5	B|	4.2	B|	4.8	BE|Jk	**18.2**		4.4	B|	**20.8**	E|Jk	<0.50	B|UJz	7.3	B|
CHROMIUM, HEXAVALENT	10	ug/L	--		<10	|UJm	--		--		7.0	J|Jm	--		<50		<20.0	|UJhm
COBALT	10	ug/L	1.9	B|	3.7	B|	0.82	B|	4.3	B|	7.1	B|	0.58	B|	<0.69	B|UJz	1.5	B|
COPPER	10	ug/L	4.0	B|	5.5	B|	5.7	BE|Jk	6.5	B|	**22.2**		3.6	BE|Jk	<2.9	B|UJz	2.5	B|
IRON	100	ug/L	**576**	E|Jk	**388**		**621**	E|Jk	**2490**	E|Jk	**418**		**322**	E|Jk	<62.9	B|UJz	**2450**	
LEAD	3	ug/L	0.63	B|	0.49	BE|	0.42	B|	1.2	B|	0.24	BE|	<2.0		<3		**3.5**	
MANGANESE	10	ug/L	**14.9**	E|Jk	**34.1**	E|Jk	**21.3**	E|Jk	**48.3**	E|Jk	**22.3**	E|Jk	8.5	BE|Jk	--		**61.9**	
MANGNESIUM	2000	ug/L	--		--		--		--		--		--		--		**2220**	B|
MERCURY	0.2	ug/L	<0.2		<0.2		<0.2		<0.2		<0.2		<0.2		<0.2		<0.2	
MOLYBDENUM	10	ug/L	0.43	B|Uo	0.97	B|	0.43	B|	3.1	B|	7.0	B|	3.3	B|	0.75	B|	<10.0	
NICKEL	20	ug/L	7.4	BE|Jk	9.9	B|	9.3	BE|Jk	19.7	B|	**34.3**		5.2	BE|Jk	<3.5	B|UJz	15.0	B|
POTASSIUM	2000	ug/L	--		--		--		--		--		--		--		1930	B|
SELENIUM	3	ug/L	2.4	B|	<3.0		<0.40	B|Uo	2.2	B|	<3.0		<0.43	B|Uop	<5		<5.0	
SILVER	10	ug/L	<10.0		<0.06	B|Uo	<0.20	B|Uop	<10.0		<10.0		<0.15	B|Uop	<10		<10.0	
SODIUM	2000	ug/L	--		--		--		--		--		--		--		**7680**	|Jd
THALLIUM	10	ug/L	<10.0		<0.50	B|Uo	<1.1	B|Uo	<10.0		<0.12	B|Uo	<0.42	B|Uo	<10		3.7	B|
VANADIUM	10	ug/L	<10.0		<2.6	B|Uop	3.0	BE|	**37.3**		<13.6	|Uop	**21.1**	E|Jk	1.9	B|	9.3	B|
ZINC	20	ug/L	17.6	BE|Jk	**44.1**		**28.9**	E|Jk	11.2	B|	**60.1**		4.0	BE|	<31.7	|UJz	**49.8**	E|

AP X B
GENERAL CHEMICALS - STORM WATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

Analyte	CRDL	Units	LF-01 STMW0109 01/31/99	LF-01 STMW0112 03/25/99	LF-01 STMW0113 11/19/99	LF-03 STMW0110 01/31/99	LF-03 STMW0111 03/25/99	LF-03 STMW0114 11/19/99	LS-01 RWSW0018 01/31/99	LS-01 RWSW0019 11/19/99
		Location	LF-01	LF-01	LF-01	LF-03	LF-03	LF-03	LS-01	LS-01
		Sample ID	STMW0109	STMW0112	STMW0113	STMW0110	STMW0111	STMW0114	RWSW0018	RWSW0019
		Date	01/31/99	03/25/99	11/19/99	01/31/99	03/25/99	11/19/99	01/31/99	11/19/99
		QA								
ALKALINITY, TOTAL AS CACO3	10	mg/L	--	--	--	--	--	--	--	**20.0**
CHLORIDES	1	mg/L	--	--	--	--	--	--	--	**2.29**
NITROGEN, NITRATE	0.1	mg/L	**1.78**	**2.15**	--	**0.317**	**5.09**	--	**0.44** J|	**0.488** |Jh
OIL AND GREASE	2	mg/L	<2.00	--	**2.45** J|	1.81 J|	--	<5.00	<2.00	**2.20** J|
PHOSPHORUS, TOTAL AS PO4	1	mg/L	--	--	--	--	--	--	--	0.190 |Jd
SULFATE AS SO4	1	mg/L	--	--	--	--	--	--	--	**7.48**
TOTAL DISSOLVED SOLIDS	20	mg/L	**39**	**54**	**54.0**	**118**	**302**	**87.0**	--	**46.0**
TOTAL ORGANIC CARBON	1.00	mg/L	**7.02**	**8.95**	**7.74**	**8.69**	**76.6**	**6.12**	--	--
TOTAL SUSPENDED SOLIDS	10	mg/L	**119**	**41.8**	<5.00	**48.4**	**80.7**	<7.15	--	--
ACUTE BIOASSAY										
ACUTE AQUATIC TOXICITY- SURVIVAL		%	**95**	**95**	**97.5**	**100**	**100**	**100**	**87.5**	**97.5**

Acute bioassay results denote the percentage of fish (pimephalis species) that survived in a 100% concentration of the sample water.

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - STORM WATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	LF-01		LF-01		LF-01		LF-03		LF-03		LF-03		LS-01		LS-01	
		Sample ID	STMW0109		STMW0112		STMW0113		STMW0110		STMW0111		STMW0114		RWSW0018*		RWSW0019	
		Date	01/31/99		03/25/99		11/19/99		01/31/99		03/25/99		11/19/99		01/31/99		11/19/99	
		QA																
Analyte	CRDL	Units																
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<10		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		--		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		--		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		--		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
1,2-DICHLOROETHENE	0.50	ug/L	--		--		--		--		--		--		<10		--	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		--		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		--		<0.50	
2-BUTANONE	1.0	ug/L	0.62	J|	<1.0		<1.0		0.61	J|	0.51	J|	<1.0		<10		<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0		**1.1**		<1.0		<1.0		<1.0		<10		0.79	J|Jq
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0		**1.3**		<1.0		<1.0		<1.0		<10		0.90	J|Jq
ACETONE	5.0	ug/L	0.8	J|	0.72	J|Jc	1.2	J|	<5.0		2.6	J|Jc	<5.0		<10		**8.1**	
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		--		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
BROMOMETHANE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	|UJI	<10		<1.0	|UJc
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<10		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJI	<0.50		<0.50		<0.50		<10		<0.50	|UJc
CHLOROFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.75	JB|UJz	<0.50	
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50	|UJI	<0.50		<0.50		<0.50	|UJI	<0.50		<10		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		--		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<1.0		<1.0	|Rlc	<1.0		<1.0		<1.0		<4.24	JB|UJz	<1.8	B|UJzc
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.1	J|Uy	0.19	J|	**4.1**	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		--		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<10		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<10		<1.0	

* = A mid-level analysis was performed for this sample due to an error on the chain-of-custody.
Rwat1999 on 3/2/00 at 5:19 PM

AP X B
PESTICIDES/PCBs - STORM WATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	LF-01	LF-01	LF-01	LF-03	LF-03	LF-03	LS-01	LS-01
		Sample ID	STMW0109	STMW0112	STMW0113	STMW0110	STMW0111	STMW0114	RWSW0018	RWSW0019
		Date	01/31/99	03/25/99	11/19/99	01/31/99	03/25/99	11/19/99	01/31/99	11/19/99
		QA								
Analyte	CRDL	Units								
4,4'-DDD	0.02	ug/L	<0.02	<0.02 |UJQ	<0.021	<0.02	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
4,4'-DDE	0.02	ug/L	<0.02	<0.02	<0.021	<0.02	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
4,4'-DDT	0.02	ug/L	<0.02	<0.02 |Rc	<0.021	<0.02	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
ALDRIN	0.01	ug/L	<0.01	<0.01 |UJm	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
ALPHA-BHC	0.01	ug/L	<0.01	<0.01	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
ALPHA-CHLORDANE	0.01	ug/L	<0.01	<0.01 |UJQ	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
AROCLOR-1016	0.2	ug/L	<0.064	<0.05 |UJQ	<0.052	<0.064	<0.05 |Rg	<0.050 |UJs	<1	<1.0
AROCLOR-1221	0.4	ug/L	<0.064	<0.05	<0.052	<0.064	<0.05 |Rg	<0.050 |UJs	<2.1	<2.0
AROCLOR-1232	0.2	ug/L	<0.064	<0.05	<0.052	<0.064	<0.05 |Rg	<0.050 |UJs	<1	<1.0
AROCLOR-1242	0.2	ug/L	<0.064	<0.05	<0.052	<0.064	<0.05 |Rg	<0.050 |UJs	<1	<1.0
AROCLOR-1248	0.2	ug/L	<0.064	<0.05	<0.052	<0.064	<0.05 |Rg	<0.050 |UJs	<1	<1.0
AROCLOR-1254	0.2	ug/L	<0.064	<0.05	<0.052 |UJc	<0.064	<0.05 |Rg	<0.050 |UJcs	<1	<1.0
AROCLOR-1260	0.2	ug/L	<0.064	<0.05 |UJcQ	<0.052	<0.064	<0.05 |Rg	<0.050 |UJs	<1	<1.0
BETA-BHC	0.01	ug/L	<0.01	<0.01 |UJQ	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
DELTA-BHC	0.01	ug/L	<0.01	<0.01	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
DIELDRIN	0.02	ug/L	<0.02	<0.02 |UJm	<0.021	0.0054 J|	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
ENDOSULFAN I	0.01	ug/L	<0.01	<0.01 |UJQ	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
ENDOSULFAN II	0.02	ug/L	<0.02	<0.02 |Rc	<0.021	<0.02	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
ENDOSULFAN SULFATE	0.02	ug/L	<0.02	<0.02 |UJQ	<0.021	<0.02	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
ENDRIN	0.02	ug/L	<0.02	<0.02	<0.021	<0.02	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
ENDRIN ALDEHYDE	0.02	ug/L	<0.02	<0.02 |UJQ	<0.021	<0.02	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
ENDRIN KETONE	0.02	ug/L	<0.02	<0.02 |UJc	<0.021	<0.02	<0.02 |Rg	<0.020 |UJs	<0.1	<0.10
GAMMA-BHC	0.01	ug/L	<0.01	<0.01 |UJmQ	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
GAMMA-CHLORDANE	0.01	ug/L	<0.01	<0.01 |UJQ	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
HEPTACHLOR	0.01	ug/L	<0.01	<0.01 |UJc	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.01	<0.01 |UJQ	<0.010	<0.01	<0.01 |Rg	<0.010 |UJs	<0.05	<0.050
METHOXYCHLOR	0.1	ug/L	<0.1	<0.1 |UJc	<0.10	<0.1	<0.1 |Rg	<0.10 |UJs	<0.53	<0.50
TOXAPHENE	1.0	ug/L	<0.51	<0.5 |Rc	<0.52	<0.51	<0.5 |Rg	<0.50 |UJs	<5.3	<5.0

APPENDIX B
RADIONUCLIDES - STORM WATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	LF-01				LF-01				LF-01				LF-03				LF-03			
		Sample ID	STMW0109				STMW0112				STMW0113				STMW0110				STMW0111			
		Date	01/31/99				03/25/99				11/19/99				01/31/99				03/25/99			
		QA																				
Analyte	CRDL	Units				MDA				MDA				MDA				MDA				MDA
ACTINIUM-228	20	pCi/L	--				--				--				--				--			
AMERICIUM-241	1	pCi/L	--				--				--				--				--			
BISMUTH-212	70	pCi/L	--				--				--				--				--			
BISMUTH-214	10	pCi/L	--				--				--				--				--			
CARBON-14	20	pCi/L	-5.2±4.75			50	1.05±4.36			7.46	-1.54±7.81			13.7	11±5.58	J|Jv		50	-2.64±6.99			12.2
CESIUM-137	10	pCi/L	--				--				--				--				--			
COBALT-60	10	pCi/L	--				--				--				--				--			
GROSS ALPHA	2	pCi/L	--				--				--				--				--			
GROSS BETA	3	pCi/L	--				--				--				--				--			
LEAD-210	450	pCi/L	--				--				--				--				--			
LEAD-212	10	pCi/L	--				--				--				--				--			
LEAD-214	10	pCi/L	--				--				--				--				--			
PLUTONIUM-241	10	pCi/L	--				--				--				--				--			
POTASSIUM-40	100	pCi/L	--				--				--				--				--			
RADIUM-223		pCi/L	--				--				--				--				--			
RADIUM-226	1	pCi/L	0.211±0.414			1	0.243±0.213	J|Jvd		0.132	0.333±0.326	J|Jv		0.226	0.348±0.305	J|Jv		1	0.194±0.269	|UJvd		0.452
RADIUM-228	15	pCi/L	--				--				--				--				--			
STRONTIUM-90	1	pCi/L	-0.419±0.38			1	0.520±0.531	|UJv		0.845	0.0175±0.296			0.508	0.187±0.349			1	0.472±0.462	|UJv		0.733
THALLIUM-208	5	pCi/L	--				--				--				--				--			
THORIUM-234	200	pCi/L	--				--				--				--				--			
TRITIUM	300	pCi/L	-300±107			300	-224±130			240	0.00±91.0			160	-229±108			300	-257±129			240

APPENDIX B
RADIONUCLIDES - STORM WATER
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	LF-03		LS-01			LS-01	
		Sample ID	STMW0114		RWSW0018			RWSW0019	
		Date	11/19/99		01/31/99			11/19/99	
		QA							
Analyte	CRDL	Units		MDA			MDA		MDA
ACTINIUM-228	20	pCi/L	--		4.72±4.83		8.99	8.57±5.74	11.4
AMERICIUM-241	1	pCi/L	--		0.30±0.328		0.42	--	
BISMUTH-212	70	pCi/L	--		4.20±9.67		17.5	13.6±11.4	22.3
BISMUTH-214	10	pCi/L	--		1.18±2.74		4.89	3.23±5.63	6.43
CARBON-14	20	pCi/L	0.366±4.76	8.23	1.85±5.43		9.29	5.11±6.93	11.7
CESIUM-137	10	pCi/L	--		0.66±1.36		2.46	0.673±1.61	2.95
COBALT-60	10	pCi/L	--		-0.61±1.18		2.02	0.808±1.38	2.82
GROSS ALPHA	2	pCi/L	--		0.21±0.252		0.46	0.644±0.429	0.667
GROSS BETA	3	pCi/L	--		2.00±0.583	J|	0.99	**4.03±0.679**	0.977
LEAD-210	450	pCi/L	--		-42.00±238		353	267±277	434
LEAD-212	10	pCi/L	--		0.98±4.08		4.41	0.00±8.21	5.34
LEAD-214	10	pCi/L	--		4.33±2.72		4.91	**11.0±5.78**	4.75
PLUTONIUM-241	10	pCi/L	--		1.02±3.77		6.41	--	
POTASSIUM-40	100	pCi/L	--		0.00±17.6		35.8	16.4±21.4	37.7
RADIUM-223		pCi/L	--		-18.80±27.5		43.7	-11.4±32.0	52.3
RADIUM-226	1	pCi/L	0.238±0.466	0.855	0.14±0.454		0.88	0.914±0.717	0.986
RADIUM-228	15	pCi/L	--		4.72±4.83		8.99	8.57±5.74	11.4
STRONTIUM-90	1	pCi/L	-0.0477±0.215	0.372	0.55±0.352		0.57	0.0770±0.253	0.539
THALLIUM-208	5	pCi/L	--		0.90±1.26		2.32	1.02±1.60	2.97
THORIUM-234	200	pCi/L	--		76.60±64.9		107	100±132	127
TRITIUM	300	pCi/L	-88.3±86.6	160	-174.0±247		448	-30.3±203	373

A. . ENDIX B
FIELD PARAMETERS - SURFACE WATER
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DAVIS, CALIFORNIA

Location	Date	Analyte Units	EC-F umhos/cm	EH-F mvolts	PH-F	TEMPERATURE degree C	TURBIDITY-F ntu
PC2	01/20/99		660	--	8.07	13.39	15.6
PC2	03/25/99		480	--	8.09	14.94	16.0
PC2	11/19/99		357	--	7.74	12.10	10.2
PCD	01/20/99		630	--	7.95	13.83	18.1
PCD	03/25/99		300	--	8.1	15.22	25.8
PCD	11/19/99		402.5	198	7.68	12.6	8.45
PCU	01/20/99		690		7.97	13.39	13.4
PCU	03/25/99		390	--	8.40	15.5	23.0
PCU	11/19/99		610.5	182	8.41	12.6	32.3
STPO	01/20/99		128		7.27	18.94	7.4
STPO	03/25/99		1040	--	7.32	18.72	18.5

APPENDIX B
METALS - SURFACE WATER
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DAVIS, CALIFORNIA

		Location	PCD		PCD		PCD		PCD		PCU		PCU		PCU		PCU		STPO	
		Sample ID	SWSW0230		SWSW0231		SWSW0234		SWSW0239		SWSW0228		SWSW0233		SWSW0237		SWSW0241		SWSW0229	
		Date	01/20/99		01/20/99		03/25/99		11/19/99		01/20/99		03/25/99		11/19/99		11/19/99		01/20/99	
		QA			DUPLICATE												DUPLICATE			
Analyte	CRDL	Units																		
ANTIMONY	5	ug/L	<0.57	B|Uo	<0.57	B|Uo	<0.45	B|Uop	<5.0		<0.36	B|Uo	<0.39	B|Uop	<0.98	B|Uo	<0.94	B|Uo	<0.27	B|Uo
ARSENIC	3	ug/L	<2.00		0.83	B|	0.89	B|	**5.0**		0.81	B|	0.49	B|	**5.4**		**6.7**		**3.50**	
BARIUM	20	ug/L	**102**		**105**		**55.6**		**58.3**	E|Jk	**112**		**53.4**		**91.3**	E|Jk	**95.0**	E|Jk	**35.60**	
BERYLLIUM	1	ug/L	<1.00		0.02	B|	<0.04	B|Uop	<1.0		0.01	B|	<0.05	B|Uop	<1.0		<1.0		<1.00	
CADMIUM	1	ug/L	<1.00		0.06	B|	<1.0		<1.0		0.04	B|	<1.0		<1.0		0.19	B|	0.04	B|
CHROMIUM	10	ug/L	6.20	B|	6.30	B|	<1.9	B|Uop	6.2	BE|Jk	6.60	B|	<1.0	B|Uop	4.4	BE|Jk	4.1	BE|Jk	4.00	B|
CHROMIUM, HEXAVALENT	10	ug/L	<10		<10		<10	|UJm	--		7.0	J|	<10	|UJm	--		--		<10	
COBALT	10	ug/L	0.26	B|	0.29	B|	0.52	B|	0.37	B|	0.25	B|	0.13	B|	0.38	B|	0.37	B|	0.59	B|
COPPER	10	ug/L	3.70	BE|Jk	3.90	BE|Jk	2.2	B|	6.7	BE|Jk	2.50	BE|Jk	1.7	B|	2.8	BE|Jk	2.5	BE|Jk	<23.10	E|Jk
IRON	100	ug/L	**413**		**441**		54.3	B|	91.7	BE|Jk	**474**		37.2	B|	**121**	E|Jk	**127**	E|Jk	**284**	
LEAD	3	ug/L	<0.16	B|Up	<0.25	B|Up	<0.06	BE|Up	0.23	B|	<0.12	B|Up	<0.06	BE|Up	0.11	B|	0.14	B|	<0.31	B|Up
MANGANESE	10	ug/L	**10.30**		**13.50**		9.3	BE|Jk	5.8	BE|Jk	7.60	B|	4.5	BE|Jk	**26.5**	E|Jkf	**11.6**	E|Jkf	7.30	B|
MERCURY	0.2	ug/L	<0.20		<0.20		<0.2		<0.2		<0.20		<0.2		<0.2		<0.2		<0.20	
MOLYBDENUM	10	ug/L	8.00	B|	8.20	B|	0.95	B|	6.5	B|	3.90	B|	0.69	B|	3.5	B|	3.5	B|	**13.20**	
NICKEL	20	ug/L	4.30	B|Jk	4.50	B|Jk	3.8	B|	1.8	BE|Jk	3.70	B|Jk	<2.5	B|Up	4.6	BE|Jk	3.9	BE|Jk	3.30	B|Jk
SELENIUM	3	ug/L	<3.00	|UJo	<3.00	|UJo	<3.0		1.9	B|	<3.00	|UJo	<3.0		<1.2	B|Uo	<1.5	B|Uo	<3.00	|UJo
SILVER	10	ug/L	<10.00		<0.03	B|Uo	<10.0		<0.49	B|Uop	<0.11	B|Uo	<10.0		<0.15	B|Uop	<0.12	B|Uop	<0.08	B|Uo
THALLIUM	10	ug/L	<10.00		<10.00		<0.06	B|Uo	<0.10	B|Uo	<0.24	B|Uo	<0.03	B|Uo	<0.24	B|Uo	<0.04	B|Uo	<0.05	B|Uo
VANADIUM	10	ug/L	6.30	B|	5.90	B|	<6.7	B|Uop	**15.8**	E|Jk	4.10	B|	<5.9	B|Uop	**10.6**	E|Jk	**10.4**	E|Jk	**14.60**	
ZINC	20	ug/L	13.90	BE|Jk	16.00	BE|Jk	8.7	B|	**67.5**	E|Jk	12.90	BE|Jk	6.2	B|	5.1	BE|	6.6	BE|	**57.90**	E|Jk

A _NDIX B
METALS - SURFACE WATER
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		Location	STPO		STPO	
		Sample ID	SWSW0235		SWSW0238	
		Date	03/25/99		11/19/99	
		QA				
Analyte	CRDL	Units				
ANTIMONY	5	ug/L	<0.54	B|Uop	<5.0	
ARSENIC	3	ug/L	**3.0**	B|	**3.1**	
BARIUM	20	ug/L	**44.0**		**79.8**	E|Jk
BERYLLIUM	1	ug/L	<0.04	B|Uop	<1.0	
CADMIUM	1	ug/L	<1.0		<1.0	
CHROMIUM	10	ug/L	3.6	B|	4.4	B|Jk
CHROMIUM, HEXAVALENT	10	ug/L	<10	|UJm	--	
COBALT	10	ug/L	0.47	B|	0.17	B|
COPPER	10	ug/L	**14.6**		2.0	BE|Jk
IRON	100	ug/L	**105**		**119**	E|Jk
LEAD	3	ug/L	0.53	BE|Jk	<2.0	
MANGANESE	10	ug/L	**15.1**	E|Jk	5.9	BE|Jk
MERCURY	0.2	ug/L	<0.2		<0.2	
MOLYBDENUM	10	ug/L	5.3	B|	0.98	B|
NICKEL	20	ug/L	<3.4	B|Up	2.9	BE|Jk
SELENIUM	3	ug/L	<3.0		<0.47	B|Uo
SILVER	10	ug/L	0.36	B|	<0.14	B|Uop
THALLIUM	10	ug/L	<0.01	B|Uo	<0.15	B|Uo
VANADIUM	10	ug/L	<19.8	|Uop	5.7	BE|Jk
ZINC	20	ug/L	**40.4**		10.2	BE|Jk

APPENDIX B
GENERAL CHEMICALS - SURFACE WATER
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DAVIS, CALIFORNIA

		Location	PC2	PC2	PC2	PCD	PCD	PCD	PCD	PCU	PCU	PCU
		Sample ID	SWSW0232	SWSW0236	SWSW0240	SWSW0230	SWSW0231	SWSW0234	SWSW0239	SWSW0228	SWSW0233	SWSW0237
		Date	01/20/99	03/25/99	11/19/99	01/20/99	01/20/99	03/25/99	11/19/99	01/20/99	03/25/99	11/19/99
		QA					DUPLICATE					
Analyte	CRDL	Units										
NITROGEN, NITRATE	0.1	mg/L	--	--		**3.24**	**3.28**	**0.222**	--	**3.53**	0.078	--
TOTAL DISSOLVED SOLIDS	20	mg/L	--	--		**340**	**344**	**199**	**615**	**341**	**171**	**329**
CHRONIC BIOASSAY-NOEC												
CERIODAPHNIA SPECIES - SURVIVAL		%	**100**	**100**	**100**	**100**	--	**100**	**100**	**100**	**100**	**100**
CERIODAPHNIA SPECIES - REPRODUCTION		%	**100**	**100**	**100**	**100**	--	**100**	**100**	**100**	**100**	**100**
PIMEPHALIS SPECIES - GROWTH		%	**100**	**100**	**25**	**100**	--	**100**	**100**	NA	NA	**100**
PIMEPHALIS SPECIES - SURVIVAL		%	**100**	**100**	**100**	**100**	--	**100**	**100**	**50**	**75**	**100**
SELENASTRUM SPECIES - GROWTH		%	**100**	**100**	**100**	**100**	--	**100**	**100**	**100**	**100**	**75**

NA = Not applicable due to the mortalities.

NOEC = No Observed Effect Concentration, the concentration (100%, 75%, 50%, or 25%) of the initial sample at which no statistically significant adverse effects were observed. The endpoints measured were: mortality, reproduction, and growth, as appropriate to the specific bioassay protocol.

GENERAL CHEMICALS - SURFACE WATER
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		Location	PCU	STPO	STPO	STPO
		Sample ID	SWSW0241	SWSW0229	SWSW0235	SWSW0238
		Date	11/19/99	01/20/99	03/25/99	11/19/99
		QA	DUPLICATE			
Analyte	CRDL	Units				
NITROGEN, NITRATE	0.1	mg/L	--	**10.40**	**6.56**	--
TOTAL DISSOLVED SOLIDS	20	mg/L	**331**	**630**	**547**	**248**
CHRONIC BIOASSAY-NOEC						
CERIODAPHNIA SPECIES - SURVIVAL		%	--	**100**	**100**	**100**
CERIODAPHNIA SPECIES - REPRODUCTION		%	--	**100**	**100**	**100**
PIMEPHALIS SPECIES - GROWTH		%	--	**100**	**100**	**100**
PIMEPHALIS SPECIES - SURVIVAL		%	--	**100**	**100**	**100**
SELENASTRUM SPECIES - GROWTH		%	--	**100**	**100**	**100**

NA = Not applicable due to the mortalities.

NOEC = No Observed Effect Concentration, the concentration (100%, 75%, 50%, or 25%) of the initial sample at which no statistically significant adverse effects were observed. The endpoints measured were: mortality, reproduction, and growth, as appropriate to the specific bioassay protocol.

