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Phibro-Tech, Inc.

July 2003 Quarterly Groundwater Monitoring Report Santa Fe Springs, California

October 17, 2003

Prepared for:

Phibro-Tech, Inc. (PTI)
8851 Dice Road
Santa Fe Springs, California 90670

Prepared by:

CDM
18581 Teller Avenue, Suite 200
Irvine, California 92612

Project No. 2279-36882.REP.REPT

PHIBRO-TECH, INC.

October 31, 2003

Ms. Rebecca Chou
California RWQCB, L.A. Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Mr. Ron Leach
USEPA, Region IX (H-4-4)
75 Hawthorne Avenue
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Dear Mss. Chou and Mr. Leach:

Enclosed is the July 2003 Groundwater Monitoring Report for Phibro-Tech, Inc., Santa Fe Springs' facility. The Report includes analytical results and physical measurements obtained July 29 - 31, 2003 from selected monitoring wells at Phibro-Tech. Since this Report includes portions of the RCRA Facility Investigation (USEPA Docket No. RCRA 09-89-0001), this Report will also be submitted to the EPA.

Based on a technical review by our consultant, Camp Dresser and McKee, a groundwater-monitoring program is included which was implemented beginning with the April 1991 groundwater monitoring. Additional wells and parameters changed at the request of EPA are included in this Groundwater Monitoring Report. The changes are described in the Report.

Please contact me if you have any questions or comments concerning this report.

Sincerely,

Mark Alling
General Manager

Enclosure

cc: see following page

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PLEASE RECYCLE

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The information contained in the July 2003 Quarterly Groundwater Monitoring Report for the Phibro-Tech, Inc. Santa Fe Springs, California, facility has received appropriate technical review and approval. The activities outlined in the report were performed under the supervision of a Registered Geologist or a California Professional Engineer.

Reviewed and Approved by:

REGISTERED GEOLOGIST
SHARON L. WALLIN
4399
Sep. 4/04
STATE OF CALIFORNIA

Sharon Wallin, R.G.
Project Manager

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Section 1
Introduction

This report summarizes the July 2003 quarterly groundwater monitoring and sampling event at the Phibro-Tech, Inc. (PTI), Santa Fe Springs, California facility (formerly referred to as Southern California Chemical). This report presents the third quarter groundwater monitoring results for 2003. Contained herein are the results of laboratory analyses of groundwater samples and water level measurements obtained on July 29 - 31, 2003.

The purpose of this monitoring program, which began in March 1985, is to determine if compounds of concern detected in groundwater beneath the site are migrating from the facility. This objective is accomplished through the comparison of background or up gradient water quality and groundwater quality beneath the site. Statistically significant increases in contaminant concentrations between known areas of groundwater contamination and down gradient wells would indicate that migration is occurring. In the past, statistical analysis was performed annually and was included in the July quarterly monitoring reports. Statistical analysis is now conducted for each sampling event and is included in the corresponding monitoring report.

To date, three types of contaminants have generally been detected in the groundwater beneath the site: soluble metals (primarily chromium and cadmium), purgeable aromatic organic compounds (toluene, ethylbenzene and total xylenes [BTEX]) and purgeable halogenated organic compounds (i.e., solvents, primarily trichloroethene [TCE]). Groundwater modeling completed in January 1993, and groundwater monitoring conducted since 1985, indicates that the purgeable aromatic plume originated up gradient from the PTI facility. The distribution of TCE appears to be ubiquitous, although somewhat elevated concentrations exist in the vicinity of Pond 1, a RCRA-regulated former surface impoundment area. Elevated concentrations of soluble metals have also been consistently detected in the vicinity of Pond 1. Soluble metal concentrations at the down gradient property line and in deeper wells, however, continue to be near or below detection.

Approximately 18 years of quarterly groundwater monitoring at the PTI facility has indicated that dissolved hexavalent chromium is not migrating. During groundwater modeling performed by CDM in 1993, a retardation factor of 50 was selected based on the observed distribution of hexavalent chromium in the groundwater. Previous data analysis indicated that the most likely basis for the relatively high (but within the range of reasonable and appropriate values) retardation factor would be the existence of reducing conditions in the saturated zone, promoting the chemical reduction of hexavalent chromium to trivalent chromium (Cr^{3+}). Trivalent chromium, having a very low solubility in water, tends to precipitate and sorb to the soil, inhibiting migration. During four quarterly sampling events conducted in 1996, additional laboratory analyses (iron and redox potential) were performed on groundwater samples collected from wells MW-04, MW-09, and MW-14S. These additional data, along with the pH, total chromium, and hexavalent chromium data, provided a better

understanding of the mechanisms controlling chromium migration in groundwater underlying the facility and supported the above hypothesis. Please refer to Section 6.4 (Chromium Fate and Transport) of the October 1996 Quarterly Sampling Report for a detailed discussion of this conclusion.

In addition to the data obtained during the July 2003 sampling, this report contains tables listing detection limits of the parameters analyzed (Appendix A). Historical sampling results for selected analyses from January 1989 to April 2001 are presented in Appendix B. Copies of the original laboratory results for the July 2003 sampling event are included in Appendix C, and chain-of-custody records are included in Appendix D. Appendix E contains background groundwater concentrations of contaminants for the Santa Fe Springs area for the year 2001. Appendix F contains the complete quarterly statistical analysis.

Prior to October 1993, quarterly reports have included analytical result summary tables from all previous sampling rounds. Starting with the October 1993 quarterly report, historical water quality data tables were no longer included in the report as an appendix. Please refer to Appendix B in the July 1993 Quarterly Sampling Report for a summary of historical groundwater analytical data. As previously discussed, a summary table of selected historical results since January 1989 is provided in Appendix B of this report.

Section 2
Monitoring Well Sampling

CDM personnel conducted groundwater sampling of existing on-site monitoring wells on July 29 - 31, 2003. Field activities were performed in general accordance with the groundwater sampling protocols as outlined in Section 4.3.3 of the approved RCRA Facility Investigation (RFI) Work Plan (CDM, June 1990). Prior to the submittal of the RFI Work Plan for regulatory agency review and approval, the J.H. Kleinfelder and Associates (Kleinfelder) Quality Assurance Project Plan (QAPP, May 1988) was used as the primary groundwater sampling guidance document. Proposed deviations from the RFI Work Plan (i.e., well purging using a submersible pump and sample collection using disposable bailers) were discussed in October 1994 correspondence to the DTSC. These changes were implemented during the October 1994 and all subsequent sampling events.

Twenty-four monitoring wells exist on-site. The locations of these wells are shown on Figure 2-1. One well, MW-06A, historically has not been sampled for groundwater analysis because it is screened in the Gage Aquifer, which is unsaturated below the PTI facility. The remaining wells are screened in the Hollydale Aquifer; 16 in the upper portion and 7 in the lower portion of the aquifer.

Beginning in February 1985, Kleinfelder initiated groundwater sampling, utilizing monitoring wells MW-01 through MW-06B. Six additional wells (MW-04A and MW-07 through MW-11) were installed at the site in July 1985, thereby increasing the total number of active wells to 12. Quarterly sampling of the 12 wells was initiated in March 1986.

Commencing with the January 1989 sampling event, CDM has been responsible for all groundwater-monitoring activities at the facility. Ten wells (MW-01D, MW-06D, MW-12S, MW-12D, MW-13S, MW-13D, MW-14S, MW-14D, MW-15S and MW-15D) were installed as part of the first phase of the RFI program and were first sampled during the October 1990 sampling round.