APPENDIX B
PESTICIDES/PCBs - SURFACE WATER
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LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

		Location	PCD	PCD	PCD	PCD	PCU	PCU	PCU	PCU	STPO	STPO
		Sample ID	SWSW0230	SWSW0231	SWSW0234	SWSW0239	SWSW0228	SWSW0233	SWSW0237	SWSW0241	SWSW0229	SWSW0235
		Date	01/20/99	01/20/99	03/25/99	11/19/99	01/20/99	03/25/99	11/19/99	11/19/99	01/20/99	03/25/99
		QA		DUPLICATE						DUPLICATE		
Analyte	CRDL	Units										
4,4'-DDD	0.02	ug/L	<0.02	<0.02	<0.02 |UJQ	<0.10	<0.02	<0.02 |Rg	<1.0	<1.0	<0.02 |UJs	<0.02 |UJQ
4,4'-DDE	0.02	ug/L	<0.02	<0.02	<0.02	<0.10	<0.02	<0.02 |Rg	<1.0	<1.0	<0.02 |UJs	<0.02
4,4'-DDT	0.02	ug/L	<0.02 |UJc	<0.02 |UJc	<0.02 |Rc	<0.10	<0.02 |UJc	<0.02 |Rg	<1.0	<1.0	<0.02 |UJc	<0.02 |Rc
ALDRIN	0.01	ug/L	<0.01 |UJl	<0.01 |UJl	<0.01	<0.050	<0.01 |UJl	<0.01 |Rg	<0.50	<0.50	<0.01 |UJl	<0.01
ALPHA-BHC	0.01	ug/L	<0.01	<0.01	<0.01	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01
ALPHA-CHLORDANE	0.01	ug/L	<0.01	<0.01	<0.01 |UJQ	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01 |UJQ
AROCLOR-1016	0.2	ug/L	<0.05	<0.05	<0.05 |UJQ	<0.25	<0.05	<0.05 |Rg	<2.5	<2.5	<0.05 |UJs	<0.05 |UJQ
AROCLOR-1221	0.4	ug/L	<0.05	<0.05	<0.05	<0.25	<0.05	<0.05 |Rg	<2.5	<2.5	<0.05 |UJs	<0.05
AROCLOR-1232	0.2	ug/L	<0.05	<0.05	<0.05	<0.25	<0.05	<0.05 |Rg	<2.5	<2.5	<0.05 |UJs	<0.05
AROCLOR-1242	0.2	ug/L	<0.05	<0.05	<0.05	<0.25	<0.05	<0.05 |Rg	<2.5	<2.5	<0.05 |UJs	<0.05
AROCLOR-1248	0.2	ug/L	<0.05	<0.05	<0.05	<0.25	<0.05	<0.05 |Rg	<2.5	<2.5	<0.05 |UJs	<0.05
AROCLOR-1254	0.2	ug/L	<0.05	<0.05	<0.05	<0.25 |UJc	<0.05	<0.05 |Rg	<2.5 |UJc	<2.5 |UJc	<0.05 |UJs	<0.05
AROCLOR-1260	0.2	ug/L	<0.05	<0.05	<0.05 |UJcQ	<0.25	<0.05	<0.05 |Rg	<2.5	<2.5	<0.05 |UJs	<0.05 |UJcQ
BETA-BHC	0.01	ug/L	<0.01	<0.01	<0.01 |UJQ	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01 |UJQ
DELTA-BHC	0.01	ug/L	<0.01	<0.01	<0.01	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01
DIELDRIN	0.02	ug/L	<0.02	<0.02	<0.02	<0.10	<0.02	<0.02 |Rg	<1.0	<1.0	<0.02 |UJs	<0.02
ENDOSULFAN I	0.01	ug/L	<0.01	<0.01	<0.01 |UJQ	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01 |UJQ
ENDOSULFAN II	0.02	ug/L	<0.02	<0.02	<0.02 |UJQ	<0.10	<0.02	<0.02 |Rg	<1.0	<1.0	<0.02 |UJs	<0.02 |UJQ
ENDOSULFAN SULFATE	0.02	ug/L	<0.02	<0.02	<0.02 |UJQ	<0.10	<0.02	<0.02 |Rg	<1.0	<1.0	<0.02 |UJs	<0.02 |UJQ
ENDRIN	0.02	ug/L	<0.02	<0.02	<0.02	<0.10	<0.02	<0.02 |Rg	<1.0	<1.0	<0.02 |UJs	<0.02
ENDRIN ALDEHYDE	0.02	ug/L	<0.02	<0.02	<0.02 |UJQ	<0.10	<0.02	<0.02 |Rg	<1.0	<1.0	<0.02 |UJs	<0.02 |UJQ
ENDRIN KETONE	0.02	ug/L	<0.02	<0.02	<0.02 |UJc	<0.10	<0.02	<0.02 |Rg	<1.0	<1.0	<0.02 |UJs	<0.02 |UJc
GAMMA-BHC	0.01	ug/L	<0.01	<0.01	<0.01 |UJQ	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01 |UJQ
GAMMA-CHLORDANE	0.01	ug/L	<0.01	<0.01	<0.01 |UJQ	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01 |UJQ
HEPTACHLOR	0.01	ug/L	<0.01	<0.01	<0.01 |UJc	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01 |UJc
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.01	<0.01	<0.01 |UJQ	<0.050	<0.01	<0.01 |Rg	<0.50	<0.50	<0.01 |UJs	<0.01 |UJQ
METHOXYCHLOR	0.1	ug/L	<0.10	<0.10	<0.1 |UJc	<0.50	<0.10	<0.1 |Rg	<5.0	<5.0	<0.10 |UJs	<0.1 |UJc
TOXAPHENE	1.0	ug/L	<0.50	<0.50	<0.5 |Rc	<2.5	<0.50	<0.5 |Rg	<25.0	<25.0	<0.50 |UJs	<0.5 |Rc

, ENDIX B
PESTICIDES/PCBs - SURFACE WATER
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		Location	STPO	
		Sample ID	SWSW0238	
		Date	11/19/99	
		QA		
Analyte	CRDL	Units		
4,4'-DDD	0.02	ug/L	<0.020	
4,4'-DDE	0.02	ug/L	<0.020	
4,4'-DDT	0.02	ug/L	<0.020	
ALDRIN	0.01	ug/L	<0.010	
ALPHA-BHC	0.01	ug/L	<0.010	
ALPHA-CHLORDANE	0.01	ug/L	<0.010	
AROCLOR-1016	0.2	ug/L	<0.051	
AROCLOR-1221	0.4	ug/L	<0.051	
AROCLOR-1232	0.2	ug/L	<0.051	
AROCLOR-1242	0.2	ug/L	<0.051	
AROCLOR-1248	0.2	ug/L	<0.051	
AROCLOR-1254	0.2	ug/L	<0.051	|UJc
AROCLOR-1260	0.2	ug/L	<0.051	
BETA-BHC	0.01	ug/L	<0.010	
DELTA-BHC	0.01	ug/L	<0.010	
DIELDRIN	0.02	ug/L	<0.020	
ENDOSULFAN I	0.01	ug/L	<0.010	
ENDOSULFAN II	0.02	ug/L	<0.020	
ENDOSULFAN SULFATE	0.02	ug/L	<0.020	
ENDRIN	0.02	ug/L	<0.020	
ENDRIN ALDEHYDE	0.02	ug/L	<0.020	
ENDRIN KETONE	0.02	ug/L	<0.020	
GAMMA-BHC	0.01	ug/L	<0.010	
GAMMA-CHLORDANE	0.01	ug/L	<0.010	
HEPTACHLOR	0.01	ug/L	<0.010	
HEPTACHLOR EPOXIDE	0.01	ug/L	<0.010	
METHOXYCHLOR	0.1	ug/L	<0.10	
TOXAPHENE	1.0	ug/L	<0.51	

APPENDIX B
VOLATILE ORGANIC COMPOUNDS - SURFACE WATER
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DAVIS, CALIFORNIA

		Location	PCD		PCD		PCD		PCD		PCU		PCU		PCU		STPO	
		Sample ID	SWSW0230		SWSW0231		SWSW0234		SWSW0238		SWSW0228		SWSW0233		SWSW0237		SWSW0241		SWSW0229	
		Date	01/20/99		01/20/99		03/25/99		11/19/99		01/20/99		03/25/99		11/19/99		11/19/99		01/20/99	
		QA			DUPLICATE												DUPLICATE			
Analyte	CRDL	Units																		
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.00		<1.00		<1.0		<1.0		<1.00		<1.0		<1.0		<1.0		<1.00	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.00		<1.00		<1.0		<1.0		<1.00		<1.0		<1.0		<1.0		<1.00	
2-HEXANONE	1.0	ug/L	<1.00		<1.00		<1.0		<1.0		<1.00		<1.0		<1.0		<1.0		<1.00	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.00		<1.00		<1.0		<1.0		<1.00		<1.0		<1.0		<1.0		<1.00	
ACETONE	5.0	ug/L	<5.00		<5.00		<5.0	|Rc	<5.0		<5.00		<5.0	|Rc	**6.7**	J|	**6.7**		<5.00	
BENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.00		<1.00		<1.0		<1.0		<1.00		<1.0		<1.0		<1.0		<1.00	
BROMODICHLOROMETHANE	0.50	ug/L	<0.10	JB|Uz	<0.12	JB|Uz	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		**3.80**	B|
BROMOFORM	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
BROMOMETHANE	1.0	ug/L	<1.00		<1.00		<1.0		<1.0	|UJI	<1.00		<1.0		<1.0	|UJI	<1.0	|UJI	<1.00	
CARBON DISULFIDE	1.0	ug/L	<1.00		<1.00		<1.0		<1.0		<1.00		<1.0		<1.0		<1.0		<1.00	
CARBON TETRACHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50	|UJI	<0.50		<0.50		<0.50	|UJI	<0.50	|UJI	<0.50	
CHLOROFORM	0.50	ug/L	<0.23	JB|Uz	<0.25	JB|Uz	<0.50		**1.8**		<0.50		<0.50		<0.50		<0.50		**6.00**	B|
CHLOROMETHANE	0.50	ug/L	<0.50		<0.50		<0.50	|UJI	<0.50		<0.50		<0.50	|UJI	<0.50		<0.50		<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	<0.06	JB|Uz	<0.06	JB|Uz	<0.50		0.33	J|	<0.50		<0.50		<0.50		<0.50		**1.40**	B|
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.00		<1.00		<1.0		<1.0	|RIc	<1.00		<1.0		<1.0	|RIc	<1.0	|RIc	<1.00	
STYRENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.10	J|Uy	<0.15	J|Uy	<0.50		<0.50		<0.10	J|Uy	<0.50		<0.2	J|Uy	<0.22	J|Uy	**0.63**	
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.00		<1.00		<1.0		<1.0		<1.00		<1.0		<1.0		<1.0		<1.00	

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		Location	STPO		STPO	
		Sample ID	SWSW0235		SWSW0239	
		Date	03/25/99		11/19/99	
		QA				
Analyte	CRDL	Units				
1,1,1-TRICHLOROETHANE	0.50	ug/L	<0.50		<0.50	
1,1,2,2-TETRACHLOROETHANE	0.50	ug/L	<0.50		<0.50	
1,1,2-TRICHLOROETHANE	1.0	ug/L	<1.0		<1.0	
1,1-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50	
1,1-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	
1,2-DIBROMO-3-CHLOROPROPANE	0.50	ug/L	<0.50		<0.50	
1,2-DIBROMOETHANE	0.50	ug/L	<0.50		<0.50	
1,2-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	
1,2-DICHLOROETHANE	0.50	ug/L	<0.50		<0.50	
1,2-DICHLOROPROPANE	0.50	ug/L	<0.50		<0.50	
1,3-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	
1,4-DICHLOROBENZENE	0.50	ug/L	<0.50		<0.50	
2-BUTANONE	1.0	ug/L	<1.0		<1.0	
2-HEXANONE	1.0	ug/L	<1.0		<1.0	
4-METHYL-2-PENTANONE	1.0	ug/L	<1.0		<1.0	
ACETONE	5.0	ug/L	1.5	J|Jc	1.9	J|JI
BENZENE	0.50	ug/L	<0.50		<0.50	
BROMOCHLOROMETHANE	1.0	ug/L	<1.0		<1.0	
BROMODICHLOROMETHANE	0.50	ug/L	**1.7**		**10.5**	
BROMOFORM	0.50	ug/L	<0.50		0.33	J|
BROMOMETHANE	1.0	ug/L	<1.0		<1.0	|UJI
CARBON DISULFIDE	1.0	ug/L	<1.0		<1.0	
CARBON TETRACHLORIDE	0.50	ug/L	0.26	J|	<0.50	
CHLOROBENZENE	0.50	ug/L	<0.50		<0.50	
CHLOROETHANE	0.50	ug/L	<0.50		<0.50	|UJI
CHLOROFORM	0.50	ug/L	**5.0**		**19.4**	
CHLOROMETHANE	0.50	ug/L	<0.50	|UJI	<0.50	
CIS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	
CIS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50	
DIBROMOCHLOROMETHANE	0.50	ug/L	0.27	J|	**4.0**	
ETHYLBENZENE	0.50	ug/L	<0.50		<0.50	
METHYLENE CHLORIDE	1.0	ug/L	<1.0		<1.0	|RIc
STYRENE	0.50	ug/L	<0.50		<0.50	
TETRACHLOROETHENE	0.50	ug/L	<0.50		<0.50	
TOLUENE	0.50	ug/L	<0.50		<0.16	J|Uy
TRANS-1,2-DICHLOROETHENE	0.50	ug/L	<0.50		<0.50	
TRANS-1,3-DICHLOROPROPENE	0.50	ug/L	<0.50		<0.50	
TRICHLOROETHENE	0.50	ug/L	<0.50		<0.50	
VINYL CHLORIDE	0.50	ug/L	<0.50		<0.50	
XYLENES (TOTAL)	1.0	ug/L	<1.0		<1.0	

APPENDIX B
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		Location	PCD			PCD		PCD			PCD		PCU		
		Sample ID	SWSW0230			SWSW0231		SWSW0234			SWSW0239		SWSW0228		
		Date	01/20/99			01/20/99		03/25/99			11/19/99		01/20/99		
		QA				DUPLICATE									
Analyte	CRDL	Units			MDA		MDA			MDA		MDA			MDA
CARBON-14	20	pCi/L	1.86±4.38		7.46	-5.36±7.04	12.4	1.62±4.32		7.36	1.87±7.93	13.6	3.90±4.47	UJv	7.51
RADIUM-226	1	pCi/L	0.39±0.357	UJv	0.511	0.19±0.378	0.693	0.195±0.27	UJvd	0.454	0.322±0.499	0.867	0.33±0.343	UJv	0.515
STRONTIUM-90	1	pCi/L	-0.07±0.379		0.768	-0.02±0.206	0.418	-0.451±0.40		0.791	-0.206±0.216	0.383	-0.04±0.185		0.378
TRITIUM	300	pCi/L	98.30±141		240	32.50±135	238	-192±131		239	-58.5±87.6	159	98.50±141		240

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		Location	PCU			PCU			PCU		STPO			STPO		
		Sample ID	SWSW0233			SWSW0237			SWSW0241		SWSW0229			SWSW0235		
		Date	03/25/99			11/19/99			11/19/99		01/20/99			03/25/99		
		QA							DUPLICATE							
Analyte	CRDL	Units			MDA			MDA		MDA			MDA			MDA
CARBON-14	20	pCi/L	10.2±4.63	J|Jv	7.48	71.7±6.92		8.17	--		-0.12±4.21	|UJv	7.26	6.92±7.36	|UJv	12.3
RADIUM-226	1	pCi/L	0.187±0.224	|UJvd	0.344	0.584±0.432	J|Jv	0.226	0.501±0.567	0.900	0.47±0.372	|UJv	0.489	0.0457±0.23	|UJd	0.493
STRONTIUM-90	1	pCi/L	-0.189±0.41		0.792	0.231±0.225	|UJv	0.373	-0.180±0.23	0.486	0.37±0.352		0.673	0.091±0.388		0.716
TRITIUM	300	pCi/L	-287±126		238	0.00±91.2		160	--		65.30±138		239	-287±127		239

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		Location	STPO		
		Sample ID	SWSW0238		
		Date	11/19/99		
		QA			
Analyte	CRDL	Units			MDA
CARBON-14	20	pCi/L	16.8±5.32	J|	8.19
RADIUM-226	1	pCi/L	0.0789±0.409		0.851
STRONTIUM-90	1	pCi/L	0.280±0.238	|UJv	0.449
TRITIUM	300	pCi/L	-29.2±89.1		159

Appendix C

Data Quality Evaluation

APPENDIX C
QUALITY ASSURANCE AND QUALITY CONTROL SUMMARY
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The quality assurance and quality control (QA/QC) program for the 1999 Annual Groundwater Treatment System and Water Monitoring Programs (including treatment system influent and effluent, groundwater, surface water, and storm water) was implemented in accordance with the Final Revised Quality Assurance Project Plan (QAPjP; Dames & Moore, 1998b). Included in the QAPjP are sections identifying quality control sample collection requirements and data quality objectives (DQOs) for the measurement data. Data quality for water monitoring in 1999 was evaluated with respect to travel blanks, field duplicates, laboratory quality control samples, and data validation. Guidelines provided in the QAPjP were used to evaluate all data collected during the 1999 groundwater treatment system and water monitoring programs.

C.1 Data Quality Objectives

Quality control samples collected in the field and submitted for analysis included 22 duplicate samples to assess overall precision and representativeness, and daily travel blank samples analyzed only for volatile organic compounds to identify contaminants which may have been introduced during sample transit or during sample storage at the laboratory. One equipment blank sample was collected and analyzed to assess the quality of field decontamination procedures associated with the collection of samples at location UCD1/2-27, the only location without dedicated equipment. Additional sample volumes were collected from six locations and submitted to the analytical laboratory for matrix spike analyses to determine of any matrix interference was associated with the analytical results. A summary of the results for the field quality control samples collected and analyzed in 1999 is presented below.

- Field duplicates were collected at a frequency of 9.4 percent, just slightly below the minimum requirement of 10 percent specified in the QAPjP. Field duplicate collection for the Water Monitoring Program was 10.5%, while field duplicate collection for the Groundwater Treatment System was inadvertently not conducted in 1999. A system to check for collection of duplicate samples was developed and will be implemented to correct this problem in the future. Most results of field duplicate samples were found to be within the QAPjP limits of precision, indicating representative sampling techniques and overall precision of the analytical methods employed. Where results were found to be dissimilar, the associated results are considered estimated. For Spring 1999, the carbon-14 results in UCD2-14 were rejected due to failed precision.

- Field travel blank and equipment blank samples collected and analyzed in 1999 were reported non-detect for most potential COCs. However, methylene chloride, toluene,

and chloroform were reported in travel blanks. Methylene chloride is a common laboratory contaminant and low concentrations were reported for most travel blanks. Similar detections in the associated samples are considered anomalous and have been qualified appropriately. Although limited detections of toluene and chloroform were reported in some travel blanks submitted to the laboratory, no similar detections were reported in associated samples.

- Six samples were designated for matrix spike analyses in 1999. In addition, the laboratory selected several other samples for matrix spike analysis in order to achieve the minimum QAPjP requirement of five percent of the primary samples for most chemical analyses. Matrix spike sample analyses show little or no matrix interference with the samples collected, as most results were found to be within the acceptance criteria for accuracy outlined in the QAPjP.

Accuracy and precision of the analytical results were further demonstrated by the laboratory's use of appropriate standards for calibrations and quality control measurements. The laboratory also employed method blank samples to assess contamination introduced by sample preparation and analytical procedures. Comparability was demonstrated by the use of standard analytical procedures and reporting units established by the USEPA for the evaluation of groundwater, surface water and storm water. The results of the laboratory quality control samples that warranted disqualification of the sample data for 1999 are described below.

- Common laboratory contaminants including methylene chloride, acetone, and phthalates were reported in several laboratory method blanks resulting in the qualification of associated data. The laboratory operates in a manner to minimize these common laboratory contaminants and most reported detections are below the laboratory's typical reporting limit for the respective compound.

- Difficulties in meeting the validation acceptance criteria for instrument calibration resulted in the rejection of reported non-detect values of acetone, 2-butanone and 4-nitrophenol in some samples collected in 1999. For these compounds, evaluation criteria specified in the US EPA's National Functional Guidelines (US EPA, 1994a and 1994b)are more stringent than the acceptance criteria defined in the US EPA methods.

More than 19,000 analytical results were validated according to procedures outlined in the QAPjP. Results of the validation are discussed below in Section C.2 and indicate that more than 95% of the results were acceptable. The completeness objective of greater than 90% was achieved for the 1999 annual groundwater treatment system and water monitoring programs.

C.2 Data Validation Summary

Data validation was performed in compliance with the QAPjP, using protocols consistent with the US EPA National Functional Guidelines (US EPA, 1994a and 1994b). The purpose of data

validation is to assess the ability of the analytical data to serve their intended use. Data from each of the analyses were evaluated in the following areas based on criteria presented in the standard operating procedures that are included in the QAPjP and consist of:

- Data completeness;
- Holding times;
- Initial and continuing calibrations;
- Blanks;
- System monitoring compounds (surrogates – organic analyses only);
- Internal standards (where applicable);
- Laboratory control standards;
- Matrix spike/matrix spike or sample duplicates;
- Field duplicates;
- Compound identification and quantitation; and
- Raw data and calculations.

As specified in the standard operating procedures for data validation presented in the QAPjP, irregularities with potential impacts on data quality and usability are identified through the application of data validation codes. Data qualified as estimated (J/UJ) exhibited some bias during analysis and should be considered an approximate measure of the respective analyte concentration. Data qualified as anomalous (U) should be considered a non-detect, given the adjusted reporting limit. Data qualified as rejected (R) are not useful in determining the presence or absence of the respective analyte. Tables C-1 through C-4 further explain the qualification codes applied to the data. Validation summaries for the monthly sampling events associated with the Groundwater Treatment System Monitoring program for January 1999 through November 1999 were previously presented in the respective monthly monitoring reports. Results of the data evaluation for the December 1999 IRA monitoring are detailed in the data validation memorandum included at the end of this appendix. For the Winter, Spring, and Summer monitoring rounds in 1999, data validation results have been discussed in the respective quarterly monitoring reports. A detailed summary of the data quality for the Fall Quarter 1999 monitoring round is presented in the data validation memorandum included at the end of this appendix.

TABLE C-1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
ASSIGNED BY DAMES & MOORE'S DATA REVIEW TEAM
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DAMES & MOORE DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

DAMES & MOORE DATA QUALIFIER DEFINITIONS — REASON CODE DEFINITIONS

a Analytical sequence deficiency or omission.
b Gross compound breakdown (4,4'-DDT/Endrin).
c Calibration failure; poor or unstable response.
d Laboratory duplicate imprecision.
e Laboratory duplicate control sample imprecision.
f Field duplicate imprecision.
g Poor chromatography.
h Holding time violation.
i Internal standard failure.
j Poor mass spectrographic performance.
k Serial dilution imprecision.
l Laboratory control sample recovery failure.
m Matrix spike/matrix spike duplicate recovery failure.
n Interference check sample recovery failure.
o Calibration blank contamination (metals/inorganics only).
p Preparation blank contamination (metals/inorganics only).
q No valid quantitation column present.
r Linearity failure in initial calibration.
s Surrogate spike recovery failure (GC organics and GC/MS organics only).
t Instrument tuning failure.
u No valid confirmation present (GC Organics only).
v Value is estimated below the MDA (Rads only).
w Retention time (RT) outside of RT window.
x Field blank contamination.
y Trip blank contamination
Z Method blank contamination.
Q Other.

INTERPRETATION KEY

The following example shows how an analytical result which includes qualifiers assigned by both the Dames & Moore data review team and the analytical laboratory could be displayed in the data tables:

<5.20 JB|Uz

The qualifier assigned by the data review team follows the "|"; the laboratory qualifier precedes it. In this example, the result is qualified as a non-detection due to the bias introduced by contamination of the associated method blank. Presence of the analyte in the method blank is indicated by the laboratory qualifier (B). The qualifier assigned by the Dames & Moore data review team (Uz) indicates that the analyte concentration is considered to be below the adjusted detection limit (quantitation limit) based on the level of contamination in the method blank.

TABLE C-2
GENERAL ENGINEERING LABORATORIES, INC.
DATA QUALIFIERS FOR ORGANIC ANALYSES
1999 ANNUAL REPORT
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Data Qualifiers used on Form 1s or Certificates of Analysis (C of A) follow the specifications set forth in the technical specifications of the most current CLP Statement of Work and are defined as follows:

Section	Explanation	Location
A	The TIC is suspected aldol-condensation product.	C of A, Form 1, and EDD
B	Analyte was detected in the associated method blank as well as in the sample	C of A, Form 1, and EDD
C	Pesticide analyte has been confirmed by GC/MS.	C of A, Form 1, and EDD
D	Analyte(s) quantified in an analysis performed at a secondary dilution factor.	C of A, Form 1, and EDD
E	Identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.	C of A, Form 1, and EDD
J	This flag indicates an estimated value concerning either, (1) estimating a concentration for tentatively identified compounds (TICs), or (2) analyte detected at a level less than the RDL or PQL and greater than or equal to the MDL.	C of A, Form 1, and EDD
N	Presumptive evidence based upon a mass spectral library search to make a tentative identification of the analyte	C of A, Form 1, and EDD
NJ	Analyte has been tentatively identified and the associated numerical value is estimated based on 1:1 response factor to the nearest eluting internal standard.	C of A, Form 1, and EDD
P	Pesticide/PCB target analyte that is greater than 25% difference for the detected concentrations between the two GC columns.	C of A, EDD, Form 1.
U	Compound analyzed for but not detected (sample quantitation limit has been adjusted to reflect dilutions and percent moisture).	C of A, Form 1, and EDD
X	Other reporting flag as defined in report narrative.	C of A, Form 1, and EDD
**	Laboratory Control Sample recovery outside of acceptance limit.	QC Summary Report

All surrogate recoveries and acceptance ranges are reported at the bottom of Form 2 or C of A.
Any recoveries falling outside the acceptance range will be flagged with a **.

TABLE C-3
GENERAL ENGINEERING LABORATORIES, INC.
DATA QUALIFIERS FOR INORGANIC ANALYSES
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

Data Qualifiers used on Form 1s or Certificates of Analysis (C of A) follow the specifications set forth in the technical specifications of the most current CLP Statement of Work and are defined as follows:

Section	Explanation	Location
E	The reported value is estimated because of the presence of interference.	C of A, Form 1, and EDD
*	Duplicate analysis not within control limit.	C of A, Form 1, and EDD
÷	Correlation Coefficient for the MSA is less than 0.995.	C of A, Form 2, and EDD
B	Analyte(s) quantified in an analysis performed at a secondary dilution factor.	C of A, Form 1, and EDD
M	Duplicate Injection precision not met.	C of A, Form 1, and EDD
N	Spiked sample recover not within control limits.	C of A, Form 1, and EDD
S	Reported Method was determined by MSA.	C of A, Form 1, and EDD
U	Analyte was analyzed for but not detected.	C of A, Form 1, and EDD
W	Post-digestion spike for GFAA is out of control limit (85-115%), while sample absorbance is less than 50% of spike absorbance.	C of A, EDD, Form 5, part 2
X	Other reporting flag as defined in report narrative.	C of A, Form 1, and EDD
**	Laboratory Control Sample recovery outside of acceptance limit.	QC Summary Report

All surrogate recoveries and acceptance ranges are reported at the bottom of Form 2 or C of A.
Any recoveries falling outside the acceptance range will be flagged with a **.

TABLE C-4
QUANTERRA ENVIRONMENTAL SERVICES
LABORATORY DATA QUALIFIERS FOR ANALYSES
1999 ANNUAL REPORT
LEHR/SCDS ENVIRONMENTAL RESTORATION
DAVIS, CALIFORNIA

Data qualifiers used on Form 1s or Certificate of Analysis follow the specifications set forth in the technical specifications of the most current CLP Statement of Work and are defined as follows:

Qualifier	Definition
J	(Organics only) Estimated value greater than MDL but less than CRDL.
D	Diluted.
U	Not detected.
B	(Metals only) Estimated value greater than IDL but less than CRDL.
B	(Organics only) Analyte found in the blank.
E	Exceeds calibration

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TO:	Jeff Bold	**INFO:**	
FROM:	Sacramento QA/QC Group	**FILE:**	00234-263-044
DATE:	January 11, 2000	**SITE:**	UC Davis/LEHR
SUBJECT:	UC DAVIS/LEHR Full Scale Operation – December 1999 Sampling GEL, Inc. Report No.: 9C054W		

This report summarizes the findings of the limited data validation performed by the Sacramento QA/QC Group on laboratory report submitted in support of the UC Davis/LEHR Full Scale Operation and Monthly Interim Removal Action. The laboratory reports contain analytical data for two treatment system samples, eleven monitoring well samples, and two trip blanks. Sample IDs are listed in Table 1. Samples **GWGW0976/GWGW0977** represent a field duplicate pair. These samples were collected December 1 and 2, 1999 and submitted to General Engineering Laboratories, Inc. for analysis. These samples were collectively analyzed for Volatile Organic Compounds (EPA 8260), Nitrate (EPA 300.0), Total Dissolved Solids (EPA 160.1), Chromium (EPA 6010), Hexavalent Chromium (EPA 7196), Total Organic Carbon (EPA 9060M), Carbon-14 (EPA-R4-73-014), and Tritium (EPA 906.0M). The laboratory report was received December 27, 1999. The data have been validated in accordance with the criteria presented in the approved Revised QAPjP (Dames & Moore, 1998). Validation criteria are based on the principles given in the USEPA National Functional Guidelines for Data Review (EPA, 1994).

1.0 Executive Summary

All analyses were performed as requested on the chain-of-custody records. Holding times for volatile aromatic compounds were exceeded in one sample indicating a potential loss of analyte. A single acetone detection was qualified as estimated due to calibration difficulties. Low surrogate recoveries associated with two volatile samples indicated possible matrix interferences. LCS recoveries indicated analytical difficulties for acetone, methylene chloride, and bromoform resulting in the estimation of several results. In addition, matrix interferences were noted for acetone, 2-butanone, and 2-hexanone. All results for methylene chloride and results for toluene, chloroform, chloromethane, dibromochloromethane, and total organic carbon were qualified as anomalous due to blank contamination. Except for the total organic carbon results, the field duplicate pair **GWGW0976/GWGW0977** demonstrated acceptable precision. No data were rejected. No other data were qualified. These data are acceptable in all other areas of review and, as qualified, are useable for their intended purpose.

2.0 Volatile Organic Compounds

Two treatment system samples, eleven monitoring well samples, and two trip blanks were analyzed for volatile organic compounds (EPA 8260). The laboratory data were reviewed to evaluate compliance with this method (SW-846; US EPA rev.1996, Updates III), and the quality of the data reported. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and impacted data quality and/or usability.

✓ Data Completeness

⊗ Holding Times and Preservation
⊗ Calibrations
✓ Internal Standards
✓ Performance Check Sample
⊗ Blanks
⊗ System Monitoring Compounds (Surrogates)
⊗ Laboratory Control Samples
⊗ Matrix Spike/Matrix Spike Duplicates
✓ Field Duplicates
✓ Compound Identification and Quantitation

2.1 Data Completeness
All analyses were performed as requested on the chain-of-custody records.

2.2 Holding Time and Preservation
All samples were analyzed within 14 days of collection. For aromatic volatile organic compounds, sample preservation (pH ≤ 2) is required to extend the holding time to 14 days. At the time of sample analysis, the pH of sample **GWGW0974** indicated insufficient preservation (pH > 2). Since this sample was analyzed outside holding time for unpreserved samples, the detection limits for aromatic compounds have been qualified as estimated (UJ).

2.3 Calibrations

2.3.1 Initial Calibrations (IC)
Appropriate initial calibration curves were performed for each analyte. Based on the method of calibration, the laboratory calculated either the percent relative standard deviation (%RSD) or the correlation coefficient for each target analyte. The acceptance criteria were met for all target analytes.

2.3.2 Continuing Calibration Verification (CCV)
For all target analytes, Percent Differences (%D) between the RRFs in the initial calibration and the response factor of the midrange calibration standard of all target analytes were within acceptance criteria (±25%), and the relative response factors (RRFs) were greater than 0.050, with the exceptions listed below. Samples were qualified in accordance with National Functional Guidelines, also summarized below.

Date (Time) of the Cont. Calibration	Compounds	Outlier	Qualified Sample(s)	Qualifier
12/15/99 (8:07)	Chloroethane	31.8%	None	NA
	Bromomethane	48.0%	None	NA
	Acetone	46.8%	**GWGW0979**	J

2.4 Internal Standards
All sample internal standard area counts met acceptance criteria, >50% and <200% of the associated continuing calibrations internal standard area counts, and all sample internal standard retention times are within ±30 seconds of the associated continuing calibration internal standard retention time.

2.5 Performance Check Sample

An instrument performance check sample was analyzed at the beginning of each 12-hour period during sample analysis. All ion abundance criteria were met for bromofluorobenzene (BFB).

2.6 Blanks

Blank contaminants and their associated qualified samples are listed in the table below. Samples were qualified as anomalous (U) if sample concentrations were within five times the blank concentration for uncommon laboratory contaminants or ten times the blank concentration for common laboratory contaminants (e.g., acetone, methylene chloride, etc.).

Blank	Contaminant	Concentration (µg/L)	Associated Qualified Sample(s)	Concentration(s) (µg/L)	Qualifier
VBLK02 (12/16/99)	Methylene Chloride	0.31	**GWGW0981** **GWGW0983** **TBGW0322**	0.34 0.53 0.83	UJ[1] UJ[1] UJ[1]
	Toluene	0.046	**GWGW0981** **GWGW0983** **TBGW0322**	0.065 0.046 0.096	U U U
	Ethylbenzene	0.023	None	NA	NA
	Xylenes	0.034	None	NA	NA
TBGW0321	Methylene Chloride	1.1	**GWGW0974** **GWGW0975** **GWGW0976** **GWGW0977** **GWGW0978** **GWGW0979** **GWGW0980** **GWGW0983** **GWGW0984**	0.34 0.44 0.69 0.56 0.50 0.63 0.32 0.22 0.28	U U U U U U U U U
	Chloroform	0.21	**GWGW0974** **GWGW0978**	0.18 0.54	U U
	Dibromochloromethane	0.057	None	NA	NA
	Toluene	0.13	**GWGW0978**	0.089	U
TBGW0322	Chloromethane	0.21	**GWGW0983**	0.36	U
	Methylene Chloride	0.83[2]	None	NA	NA
	Dibromochloromethane	0.062	**GWGW0983**	0.082	U
	Toluene	0.096[2]	None	NA	NA

[1] –Results were qualified as estimated due to low LCS recoveries.
2 -Results were qualified as anomalous due to method blank contamination.

2.7 System Monitoring Compounds (Surrogates)

The three surrogates employed, bromofluorobenzene, dibromofluoromethane, and toluene-d8 are appropriate to the method. Recoveries were outside laboratory limits but within QAPP limits for samples **TBGW0322** and **GWGW0982**. Samples **TPIN0100** and **GWGW0981** surrogate recoveries fell below the lower control limit indicating a low bias. All results in these samples were qualified as estimated (J/UJ).

2.8 Laboratory Control Samples (LCS)

All LCS percent recoveries were within the QAPjP-specified QC acceptance criteria except for those listed in the following table.

LCS (Date)	Compound	Recovery	Qualified Samples	Qualifier
12/15/99	Chloromethane	140%	None	NA
	Bromomethane	174%	None	NA
	Vinyl Chloride	154%	None	NA
	Chloroethane	144%	None	NA
	Acetone	171%	**GWGW0979**	J
	Carbon Disulfide	146%	None	NA
	2-Butanone	144%	None	NA
	2-Hexanone	153%	None	NA
12/16/99	Methylene Chloride	48%	**GWGW0981** **GWGW0982** **TBGW0322**	UJ UJ UJ
	Bromoform	68%	**GWGW0981** **GWGW0982** **TBGW0322**	UJ UJ UJ

2.9 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Samples **GWGW0982** and **TPEF0100** were utilized for MS/MSD analyses. All percent recoveries and relative percent differences were within the QC acceptance criteria except those summarized below.

Spiked Sample	Outlier(s)	MS/MSD		Sample Conc. (µg/L)	Sample Qualifier
		Ave. % Rec.	RPD		
GWGW0982	Bromomethane	150*	8	ND	NA
	Acetone	53*	11	ND	UJ
	2-Butanone	62*	5	ND	UJ
	Bromoform	64*	6	0.20	J[1]
	2-Hexanone	66*	6	ND	UJ
TPEF0100	Bromomethane	154*	8	ND	NA
	Vinyl Chloride	142*	11	ND	NA
	Acetone	52*	8	ND	UJ
	2-Butanone	65*	9	ND	UJ
	Bromoform	64*	6	ND	UJ
	2-Hexanone	66*	6	ND	UJ

* - Outlier.
[1] – Result was qualified as estimated due to poor LCS recoveries.

2.10 Field Duplicates

No significant differences were noted in the field duplicate pair **GWGW0976/ GWGW0977**.

2.11 Compound Identification and Quantitation

Sample **GWGW0975** was diluted two-fold, appropriate to sample concentrations of chloroform. Siloxanes and unknowns were reported as a tentatively identified

compounds in the associated method blanks as well as the associated project samples. Consequently, the reported detections of siloxanes in project samples have been qualified as anomalous "U" due to blank contamination. Siloxanes are indicative of column bleeding and are not native to the samples.

3.0 Hexavalent Chromium, TDS, TOC, and Nitrate

Two treatment system samples and eleven monitoring well samples were collectively analyzed for hexavalent chromium (EPA 7196), nitrate (EPA 300.0), TDS (EPA 160.1), and TOC (EPA 9060M). The laboratory data were reviewed to evaluate compliance with these methods and the quality of the data reported. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and impacted data quality and/or usability.

✓ Data Completeness
✓ Holding Times and Preservation
✓ Initial Calibrations
✓ Initial Calibration Verifications
✓ Continuing Calibration Verifications
✓ Preparation (Method) Blanks
✓ Initial Calibration Blanks
⊗ Continuing Calibration Blanks
✓ Laboratory Control Samples
✓ Matrix Spikes
✓ Laboratory Duplicates
⊗ Field Duplicates
✓ Analyte Identification and Quantification

3.1 Data Completeness

All analyses were performed as requested on the chain-of-custody records.

3.2 Holding Time and Preservation

All holding times were met and samples were preserved appropriately.

3.3 Calibrations

3.3.1 Initial Calibrations (IC)

- Cr(VI) – Acceptable calibrations were performed. The correlation coefficient met acceptance criteria, $r \geq 0.995$, for all calibrations.
- Nitrate – Acceptable calibrations were performed. The correlation coefficient met acceptance criteria, $r \geq 0.995$, for all calibrations.
- TDS – An acceptable calibration was performed.
- TOC – Acceptable calibrations were performed. The correlation coefficient met acceptance criteria, $r \geq 0.995$, for all calibrations.

3.3.2 Initial Calibration Verification (ICV)

The percent recoveries of all analytes in all ICVs were within the method-specified QC limits.

3.3.3 Continuing Calibration Verification (CCV)
The percent recoveries of all analytes in all CCVs were within method-specified QC limits.

3.4 Blanks

3.4.1 Preparation (Method) Blank
All associated preparation blanks were free of target analytes.

3.4.2 Initial Calibration Blank (ICB)
All associated ICBs were free of target analytes.

3.4.3 Continuing Calibration Blanks (CCB)
Total organic carbon (0.2484 mg/L) was detected in an associated CCB. The reported detection of total organic carbon in samples **GWGW0979** and **TPIN0100** were qualified as anomalous (U). No other data were qualified on this basis. All other associated CCBs were free of target analytes.

3.5 Laboratory Control Samples (LCS)
The percent recoveries for all analytes in each of the LCS analyses were within the laboratory-established QC limits.

3.6 Matrix Spikes(MS)
Samples **GWGW0980** and **GWGW0981** were utilized for the hexavalent chromium MS analyses. Samples **GWGW0974** and **GWGW0981** were utilized for the nitrate MS analyses. Samples **GWGW0975** and **GWGW0981** were utilized for the total organic carbon MS analysis. All percent recoveries were within 75-125%.

3.7 Laboratory Duplicates
Samples **GWGW0980** and **GWGW0981** were utilized for the hexavalent chromium duplicate analyses. Samples **GWGW0974** and **GWGW0981** were utilized for the nitrate duplicate analyses. Samples **GWGW0975** and **GWGW0981** were utilized for the total organic carbon duplicate analysis. Samples **GWGW0976**, **GWGW0982**, and **TPEF0100** were utilized for TDS duplicate analyses. All relative percent differences were within the laboratory-specified QC limits.

3.8 Field Duplicates
A significant difference was noted between the reported detections for total organic carbon in the field duplicates **GWGW0976** (4.87 mg/L) and **GWGW0977** (1.66 mg/L). Consequently, these total organic carbon results were qualified as estimated (J). No other significant differences were noted for field duplicate pair **GWGW0976/GWGW0977**.

3.9 Analyte Identification and Quantification
A ten-fold dilution was performed on sample **GWGW0974** to appropriately quantitate the reported detection of nitrate. A two-fold dilution was performed on sample **GWGW0975** to appropriately quantitate the reported detection of nitrate. A five-fold dilution was performed on sample **GWGW0974** to appropriately quantitate the reported detection of hexavalent chromium. A two-fold dilution was performed on sample **GWGW0978** appropriately quantitate the reported detection of total organic carbon.

4.0 Total Chromium

One treatment system sample and eleven monitoring well samples were analyzed for total chromium (EPA 6010) analysis. The laboratory data were reviewed to evaluate compliance with this method (SW-846; US EPA rev.1996, Updates III), and the quality of the data reported. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and impacted data quality and/or usability.

- ✓ Data Completeness
- ✓ Holding Times and Preservation
- ✓ Initial Calibrations
- ✓ Initial Calibration Verifications
- ✓ Continuing Calibration Verifications
- ✓ Preparation (Method) Blanks
- ✓ Initial Calibration Blanks
- ✓ Continuing Calibration Blanks
- ✓ Laboratory Control Samples
- ✓ Matrix Spike/Matrix Spike Duplicates
- ✓ Serial Dilutions
- ✓ Field Duplicates
- ✓ Analyte Identification and Quantification

4.1 Data Completeness

All analyses were performed as requested on the chain-of-custody records.

4.2 Holding Time and Preservation

All analyses were performed within the requested holding times and all samples were properly preserved.

4.3 Calibrations

4.3.1 Initial Calibration Verification (ICV)

All chromium ICV percent recoveries associated with sample analyses were within the method-specified QC limits.

4.3.3 Continuing Calibration Verification (CCV)

All chromium CCV percent recoveries associated with sample analyses were within the method-specified QC limits.

4.4 Blanks

4.4.1 Preparation (Method) Blanks

No contamination was detected in the associated preparation blanks.

4.4.2 Initial Calibration Blanks (ICB)

No contamination was detected in the associated initial calibration blanks.

4.4.3 Continuing Calibration Blanks (CCB)

No contamination was detected in the associated CCBs.

4.5 Laboratory Control Samples (LCS)
In the associated LCS, the percent recovery for chromium was within the method-specified QC limits.

4.6 Matrix Spike and Matrix Spike Duplicate (MS/MSD)
Sample **GWGW0974** was utilized for the MS/MSD analyses. All percent recoveries and relative percent differences were within the method-specified QC limits.

4.7 Serial Dilutions
Sample **GWGW0974** was utilized for serial dilution analysis and all relative percent differences were within the method-specified QC limits.

4.8 Field Duplicates
No significant differences were noted in the field duplicate pair **GWGW0976/ GWGW0977**.

4.9 Analyte Identification and Quantification
No dilutions were required.

5.0 Carbon-14 and Tritium

One treatment system sample and eleven monitoring well samples were analyzed for carbon-14 (EPA 520) and tritium (EPA 906.0M) analysis. The laboratory data were reviewed to evaluate compliance with these methods (EPA-R4-73-014 and EPA600/4-80-032), and the quality of the data reported. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and impacted data quality and/or usability.

✓ Data Completeness
✓ Holding Times
✓ Initial Calibration
✓ Blanks
✓ Laboratory Control Samples
✓ Matrix Spike Samples
✓ Laboratory Duplicates
✓ Field Duplicates
⊗ Analyte Identification and Quantification

5.1 Data Completeness
All analyses were performed as requested on the chain-of-custody records.

5.2 Holding Times
All analyses were performed within the method-specified holding times.

5.3 Calibrations

5.3.1 Initial Calibrations

All calibrations were performed according to the laboratory standard operating procedures.

5.3.2 Continuing Calibrations
The control charts and summary forms for the continuing calibrations were verified to be within laboratory acceptance limits for all analyses.

5.4 Blanks
All associated preparation blanks were free of target analytes.

5.5 Laboratory Control Samples
The percent recoveries for all analytes in each of the LCS analyses were within the laboratory-established QC limits.

5.6 Matrix Spike/Matrix Spike Duplicate Samples
Sample **GWGW982** was utilized for carbon-14 and tritium MS/MSD analyses. All percent recoveries and relative percent differences were within laboratory-established QC limits.

5.7 Laboratory Duplicates
Sample **GWGW982** was utilized for carbon-14 and tritium laboratory duplicate analyses. Acceptable precision was achieved for all laboratory duplicate analyses.

5.8 Field Duplicates
No significant differences were noted in the field duplicate pair **GWGW0976/ GWGW0977**.

5.9 Analyte Identification and Quantification
If the sample result plus the uncertainty is below the MDA, the result is qualified as (U). For samples with results less than the MDA, but the result plus the uncertainty are greater than the MDA, the result is qualified as estimated (UJ). For samples with results greater than the MDA, but the result minus the uncertainty is below the MDA, the results are qualified as estimated (J).

Table 1
December 1999 Monthly Monitoring Samples

Sample	SDG	Sample Number	Date Sampled	Analyses Performed
Treatment System Samples				
TPIN0100	9C054W	9912054-11	10/07/99	V, GC[1], R
TPEF0100	9C054W	9912054-12	10/07/99	V, GC[2], M
Monitoring Well Samples				
GWGW0974	9C054W	9912054-01	10/06/99	V, M, GC[3], R
GWGW0975	9C054W	9912054-02	10/06/99	V, M, GC[3], R
GWGW0976	9C054W	9912054-03	10/06/99	V, M, GC[3], R
GWGW0977 (Duplicate of GWGW0976)	9C054W	9912054-04	10/06/99	V, M, GC[3], R
GWGW0978	9C054W	9912054-05	10/06/99	V, M, GC[3], R
GWGW0979	9C054W	9912054-06	10/06/99	V, M, GC[3], R
GWGW0980	9C054W	9912054-07	10/07/99	V, M, GC[3], R
GWGW0981	9C054W	9912054-13	10/07/99	V, M, GC[3], R
GWGW0982	9C054W	9912054-14	10/07/99	V, M, GC[3], R
GWGW0983	9C054W	9912054-08	10/07/99	V, M, GC[3], R
GWGW0984	9C054W	9912054-09	10/07/99	V, M, GC[3], R
Trip Blanks				
TBGW0304	9C054W	9912054-10	10/06/99	V
TBGW0305	9C054W	9912054-15	10/07/99	V

Notes:
V - Volatile organic compounds by EPA Method 8260
M - Total chromium by EPA Method 6010
GC[1] - Total organic carbon by EPA Method 9060
GC[2] - Hexavalent chromium by EPA Method 7196 and total dissolved solids by EPA Method 160.1
GC[3] - Hexavalent chromium by EPA Method 7196, nitrate by EPA Method 300.0, total dissolved solids by EPA Method 160.1, and total organic carbon by EPA Method 9060
R - Carbon-14 by EPA-R4-73-014 and tritium by EPA Method 906.0

ATTACHMENT A
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Dames & Moore's Data Review Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

DATA QUALIFIER REASON CODE DEFINITIONS

a Analytical sequence deficiency or omission.
b Gross compound breakdown (4,4'-DDT/Endrin).
c Calibration failure; poor or unstable response.
d Laboratory duplicate imprecision.
e Laboratory duplicate control sample imprecision.
f Field duplicate imprecision.
g Poor chromatography.
h Holding time violation.
i Internal standard failure.
j Poor mass spectrographic performance.
k Serial dilution imprecision.
l Laboratory control sample recovery failure.
m Matrix spike/matrix spike duplicate recovery failure.
n Interference check sample recovery failure.
o Calibration blank contamination (metals/inorganics only).
p Preparation blank contamination (metals/inorganics only).
q Quantitation outside of linear range.
r Linearity failure in initial calibration.
s Surrogate spike recovery failure (GC organics and GC/MS organics only).
t Instrument tuning failure.
u No confirmation column present (GC Organics only).
v Value is estimated below the MDA (Rads only).
w Retention time (RT) outside of RT window.
x Field or equipment blank contamination.
y Trip blank contamination.
z Method blank contamination.
D Value exceeds quantitation limit.

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DATA VALIDATION MEMO

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TO:	Jeff Bold	**INFO:**	
FROM:	Sacramento QA/QC Group	**FILE:**	00234-263-044
DATE:	January 19, 2000	**SITE:**	UC Davis/LEHR
SUBJECT:	UC DAVIS/LEHR Monthly Interim Removal Action – December 1999 Sampling Quanterra Projects.: G9L060192 and G9L280264		

This report summarizes the findings of the limited data validation performed by the Sacramento QA/QC Group on laboratory reports submitted in support of the UC Davis/LEHR Monthly Interim Removal Action. The laboratory reports contain analytical data for four treatment system samples. Sample IDs are listed in Table 1. These samples were taken December 6, 13, 20, and 28, 1999 and submitted to Quanterra Environmental Services for analysis of Nitrate (EPA 300.0) and Total Dissolved Solids (EPA 160.1). The laboratory reports were received on January 10 and 19, 2000. The data have been validated in accordance with the criteria presented in the approved Revised QAPjP (Dames & Moore, 1998). Validation criteria are based on the principles given in the USEPA National Functional Guidelines for Data Review (EPA, 1994).

1.0 Executive Summary

All analyses were performed as requested on the chain-of-custody records. No evidence of false negatives was observed. No data were qualified. These data are acceptable in all other areas of review and the data are useable for their intended purpose.

2.0 Nitrate and TDS

Four treatment system effluent samples were collected and analyzed for nitrate (EPA 300.0) and TDS (EPA 160.1) analyses. The laboratory data were reviewed to evaluate compliance with these methods and the quality of the data reported. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and impacted data quality and/or usability.

- ✓ Data Completeness
- ✓ Holding Times and Preservation
- ✓ Preparation (Method) Blanks
- ✓ Laboratory Control Samples
- ✓ Matrix Spike/Matrix Spike Duplicates
- ✓ Analyte Identification and Quantification

2.1 Data Completeness

All analyses were performed as per chain-of-custody records.

2.2 Holding Time and Preservation

All analyses were performed within the requested holding times.

2.3 Preparation (Method) Blank
All associated preparation blanks were free of contamination.

2.4 Laboratory Control Samples (LCS)
All LCS recoveries met acceptance criteria.

2.5 Matrix Spike and Matrix Spike Duplicate (MS/MSD)
Samples **TPEF0101** and **TPEF0103** were utilized for the total dissolved solids MS/MSD analyses. Samples **TPEF0101**, **TPEF0102**, **TPEF0103**, and **TPEF0104** were utilized for the nitrate MS/MSD analyses. Although the average recovery for nitrate in the MS/MSD for samples **TPEF0101**, **TPEF0103**, and **TPEF0104** were outside the laboratory-generated QC limits, all recoveries and relative percent differences were within QAPjP-specified QC limits for laboratory control samples. Consequently, qualification of the data was not warranted on this basis.

2.6 Analyte Identification and Quantification
The dilutions performed for nitrate were appropriate to the reported sample concentrations. No other dilutions were performed.

Table 1
December 1999 Monthly Monitoring Samples

Sample	SDG	Sample Number	Date Sampled	Analyses Performed
Treatment System Samples				
TPEF0101	G9L060192	G9L060192-001	12/06/99	GC
TPEF0102	G9L060192	G9L060192-002	12/13/99	GC
TPEF0103	G9L060192	G9L060192-003	12/20/99	GC
TPEF0104	G9L280264	G9L280264-001	12/28/99	GC

Notes:

GC - Nitrate by EPA Method 300.0 and Total Dissolved Solids by EPA Method 160.1

ATTACHMENT A
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Dames & Moore's Data Review Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

DATA QUALIFIER REASON CODE DEFINITIONS

a Analytical sequence deficiency or omission.
b Gross compound breakdown (4,4'-DDT/Endrin).
c Calibration failure; poor or unstable response.
d Laboratory duplicate imprecision.
e Laboratory duplicate control sample imprecision.
f Field duplicate imprecision.
g Poor chromatography.
h Holding time violation.
i Internal standard failure.
j Poor mass spectrographic performance.
k Serial dilution imprecision.
l Laboratory control sample recovery failure.
m Matrix spike/matrix spike duplicate recovery failure.
n Interference check sample recovery failure.
o Calibration blank contamination (metals/inorganics only).
p Preparation blank contamination (metals/inorganics only).
q Quantitation outside of linear range.
r Linearity failure in initial calibration.
s Surrogate spike recovery failure (GC organics and GC/MS organics only).
t Instrument tuning failure.
u No confirmation column present (GC Organics only).
w Retention time (RT) outside of RT window.
x Field or equipment blank contamination.
y Trip blank contamination.
z Method blank contamination.

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

DATA VALIDATION MEMO

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Project: UC Davis/LEHR Fall Quarter 1999 Groundwater Sampling

Introduction

This report summarizes the findings of the validation of 23 groundwater samples (including 2 field duplicate pairs), 4 surface water samples (including 1 field duplicate pair), 2 treatment plant samples, 2 storm water samples, and 5 trip blanks. These samples were collected as part of the Fall Quarter 1999 Groundwater Sampling for the LEHR/SCDS at the University of California in Davis, November 1 through 19, 1999. The samples were sent to General Engineering Laboratories, Inc. in Charleston, South Carolina for analysis. The samples are listed in Table 1 included at the end of this document. The data were reviewed in accordance with the Dames & Moore standard operating procedures presented in the final QAPP (Dames & Moore, 1998), and *USEPA National Functional Guidelines for Laboratory Data Review, Organics and Inorganics* (EPA, 1994).

1.0 Volatiles

Thirty-one aqueous samples (including three field duplicate pairs) and five trip blanks were analyzed for volatile organic compounds (SW-846 Method 8260). The laboratory data were reviewed to evaluate compliance with this method (SW-846 Method 8260) and the quality of the data reported. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review, which warranted data qualification.

✓ Data Completeness
✓ Holding Times and Preservation
⊗ Calibrations
✓ Internal Standards
✓ Performance Check Sample
⊗ Blanks
✓ System Monitoring Compounds (Surrogates)
⊗ Laboratory Control Samples
⊗ Matrix Spike/Matrix Spike Duplicates
✓ Field Duplicates
✓ Compound Identification and Quantitation
✓ Raw Data Audit

1.1 Data Completeness

All analyses were performed as requested on the chain-of-custody records (COCs).

1.2 Holding Time and Preservation

All samples were analyzed within the 14-day holding time from the date of collection. Samples **GWGW0951**, **GWGW0954**, **GWGW0956**, **GWGW0959**, **GWGW0960**, **GWGW0955**, **GWGW0957**, **GWGW0958**, **GWGW0964**, **GWGW0965**, **GWGW0966**, **GWGW0967**, **GWGW0968**, **GWGW0969**, **GWGW0970**, **GWGW0971**, and **GWGW0972** had a pH >2 at the time of analysis. For samples with a pH >2, the holding time for aromatic compounds is 7 days. All samples were analyzed within 7 days.

1.3 Calibrations

1.3.1 Initial Calibrations (IC)

Appropriate initial calibration curves were performed for each analyte. Based on the method of calibration, the laboratory calculated either the percent relative standard deviation (%RSD) or the correlation coefficient for each target analyte. All relative response factors (RRFs) were greater than 0.050. The acceptance criteria were met for all target analytes.

1.3.2 Continuing Calibration Verification (CCV)

For all target analytes, Percent Differences (%D) between the RRFs from the initial calibration and the response factor of the midrange calibration standard were within acceptance criteria (±25%) with exceptions listed below. All RRFs were greater than 0.050. Samples were qualified in accordance with National Functional Guidelines.