Groundwater analysis of the 22 wells that existed during the RFI program from October 1990 to January 1991, indicated that the number of wells sampled could be reduced and yield comparable results to sampling all the wells. During sampling rounds in April, July, and October 1991, and in January 1992, 11 wells were sampled. Wells screened in the upper portion of the Hollydale Aquifer included MW-01S, MW-03, MW-04, MW-07, MW-09, MW-11, MW-14S, and MW-15S, and wells screened in the lower portion of the Hollydale Aquifer included MW-01D, MW-04A, and MW-15D.

Beginning with the April 1992 sampling round, three additional wells (MW-06B, MW-06D, and MW-16) were included in the quarterly monitoring program, bringing the total number of sampled wells to 14. Well MW-16, constructed in March 1992 as part of the Phase II RFI program, was sampled for the first time during the April 1992

sampling round. The same 14 wells have been sampled during all subsequent sampling rounds. On several occasions, additional laboratory analyses have been performed and additional wells included in quarterly sampling, at the request of the U.S. EPA. Additional analyses and wells are noted in the comment column of Table 2-1, which summarizes the groundwater-monitoring program at the site.

In April 2000, the frequency of groundwater monitoring was reduced from quarterly to semi-annually. In April 2001, as requested by the California Department of Toxic Substances Control (DTSC), quarterly sampling was re-implemented.

The 14 wells currently included in quarterly sampling are MW-01S, MW-01D, MW-03, MW-04, MW-04A, MW-06B, MW-06D, MW-07, MW-09, MW-11, MW-14S, MW-15S, MW-15D, and MW-16. Ten shallow and four deep wells are analyzed for pH, metals (cadmium [Cd], chromium [Cr], and copper [Cu]) using EPA Method 6010A; hexavalent chromium (EPA Method 7199), and volatile organic compounds (EPA Method 8260). During the July 2001 and October 2001 sampling events, DTSC requested that samples from wells MW-01S, MW-04, MW-09 and MW-11 be analyzed for 1,4-Dioxane. In late 2002, DTSC requested that PTI conduct limited annual analyses for the Appendix IX suite of parameters. The four wells designated for Pond 1 monitoring (CDM, March 1996) (MW-04, MW-07, MW-11, and MW-14S) were selected for Appendix IX sampling and analysis. A detailed listing of analytical parameters per sampling event is provided in Table 2-1.

The 14 on site wells were purged and sampled in the following order: MW-01D, MW-01S, MW-03, MW-15D, MW-15S, MW-06D, MW-06B, MW-07, MW-14S, MW-04A, MW-04, MW-16, MW-09, and MW-11.

2.1 Sampling Procedure

Field sampling was conducted in general accordance with procedures detailed in the RFI Work Plan. Sampling practices included the following: check for floating product and hydrocarbon vapors at each well; measure static water level and total depth of each well in order to calculate pre-sampling evacuation volumes; purge each well and collect a groundwater sample for laboratory analysis; decontaminate sampling equipment; and handle sample-filled containers in accordance with Section 4.3.3.5 of the RFI Work Plan.

2.1.1 Organic Vapor Check

Standard field procedures included checking the interior of each well with a photoionization detector (PID) (equipped with a 10.0 eV lamp) for the presence of organic vapors whenever the well casing was opened. With the sampling team members standing upwind of the well, the well cap was opened slightly, allowing for the insertion of the PID probe tip inside the well. Readings were monitored until they stabilized, which was usually at zero parts per million (ppm). The final reading, as well as the peak reading, were recorded in the field logbook. The cap was then removed and the well allowed to vent for a short period of time prior to measuring

the static water level. The maximum PID readings taken during the collection of water level measurements are shown in Table 5-1 in Section 5.

2.1.2 Detection of Immiscible Layers

In order to detect the presence of floating, immiscible layers on top of the groundwater surface, a clear bailer was lowered approximately one-half the length of the bailer below the surface of the water in each well. The bailer was removed from the well and its contents checked for immiscible layers or iridescence. The bailer was decontaminated and the sampling line discarded after each use. If immiscible fluids had been detected, a sample would have been collected for laboratory analysis of purgeable halocarbons and aromatics (EPA Method 8260) and total petroleum hydrocarbons (California Department of Health Services [CA DHS] Method) using a new bailer. As in all previous quarterly groundwater sampling at the PTI facility by CDM, immiscible layers were not detected during the July 2003 sampling event.

2.1.3 Static Water Level/Well Depth Measurement

On July 29, 2003, prior to the initiation of on-site well pumping, the static water level at 23 of the 24 on-site wells was measured three times at each well location with a decontaminated electric water level indicator (sounder) and recorded. The measurements collected in the wells were identical, with the exception of MW-04. The first measurement was 0.04 feet above the second and third measurements, which were identical. The results of these measurements are shown in Table 5-1 and discussed in Section 5. The measurement for MW-04 listed on Table 5-1 is indicative of the second and third measurement. One well (MW-06A) was dry, and MW-02 was not measured due to its proximity to MW-12S.

The water level in each well was also measured immediately prior to initiating well evacuation procedures for calculation of well purge volume. During measurement, the measuring (reference) point used was noted (i.e., the top of the steel casing), and the depth to water below the reference point was measured to the nearest 0.01 foot and recorded in the field logbook. Wellhead elevation data were used with depth to water measurements to calculate groundwater elevation at each well location.

The total depth of each well sampled was also measured with the sounder to the nearest 0.1 foot. The amount of fill material in the bottom of the well was calculated from well construction data and noted in the logbook. Prior to first use, the sounder was calibrated and the meter response checked. The sounder probe and line were decontaminated after each use.

2.1.4 Purge Volume Determination/Well Evacuation

Saturated casing volume was calculated at each well by using the depth to water and bottom sounding measurements obtained immediately prior to purging, to calculate the amount (height) of the saturated well casing. The inside diameter of the casing was then measured, and the following formula applied:

$$\text{Volume} = \pi\ (\text{radius}^2) \times \text{height}$$

A minimum of three saturated casing volumes of water were evacuated from each well prior to collecting a groundwater sample for laboratory analysis.

During the July 2003 sampling round, all 14 of the wells currently monitored were purged using a portable Grundfos 2-inch diameter submersible pump, and each well was sampled using a new disposable bailer.

Field parameters were measured during well evacuation using multimeter and turbidity meter for all wells. These instruments were calibrated or field checked prior to use with standard solutions in accordance with manufacturer's directions. These instruments were used to determine the stability of discharge water field parameters prior to collection of a sample for laboratory analysis.

Periodically during well evacuation, the field parameters of the discharge water were measured and recorded in the logbook. The physical appearance of the water (turbidity, color, sediment content, etc.) was also noted and recorded. Initial field turbidity measurements generally ranged from 3 to greater than 1,000 NTUs (nephelometric turbidity units) at the start of well evacuation. At the end of well evacuation, measurements were generally less than 10 NTUs. Higher turbidity at the start of purging seems to be related to agitating the water column and resuspending material from the bottom of the well during pump installation. After a minimum of three saturated casing volumes of water were evacuated from each well and the field parameters stabilized (change between readings of less than 5 to 10 percent), a sample for laboratory analysis was collected.

All purge water collected from each well was contained in a 250-gallon truck-mounted portable tank and then discharged directly into the PTI facility's wastewater treatment system.

2.1.5 Sample Collection and Handling

Groundwater samples were collected with a new disposable bailer from the approximate middle of the perforated section, and poured directly into previously labeled sample bottles. During sample collection, the bailer was carefully and gently lowered past the air/water interface to minimize agitation and aeration of water during sample collection. The sample bottles were placed inside plastic zip-lock bags and then placed immediately into an ice-cooled chest. Prior to shipment, the bottles were cushioned with bubble wrap or plastic bags to avoid breakage. Samples collected for total metals analysis were field filtered using a 0.45-micron filter. A volume of groundwater equal to two times the capacity of the filtering device was passed through the filter and discarded prior to filtering each sample for total dissolved metals (Cd, Cu, and Cr) analysis. Filters were discarded after each use.

The July 2003 groundwater samples were collected for laboratory analysis of the following parameters:

- Volatile Organic Compounds by EPA method 8260
- Metals (Cd, Cu, and Cr) EPA method 6010
- Hexavalent Chromium (Cr^{+6}) EPA method 7199
- pH

Groundwater sample bottles were numbered using the following format:

PTI-MW01S-058

Where:

PTI	-	designates site acronym
MW01S	-	designates sample location number (MW = Monitoring Well)
EB	-	designates equipment blank sample
TB	-	designates travel blank sample
058	-	designates sequential sample number (per sampling event)

This was the 57th round of sampling conducted by CDM, however, due to a previous labeling inconsistency, a 058 sequence number was assigned to all groundwater samples collected during this round. Sample label information included date and time of sampling, CDM sample number, and analytical parameters.

Chain-of-custody forms that indicated the label information as well as the responsible person during each step of the transportation process accompanied all filled sample containers that were collected from each well. All samples collected during this sampling event were sent by courier to Del Mar Analytical in Irvine, California on the day that they were collected, and a copy of the chain-of-custody form for that day was retained by CDM field personnel. Copies of completed chain-of-custody forms are included in Appendix D. The laboratory was notified at the time of delivery that one or more hexavalent chromium (Cr^{+6}) sample(s) were contained in the shipment to ensure that the samples would be analyzed within the prescribed 24-hour holding period.

2.2 Equipment Decontamination Procedures

The following sections describe the procedures utilized to decontaminate groundwater-sampling equipment.

2.2.1 Sampling Pump/Lines Decontamination

The submersible pump and discharge tubing used for well purging were decontaminated to reduce the possibility of cross-contamination between monitoring wells. The first step in the decontamination procedure was to submerge the pump into a 4-foot section of 4-inch diameter PVC pipe containing a soap (Alconox, a

laboratory-grade detergent) and water mixture. Then, at least five gallons of the solution were pumped through the system. The pump assembly was then submerged in another section of PVC pipe filled with tap water and at least 10 gallons were pumped through the system. The final decontamination step was accomplished by submerging the pump into another section of PVC pipe containing deionized (DI) water and pumping approximately five gallons of DI water through the system.

The exterior of the pump and discharge tubing was steam cleaned, as well as the exterior of the reel holding the tubing. The decontamination of the exterior pump line was performed over a stainless steel containment basin located on the groundwater-sampling rig. The spent water was recovered and discharged into the facility's wastewater treatment system.

2.2.2 Accessory Sampling Equipment Decontamination

Accessory sampling equipment such as the water level sounder was also decontaminated to minimize the possibility of cross-contamination between the monitoring wells. The sounder was decontaminated first by washing in a bucket of soap and water, followed by a tap water rinse, followed by a final DI water rinse. Bailers used to test for an immiscible layer were decontaminated and reused. The bailers and nylon rope that were used to sample wells were discarded immediately after use.

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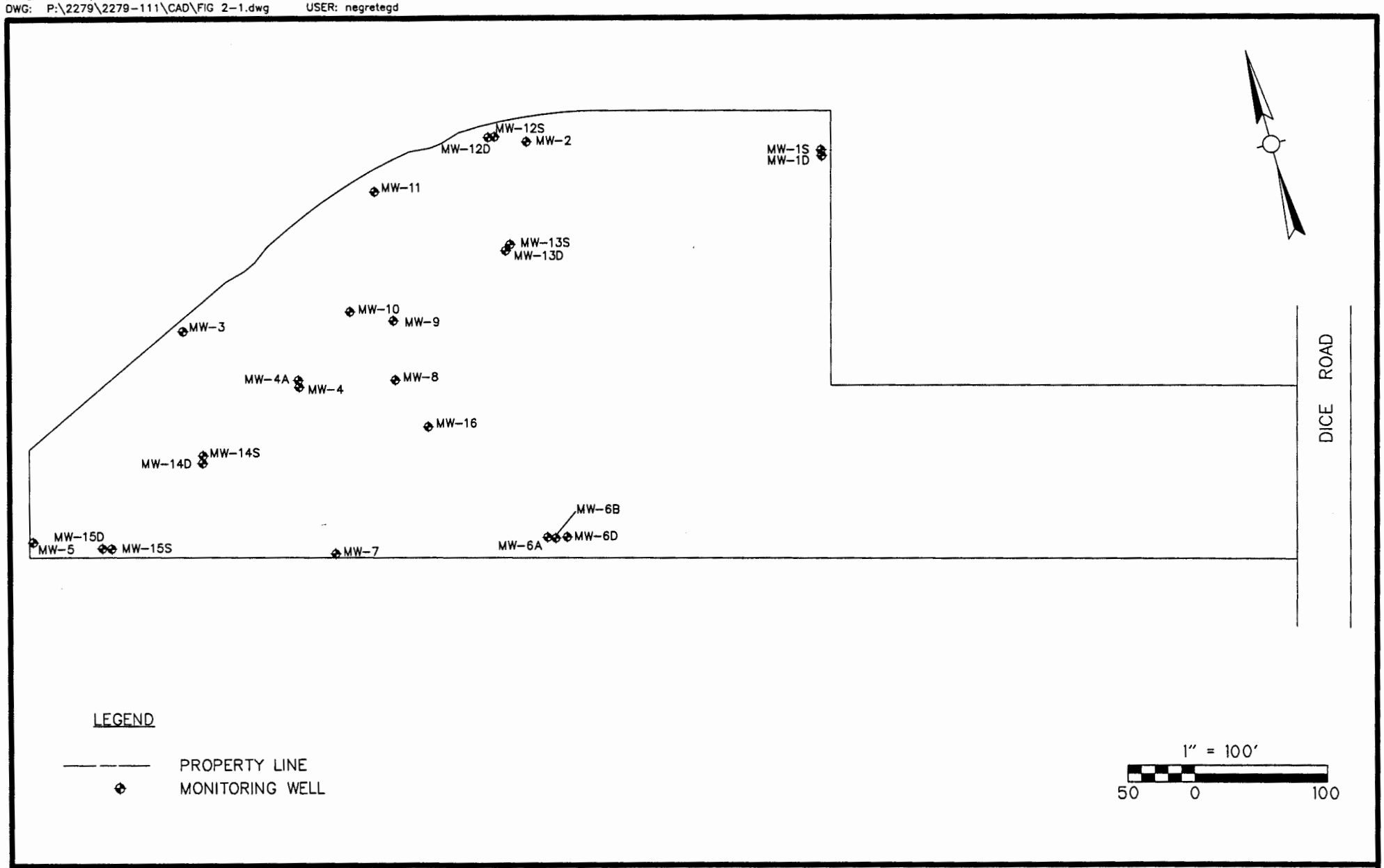
DWG: P:\2279\2279-111\CAD\FIG 2-1.dwg USER: negretegd



PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Monitoring Well Location Map

CDM

Figure 2-1

Table 2-1
PHIBRO-TECH, INC.
Groundwater Monitoring Program Summary

Sampling Event	Indicator Parameters	Trace Metals	Hexavalent Chromium	Chloride	Nitrate	Volatile Organics	Appendix IX	1,4-Dioxane	Comments
3/85	Quad	Cu & Zn	X	X	X	--	--	--	Sampled wells MW-1, 2, 3, 4, 5, & 6B. Sulfide, nickel, copper and zinc requested by DOHS and RWQCB. Also Appendix III parameters and water quality parameters (see footnote).
7/85	Quad	Cd, Cr	X	--	X	--	--	--	Sampled wells MW-4A, 7, 8, 10 and 11
3/86	Quad	Cu & Zn	X	X	X	--	--	--	Sampled 12 wells (MW1, 2, 3, 4, 4A, 5, 6B, 7, 8, 9, 10 & 11). Also Appendix III parameters and water quality parameters (see footnote).
7/86, 9/86, 12/86	Quad	Cd, Cr, Cu, Zn	X	X	X	624	--	--	Sampled all 12 wells (as previous)
3/87	Quad	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	Sampled 11 wells, not 4A
7/87, 10/87, 2/88	Quad	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	After July 1987, all 12 wells were sampled during each event
6/88	X (not Quad)	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	Performed statistical analysis (t-test) on Indicator Parameters (IPs).
9/88	--	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	IPs & volatile organics from MW1, 2, 4A, 5, 6, 7 analyzed semi-annually in June/Dec.
1/89	Quad	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	After Jan. 1989, volatile organics analyzed for all 12 wells.
4/89	--	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	
7/89	Quad	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	Performed statistical analysis of Jan. thru July 1989 data (IPs, total and hexavalent chromium).
10/89	--	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	
1/90	Quad	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	
4/90	--	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	
7/90	Quad	Cd, Cr, Cu, Zn	X	X	X	601/602	--	--	Performed statistical analysis of Jan. 1989 data (IPs, total and hexavalent chromium).
10/90	--	Cd, Cr, Cu, Fe, Ni, Pb, Zn	X	X	X	601/602	X	--	Sampled 22 wells, Appendix IX parameters analyses were performed on wells 4, 4A, 6B, 6D, 12S, 12D, 15S, 15D, plus a duplicate of 4.
1/91	Quad	Cd, Cr, Cu, Fe, Ni, Pb, Zn	X	X	X	601/602	--	--	Sampled 22 wells.
4/91	pH	Cd, Cr, Cu	X	--	--	601/602	--	--	New sampling program was initiated. Sampled 11 wells including wells MW-01S, MW-01D, -03, -04, -04A, -07, -09, -11, -14S, -15S, -15D.
7/91	pH	Cd, Cr, Cu	X	--	--	601/602	--	--	Performed annual statistical analysis.
10/91	pH	Cd, Cr, Cu	X	--	--	601/602	--	--	
1/92	pH only (all) TOC only (MW-01 & -04)	Cd, Cr, Cu	X	--	Ammonia as nitrogen (MW-01 & -04)	601/602	--	--	Ammonia & TOC analyses added at MW-01S and MW-04.
4/92	pH only TOC only (MW-01 , -04, -09, -14S)	Cd, Cr, Cu-all see comments	X	--	Ammonia as nitrogen (MW-01, -04, -09, -14S)	601/602	EDB (MW-04) TPH (W-16)	--	Sampled 14 wells including Wells MW-01S, -01D, -03, -04, -04A, -06B, -06D, -07, -09, -11, -14S, -15S, -15D, -16. Additional analysis as part of Phase II RFI; unfiltered metals on MW-04S and -14S. Pb and Ni on wells 1, 4, 14S, 15S, 16; Fe, Zn on well 16.
7/92	pH	Cd, Cr, Cu	X	--	--	601/602	--	--	Sampled 14 wells. Performed annual statistical analysis.

Table 2-1
PHIBRO-TECH, INC.
Groundwater Monitoring Program Summary (continued)

Sampling Event	Indicator Parameters	Trace Metals	Hexavalent Chromium	Chloride	Nitrate	Volatile Organics	Appendix IX	1,4-Dioxane	Comments
10/92	pH	Cd, Cr, Cu	X	--	--	601/602	--	--	Sampled 14 wells.
1/93, 4/93	pH	Cd, Cr, Cu	X	--	--	8010/8020	--	--	Sampled 14 wells.
7/93	pH	Cd, Cr, Cu	X	--		8010/8020 (TVPH, TEPH)	--	--	Sampled 15 wells. (MW-13S was added) TVPH and TEPH analysis on MW-09, 13S, and 16 only. Performed annual statistical analysis.
10/93	pH	Cd, Cr, Cu	X	--	--	8010/8020	--	--	Sampled 15 wells (MW-13S not analyzed for metals and pH) TVPH & TEPH analysis on MW-04, 07, 09, 13S, and 16 only. Performed statistical analysis.
1/94, 4/94	pH	Cd, Cr, Cu	X	--	--	8010/8020	--	--	Sampled 14 wells Performed statistical analysis.
7/94	pH	Cd, Cr, Cu	X	See comment	--	8010/8020	--	--	Sampled 14 wells, chloride and sulfate analyses on MW-04, MW-09, MW-14S, MW-15S, MW-15D, and MW-16. Performed statistical analysis
10/94, 1/95, 4/95, 7/95, 10/95	pH	Cd, Cr, Cu	X	--	--	8010/8020	--	--	Sampled 14 wells Performed statistical analysis.
1/96	pH	Cd, Cr, Cu	X	--	--	8010/8020	--	--	Sampled 14 wells Performed statistical analysis. 1995 Annual Report included as Appendix F.
4/96, 7/96	pH	Cd, Cr, Cu	X	--	--	8010/8020	--	--	Sampled 14 wells Performed statistical analysis.
10/96	pH	Cd, Cr, Cu	X	--	--	8010/ 8020	--	--	Sampled 14 wells Performed statistical analysis. 1996 Annual Report included as Appendix F.
1/97	pH	Cd, Cr, Cu	X	--	--	8260, MTBE	--	--	Sampled 14 wells Performed statistical analysis.
4/97, 7/97	pH	Cd, Cr, Cu	X	--	--	8260	--	--	Sampled 14 wells Performed statistical analysis.
10/97	pH	Cd, Cr, Cu	X	--	--	8260	--	--	Sampled 14 wells Performed statistical analysis. 1997 Annual Report included as Appendix F.
1/98	pH	Cd, Cr, Cu	X	--	--	8260	--	--	Sampled 14 wells Performed statistical analysis. Hexavalent Chromium by Method 7196 in all wells; and by Method 218.6 in wells MW-4A, MW-14S, MW-15S, and MW-15D.
4/98, 7/98	pH	Cd, Cr, Cu	X	--	--	8260	--	--	Sampled 14 wells Performed statistical analysis.
10/98	pH	Cd, Cr, Cu	X	--	--	8260	--	--	Sampled 14 wells Performed statistical analysis. 1998 Annual Report included as Appendix F.