Date (Time) of the Cont. Calibration	Compounds	Outlier	Qualified Sample(s)	Qualifier
11/3/99 (13:50)	Chloroethane	28.1%	None	NA
	Bromomethane	28.0%	None	NA
	Methylene Chloride	38.0%	None	NA
11/8/99 (14:28)	Chloroethane	42.5%	None	NA
	Bromomethane	54.0%	**GWGW0952** **GWGW0953** **GWGW0961** **GWGW0962** **GWGW0963** **TPIN0096** **TPEF0096**	UJ UJ UJ UJ UJ UJ UJ
	Acetone	29.2%	None	NA
11/9/99 (11:49)	2-Butanone	28.3%	None	NA
	Acetone	30.4%	None	NA

Date (Time) of the Cont. Calibration	Compounds	Outlier	Qualified Sample(s)	Qualifier
12/3/99 (8:42)	Chloroethane	48.2%	None	NA
	Carbon Disulfide	40.4%	None	NA
	Bromomethane	36.0%	None	NA
	Methylene Chloride	83.8%	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	R R R R R R

1.4 Internal Standards

All sample internal standard area counts were within the acceptance criteria (>50% and <200%) of the associated continuing calibrations' internal standard area counts, and all sample internal standard retention times are within ±30 seconds of the associated continuing calibration internal standard retention time.

1.5 Performance Check Sample

An instrument performance check sample was analyzed at the beginning of each 12-hour period during sample analysis. All samples were analyzed within the 12-hour period. All ion abundance criteria were met for bromofluorobenzene (BFB).

1.6 Blanks

Blank contaminants and their associated qualified samples are listed in the table below. Samples were qualified as anomalous (U) if sample concentrations were within five times the blank concentration for uncommon laboratory contaminants or ten times the blank concentration for common laboratory contaminants (e.g., acetone, methylene chloride, etc.).

Blank	Contaminant	Concentration (µg/L)	Associated Qualified Sample(s)	Concentration(s) (µg/L)	Qualifier
VBLK01 (12/3/99)	Methylene Chloride	0.56	None	NA	NA
TBGW0316	1,1-Dichloroethane	0.22	None	NA	NA
	Dibromochloromethane	0.058	None	NA	NA
	Toluene	0.092	None	NA	NA
TBGW0317	Methylene Chloride	0.51	None	NA	NA
TBGW0318	Methylene Chloride	0.74	None	NA	NA
	Chloroform	0.21	**GWGW0964** **GWGW0965**	0.23 0.62	U U
	Dibromochloromethane	0.078	None	NA	NA
	Bromoform	0.18	None	NA	NA
	Toluene	0.11	None	NA	NA

Blank	Contaminant	Concentration (µg/L)	Associated Qualified Sample(s)	Concentration(s) (µg/L)	Qualifier
TBGW0319	Methylene Chloride	0.64	None	NA	NA
	Chloroform	0.21	None	NA	NA
	Dibromochloromethane	0.075	None	NA	NA
	Bromoform	0.16	None	NA	NA
TBGW0320	Methylene Chloride	0.60	None	NA	NA
	Toluene	0.16	**STMW0114** **SWSW0237** **SWSW0239** **SWSW0241**	0.10 0.20 0.16 0.22	U U U U

1.7 System Monitoring Compounds (Surrogates)

The three surrogates employed, bromofluorobenzene, dibromofluoromethane, and toluene-d8 are appropriate to the method. All recoveries were within acceptable limits.

1.8 Laboratory Control Samples (LCS)

The following table lists LCS recoveries outside QAPP acceptance limits (70-130%). Sample qualifications are also summarized below. The LCS analyzed on 12/3/99 is the same analysis as the CCV.

Analysis Date	Compound	Recovery	Qualified Samples	Qualifier
11/3/99	Bromomethane	162%	None	NA
	Chloroethane	144%	None	NA
	Carbon Disulfide	150%	None	NA
11/8/99	Chloromethane	60%	**GWGW0952** **GWGW0953** **GWGW0961** **GWGW0962** **GWGW0963** **TPIN0096** **TPEF0096**	UJ UJ UJ UJ UJ UJ UJ
11/9/99	Carbon Disulfide	148%	None	NA
	2-Hexanone	156%	None	NA
	4-Methyl-2-Pentanone	133%	None	NA

Analysis Date	Compound	Recovery	Qualified Samples	Qualifier
12/3/99	Bromomethane	64%	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	UJ UJ UJ UJ UJ UJ
	Chloroethane	52%		
	Methylene Chloride	5%	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	R R R R R R
	Acetone	140%	**STMW0113** **SWSW0237** **SWSW0239** **SWSW0241**	J J J J

1.9 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Samples **GWGW0959** and **GWGW0973** were utilized for MS/MSD analysis. All recoveries and relative percent differences outside QAPP limits are listed in the table below. Sample qualifications are also summarized below.

MS/MSD Sample	Compound	Average Recovery	RPD	Qualifier
GWGW0959	Chloromethane	63%	3%	UJ
	Acetone	34%	18%	UJ
	2-Butanone	62%	8%	UJ
GWGW0973	Bromomethane	131%	2%	NA
	Acetone	39%	8%	UJ
	Carbon Disulfide	138%	6%	NA
	2-Butanone	69%	4%	UJ

1.10 Field Duplicates

Samples **GWGW0952/GWGW0953**, **GWGW0961/GWGW0962**, and **SWSW0237/SWSW0241** were submitted to the laboratory as blind field duplicate pairs. Analytes detected in one member of a duplicate pair were detected in the other. RPDs between concentrations of detected analytes indicated that acceptable precision was attained.

1.11 Compound Identification and Quantitation

A dilution was performed on sample **GWGW0954** (2x) appropriate to the concentration of chloroform present in the sample.

1.12 Raw Data Audit

A raw data audit was performed on samples **GWGW0970**, **GWGW0971**, and **GWGW0972**. All calculations were reproduced and no transcription errors were noted.

2.0 Semivolatile Organic Compounds

One aqueous sample was analyzed for semivolatile organic compounds (EPA 8270). The laboratory data were reviewed to evaluate compliance with this method (SW-846), and the quality of the data reported. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review which warranted data qualification.

✓ Data Completeness
✓ Holding Times and Preservation
⊗ Calibrations
⊗ Blanks
✓ Internal Standards
✓ Instrument Performance Check
⊗ System Monitoring Compounds (Surrogates)
⊗ Laboratory Control Samples
✓ Matrix Spike/Matrix Spike Duplicates
✓ Compound Identification and Quantitation

2.1 Data Completeness

The analysis was performed as requested on the COC.

2.2 Holding Time and Preservation

The sample was extracted by the laboratory within the seven day holding time from date of collection and analyzed within the 40-day holding time from extraction to analysis for semivolatiles.

2.3 Calibrations

2.3.1 Initial Calibrations (IC)

An appropriate initial calibration was performed for each analyte. The laboratory calculated the %RSD or correlation coefficient for each target analyte. For all target analytes, the %RSD was within acceptance criteria (30%), and the RRFs were greater than 0.050. The correlation coefficient, (r), met acceptance criteria for all target analytes except those listed in the table below.

Initial Calibration Date	Compound	Correlation Coefficient	Qualified Sample(s)	Qualifier
10/27/99	4-Nitrophenol	0.991	**GWGW0956**	R[1]
	Bis(2-ethylhexyl)phthalate	0.990	**GWGW0956**	UJ
	Di-n-octylphthalate	0.990		
1- Detection limit was rejected due to the LCS recovery.				

2.3.2 Continuing Calibration (CCC)

With exceptions listed below, the %D between the RRFs in the initial calibration and the response factor of the midrange calibration standard of all target analytes were within acceptance criteria (±20%), and the RRFs were greater than 0.050. No qualifications were warranted since no positive detections were reported.

Cont. Calibration Date	Compounds	%D	Qualified Sample(s)	Qualifier
11/8/99 (13:59)	Benzoic Acid	32.5%	None	NA
	2,4-Dinitrophenol	26.5%	None	UJ[1]
	4-Nitrophenol	30.2%	**GWGW0956**	R[1]
1- Detection limit was qualified due to the LCS recovery.				

2.4 Blanks

Di-n-butyl phthalate (0.17 µg/L) was detected in the associated method blank. The associated detection (0.13 µg/L) in sample **GWGW0956** was qualified as anomalous (U).

2.5 Internal Standards

All sample internal standard area counts were within the acceptance criteria (>50% and <200%) of the associated continuing calibrations internal standard area counts and all sample internal standard retention times are within ±30 seconds of the associated continuing calibration internal standard retention time.

2.6 Instrument Performance Check

An instrument performance check sample was analyzed at the beginning of each 12-hour period during sample analysis. No samples were analyzed outside the 12-hour period. Decafluorotriphenylphosphine (DFTPP) met all ion abundance criteria.

2.7 Surrogate Recovery

The surrogates employed, 2-fluorobiphenyl, terphenyl-d14, 2-chlorophenol-d4, 2-fluorophenol, 2,4,6-tribromophenol, nitrobenzene-d5, 1,2-dichlorobenzene-d4, and phenol-d5, are appropriate to the method. All surrogate recoveries were within the laboratory QC limits, however, several recoveries fell outside QAPP limits in sample **GWGW0956** (50-150%). Consequently, the detection limits for all acid compounds this sample were qualified as estimated (UJ).

2.8 Laboratory Control Sample (LCS)

LCS recoveries which fell outside QAPP limits (50%-150%) are listed in the table below. Sample qualifications are also summarized below.

LCS (Date)	Compound	Percent Recovery	Qualified Sample(s)	Qualifier
SBLK01 (11/8/99)	Phenol	22%	**GWGW0956**	R
	4-Nitrophenol	21%		
	N-nitroso-di-n-propylamine	47%	**GWGW0956**	UJ
	Bis(2-chloroethyl)ether	49%		
	2-Methylphenol	45%		
	m,p-cresol	44%		
	Nitrobenzene	45%		
	2-Nitrophenol	48%		
	2-Nitroaniline	48%		
	2,4-Dinitrophenol	41%		

2.9 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample **GWGW0956** was utilized for MS/MSD analysis. Percent recoveries or RPD's were which fell outside QAPP limits are delineated below. Sample qualifications are also summarized below

Spiked Sample	Outlier(s)	MS/MSD		Sample Conc. (µg/L)	Sample Qualifier
		Ave. % Rec.	RPD		
GWGW0956	Phenol	22%	14%	ND	NA[1]
	4-Nitrophenol	17%	42%	ND	NA[1]
	2,4-Dintrotoluene	56%	31%	ND	NA

1 - Result previously rejected due to failed LCS recovery.

2.10 Compound Identification and Quantitation

No dilutions were performed.

3.0 Pesticides/PCBs

Seven aqueous samples (including one field duplicate pair) were analyzed for pesticides/PCB analysis utilizing EPA Method 8081/8082. The laboratory data were reviewed to evaluate compliance with the method (SW-846, 1996) and the quality of the data reported. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review which warranted data qualification.

✓ Data Completeness
✓ Holding Times and Preservation
⊗ Calibrations
✓ Blanks
⊗ System Monitoring Compounds (Surrogates)
✓ Laboratory Control Samples

- ✓ Matrix Spike/Matrix Spike Duplicates
- ✓ Column Agreement
- ✓ Field Duplicates
- ✓ Compound Identification and Quantitation
- ✓ Raw Data Audit

3.1 Data Completeness

All analyses were performed as requested on the COCs.

3.2 Holding Time and Preservation

The samples were extracted by the laboratory within the 7-day technical holding time from the date of collection and analyzed within the 40 day holding time from extraction to analysis for pesticides/PCBs.

3.3 Calibrations

3.3.1 Initial Calibrations (IC)

All % RSDs were less than 20% and all correlation coefficients, (r), were greater than 0.995. In accordance with the method, full multipoint calibrations were performed for Aroclors 1016 and 1260, and only single point calibrations are required for the other Aroclors. However, the laboratory performed a full multipoint calibration for Aroclor 1254. The calibration did not meet the 20% RSD requirement for any of the peaks. The associated reporting limits in samples **STMW0113**, **STMW0114**, **SWSW0237**, **SWSW0238**, **SWSW0239**, and **SWSW0241** have been qualified as estimated (UJ).

3.3.2 Continuing Calibration Verification (CCV)

Percent differences (%Ds) between the true concentration and that calculated for all target analytes met the EPA Method 8081 required 15% difference, except for those listed in the following table which exceeded the established limit. DDT breakdown was noted in association with some project samples. However, no detections of DDT or DDT breakdown products were observed in these samples. For this dual-column analysis, detections are reported from either column, depending on which result is highest.

Cont. Calibration Date (Time)	Compound	% Difference	Associated Samples Qualified	Qualifier
11/8/99 (14:16)	Endosulfan sulfate	17.0%	None	NA
	Methoxychlor	22.5%		

Cont. Calibration Date (Time)	Compound	% Difference	Associated Samples Qualified	Qualifier
11/9/99 (7:32)	Alpha-BHC	17%/22%	**GWGW0956**	UJ
	Beta-BHC	16%/24%		
	Endrin	17.5%/29%		
	4,4-DDD	24.5%/31.5%		
	Methoxychlor	25.0%/18%		
	Delta-BHC	19%	None	NA
	Gamma-BHC	21%		
	Heptachlor	24%		
	Aldrin	22%		
	Heptachlor Epoxide	17%		
	Endosulfan I	16%		
	Dieldrin	18.5%		
	4,4-DDE	18%		
	Endrin	29%		
	4,4-DDT	17.5%		
	Gamma-chlordane	22%		
	Alpha-chlordane	19%		
11/9/99 (9:26)	Alpha-BHC	20%/24%	**GWGW0956**	UJ
	Beta-BHC	20%/26%		
	Delta-BHC	19%/22%		
	Gamma-BHC	18%/23%		
	Aldrin	18%/24%		
	4,4-DDE	15.5%/20.5%		
	Endrin	21%/30.5%		
	4,4-DDD	30.5%/36%		
	Methoxychlor	25%/17%		
	Gamma-Chlordane	18%/24%		
	Heptachlor	25%	None	NA
	Heptachlor Epoxide	19%		
	Endosulfan I	19%		
	Dieldrin	21%		
	Endosulfan II	17%		
	Endrin Aldehyde	17%		
	Alpha-Chlordane	21%		
11/29/99 (16:19)	Toxaphene	20.5%	None	NA
11/29/99 (19:58)	Endrin Aldehyde	20.0%	None	NA
11/29/99 (23:32)	Aroclor-1260	21.6%	None	NA

Cont. Calibration Date (Time)	Compound	% Difference	Associated Samples Qualified	Qualifier
11/30/99 (3:55)	Alpha-BHC	16%	None	NA
	Beta-BHC	18%		
	Delta-BHC	20%		
	Gamma-BHC	16%		
	Heptachlor	18%		
	Endrin Aldehyde	24.5%		
11/30/99 (8:05)	Alpha-BHC	25.0%	None	NA
	Beta-BHC	27.0%		
	Delta-BHC	30.0%		
	Gamma-BHC	24.0%		
	Heptachlor	28.0%		
	Aldrin	23.0%		
	Heptachlor epoxide	16.0%		
	Endosulfan I	20.0%		
	Dieldrin	19.5%		
	4,4'-DDE	22.0%		
	Endrin	27.0%		
	Endosulfan II	19.0%		
	4,4'-DDD	35.0%		
	Endosulfan Sulfate	27.0%		
	Endrin Ketone	16.0%		
	Endrin Aldehyde	32.5%		
	Gamma-chlordane	21.0%		
	Alpha-chlordane	21.0%		

3.4 Blanks

No contaminants were detected in any associated method blank.

3.5 System Monitoring Compounds (Surrogates)

The surrogates employed, tetrachloro-m-xylene (TCMX) and decachlorobiphenyl (DCB), are appropriate to the method. Surrogates in samples **SWSW0237** and **SWSW0241** were diluted out. All surrogate recoveries except for samples **SWSW0238**, **SWSW0239**, and **STMW0114** met QAPjP acceptance criteria. Surrogate recoveries for samples **SWSW0238** and **SWSW0239** greatly exceeded acceptance limits due to coelution with a non-target analyte. Surrogate recoveries for **STMW0114** fell below acceptance limits and reporting limits have been qualified as estimated (UJ).

3.6 Laboratory Control Samples (LCS)

All reported LCS recoveries were within acceptable limits for all spiked compounds. RPDs for gamma-BHC and aldrin exceeded the QAPP limit of 30%;

however, no detections were reported for these compounds. Consequently, no qualification is warranted.

3.7 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

No MS/MSD analysis was performed; consequently, no assessment of matrix interferences can be made.

3.8 Column Agreement

No differences greater than 25% were noted for all detected compounds.

3.9 Field Duplicates

Samples **SWSW0237/SWSW0241** were submitted to the laboratory as a field duplicate pair. No target analytes were detected.

3.10 Compound Identification and Quantitation

Detection limits comply with project specifications. Samples **SWSW0237** (50x), **SWSW0239** (5x), and **SWSW0241** (50x) were diluted due to the oily matrix of the samples. The laboratory is reporting the lower of the two values for the quality control samples. The most recent method update states that the higher of the two values should be reported. The surrogate recoveries associated with sample **GWGW0956** are reported at twice what is reported in the raw data.

4.0 Metals

Thirty aqueous samples (including three field duplicate pairs) were analyzed for total metals (EPA 6010A/6020/7470). The laboratory data were reviewed to evaluate compliance with this method (EPA SW-846), and the quality of the reported data. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review which warranted data qualification.

✓ Data Completeness
✓ Holding Times and Preservation
✓ Calibrations
✓ CRDL Standard
⊗ Blanks
✓ ICP Interference Check Sample
✓ Laboratory Control Samples
✓ Matrix Spike/Matrix Spike Duplicate Samples
⊗ Serial Dilutions
⊗ Field Duplicates
✓ Element Identification
✓ Raw Data Audit

4.1 Data Completeness

All analyses were performed as requested on the COCs. Samples were analyzed for total chromium, although, metals analysis was not requested on the COC.

4.2 Holding Times and Preservation

All analyses were performed within the method specified holding times.

4.3 Calibrations

4.3.1 Initial Calibrations (IC)

- A blank and three standards were analyzed for the inductively coupled plasma (ICP) analysis.
- A blank and four standards were analyzed for the ICP/MS analysis.
- A blank and five standards were used for the cold vapor atomic absorption (CVAA) initial calibration for mercury. The correlation coefficient met the QC limit of ≥0.995.

4.3.2 Initial Calibration Verification (ICV)

The percent recoveries of all analytes for all associated ICVs were within the QC acceptance limits (90-110% for all metals except mercury; 80-120% for mercury).

4.3.3 Continuing Calibration Verification (CCV)

The percent recoveries in all associated CCVs were within the QC acceptance limits (90-110% for all metals except mercury; 80-120% for mercury).

4.4 CRDL Standard

Although not required by SW-846, the laboratory analyzed a CRDL standard at the beginning of each analytical sequence. Percent recoveries were within acceptable limits for all analytes.

4.5 Blanks

4.5.1 Preparation (Method) Blank

No analytes were detected above the CRDL in associated preparation blanks. The following metals were detected in the preparation blanks below the CRDL, but above the IDL. The associated sample data were qualified accordingly.

Preparation Blank ID	Element	Concentration (µg/L)	Associated Samples Qualified	Qualifier
QC664526	Calcium	54.357	None	NA

Preparation Blank ID	Element	Concentration (µg/L)	Associated Samples Qualified	Qualifier
QC663861	Arsenic	0.686	None	NA
	Beryllium	0.011	**GWGW0956**	U
	Chromium	0.948	None	NA
	Iron	4.439	None	NA
	Silver	0.047	**GWGW0956**	U
	Vanadium	0.474	None	NA
	Zinc	0.380	**GWGW0956**	U
QC670057	Silver	0.125	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	U U U U U U
	Vanadium	0.204	None	NA

4.5.2 Initial Calibration Blank (ICB)

The target metals listed below were detected in the initial calibration blanks at very low concentrations below the CRDL. Similar detections reported in the associated samples that warranted further qualification due to ICB contamination are listed below.

ICB Date (Time)	Element	Concentration (µg/L)	Associated Samples Qualified	Qualifier
11/9/99 (20:10)	Calcium	9.2	None	NA
11/4/99 (13:21)	Mercury	0.1	None	NA
11/6/99 (12:20)	Silver	0.033	None	NA
12/2/99 (18:49)	Barium	0.046	None	NA
	Chromium	0.3	None	NA
	Manganese	0.1	None	NA
	Silver	0.2	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	U U U U U U
	Vanadium	0.2	None	NA
12/3/99 (00:44)	Antimony	0.8	**STMW0113** **SWSW0237** **SWSW0241**	U U U

4.5.3 Continuing Calibration Blanks (CCB)

No analytes were detected above the CRDL in associated CCBs. The following metals were detected in the CCB below the CRDL, but above

the IDL. The associated data were qualified as indicated in the following table.

CCB Date (Time)	Element	Concentration (µg/L)	Associated Samples Qualified	Qualifier
11/9/99 (22:02)	Calcium	20.9	None	NA
11/9/99 (23:12)	Calcium	25.5	None	NA
11/10/99 (00:18)	Calcium	31.7	None	NA
	Magnesium	9.6	None	NA
11/6/99 (16:29)	Silver	0.027	**GWGW0956**	U
	Thallium	0.1	None	NA
11/6/99 (17:30)	Silver	0.019	**GWGW0956**	U
	Thallium	0.3	None	NA
12/2/99 (20:53)	Barium	0.038	None	NA
	Chromium	0.3	None	NA
	Manganese	0.1	None	NA
	Selenium	0.3	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0241**	U U U U U
	Silver	0.2	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	U U U U U U
	Thallium	0.9		
	Vanadium	0.2	None	NA
12/2/99 (22:14)	Chromium	0.4	None	NA
	Iron	1.6	None	NA
	Manganese	0.1	None	NA
	Silver	0.2	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	U U U U U U
	Thallium	1.7		
	Vanadium	0.3	None	NA

4.6 ICP Interference Check Samples (ICS)

ICSA and ICSAB samples were analyzed according to method requirements. Percent recoveries for all detected target analytes were not within ±20% of the true value as prescribed in the method. Recoveries for antimony, barium, cadmium, chromium, copper, lead, manganese, nickel, and zinc were outside control limits. However, examination of the data revealed that no samples

contained high levels of ICP interferants. Consequently, qualification of the data was no warranted on this basis.

4.7 Laboratory Control Samples (LCS)

All percent recoveries were within the QC acceptance range established by the QAPjP.

4.8 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Samples **GWGW0956**, **GWGW0969**, **GWGW0973**, **SWSW0241**, and **SWSW0239** were utilized for MS/MSD analysis. All percent recoveries and relative percent differences were within the QC acceptance criteria. Relative percent differences for the MS/MSD analyses were within the acceptance criteria (RPD ≤20%), demonstrating acceptable analytical precision.

4.10 Serial Dilutions

Samples **GWGW0956**, **GWGW0969**, **GWGW0973**, **SWSW0241**, and **SWSW0239** were used for serial dilution analysis. All percent differences were within QC acceptance criteria established by the method except for those listed in the following table. Data is qualified if the value is greater than 50x the IDL.

Sample	Element	Percent Difference	Qualified Sample(s)	Qualifier
SWSW0239	Barium	57.5%	**STMW0113** **STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	J J J J J J
	Chromium	29.4%		
	Copper	75.2%		
	Iron	45.0%		
	Manganese	113.4%		
	Nickel	224.1%		
	Vanadium	19.3%	**STMW0114** **SWSW0237** **SWSW0238** **SWSW0239** **SWSW0241**	J J J J J
	Zinc	85.9%	**STMW0113** **SWSW0238** **SWSW0239**	J J J

4.11 Field Duplicates

Samples **GWGW0952/GWGW0953**, **GWGW0961/GWGW0962**, and **SWSW0237/SWSW0241** were submitted to the laboratory as blind field duplicate pairs. Analytes detected above the CRDL in one member of a duplicate pair were detected in the other. Significant differences were noted between manganese results for pair **SWSW0237/SWSW0241**. These detections were qualified as estimated (J).

4.12 Element Identification

All detection limits comply with project specifications. No dilutions were performed.

4.13 Raw Data Audit

A raw data audit was performed for samples **GWGW0970**, **GWGW0971**, and **GWGW0972**.

5.0 Inorganic Parameters

Thirty-one aqueous samples (including three field duplicate pairs) were collectively analyzed for the following parameters: Alkalinity (EPA Method 310.1); Chloride, Nitrate, and Sulfate (EPA Method 300.0); Hexavalent Chromium (EPA 7196); Total Organic Carbon (TOC) (EPA Method 9060); Total Dissolved Solids (EPA Method 160.1); Total Suspended Solids (EPA Method 160.2); and Dissolved Phosphorus (EPA Method 365.4).

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review which warranted data qualification.

✓ Data Completeness
✓ Holding Times and Preservation
✓ Calibrations
⊗ Blanks
✓ Laboratory Control Samples
⊗ Matrix Spike/Matrix Spike Duplicates
✓ Laboratory Duplicates
✓ Field Duplicates
✓ Analyte Identification and Quantification

5.1 Data Completeness

All analyses requested on the COCs were performed.

5.2 Holding Time and Preservation

All analyses were performed within the required holding times.

5.3 Calibrations

5.3.1 Initial Calibrations (IC)

- Cr(VI) - A blank and five standards were analyzed. The correlation coefficient met acceptance criteria, ≥0.995, for all calibrations.
- Chloride, Nitrate, Sulfate - A blank and five standards were analyzed. In all cases, a linear curve was generated such that the coefficient of determination met acceptance criteria, ≥0.995 for all calibrations.

- Alkalinity - A certified $CaCO_3$ standard was analyzed. Percent recoveries met acceptance criteria for the method.
- Hardness - An EDTA titrant was standardized with a certified $CaCO_3$.
- TDS – Appropriate balance calibration check data were provided.
- TSS – Appropriate balance calibration check data were provided.
- TOC - A blank and four standards were analyzed. The correlation coefficient met acceptance criteria, $\geq$0.995, for all calibrations.
- Phosphorus - A blank and six standards were analyzed. The correlation coefficient met acceptance criteria, $\geq$0.995, for all calibrations.

5.3.2 Initial Calibration Verification (ICV)

The percent recoveries of all analytes in all ICVs were within the QC acceptance criteria presented in the QAPP.

5.3.3 Continuing Calibration Verification (CCV)

The percent recoveries of all analytes in all CCVs were within the acceptance criteria presented in the QAPP.

5.4 Blanks

5.4.1 Preparation (Method) Blank

The following analytes were detected above the IDL in an associated preparation blank. All other associated preparation blanks were free of target analytes. Data qualification was not warranted on this basis.

Analyte	Blank Concentration (mg/L)	Associated Samples Qualified
TDS	1	None
Phosphate	0.01	None

5.4.2 Initial Calibration Blank (ICB)

The following analytes were detected above the IDL in an associated ICB. All other associated ICBs were free of target analytes. Reported detections in the following samples were qualified as anomalous (U).

Analyte	Blank Concentration (mg/L)	Associated Samples Qualified
Phosphate	0.03	**GWGW0956**
Hexavalent Chromium	0.002	None

5.4.3 Continuing Calibration Blanks (CCB)

The following analytes were detected above the IDL in an associated CCB. All other associated CCBs were free of target analytes. Data qualification was not warranted on this basis.

Analyte	Blank Concentration (mg/L)	Associated Samples Qualified
Phosphate	0.03	**GWGW0956**
Hexavalent Chromium	0.001	None

5.5 Laboratory Control Samples (LCS)

Recoveries of all LCS compounds were within QC criteria presented in the QAPP.