Table 2-1
PHIBRO-TECH, INC.
Groundwater Monitoring Program Summary (continued)

Sampling Event	Indicator Parameters	Trace Metals	Hexavalent Chromium	Chloride	Nitrate	Volatile Organics	Appendix IX	1,4-Dioxane	Comments
1/99, 4/99, 7/99, 10/99, 01/00, 04/00, 10/00, 04/01	pH	Cd,Cr,Cu	X*	--	--	8260	_	--	Sampled 14 wells Performed statistical analysis. Monitoring and reporting frequency changed from quarterly to semi-annually in April 2000. Monitoring and reporting frequency changed back from semi-annually to quarterly in April 2001.
07/01, 10/01	pH	Cd,Cr,Cu	X*	--	--	8260	_	MW-015 MW-04 MW-09 MW-11 MW-06D MW-15D	Sampled 14 wells Performed statistical analysis. 2001 Annual Report included as Appendix G (10/01) 1,4-Dioxane sampled in selected wells (MW-01S, MW-04, MW-04A, MW-06D, MW-11, and MW-15D) during 07/01 and 10/01.
1/02, 4/02, 7/02	pH	Cd,Cr, Cu	X	-	-	8260B	-	-	Sampled 14 wells Performed statistical analysis.
10/02	pH	Title 22 Metals	X	-	-	8260B	X	-	Sampled 14 wells Performed statistical analysis. Annual Report included results for Appendix IX analyses performed on samples from wells MW-04, MW-07, MW-11, and MW-14S.
1/03, 4/03, 7/03	pH	Cd,Cr, Cu	X	-	-	8260B	-	-	Sampled 14 wells Performed statistical analysis.

Appendix III Parameters - As, Ba, Cd, Cr, F, Pb, Hg, N, Se, Ag, Endrin, Lindane, Methoxychlor, Toxaphene, 2,4-D, 2,4,5-TP (Silvex), Radium, Gross Alpha & Beta, Turbidity, coliform bacteria.
Water Quality Parameters - Cl, Fe, Mn, Phenols, Na, SO4
Indicator Parameters (IP) - TOX, TOC, pH, EC (quadruplicate)
624 - Volatile organics analysis
601/602 - Purgeable halocarbons/aromatics analysis
8010/8020 - Purgeable halocarbons/aromatic analysis
8260 - Purgeable halocarbons/aromatic analysis
MTBE - Methyl tertiary butyl ether
Appendix IX Parameters - See Appendix F in the October 1990 Quarterly Sampling Report for a complete listing of parameters.
* - Analytical method changed from EPA 7196 to 7199 beginning with the October 2000 Sampling Event

Section 3
Laboratory Testing

As previously discussed, Del Mar Analytical (DMA) provided analysis of the 21 aqueous samples collected during the July 2003 monitoring event. Fourteen monitoring well samples, two blind duplicate samples from MW-04 and MW-09, and one DI sample were collected and submitted to DMA for analysis of purgeable halocarbons/aromatics (EPA Method 8260B), metals (EPA Method 6010), hexavalent chromium (EPA Method 7199), and pH. In addition, three equipment blank samples (EB) were submitted for analysis. One travel blank (TB) was also submitted to Del Mar Analytical for analysis of purgeable halogenated/aromatic organics.

July 2003 groundwater analytical results are discussed in Section 6 and summarized in Tables 6-1 and 6-2. Quality assurance analytical results (duplicates, equipment blanks, and travel blanks) are discussed in Section 4 and summarized in Table 4-1. Individual analytical reports are contained in Appendix C.

Section 4
Quality Assurance

To verify the accuracy and validity of analytical data, certain quality assurance procedures were implemented. The field and laboratory quality assurance results were checked for deviations from the Quality Assurance (QA) guidelines discussed in the RFI Work Plan.

4.1 Field Quality Assurance

The field QA procedures included the use of duplicate samples, equipment blanks, travel blanks, and the use of chain-of-custody forms. The results of the QA analyses have been compiled in Table 4-1. Detection limits of parameters analyzed are shown in the analytical reports contained in Appendix A. Relative Percent Difference (RPD) between original and duplicate samples is also listed in Table 4-1.

4.1.1 Duplicate Samples

Standard accepted practice is to submit one duplicate sample for analysis for approximately every tenth sample collected; a ratio of 1 to 10. During this round of sampling, duplicate samples were collected from monitoring wells MW-04 and MW-09. The duplicate samples were submitted to the analytical laboratory as blind samples, and were designated MW-37 and MW-39, respectively, on the chain of custody forms. Monitoring wells MW-04 and MW-09 were selected due to elevated concentrations of certain contaminants detected during previous sampling rounds. Analytical results for the duplicate samples for July 2003 are shown in Table 4-1.

Relative percent differences between samples and duplicates collected from wells MW-09 and MW-04 is less than 20 percent for all parameters except total chromium (Table 4-1), which had an RPD value of 20.8% for the duplicate collected from well MW-04.

4.1.2 Equipment Blanks

Three equipment blank samples were taken during this sampling event. An equipment blank taken on July 30, 2003 was obtained by allowing deionized water to run off the decontaminated submersible pump that was used to pump the groundwater samples for the entire sampling event, after sampling well MW-04A. The purpose of this equipment blank was to assure that the pump was being sufficiently decontaminated between wells. The equipment blanks taken on July 29 and 31, 2003 were obtained by allowing the deionized water to run through a new, precleaned, disposable bailer after sampling well MW-01S and MW-09, respectively. The purpose of this equipment blank was to evaluate and ensure the effectiveness of factory cleaning of the disposable bailer. The samples were collected in the appropriate containers and submitted for laboratory analysis of volatile organic compounds (EPA Method 8260), cadmium, chromium (total and hexavalent), copper,

and pH. The laboratory provided laboratory grade deionized water used for the collection of the equipment blanks.

Analytical results for the equipment blanks collected are shown in Table 4-1. Analytical results indicated that the equipment blank collected on July 29, 2003 detected chromium above the method detection limit.

4.1.3 Travel Blanks

The detection of compounds in travel blanks is generally indicative of systematic contamination from sample transport, laboratory glassware cleaning, laboratory storage, or analytical procedures. During the July 2003 sampling event, three laboratory-prepared travel blanks (one for each day of sampling) consisting of organic-free water were labeled and submitted to the laboratory for volatile organic compound analysis by EPA Method 8260. The travel blanks were placed inside the cooler containing samples for volatile organic compounds, and accompanied the sample containers throughout the sampling event.

Table 4-1 shows the results of the travel blank analyses. No compounds were detected above the method reporting limits.

4.1.4 Sample Control

All sample containers were labeled immediately prior to sampling with the sample identification information completed with a waterproof pen. Samples were transported under chain-of-custody and hand delivered by courier to the laboratory in ice-cooled chests. Copies of the chain-of-custody records are included in Appendix D.

4.2 Laboratory Quality Assurance

Internal laboratory QA/QC results were provided with each sample analytical report. Matrix spike, matrix spike duplicate, method blank, and duplicate control sample results are noted in the QA/QC reports. In addition, surrogate recoveries are also noted for volatile organics analyses.

Holding times were met with the exception of selected hexavalent chromium analyses. Samples were analyzed the day after collection, but outside of the 24-hour holding time. Del Mar Analytical could not perform this analysis due to equipment failure. The samples were subcontracted to Weck Laboratories for analysis. Holding times were missed by up to four hours.

Table 4-1
Phibro-Tech, Inc.
Groundwater Analytical Results - July 2003
Field Quality Control Sample Analytical Summary

Well ID	Sample Date	Sample Type	Metals (mg/L)				VOCs (ug/L)											
			Cadmium	Chromium	Cr+6	Copper	Benzene	Toluene	Ethyl-benzene	Xylenes, Total	PCE	TCE	1,1-DCE	1,1-DCA	1,2-DCA	CFM	cis-1,2-DCE	MCL
MW-04	7/30/03		0.41	30	29000	0.03 RL-1,	5.8	5 U	5 U	10 U	5 U	140	78	160	56	25	230	96
		K	0.47	37	33000	0.05 RL-1,	7	10 U	10 U	20 U	10 U	150	80	170	59	25	250	100
		RPD	13.6 %	20.8 %	12.9 %		18.8 %					6.9 %	2.5 %	6.1 %	5.2 %	0 %	8.3 %	4.1 %
MW-09	7/31/03		0.005 U	2.2	2100	0.01 U	5 U	10 U	10 U	20 U	10 U	480	120	370	330	160	20	84
		K	0.005 U	2.2	2200	0.01 U	2.5 U	5 U	5 U	10 U	9	460	120	390	310	170	22	81
		RPD		0 %	4.7 %							4.3 %	0 %	5.3 %	6.3 %	6.1 %	9.5 %	3.6 %
DI	7/31/03	N	0.005 U	0.005 U	0.3 U	0.01 U	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	5 U
EB	7/29/03	N	0.005 U	0.0078	0.001 U	0.01 U	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	5 U
	7/30/03	N	0.005 U	0.005 U	0.3 U	0.01 U	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	5 U
	7/31/03	N	0.005 U	0.005 U	0.3 U	0.01 U	0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	5 U
TB	7/29/03	N					0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	5 U
	7/30/03	N					0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	5 U
	7/31/03	TB					0.5 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U	5 U

Notes:

PCE = Tetrachloroethene; TCE = Trichloroethene; DCE = Dichloroethene; DCA = Dichloroethane; CFM = Chloroform; MCL = Methylene chloride.

E = Indicates that the reported concentration is above the calibration range for the instrument. Concentration reported is an estimate only.
J = Indicates detected concentration is below analytical calibration curve, and is below the official reporting limit. Concentration reported is an estimate only.
RL-3 = Reporting Limit elevated due to interference from other analytes.
U = Not detected at a concentration greater than the reporting limit shown.
Sample Type:
K = Duplicate (split) Sample
TB = Trip Blank
N = Equipment Decontamination Blank
RPD = Relative Percent Difference between original and duplicate samples (%)

Section 5
Groundwater Elevation

On July 29, 2003, prior to the initiation of well evacuation procedures, the depth to groundwater was measured in 23 of the 24 on-site monitoring wells. Groundwater elevations were calculated by subtracting the depth to static water level from the surveyed elevation of the corresponding monitoring well.

All of the monitoring well casing elevations were surveyed during the RFI and three wells (MW-04, MW-09, and MW-10) were resurveyed in January 1996 following wellhead repair. In July 1998, wellhead repairs were performed on wells MW-03, MW-06A, MW-06B, MW-06D, MW-08, MW-11, MW-12S, MW-12D, MW-13S, MW-13D, and MW-16. These wells were resurveyed during the July 1998 monitoring event. During the April 2000 monitoring event, two additional wellheads were repaired (MW-14S and MW-14D). Wells MW-14S and MW-14D were resurveyed during September 2001.

During the current sampling event, water level measurements were taken at shallow wells MW-01S, MW-03, MW-04, MW-05, MW-06B, MW-07, MW-08, MW-09, MW-10, MW-11, MW-12S, MW-13S, MW-14S, MW-15S, and MW-16. Water level measurements were also taken at deep wells MW-01D, MW-04A, MW-06D, MW-12D, MW-13D, MW-14D, and MW-15D. These wells were measured to evaluate the direction and gradient of groundwater flow underlying the facility and to help characterize the shallow and deep aquifer interaction. Well MW-02 was not measured due to its proximity to MW-12S. Well MW-06A was measured and found to be dry.

Table 5-1 lists the depths to water and groundwater elevations for each well sampled. Figure 5-1 shows the approximate groundwater surface elevation of the upper Hollydale Aquifer for wells screened in the shallow interval (45 to 77 feet below ground surface) using data collected during the present sampling round. The contours shown in Figures 5-1 and 5-2 were generated by D.C.A.; a surface contouring software developed by Softdesk, which is commonly used in conjunction with CADD (Computer Aided Drafting and Design) to produce contour maps and other graphics.

The direction of groundwater flow in the shallow monitoring wells is approximately southwest at an average gradient of 0.35 feet per 100 feet in the western portion of the facility, where the majority of the monitoring wells are located. The gradient in the shallow wells is less than the April 2003 sampling event, which had a gradient of 0.43 feet per 100 feet.

Figure 5-2 shows the approximate groundwater elevation of the lower Hollydale Aquifer for wells screened in the deeper interval (78.3 to 123.5 feet below ground surface). Groundwater contours for the deeper wells follow the same general trend as those of the shallow wells, with a direction of groundwater flow towards the southwest at an average gradient of 0.38 feet per 100 feet. This is less than the average gradient of 0.43 during the previous quarter.

With the 23 wells measured for water levels during this sampling round, there are seven locations where a deep well was measured adjacent to a shallow well. The screened intervals of the shallow wells vary (see Table 5-1), with 15 to 30 feet of screen placed within the interval of 45 to 77 feet below ground surface (bgs). Deep wells are screened 15 to 20 feet of screen within the interval of 78.3 to 107 feet bgs, with the exception of MW-15D, which is screened from 108.5 to 123.5 feet bgs.

Of the well pairs, groundwater elevations at shallow wells MW-01S, MW-12S, MW-13S, MW-14S, and MW-15S were slightly higher (0.03 feet to 0.27 feet) than the corresponding shallow well elevations. The groundwater elevations at deep wells MW-04A and MW-06D were slightly higher (0.08 feet and 0.17 feet, respectively) than the corresponding shallow well elevations. Based on these and past groundwater elevation comparisons among shallow and deep well pairs, it does not appear that a well-defined vertical gradient between shallow and deep intervals exists.

Average groundwater elevations during the present sampling event increased compared to the previous sampling event by an average of 2.78 feet. The maximum groundwater elevation increase occurred in well MW-11, which increased by 3.33 feet.