5.6 Matrix Spike (MS)

The following samples were utilized for MS analysis. All percent recoveries and relative percent differences were within the QC acceptance criteria except for alkalinity and phosphate. Alkalinity and phosphate results were qualified as estimated (UJ) in sample **GWGW0956**.

Analysis	Sample(s)
Alkalinity	**GWGW0956**
Hexavalent Chromium	**GWGW0956, TPEF0096**
Nitrate	**GWGW0956, GWGW0973**
Phosphate	**GWGW0956**
Total Organic Carbon	**GWGW0956, STMW0113**

Matrix spikes were not analyzed for TDS, since they are not appropriate to the methods.

5.7 Laboratory Duplicates

The laboratory analyzed the duplicate samples listed below. Acceptable precision was achieved for all analytes.

Analysis	Sample(s)
Alkalinity	**GWGW0956**
Hexavalent Chromium	**GWGW0956, TPEF0096**
Nitrate	**GWGW0956, GWGW0973**
Phosphate	**GWGW0956**
Total Dissolved Solids	**GWGW0960, GWGW0963, GWGW0973, SWSW0241**
Total Suspended Solids	**STMW0114**
Total Organic Carbon	**GWGW0956, STMW0113**

5.8 Field Duplicates

Samples **GWGW0952/GWGW0953**, **GWGW0961/GWGW0962**, and **SWSW0237/SWSW0241** were submitted to the laboratory as blind field duplicate pairs. Analytes detected in one member of a duplicate pair were

detected in the other. Relative percent differences (RPDs) between concentrations of detected analytes indicated that acceptable precision was attained for all analytes.

5.9 Analyte Identification and Quantification

Nitrate samples **GWGW0951** (10x), **GWGW0954** (2x), **TPEF0096** (2x), **GWGW0952** (2x), **GWGW0953** (2x), **GWGW0955** (2x), **GWGW0957** (2x), **GWGW0961** (2x), **GWGW0962** (2x), **GWGW0964** (2x) underwent dilution in order to accurately quantitate results. All results were reported from an appropriate dilution.

5.10 Raw Data Audit

A complete review of raw data and calculation audit was performed for samples **GWGW0964**, **GWGW0965**, **GWGW0966**, and **GWGW0967**. No anomalies were noted for radiochemistry data. Quantitation reports were consistent with calibrations and reported results. For these samples, the reported results were confirmed through recalculations.

6.0 Radiochemistry

Thirty-one aqueous samples (including three field duplicate pairs) were collectively analyzed for Gamma Emitting Radionuclides (EPA Method 901.1), Gross Alpha and Gross Beta Radioactivity (EPA Method 900.0), Americium-241 (EPA 907.0M), Plutonium-241 (EPA 907.0M), Radioactive Strontium (EPA Method 905.0), Carbon-14 (Krieger & Gold), Tritium (EPA Method 906.0), and Radium-226 (EPA Method 903.1M). The laboratory data were reviewed to evaluate compliance with these methods and the quality of the reported data. The following summarizes the results of this review.

A leading check mark (✓) indicates an area of review in which all data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review which warranted qualification of the data.

✓ Data Completeness
✓ Holding Times
✓ Calibrations
✓ Blanks
✓ Laboratory Control Samples
✓ Matrix Spike Samples
⊗ Laboratory Duplicates
✓ Field Duplicates
⊗ Analyte Identification and Quantification

6.1 Data Completeness

All analyses were performed as requested on the COCs except for the Carbon-14 and Tritium analyses of **SWSW0241**. These analyses were not performed because the associated bottle was not received by the laboratory. The MDA for

the following isotopes in the samples listed below exceeded the QAPjP-specified MDA.

Sample	Isotope	QAPjP-Specified MDA (pCi/L)	Laboratory-Reported MDA (pCi/L)
GWGW0956	Lead-210	450	739.5

6.2 Holding Times

All analyses were performed within the method-specified holding times.

6.3 Calibrations

6.3.1 Initial Calibrations

All calibrations were performed according to the laboratory standard operating procedures. All acceptance criteria were met.

6.3.2 Continuing Calibrations

Continuing calibrations were verified to be within laboratory acceptance limits for all analyses.

6.4 Blanks

The activities for all analytes were less than the minimum detectable activity (MDA) in all preparation.

6.5 Laboratory Control Samples

The percent recoveries for all analytes in each of the LCS analyses were within the QAPjP prescribed QC limits.

6.6 Matrix Spike Samples (MS)

The laboratory utilized the following samples for MS analyses. All percent recoveries and relative percent differences were within the QC acceptance criteria.

Matrix Spike Analyses	
Analysis	**Sample(s)**
Tritium, Carbon-14	**GWGW0973**
Carbon-14	**GWGW0969** **SWSW0239**
Gamma Spec, Plutonium-241, Americium-241	**GWGW0956**
Radium-226	**STMW0113**
Tritium	**GWGW0963** **SWSW0238**

6.7 Laboratory Duplicates

The laboratory utilized the samples listed below for duplicate analysis. Acceptable precision was achieved for all analytes except Carbon-14. Carbon-14 results were qualified as estimated (J/UJ) in samples **GWGW0951**, **GWGW0952**, **GWGW0953**, **GWGW0954**, **GWGW0955**, **GWGW0956**, **GWGW0957**, **GWGW0958**, **GWGW0959**, **GWGW0960**, **GWGW0961**, **GWGW0962**, **GWGW0963**, **TPIN0096**, **GWGW0964**, **GWGW0965**, **GWGW0966**, **GWGW0967**, **GWGW0968**, and **GWGW0969**.

Laboratory Duplicate Analyses	
Analysis	**Sample(s)**
Tritium, Carbon-14	**GWGW0973**
Carbon-14	**GWGW0969** **SWSW0239**
Gamma Spec, Plutonium-241, Americium-241	**GWGW0956**
Radium-226	**STMW0113**
Tritium	**GWGW0963** **SWSW0238**

6.8 Field Duplicates

Samples **GWGW0952/GWGW0953**, **GWGW0961/GWGW0962**, and **SWSW0237/SWSW0241** were submitted to the laboratory as blind field duplicate pairs. Analytes detected in one member of a duplicate pair were detected in the other. Acceptable precision was attained for all analytes.

6.9 Analyte Identification and Quantification

Sample results were qualified as estimated (UJ) if the sample result was less than the MDA and the sample result plus the uncertainty exceeded the MDA. Sample results were qualified as estimated (J) if the sample result was greater than the MDA and the sample result minus the uncertainty was less than the MDA.

The following isotopes in the samples listed below were not quantified due to interferences in the gamma spectroscopy analysis.

Sample	Isotope(s)
GWGW0956	Bismuth-212

6.10 Raw Data Audit

A complete review of raw data and calculation audit was performed for samples **GWGW0964**, **GWGW0965**, **GWGW0966**, and **GWGW0967**. No anomalies were noted for radiochemistry data. Quantitation reports were consistent with calibrations and reported results. For these samples, the reported results were confirmed through recalculations.

7.0 Summary

Validation discrepancies identified during this monitoring event included problems with instrument calibrations, blank contamination, laboratory control sample recoveries, matrix spike recoveries, surrogate recoveries, field duplicates, and serial dilutions. Data associated with these anomalies have been flagged as anomalous, rejected, or estimated. Some reporting limits have been raised due to associated laboratory contamination. With the exception of data flagged as rejected (R), these data, as qualified, are useable for their intended purpose.

Table 1
Fall 1999 Groundwater Monitoring Samples

Sample	SDG	Sample Number	Date Sampled	Analyses Performed
Groundwater Samples				
GWGW0951	9B047	9911047-01	11/1/99	V, M, GC, R
GWGW0952	9B047	9911047-10	11/2/99	V, M, GC, R
GWGW0953 (Duplicate of GWGW0952)	9B047	9911047-11	11/2/99	V, M, GC, R
GWGW0954	9B047	9911047-02	11/1/99	V, M, GC, R
GWGW0955	9B047	9911047-12	11/2/99	V, M, GC, R
GWGW0956	9B047	9911047-03	11/1/99	V, S, P, M, GC, R
GWGW0957	9B047	9911047-13	11/2/99	V, M, GC, R
GWGW0958	9B047	9911047-14	11/2/99	V, M, GC, R
GWGW0959	9B047	9911047-04	11/1/99	V, M, GC, R
GWGW0960	9B047	9911047-05	11/1/99	V, M, GC, R
GWGW0961	9B047	9911047-15	11/2/99	V, M, GC, R
GWGW0962 (Duplicate of GWGW0961)	9B047	9911047-16	11/2/99	V, M, GC, R
GWGW0963	9B047	9911047-17	11/2/99	V, M, GC, R
GWGW0964	9B174	9911174-01	11/3/99	V, M, GC, R
GWGW0965	9B174	9911174-02	11/3/99	V, M, GC, R
GWGW0966	9B174	9911174-03	11/3/99	V, M, GC, R
GWGW0967	9B174	9911174-04	11/3/99	V, M, GC, R
GWGW0968	9B174	9911174-05	11/3/99	V, M, GC, R
GWGW0969	9B174	9911174-06	11/3/99	V, M, GC, R
GWGW0970	9B233	9911233-01	11/4/99	V, M, GC, R
GWGW0971	9B233	9911233-04	11/4/99	V, M, GC, R
GWGW0972	9B233	9911233-02	11/4/99	V, M, GC, R
GWGW0973	9B233	9911233-03	11/4/99	V, M, GC, R
Treatment Plant Samples				
TPIN0096	9B047	9911047-08	11/2/99	V, GC, R
TPEF0096	9B047	9911047-09	11/2/99	V, GC, M
Surface Water Samples				
SWSW0237	9B777	9911777-03	11/19/99	V, P, M, GC, R
SWSW0238	9B777	9911777-04	11/19/99	V, P, M, GC, R
SWSW0239	9B777	9911777-05	11/19/99	V, P, M, GC, R
SWSW0241 (Duplicate of SWSW0237)	9B777	9911777-06	11/19/99	V, P, M, GC, R

Sample	SDG	Sample Number	Date Sampled	Analyses Performed
Storm Water Samples				
STMW0113	9B777	9911777-01	11/19/99	V, P, M, GC, R
STMW0114	9B777	9911777-02	11/19/99	V, P, M, GC, R
Trip Blanks				
TBGW0316	9B047	9911047-06	11/1/99	V
TBGW0317	9B047	9911047-07	11/2/99	V
TBGW0318	9B174	9911174-07	11/3/99	V
TBGW0319	9B233	9911233-05	11/4/99	V
TBGW0320	9B777	9911777-07	11/19/99	V

Notes:
V - Volatile Organic Compounds
SV - Semivolatile Organic Compounds
P - Pesticide/PCB Compounds
M - Metals
GC - General Chemistry Analytes
R - Radiochemistry Analytes

ATTACHMENT A
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Dames & Moore's Data Review Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

DAMES & MOORE DATA QUALIFIER DEFINITIONS — REASON CODE DEFINITIONS

a Analytical sequence deficiency or omission.
b Gross compound breakdown (4,4'-DDT/Endrin).
c Calibration failure; poor or unstable response.
d Laboratory duplicate imprecision.
e Laboratory duplicate control sample imprecision.
f Field duplicate imprecision.
g Poor chromatography.
h Holding time violation.
i Internal standard failure.
j Poor mass spectrographic performance.
k Serial dilution imprecision.
l Laboratory control sample recovery failure.
m Matrix spike/matrix spike duplicate recovery failure.
n Interference check sample recovery failure.
o Calibration blank contamination (metals/inorganics only).
p Preparation blank contamination (metals/inorganics only).
q Quantitation outside linear range.
r Linearity failure in initial calibration.
s Surrogate spike recovery failure (GC organics and GC/MS organics only).
t Instrument tuning failure.
u No valid confirmation present (GC Organics only).
v Value is estimated below the MDA (Rads only).
w Retention time (RT) outside of RT window.
x Field blank contamination.
y Trip blank contamination
z Method blank contamination.
Q No valid confirmation column (GC Organics only)
D Value exceeds quantitation limit.

INTERPRETATION KEY

The following example shows how an analytical result which includes qualifiers assigned by both the Dames & Moore data review team and the analytical laboratory could be displayed in the data tables:

<5.20 JB | Uz

The qualifier assigned by the laboratory precedes the " | "; the qualifier assigned by the Dames & Moore data review team follows it. In this example, the result is qualified as a non-detection data to the bias introduced by contamination of the associated method blank. Presence of the analyte in the method blank is indicated by the laboratory qualifier (B). The qualifier assigned by the Dames & Moore data review team (Uz) indicates that the analyte concentration is considered to be below the adjusted detection limit (quantitation limit) based on the level of contamination in the method blank.

Appendix D
Treatment System Operation Log

APPENDIX D
SYSTEM OPERATION LOG
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DATE	TIME	Turn System ON	System OFF	EXTRACTION WELL Flow Rate (gpm)	EXTRACTION WELL Totalizer (gallons x 10)	INTO AIRSTRIPPER Flow Rate (gpm)	INTO AIRSTRIPPER Totalizer (gallons x 10)	INJECTION WELL Flow Rate (gpm)	INJECTION WELL Totalizer (gallons x 10)	BLOWER HOURS
01/04/99	14:03			120	39,344,870	151	43,927,366	160	41,149,497	5111.3
01/08/99	10:30		M		39,492,504		44,091,908		41,305,135	5203.8
01/08/99	14:42	X		120	39,492,504	150	44,091,908	160	41,305,135	5203.8
01/11/99	10:06			120	39,968,862	150	44,622,933	160	41,795,185	5271.4
01/19/99	13:35			120	41,362,836	160	46,185,588	162	43,248,480	5466.9
01/25/99	13:27			120	42,382,570	150	47,372,639	160	44,325,398	5610.7
02/01/99	14:15			118	43,967,589	154	49,227,998	155	45,925,975	5779.7
02/08/99	15:45			121	44,785,197	145	50,186,850	160	46,849,249	5949.1
02/16/99	15:44			120	46,152,014	150	51,776,282	160	48,296,592	6140.7
02/22/99	9:36			120	47,142,250	150	52,922,006	160	49,349,563	6278.9
03/01/99	11:22			120	48,365,418	150	54,338,616	160	50,640,545	6448.7
03/04/99	10:55		M	121	48,880,889	150	54,921,046	159	51,182,390	6520.1
03/08/99	11:45	X			48,880,889		54,921,046		51,182,390	6520.1
03/09/99	14:03			120	49,067,533	150	55,137,144	160	51,372,663	6629.0
03/15/99	13:46			120	50,086,859	150	56,344,138	160	52,447,723	6772.6
03/22/99	8:10		P		51,245,092		57,697,777		53,679,262	6935.0
03/22/99	10:05	X			51,245,092		57,697,777		53,679,262	6935.0
03/22/99	10:35			120	51,248,236	150	57,701,287	160	53,680,351	6935.6
03/30/99	9:54			120	52,577,695	150	59,250,211	155	55,089,735	7126.9
04/05/99	9:51			120	53,574,877	150	60,406,913	160	56,137,879	7269.8
04/13/99	14:12			120	54,945,556	150	61,977,268	160	57,582,915	7466.1
04/16/99	14:35		M	120	55,287,495	150	62,375,701	160	57,941,575	7537.7
04/16/99	15:10	X		120	55,287,495	150	62,375,701	160	57,941,575	7537.1
04/19/99	8:45			120	55,746,753	150	62,911,941	160	58,422,273	7603.3
04/19/99	9:10	**RESET TOTALIZERS**								
04/26/99	13:36			120	1,208,830	150	1,406,400	160	1,249,112	7776.2
05/03/99	12:21			115	2,366,178	145	2,747,965	156	2,438,832	7943.5
05/10/99	9:57			115	3,506,441	150	4,066,170	160	3,596,706	8108.6

APPENDIX D
SYSTEM OPERATION LOG
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DATE	TIME	Turn System ON	System OFF	EXTRACTION WELL Flow Rate (gpm)	EXTRACTION WELL Totalizer (gallons x 10)	INTO AIRSTRIPPER Flow Rate (gpm)	INTO AIRSTRIPPER Totalizer (gallons x 10)	INJECTION WELL Flow Rate (gpm)	INJECTION WELL Totalizer (gallons x 10)	BLOWER HOURS
05/17/99	10:09			115	4,650,757	150	5,389,424	160	4,752,758	8276.8
05/24/99	10:02			120	5,846,025	150	6,773,518	160	5,977,396	8444.7
05/24/99	10:15			150	5,848,112	180	6,776,058	190	5,980,019	
05/24/99	10:31		A							
05/24/99	10:54	X		150		180		190		
06/02/99	10:05			150	7,788,123	180	8,918,258	190	8,008,371	8660.4
06/07/99	14:15			150	8,899,715	180	10,145,041	190	9,173,568	8784.6
06/14/99	14:30			150	10,401,393	180	11,797,410	200	10,744,449	8952.8
06/21/99	14:05			150	11,890,890	180	13,442,500	190	12,297,633	9120.4
06/28/99	9:10			150	13,330,836	180	15,031,616	190	13,784,011	9283.5
07/06/99	3:55		A	150	13,942,837	190	15,707,362	200	14,418,365	9470.1
07/07/99	8:17	X		170	13,945,880	205	15,709,992	215	14,418,365	9470.1
07/07/99	10:42			185	13,965,880	205	15,732,455	210	14,437,435	9473.8
07/12/99	10:30			170	15,003,560	210	16,881,077	220	15,509,661	9573.5
07/13/99	8:01		M	170	15,227,742	210	17,130,073	220	15,740,534	9595.1
07/13/99	13:50	X		170	15,227,742	210	17,130,073	220	15,740,534	9595.1
07/19/99	9:48			170	16,689,816	210	18,743,256	220	17,267,380	9735.0
07/26/99	14:16			170	18,491,960	210	20,741,678	215	19,127,331	9907.3
08/02/99	8:38			170	20,168,466	200	22,597,239	210	20,857,831	10069.9
08/09/99	13:45			170	21,942,225	200	24,558,690	210	22,679,951	10242.9
08/16/99	8:37			170	23,565,136	200	26,355,688	210	24,338,895	10405.8
08/23/99	8:55			170	25,223,321	210	28,191,215	220	26,024,674	10574.5
09/01/99	8:10			170	27,359,164	200	30,552,224	210	28,193,940	10789.3
09/01/99	8:30		M	0	27,356,915	0	30,556,865	0	28,198,586	10789.4
09/03/99	16:40	X		170	27,356,915	200	30,556,865	210	28,198,586	10789.4
09/07/99	8:35			170	28,286,779	200	31,586,429	210	29,160,130	10877.9
09/07/99	9:00		M	0	28,292,515	0	31,592,854	0	29,166,862	10878.5

APPENDIX D
SYSTEM OPERATION LOG
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DATE	TIME	Turn System ON	System OFF	EXTRACTION WELL Flow Rate (gpm)	EXTRACTION WELL Totalizer (gallons x 10)	INTO AIRSTRIPPER Flow Rate (gpm)	INTO AIRSTRIPPER Totalizer (gallons x 10)	INJECTION WELL Flow Rate (gpm)	INJECTION WELL Totalizer (gallons x 10)	BLOWER HOURS
09/13/99	16:20	X		170	28,292,515	200	31,592,854	210	29,166,862	10878.5
09/14/99	10:02			170	28,481,086	200	31,800,689	210	29,360,315	10896.3
09/16/99	15:50		A	0	29,058,350	0	32,435,725	0	29,960,286	10950.2
09/16/99	16:15	X		170	29,058,350	200	32,435,725	210	29,960,286	10950.2
09/20/99	9:46			170	29,971,126	200	33,448,200	210	30,893,441	11039.8
09/22/99	9:09		P	0	30,167,537	0	33,665,194	0	31,093,647	11087.1
09/22/99	10:00	X		170	30,167,537	200	33,665,194	210	31,093,647	11087.1
09/23/99	9:40		P	0	30,228,336	0	33,732,745	0	31,155,137	11109.5
09/23/99	10:00	X		170	30,228,336	200	33,732,745	210	31,155,137	11109.5
09/27/99	14:16			170	31,261,462	200	34,874,620	210	32,218,028	11210.0
10/06/99	5:16		P	0	33,332,631	0	37,162,577	0	34,353,988	11417.0
10/06/99	7:45	X		170	33,332,631	200	37,162,577	210	34,353,988	11417.0
10/06/99	9:56		A	0	33,354,519	0	37,187,444	0	34,375,465	11419.5
10/06/99	10:25	X		170	33,354,519	200	37,187,444	210	34,375,465	11419.5
10/07/99	9:15			170	33,585,316	200	37,441,642	210	34,612,821	11442.1
10/11/99	11:05			170	34,584,157	200	38,546,088	210	35,644,331	11539.9
10/18/99	1:39		P	0	36,306,764	0	40,449,697	0	37,418,220	11710.3
10/18/99	13:55	X		170	36,306,764	200	40,449,697	210	37,418,220	11710.3
10/18/99	14:15			170	36,309,926	200	40,452,759	210	37,419,068	11701.7
10/25/99	13:20			170	37,979,185	200	42,300,695	210	39,137,593	11877.9
10/26/99	16:50		P	0	38,245,452	0	42,596,277	0	39,413,481	11904.5
10/27/99	10:00	X		170	38,245,452	200	42,596,277	210	39,413,481	11904.5
10/28/99	10:39		P	0	38,471,330	0	42,845,772	0	39,642,786	11929.3
11/01/99	9:10	X		170	38,471,330	200	42,845,772	210	39,642,786	11929.3
11/02/99	9:05			170	38,714,310	200	43,115,924	210	39,890,312	11953.1
11/08/99	13:47			170	40,244,065	200	44,808,479	210	41,446,127	12101.9
11/15/99	13:55			170	41,976,551	200	46,724,244	210	43,208,379	12270.1
11/22/99	8:45			170	43,656,154	200	48,579,377	210	44,914,440	12432.9

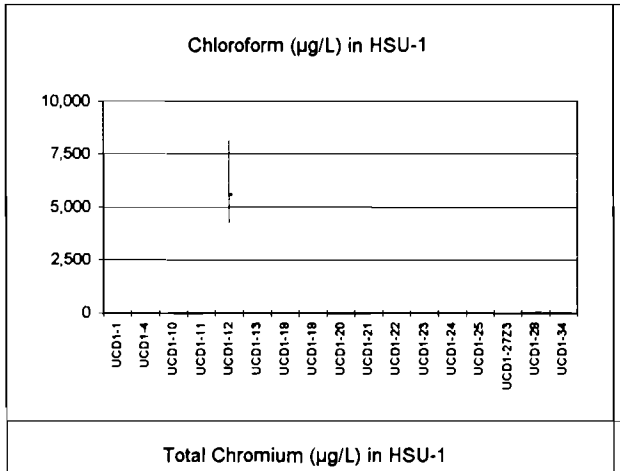
APPENDIX D
SYSTEM OPERATION LOG
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

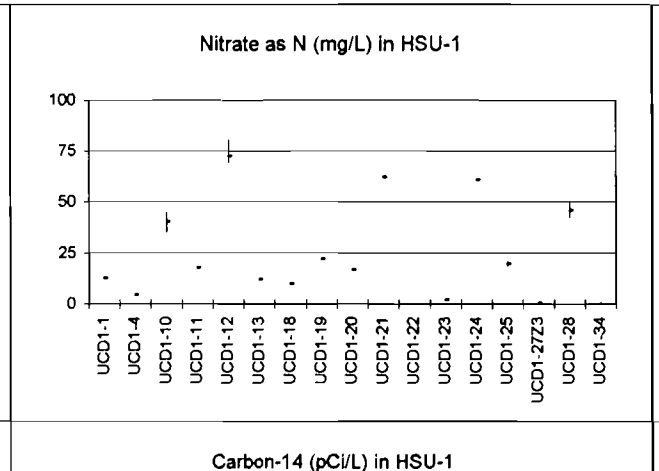
DATE	TIME	Turn System ON	System OFF	EXTRACTION WELL		INTO AIRSTRIPPER		INJECTION WELL		BLOWER HOURS
				Flow Rate (gpm)	Totalizer (gallons x 10)	Flow Rate (gpm)	Totalizer (gallons x 10)	Flow Rate (gpm)	Totalizer (gallons x 10)	
12/01/99	11:05			175	45,913,074	195	51,069,495	170	47,207,770	
12/06/99	9:48			170	47,137,841	200	52,421,491	210	48,450,387	12769.9
12/06/99	10:10		M		47,141,450		52,425,547		48,454,026	12770.2
12/06/99	15:10	X		120	47,141,450	150	52,425,547	165	48,454,026	12270.2
12/13/99	8:53			120	48,281,713	150	53,749,840	165	49,603,583	12932.0
12/20/99	10:35			120	49,487,350	150	55,141,377	165	50,818,083	13101.7
12/28/99	11:35			120	50,868,622	150	56,735,928	165	52,213,418	13294.7

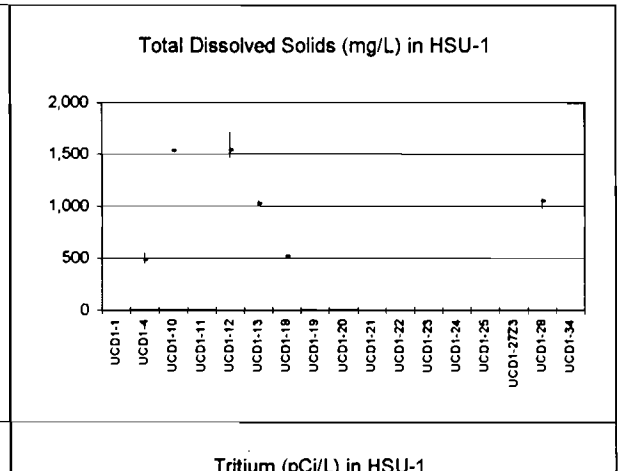
M = manual shut-off.
A = automatic shut-off.
P = power outage

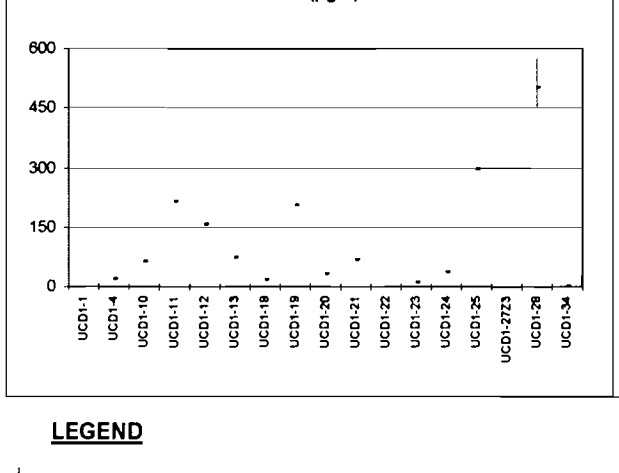
Appendix E

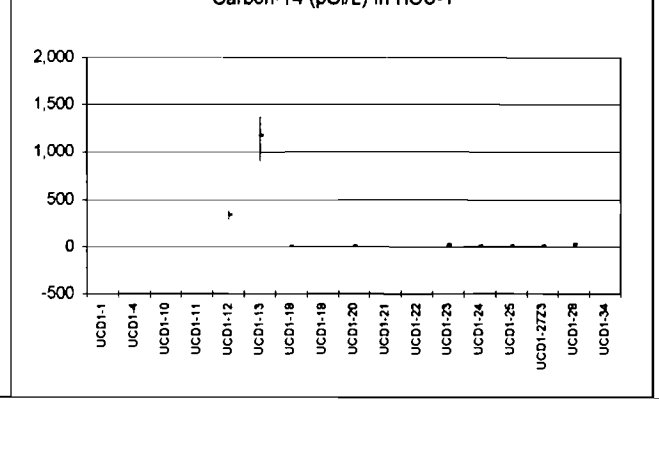
Concentration Range Graphs

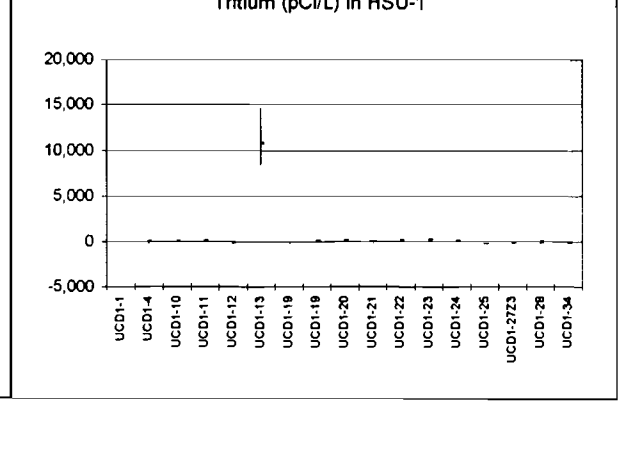












LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 CHLOROFORM, NITRATE, TDS, CHROMIUM, CARBON-14, AND TRITIUM CONCENTRATION RANGE GRAPHS FOR HSU-1
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