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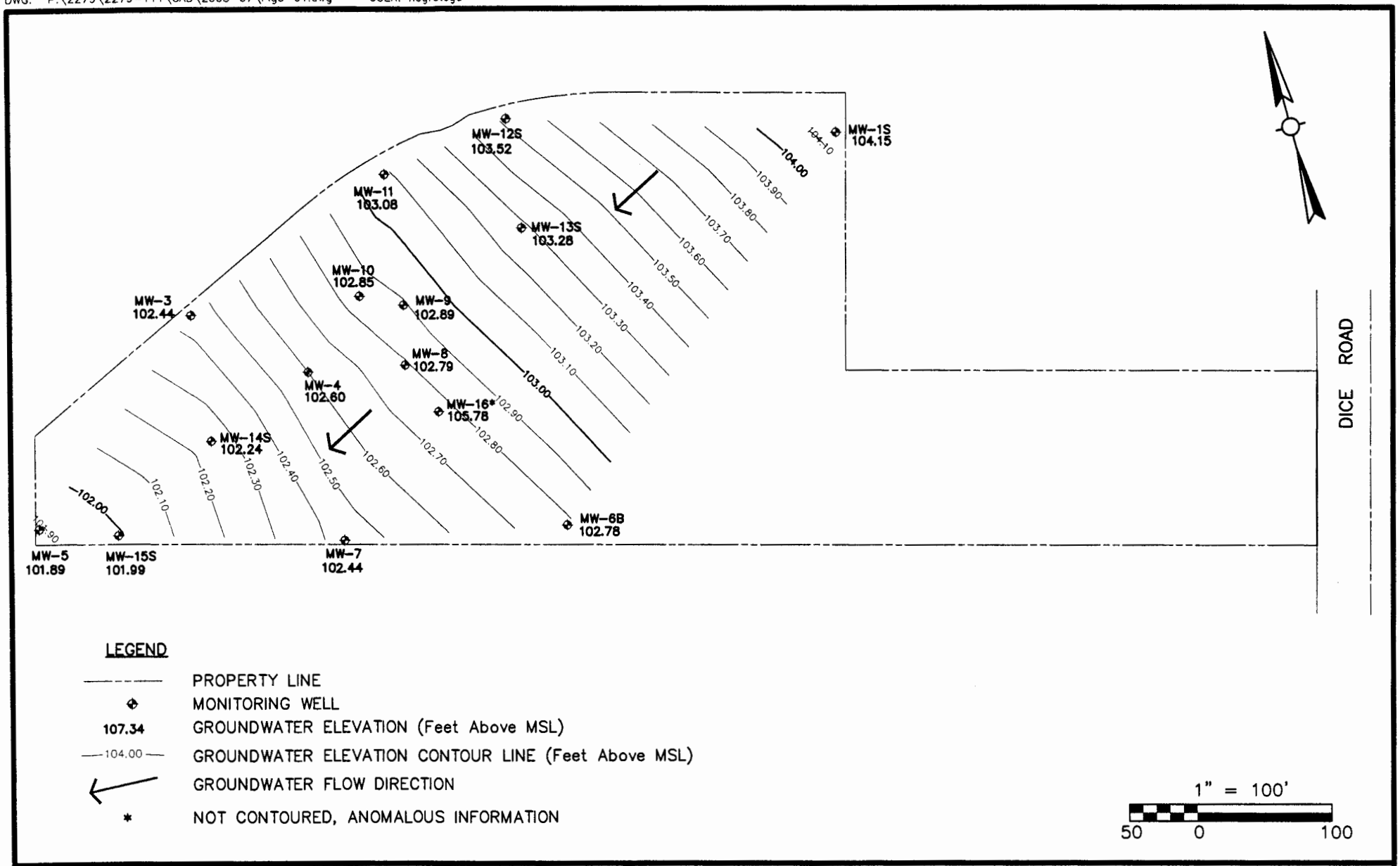

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Groundwater Elevation Contours - Shallow Wells
July 2003

CDM

Figure 5-1

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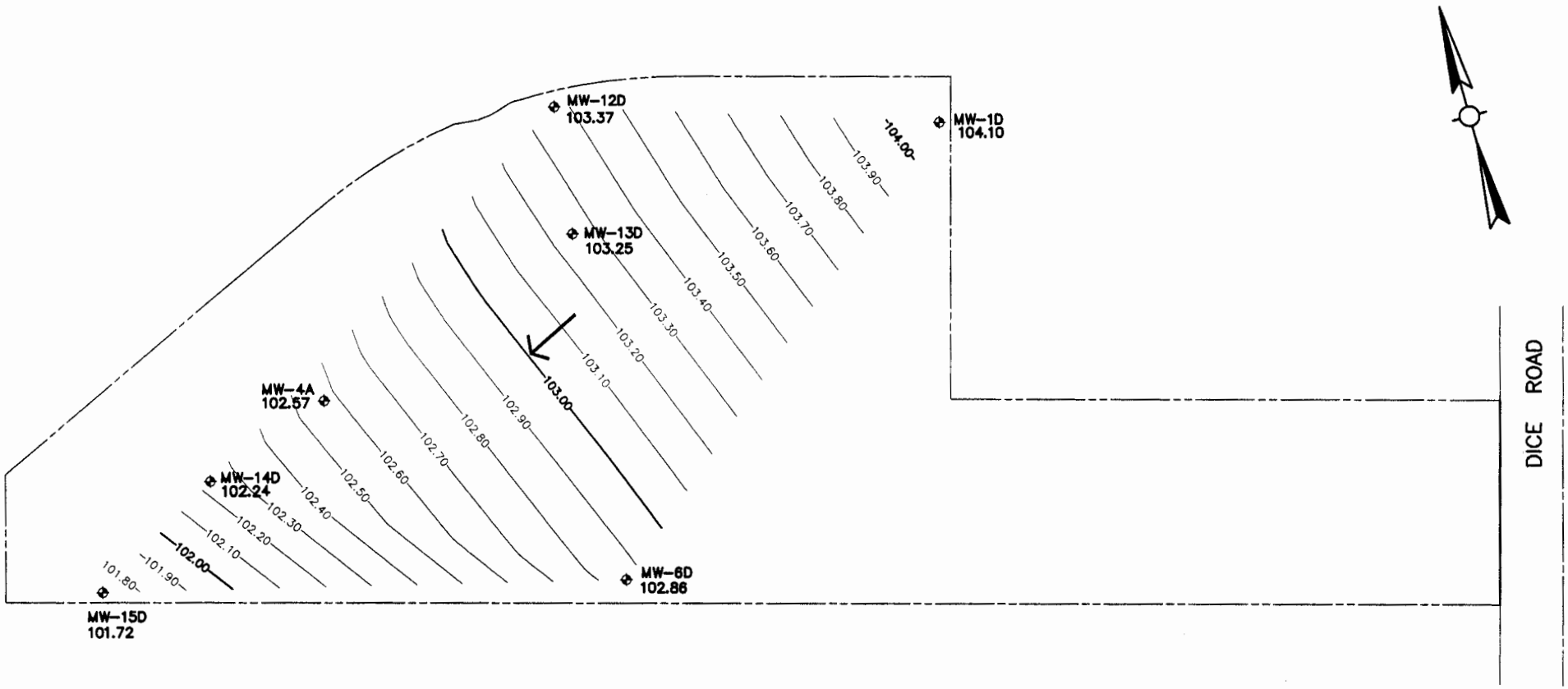

LEGEND

———	PROPERTY LINE
◆	MONITORING WELL
104.10	GROUNDWATER ELEVATION (Feet Above MSL)
—104.00—	GROUNDWATER ELEVATION CONTOUR LINE (Feet Above MSL)
←	GROUNDWATER FLOW DIRECTION

1" = 100'

50 0 100

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Groundwater Elevation Contours - Deep Wells
July 2003