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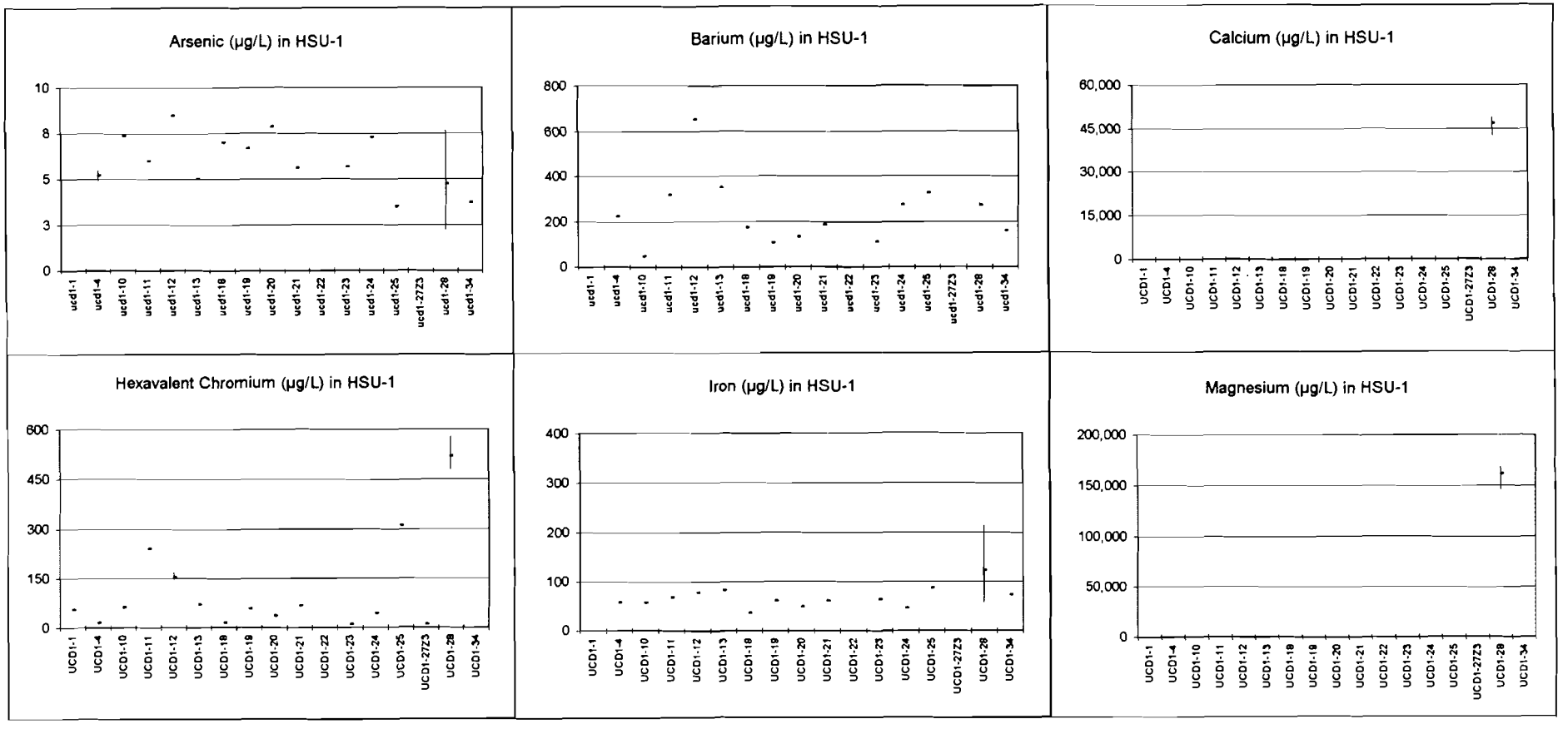

LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 ARSENIC, BARIUM, CALCIUM, HEX. CHROME, IRON, AND MAGNESIUM CONCENTRATION RANGE GRAPHS FOR HSU-1
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LEHR/SCDS Environmental Restoration
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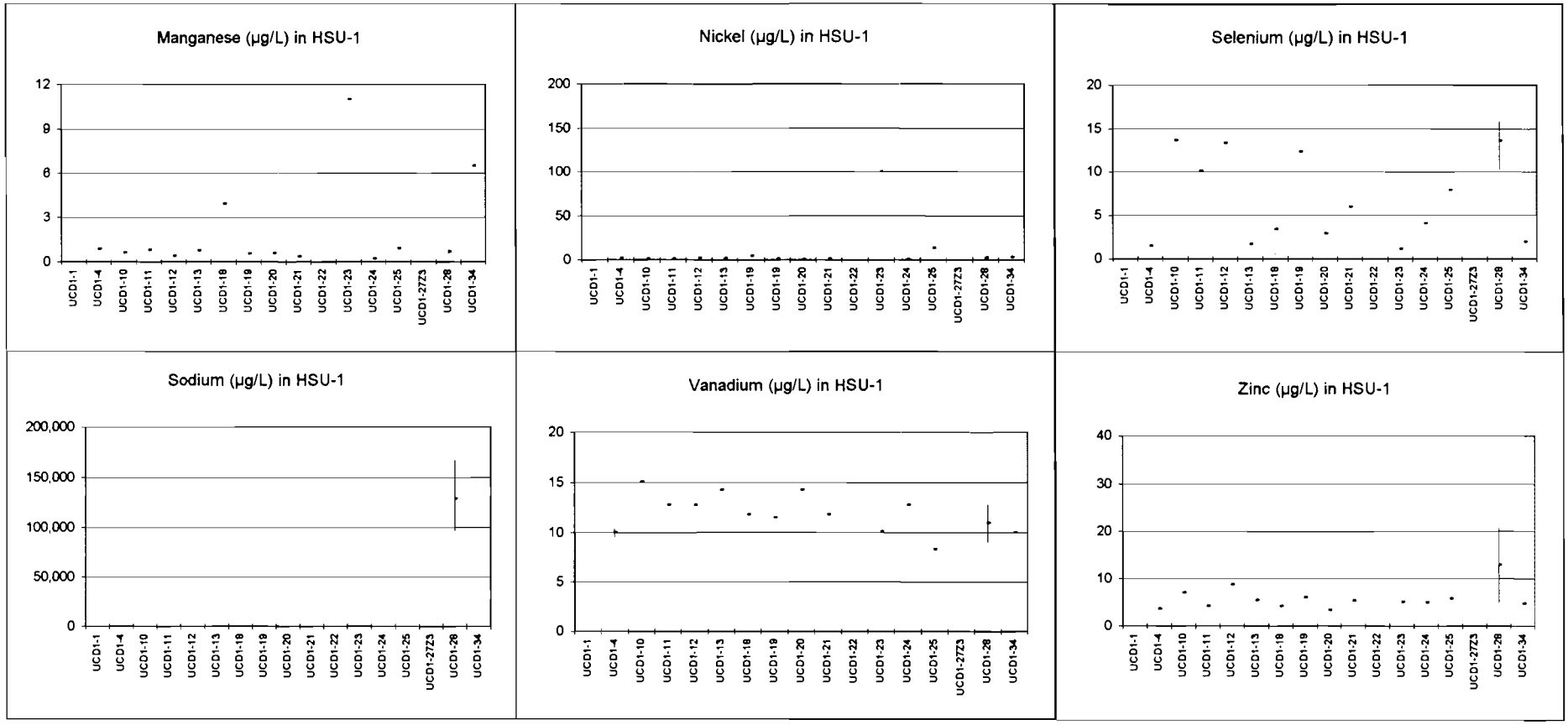

LEGEND

- Vertical Line Indicates Range of All Reported Results
  Square Indicates Average Value of All Detections

1999 MANGANESE, NICKEL, SELENIUM, SODIUM, VANADIUM, AND ZINC CONCENTRATION RANGE GRAPHS FOR HSU-1
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

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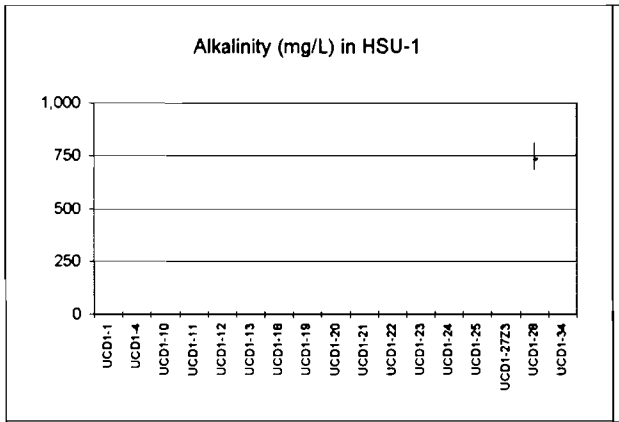

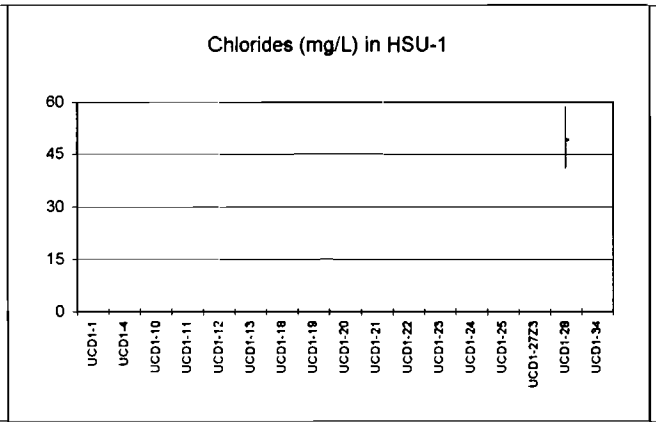

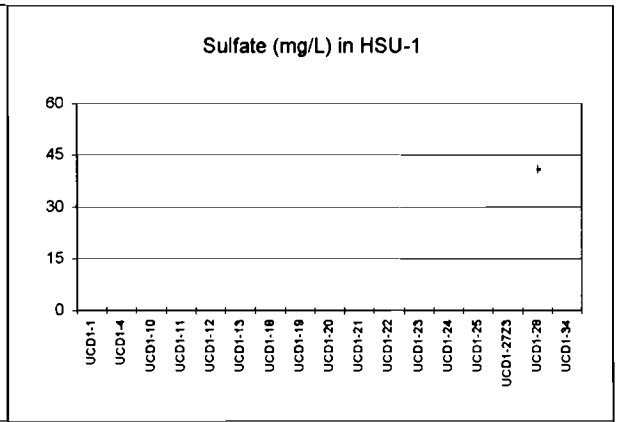

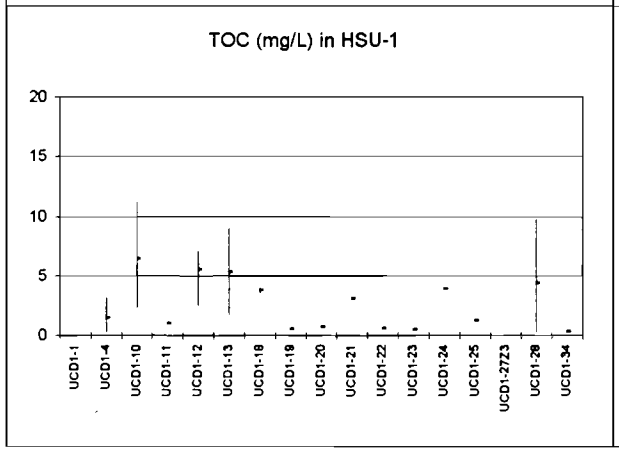

LEGEND

- Vertical Line Indicates Range of All Reported Results
  Square Indicates Average Value of All Detections

1999 ALKALINITY, CHLORIDES, SULFATE, AND TOC CONCENTRATION RANGE GRAPHS FOR HSU-1
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
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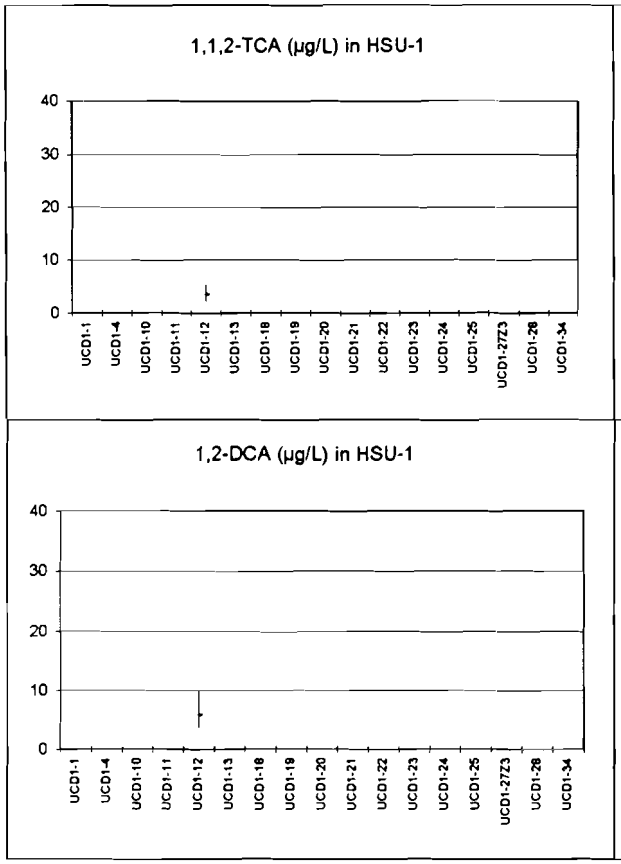

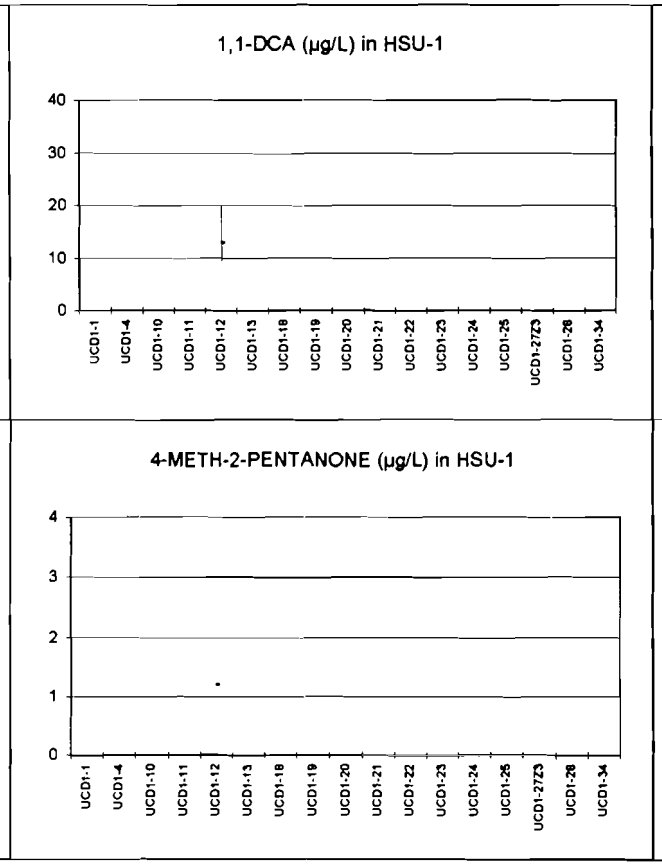

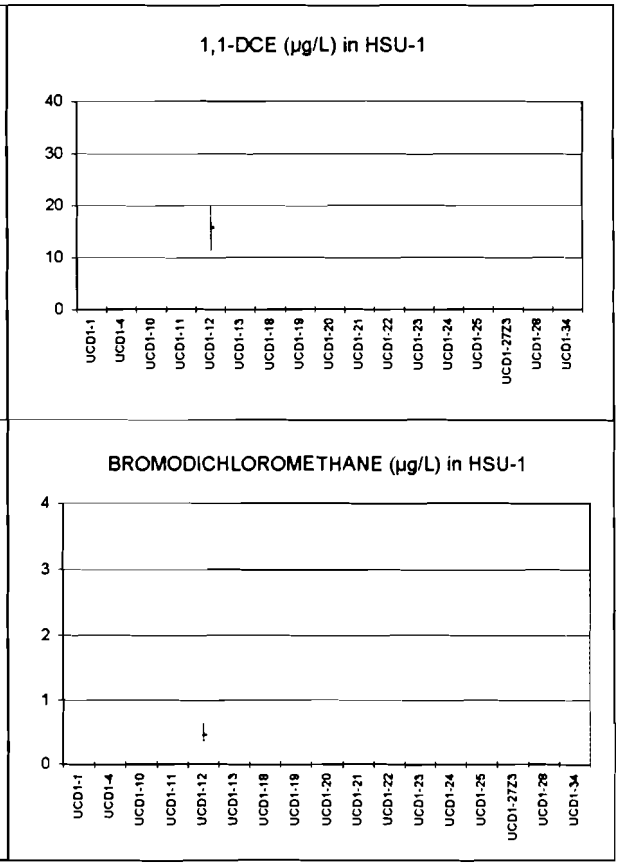

LEGEND

- Vertical Line Indicates Range of All Reported Results
  Square Indicates Average Value of All Detections

1999 1,1,2-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA, 4-METH-2-PENTANONE, AND BROMODICHLOROMETHANE CONCENTRATION RANGE GRAPHS FOR HSU-1

1999 ANNUAL REPORT

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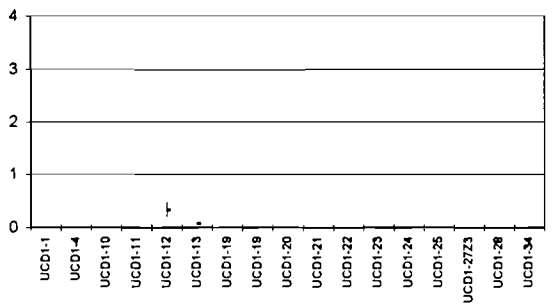

LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 TCE CONCENTRATION RANGE GRAPHS FOR HSU-1
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
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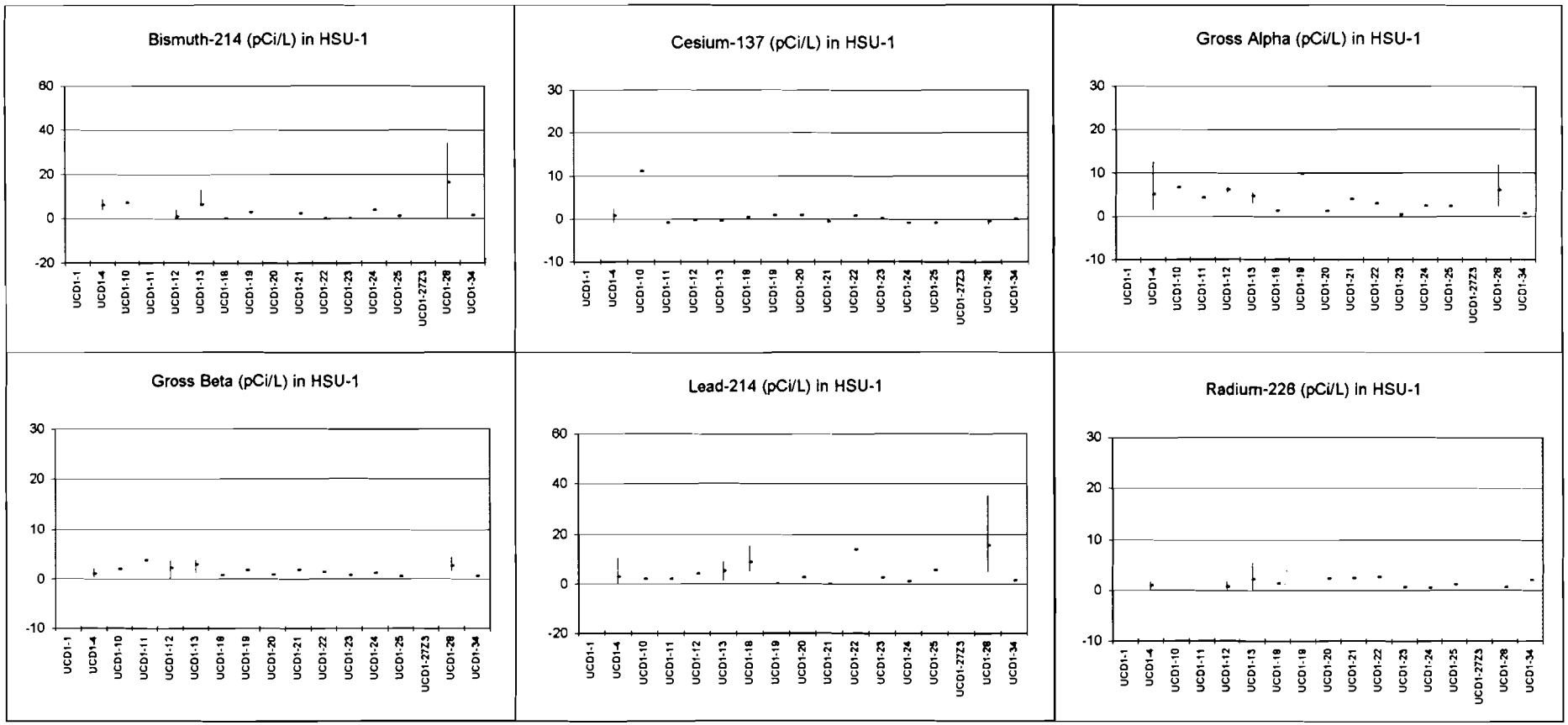

LEGEND

- Vertical Line Indicates Range of All Reported Results
  Square Indicates Average Value of All Detections

1999 Bi-214, Cs-137, Gross Alpha, Gross Beta, Pb-214, and Ra-226
CONCENTRATION RANGE GRAPHS FOR HSU-1
1999 ANNUAL REPORT
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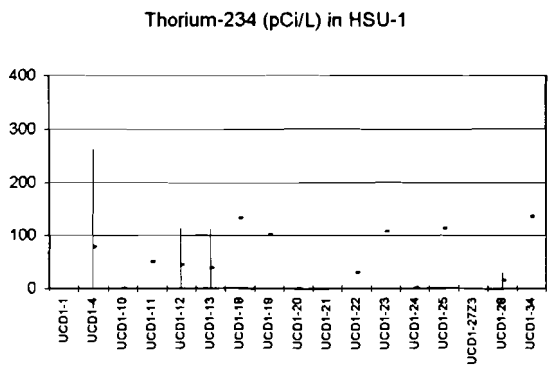

LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 Th-234 CONCENTRATION RANGE GRAPHS FOR HSU-1
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
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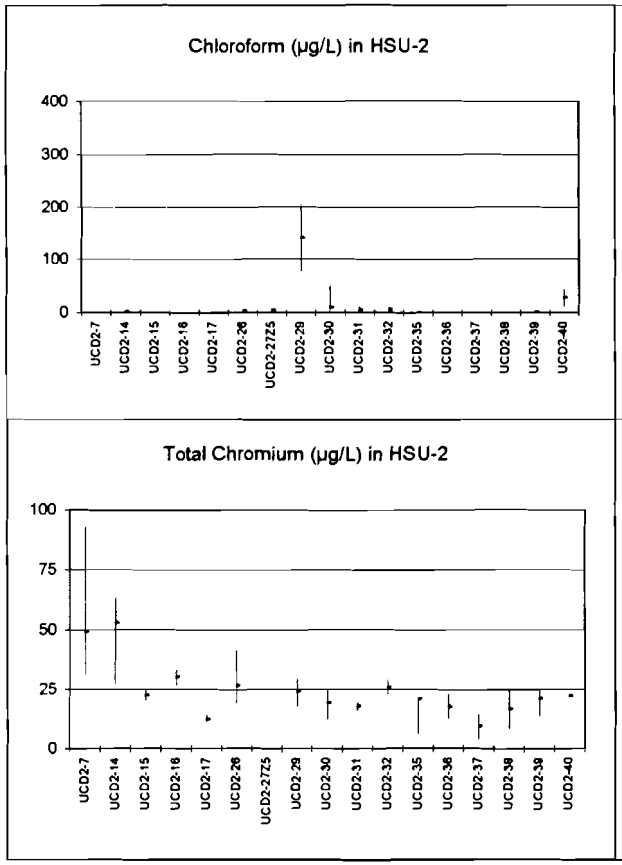

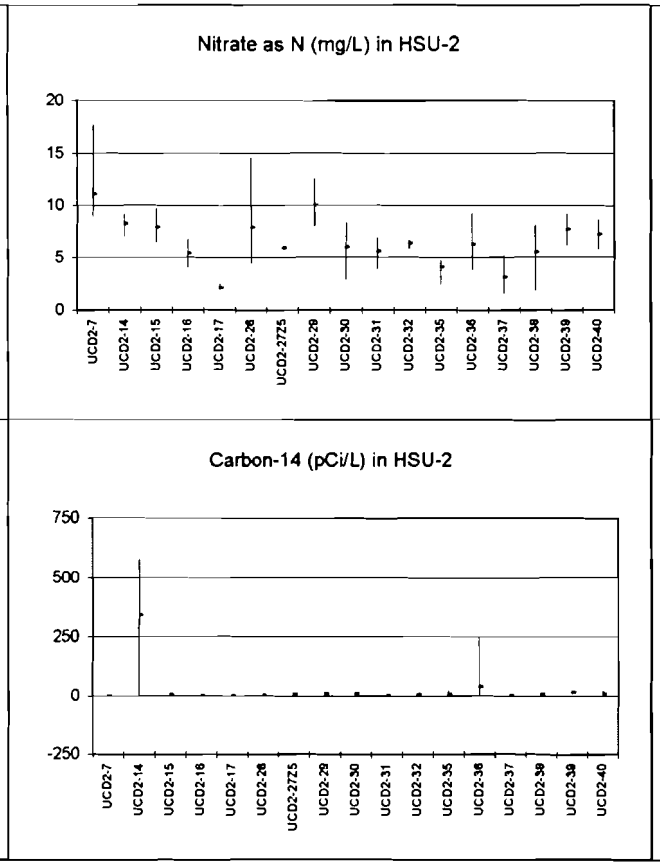

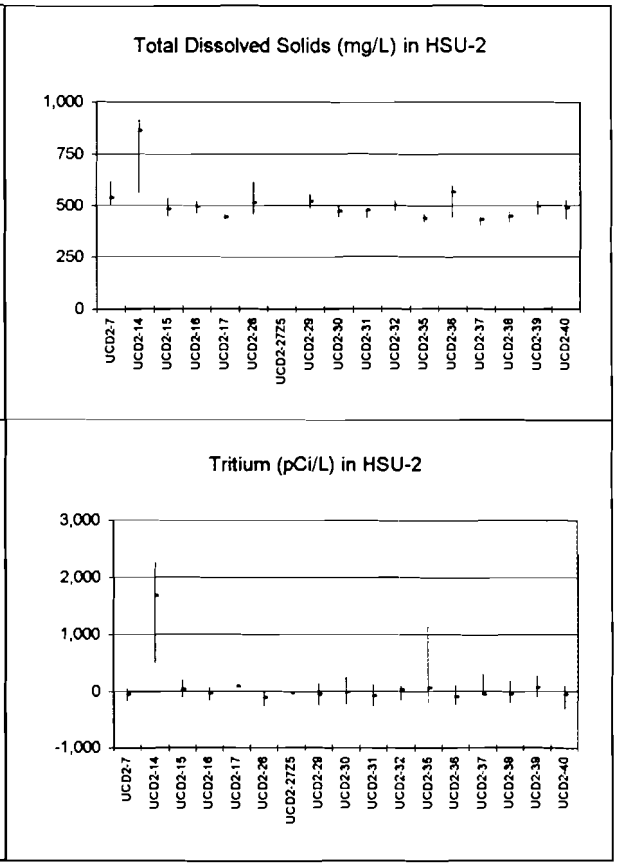

LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 CHLOROFORM, NITRATE, TDS, CHROMIUM, CARBON-14, AND TRITIUM CONCENTRATION RANGE GRAPHS FOR HSU-2
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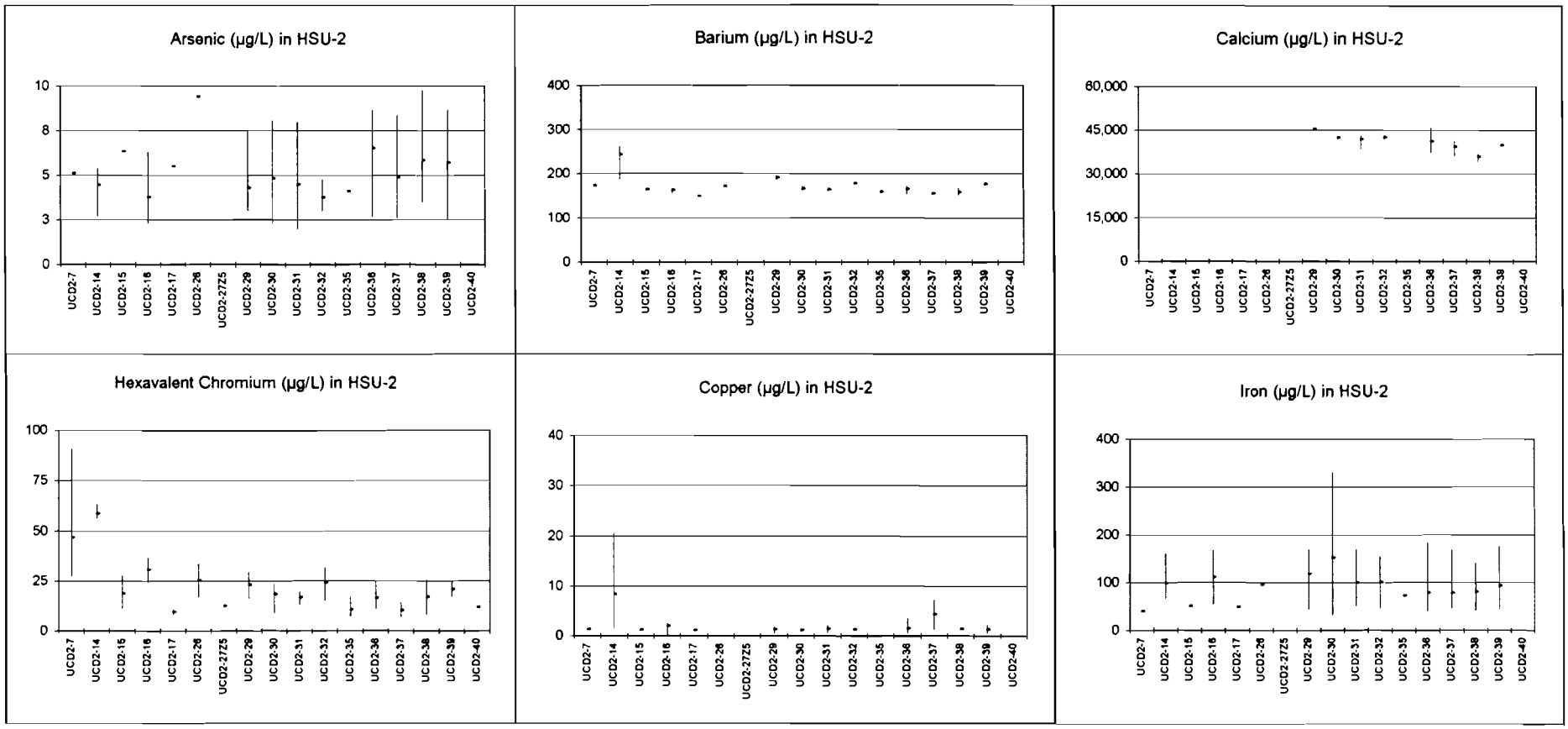

LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 ARSENIC, BARIUM, CALCIUM, HEX. CHROME, COPPER, AND IRON CONCENTRATION RANGE GRAPHS FOR HSU-2
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
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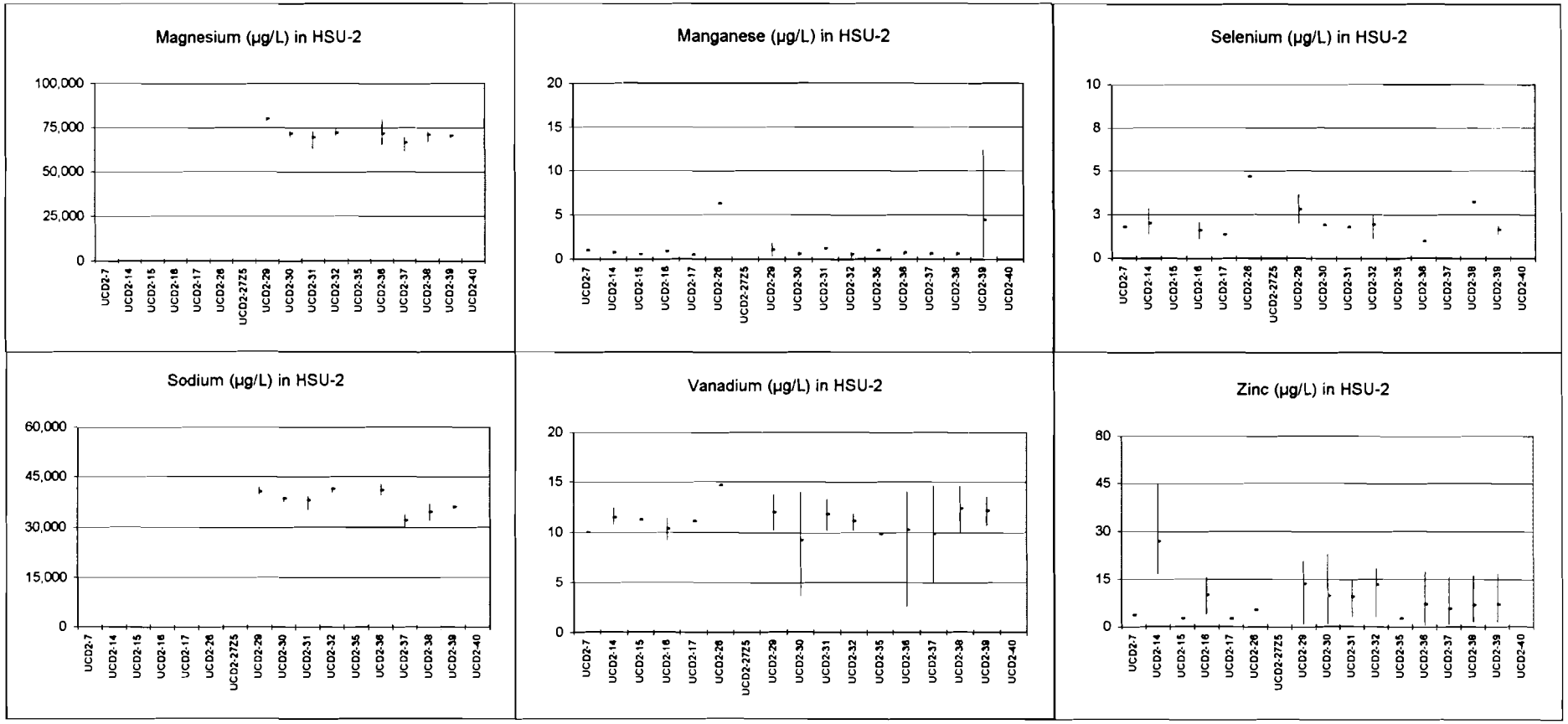

LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 MAGNESIUM, MANGANESE, SELENIUM, SODIUM, VANADIUM, AND ZINC CONCENTRATION RANGE GRAPHS FOR HSU-2
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

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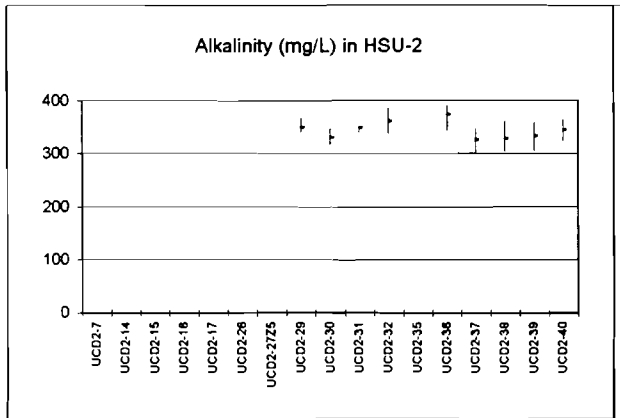

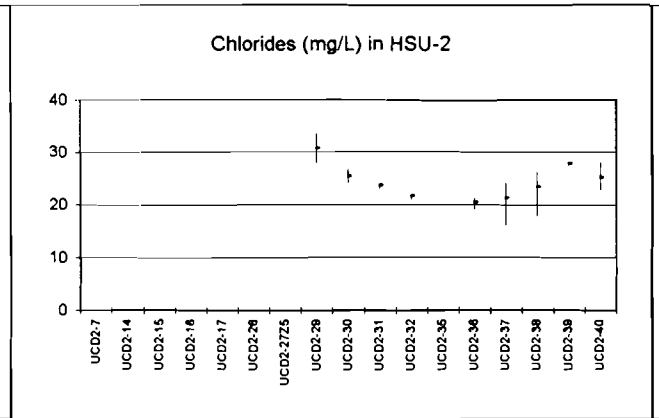

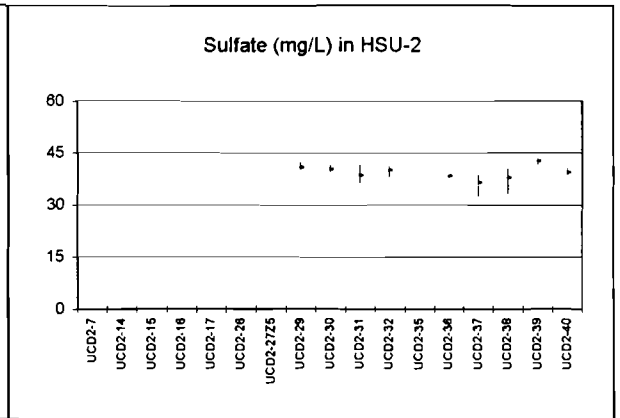

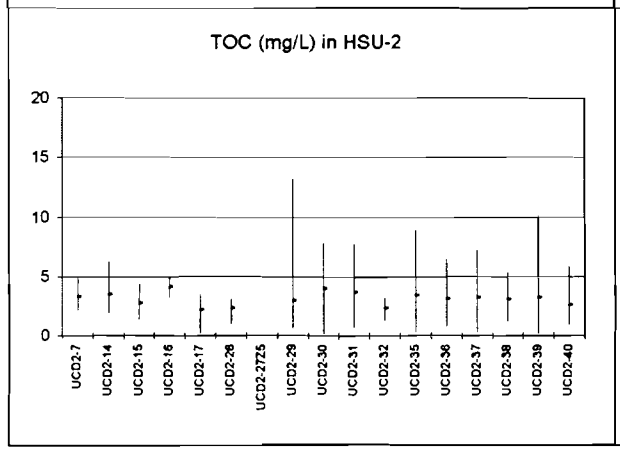

LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 ALKALINITY, CHLORIDES, SULFATE, AND TOC CONCENTRATION RANGE GRAPHS FOR HSU-2
1999 ANNUAL REPORT
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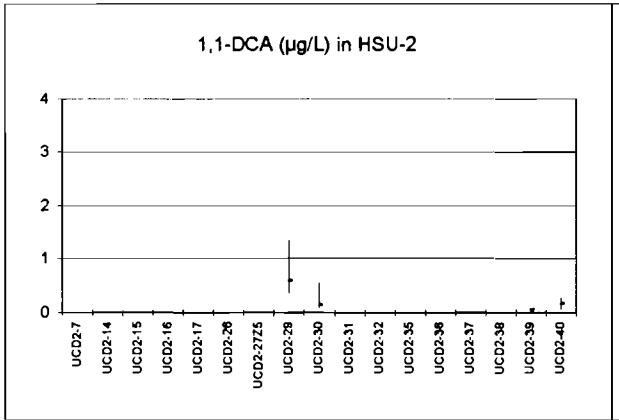
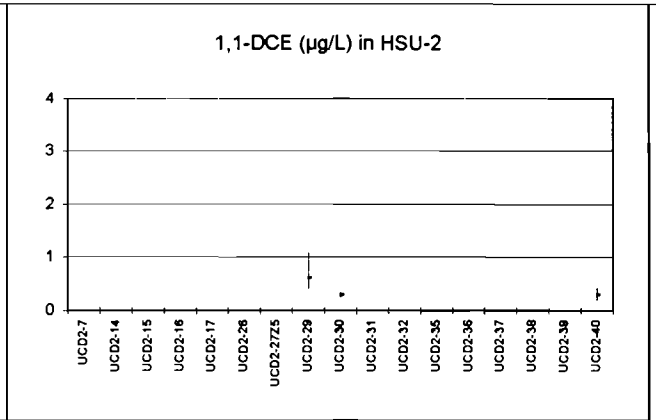
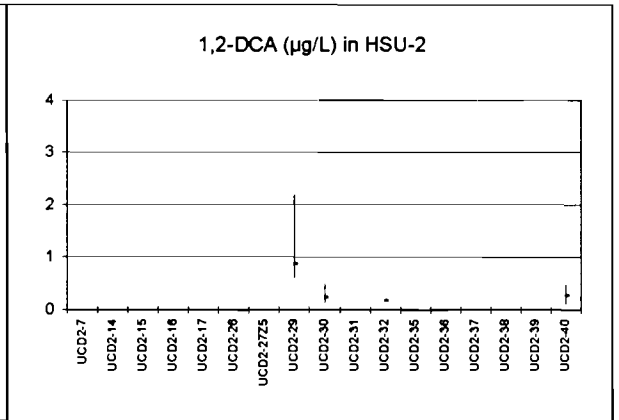
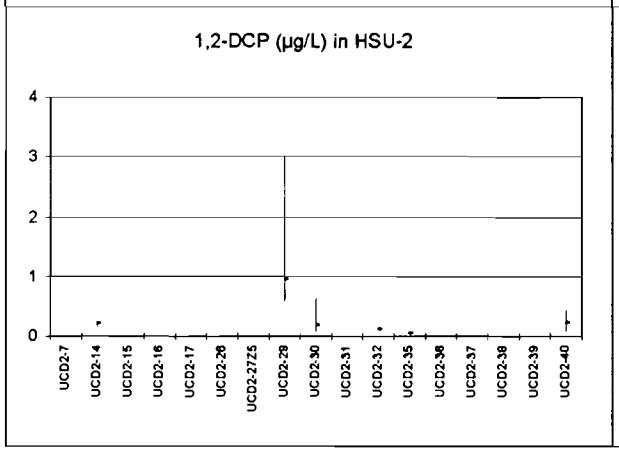






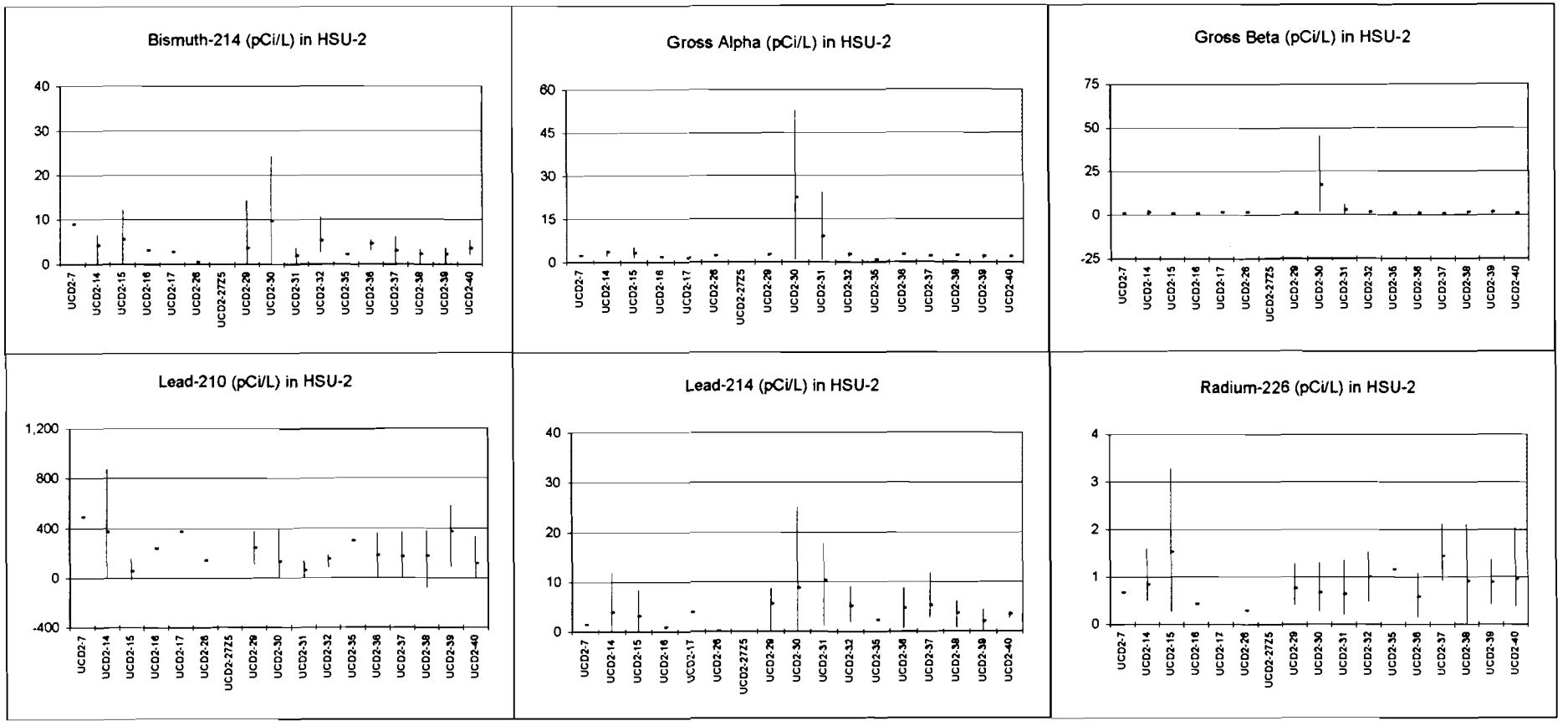


LEGEND

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 1,1-DCA, 1,1-DCE, 1,2-DCA, AND 1,2-DCP CONCENTRATION RANGE GRAPHS FOR HSU-2
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY

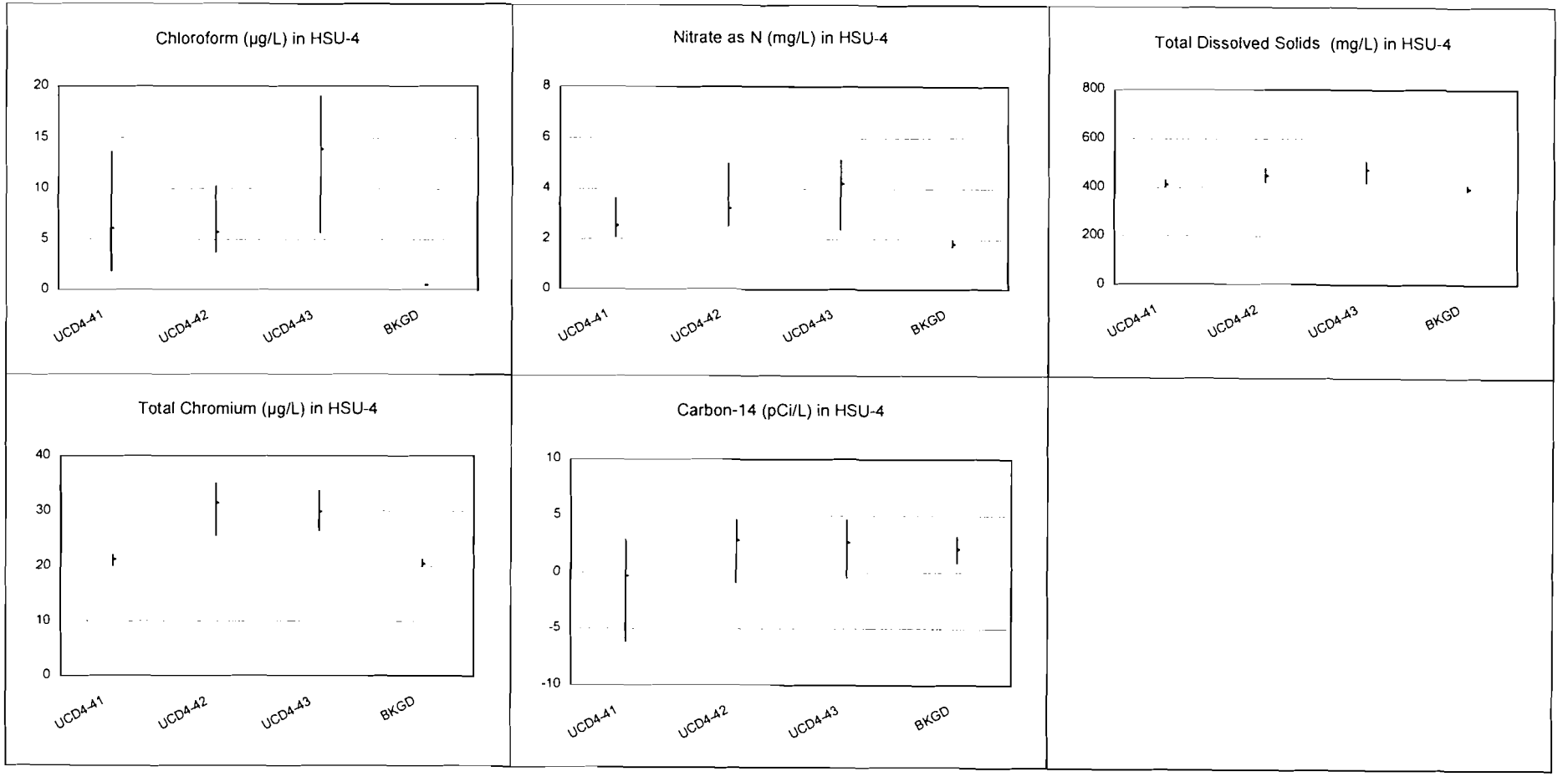


LEGEND

- Vertical Line Indicates Range of All Reported Results
  Square Indicates Average Value of All Detections

1999 Bi-214, Gross Alpha, Gross Beta, Pb-210, Pb-214, and Ra-226
CONCENTRATION RANGE GRAPHS FOR HSU-2
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY



LEGEND

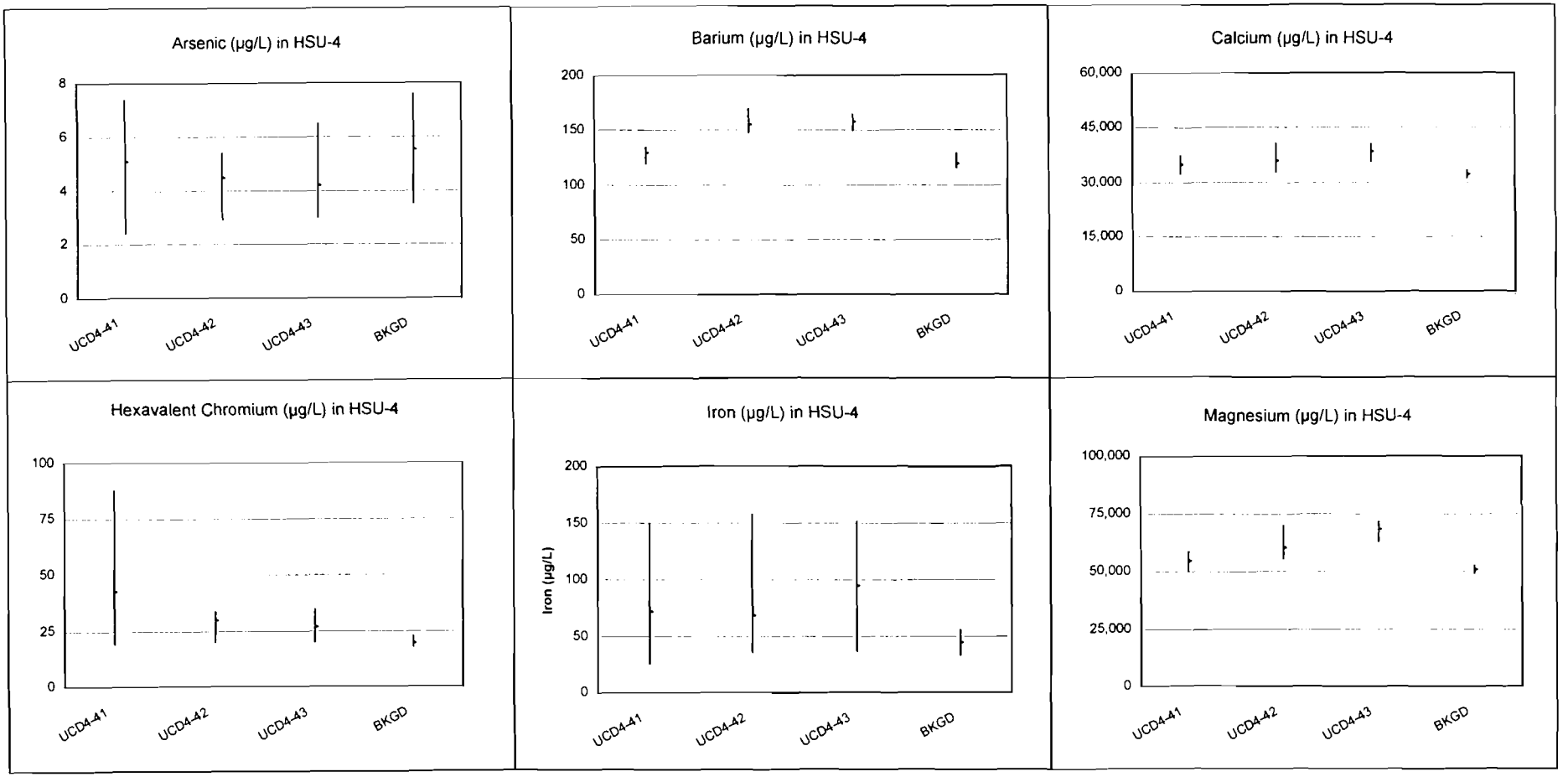
BKGD = Background Well UCD4-44

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

Note: Well UCD4-44, which was installed in April 1999, was first sampled in Spring 1999.

1999 CHLOROFORM, NITRATE, TDS, CHROMIUM, AND CARBON-14 CONCENTRATION RANGE GRAPHS FOR HSU-4
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY



LEGEND

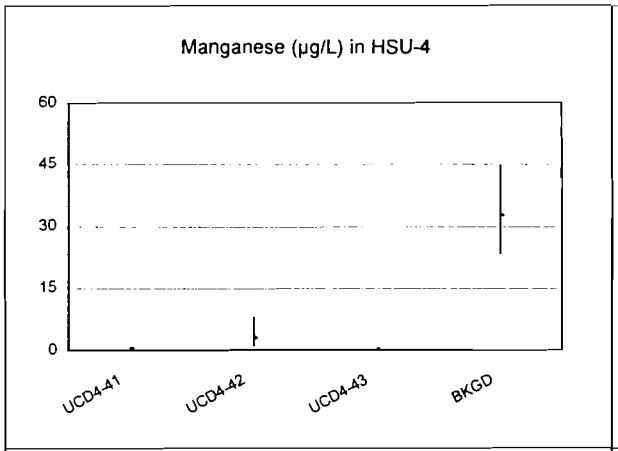
BKGD = Background Well UCD4-44

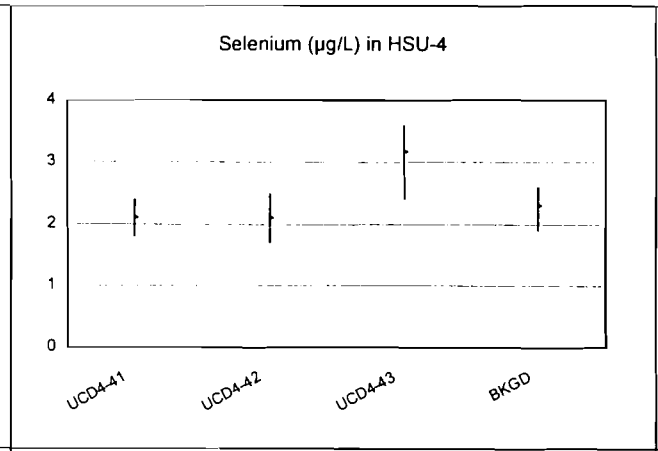
Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

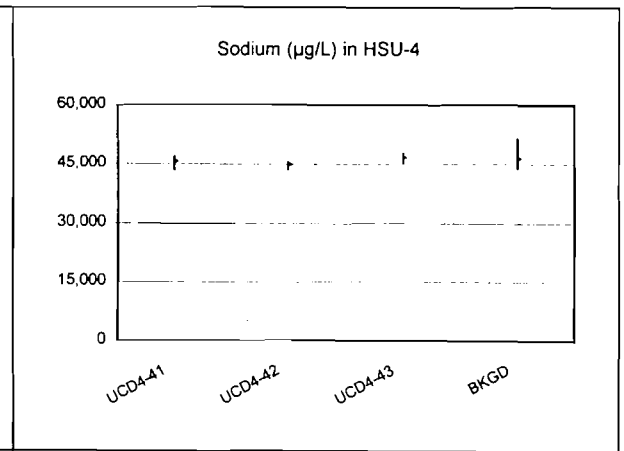
Note: Well UCD4-44, which was installed in April 1999, was first sampled in Spring 1999.

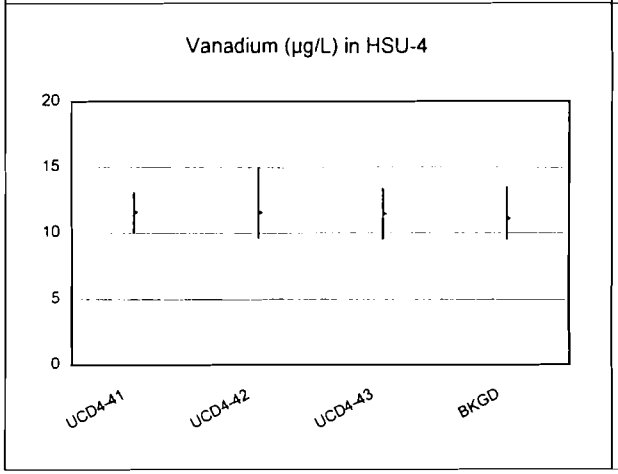
1999 ARSENIC, BARIUM, CALCIUM, HEX. CHROME, IRON, AND MAGNESIUM CONCENTRATION RANGE GRAPHS FOR HSU-4
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY









LEGEND

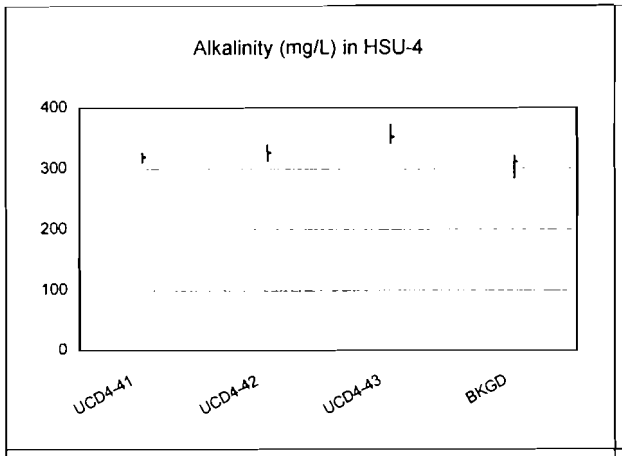
BKGD = Background Well UCD4-44

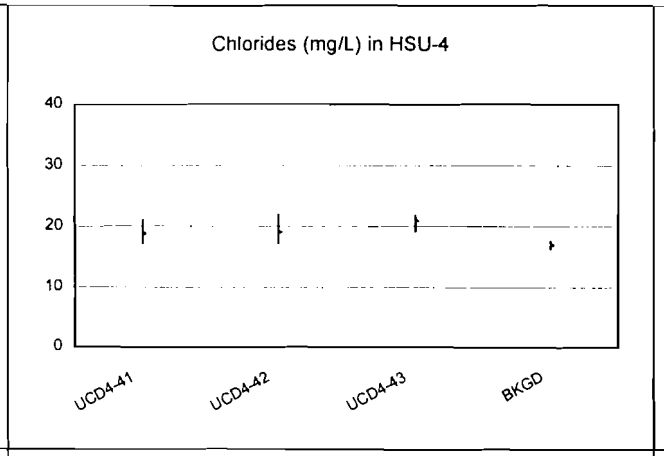
Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

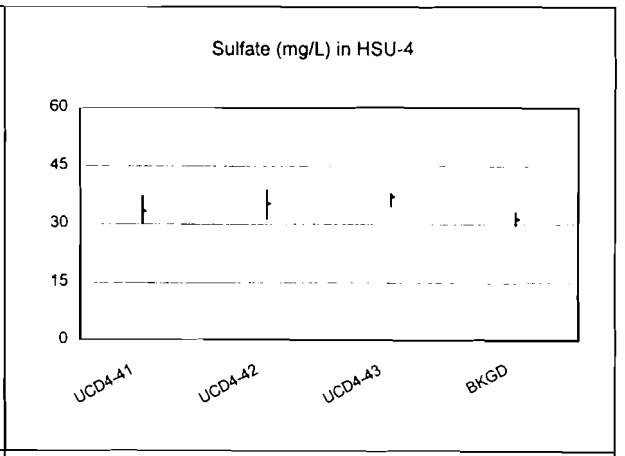
Note: Well UCD4-44, which was installed in April 1999, was first sampled in Spring 1999.

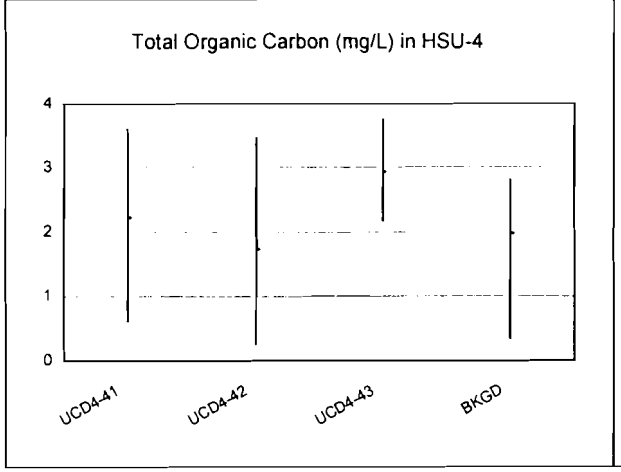
1999 MANGANESE, SELENIUM, SODIUM, AND VANADIUM CONCENTRATION RANGE GRAPHS FOR HSU-4
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY









LEGEND

BKGD = Background Well UCD4-44

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

Note: Well UCD4-44, which was installed in April 1999, was first sampled in Spring 1999.

1999 ALKALINITY, CHLORIDES, SULFATE, AND TOC CONCENTRATION RANGE GRAPHS FOR HSU-4
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
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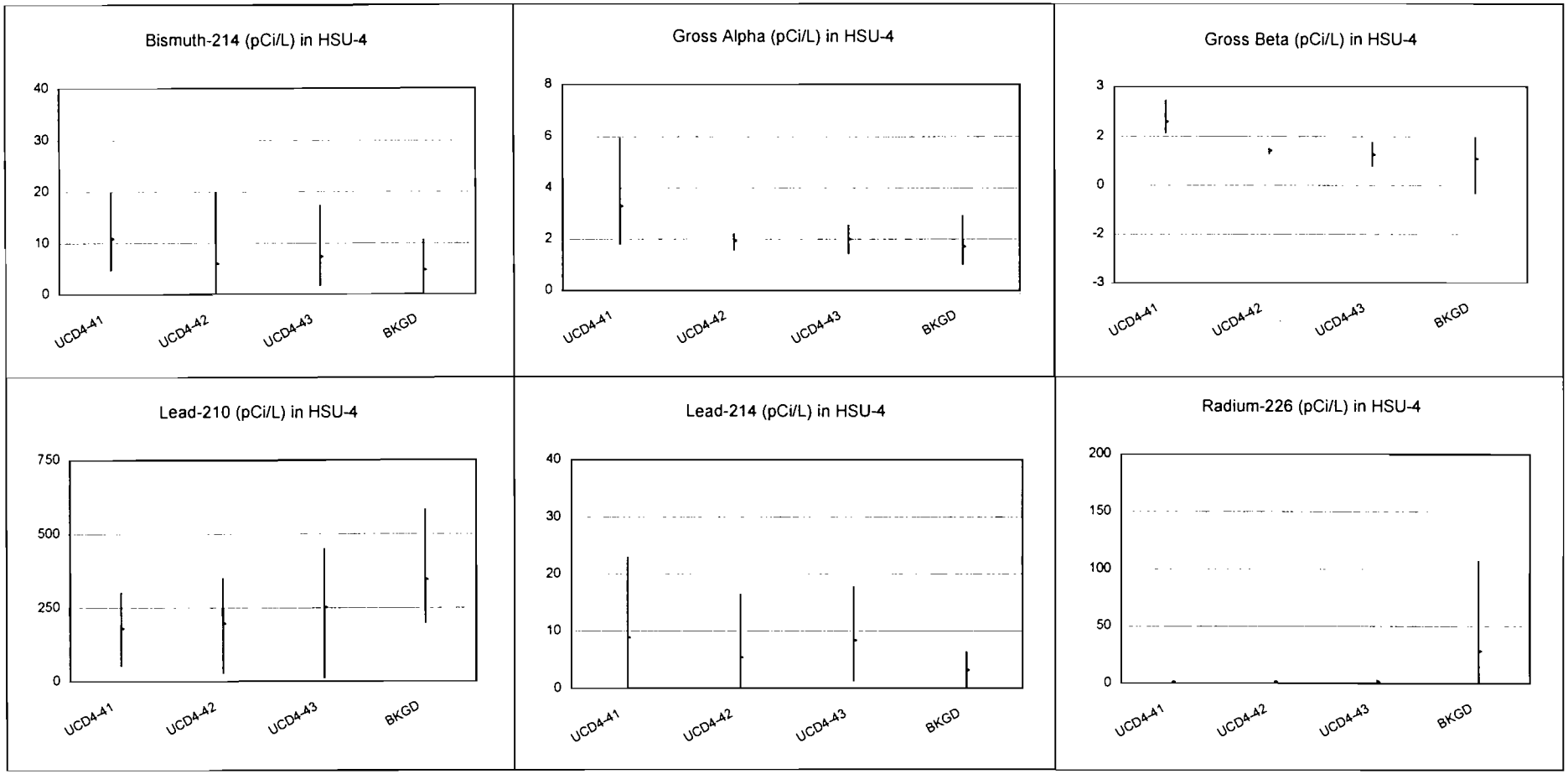


LEGEND

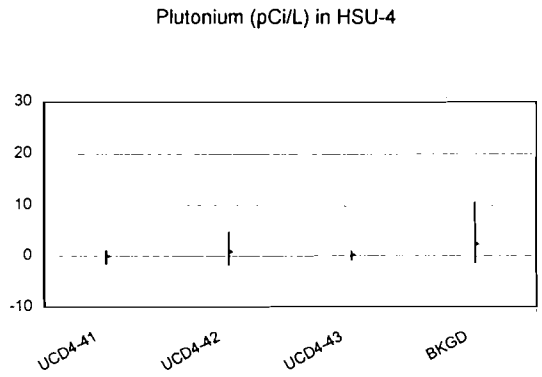
BKGD = Background Well UCD4-44

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

Note: Well UCD4-44, which was installed in April 1999, was first sampled in Spring 1999.

1999 Bi-214, GROSS ALPHA, GROSS BETA, Pb-210, Pb-214, AND Ra-226 CONCENTRATION RANGE GRAPHS FOR HSU-4
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY



LEGEND

BKGD = Background Well UCD4-44

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

Note: Well UCD4-44, which was installed in April 1999, was first sampled in Spring 1999.

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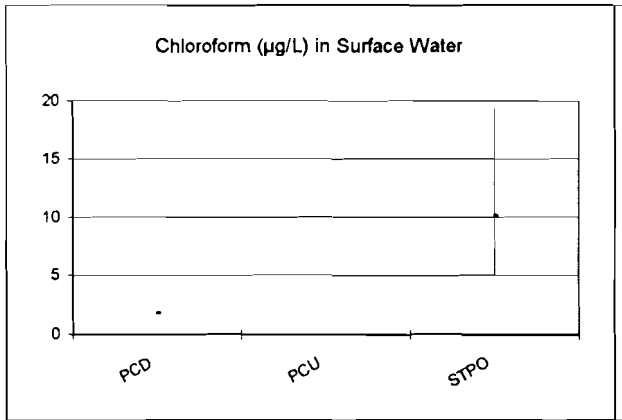
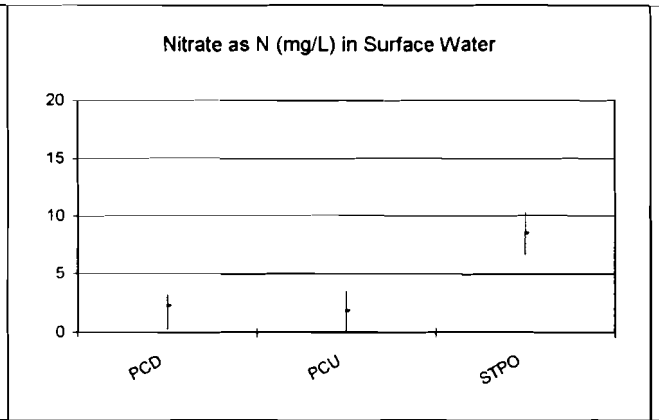
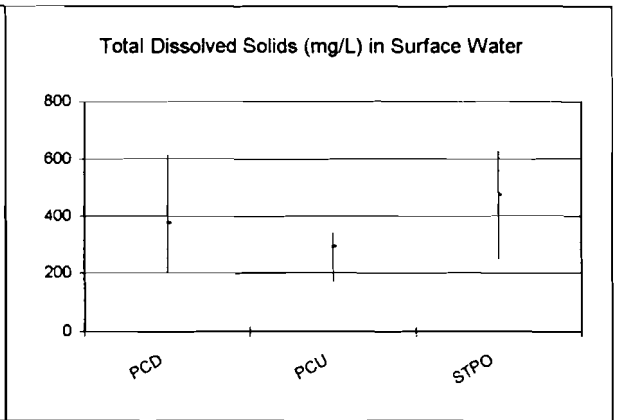
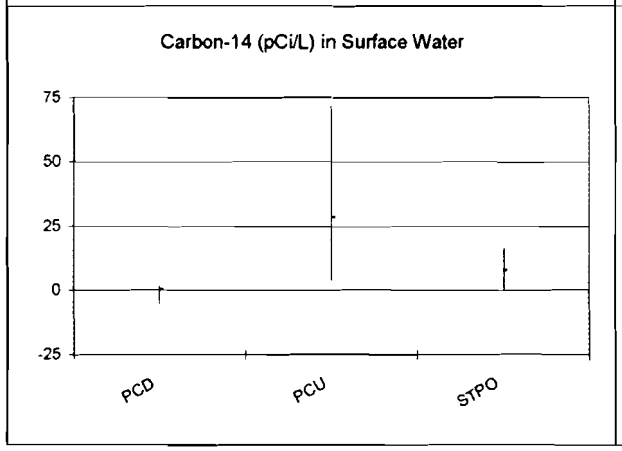
1999 PLUTONIUM
CONCENTRATION RANGE GRAPH FOR HSU-4
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California









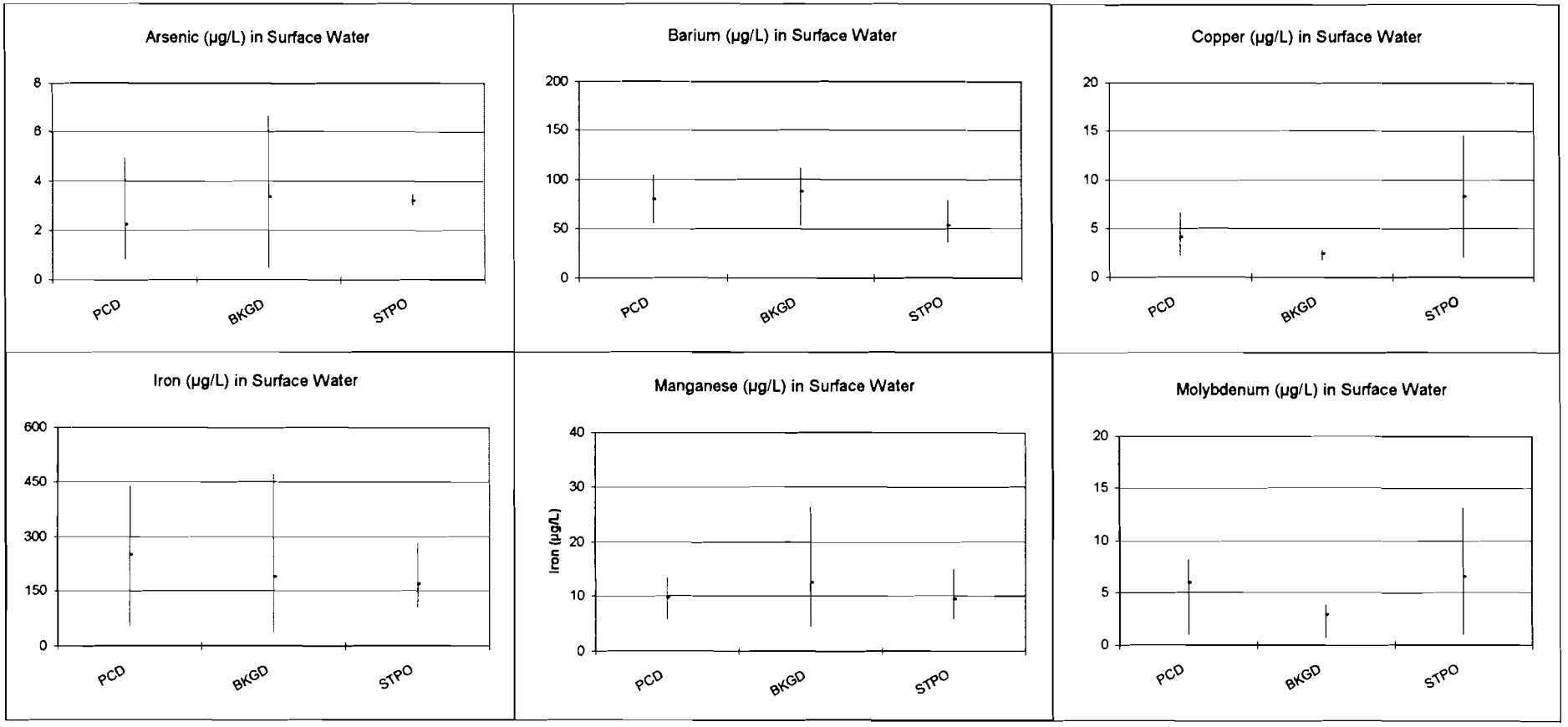
LEGEND

PCD = Putah Creek Downstream Sampling Location
BKGD = Background; Putah Creek Upstream Sampling Location (PCU)
STPO = UC Davis Wastewater Treatment Plant Outfall Sampling Location

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 CHLOROFORM, NITRATE, TDS, AND CARBON-14 CONCENTRATION RANGE GRAPHS FOR SURFACE WATER
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY



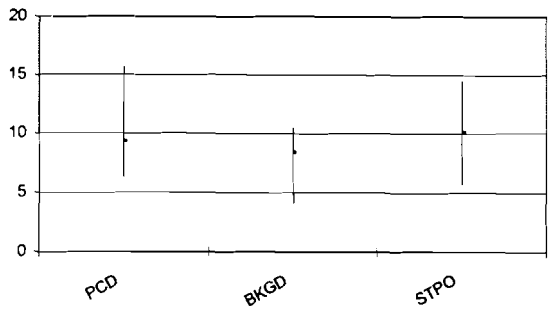
LEGEND

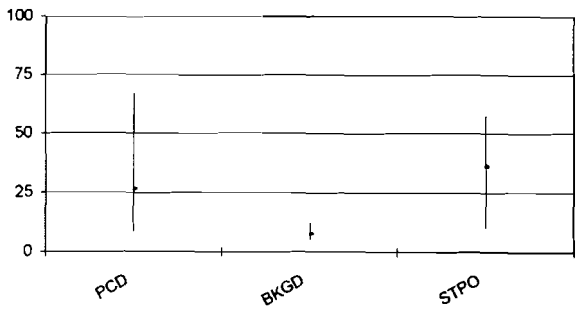
PCD = Putah Creek Downstream Sampling Location
BKGD = Background; Putah Creek Upstream Sampling Location (PCU)
STPO = UC Davis Wastewater Treatment Plant Outfall Sampling Location

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 ARSENIC, BARIUM, COPPER, IRON, MANGANESE, AND MOLYBDENUM CONCENTRATION RANGE GRAPHS FOR SURFACE WATER
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY





LEGEND

PCD = Putah Creek Downstream Sampling Location
BKGD = Background; Putah Creek Upstream Sampling Location (PCU)
STPO = UC Davis Wastewater Treatment Plan Outfall Sampling Location

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

DAMES & MOORE
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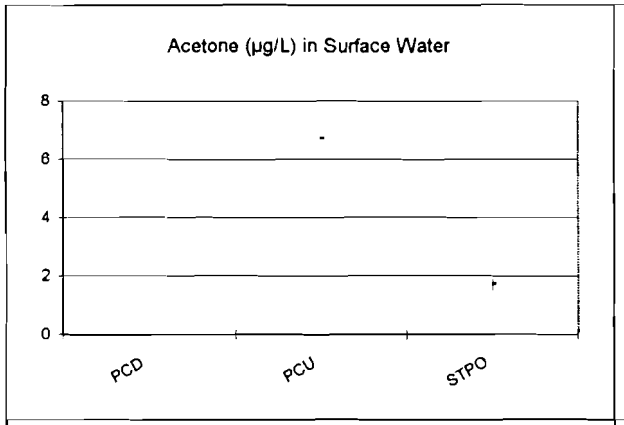
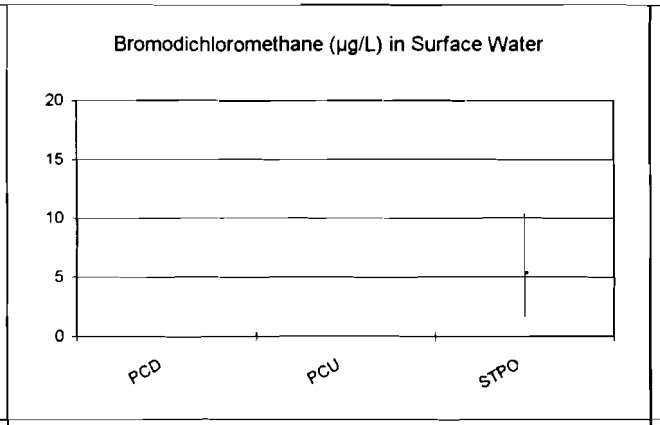
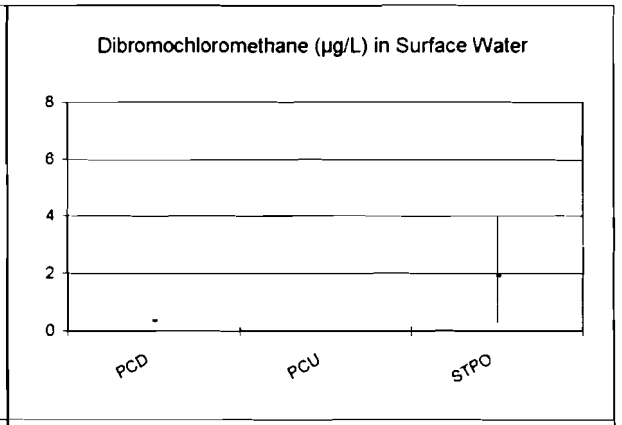
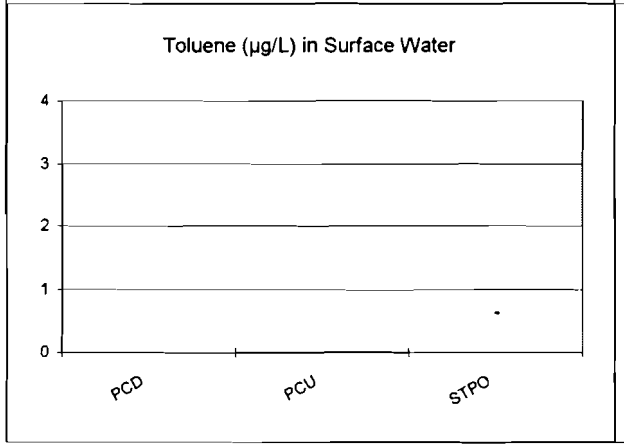
1999 VANADIUM AND ZINC
CONCENTRATION RANGE GRAPHS FOR SURFACE WATER
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California









LEGEND

PCD = Putah Creek Downstream Sampling Location
BKGD = Background; Putah Creek Upstream Sampling Location (PCU)
STPO = UC Davis Wastewater Treatment Plan Outfall Sampling Location

Vertical Line Indicates Range of All Reported Results
Square Indicates Average Value of All Detections

1999 ACETONE, BROMODICHLOROMETHANE, DIBROMOCHLOROMETHANE, AND TOLUENE CONCENTRATION RANGE GRAPHS FOR SURFACE WATER
1999 ANNUAL REPORT
LEHR/SCDS Environmental Restoration
Davis, California

DAMES & MOORE
A DAMES & MOORE GROUP COMPANY