CDM

Figure 5-2

TABLE 5-1
PHIBRO-TECH, INC.
July 2003
Groundwater Elevation Data

Well No.	Well Headspace* (ppm)	Total Depth Constructed (ft) (bgs)	Total Depth Measured (ft) (bgs)	Perforated Intervals (ft)	Calculated Casing Fill (ft)	M.P. Elevation (ft)	Depth to Water (ft below MP)	Groundwater Elevation (ft above MSL) July 2003	Groundwater Elevation (ft above MSL) April 2003
1S	0.3 / 0.0	62.5	62.21	47-62.5	0.3	152.63	48.48	104.15	107.34
1D	0.0 / 0.0	94.8	96.00	79.5-94.5	-	152.60	48.50	104.10	107.23
3	6.3 / 0.0	74.1	76.10	45-75	-	154.75	52.31	102.44	105.70
4	6.4 / 0.1	67.5	70.38	45-75	-	152.37	49.77	102.60	105.60
4A	8.2 / 0.1	107.0	108.54	87-107	-	152.46	49.89	102.57	105.70
5	0.0 / 0.0	75.0	73.20	45-75	1.8	153.26	51.37	101.89	104.95
6A	117.0 / 0.0	---	29.04	10-30	-	---	---	Dry	Dry
6B	0.2 / 0.0	77.6	75.88	45-75	1.7	149.53	46.75	102.78	105.55
6D	0.3 / 0.1	95.5	92.57	79-94	2.9	150.13	47.27	102.86	105.61
7	0.8 / 0.0	71.5	71.05	45-75	0.4	149.42	46.98	102.44	105.27
8	5.1 / 0.1	71.0	70.17	41-71	0.8	150.17	47.38	102.79	101.89
9	32.8 / 0.0	73.5	75.51	44-77	-	152.96	50.07	102.89	106.13
10	0.8 / 0.0	75.0	76.20	45-75	-	153.89	51.04	102.85	106.12
11	5.6 / 0.0	75.5	77.08	55-75	-	155.76	52.68	103.08	106.41
12S	35.8 / 0.1	72.0	74.75	51-72	-	155.79	52.27	103.52	106.79
12D	0.0 / 0.0	101.0	102.87	84.5-100	-	155.72	52.35	103.37	106.65
13S	4.6 / 0.1	70.3	69.24	50.3-70.3	1.1	151.72	48.44	103.28	106.42
13D	4.2 / 0.0	93.3	93.60	78.3-93.3	-	151.68	48.43	103.25	106.40
14S	18.4 / 0.0	71.5	70.82	51.5-71.5	0.7	150.54	48.30	102.24	105.35
14D	0.0 / 0.0	103.3	104.56	88-103	-	150.60	48.36	102.24	105.32
15S	0.6 / 0.0	71.5	71.40	51.5-71.5	0.1	151.01	49.02	101.99	104.99
15D	0.2 / 0.0	123.8	124.92	108.5-123.5	-	150.96	49.24	101.72	104.86
16	3.7 / 0.0	62.5	62.12	42-62	0.4	150.27	44.49	105.78	105.65

M.P. = Measuring point (top of steel casing)
--- = Not measured or not calculated.
bgs = below ground surface
ppm = parts per million

MSL = mean sea level
* Measured with PID prior to sampling (casing/background).
Note: Depth to water measurements collected on July 29, 2003 prior to purging/sampling on-site wells.

Section 6
Groundwater Quality

In order to compare the analytical data with the previous sampling events (1989 through April 2001 quarterly events), historical sampling results were compiled and presented in Appendix B. The Appendix B tables summarize selected groundwater analytical parameters (hexavalent and total chromium, cadmium, copper, purgeable aromatics and trichloroethene) and groundwater elevations at shallow-well and deep-well locations sampled prior to April 2001. Analytical results for the period from July 2001 to the present are summarized in Tables 6-1 and 6-2. Starting with the July 2001 sampling event, the analytical results were provided electronically by the laboratory and input directly into the project's Access database. Laboratory analytical reports for all wells sampled during the July 2003 sampling round are located in Appendix C.

Consistent with the results of laboratory testing performed on the groundwater samples collected since January 1989 from the on-site monitoring wells, three contaminant plumes in the Hollydale Aquifer were identified. Historically, these plumes have been present at varying concentrations and lateral extent. One small plume, consisting primarily of chromium, has been aligned in a northeasterly to southwesterly direction in the vicinity of wells MW-04 and MW-14S. The second, consisting of purgeable aromatics, has also been aligned in a northeasterly to southwesterly direction with the highest concentrations generally found in wells MW-04, MW-14S, and MW-09. The third plume consists of TCE and related parameters with highest concentrations generally detected in wells MW-04, MW-09, MW-11, and MW-14S.

6.1 Halogenated Volatile Organic Compounds

Table 6-1 shows the analytical results for VOCs in deep and shallow wells sampled during July 2003. TCE was the primary compound detected, with miscellaneous other halogenated organics also detected. The table also shows, for comparison purposes, maximum contaminant limits (MCLs) where established.

Trichloroethene (TCE)

TCE was detected in all 14 of the groundwater monitoring wells sampled. The highest concentration of TCE detected was 1100 $\mu g/L$ in well MW-11, which is located along the northern boundary of the site. This concentration represents an increase from the result of 410 $\mu g/L$ in the previous quarter. The TCE detected in well MW-11 likely originated from an off-site up gradient source. The second highest concentration of TCE detected was 480 $\mu g/L$ in well MW-09, an increase from the result of 240 $\mu g/L$ in the previous quarter. Of the fourteen wells sampled, twelve wells contained concentrations of TCE that exceeded the MCL of 5 $\mu g/L$.

Concentrations of TCE detected in shallow and deep wells are shown on Figures 6-1 and 6-2, respectively. Compared to the previous quarter, TCE concentrations

increased in nine of the ten shallow wells sampled: MW-01S, MW-03, MW-04, MW-07, MW-09, MW-11, MW-14S, MW-15S, and MW-16. Excluding MW-11 and MW-09, TCE concentrations ranged from 5.1 μg/L (MW-15S) to 280 μg/L (MW-03). The shallow well that had a slight decrease in TCE concentration compared to April 2003 was MW-06B.

Compared to April 2003 results, TCE concentrations decreased in deep well MW-01D and MW-06D, and increased in wells MW-04A and MW-15D. Deep-well TCE concentrations ranged from 1.6 μg/L (MW-01D) to 150 μg/L (MW-04A).

A review of the historical analytical results contained in Appendix B reveals that, with minor exceptions, TCE has historically been detected in all on-site monitoring wells, including the up gradient wells. Past discussions with Department of Health Services (now Cal EPA DTSC) and Regional Water Quality Control Board staff indicate that TCE and other halogenated organic are generally recognized as regional groundwater contaminants.

Other Halogenated Organics

During the July 2003 sampling event, other halogenated organics were detected in most of the on-site wells (Table 6-1). Halogenated organics detected other than TCE included 1,1-dichloroethane (1,1-DCA), 1,2-DCA, tetrachloroethene (PCE), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), carbon tetrachloride, trans-1,2-dichloroethene, chloroform, and methylene chloride. Wells with elevated concentrations of other halogenated organic compounds included MW-03, MW-04, MW-04A, MW-07, MW-09, MW-11, MW-14S, MW-15D, MW-15S, and MW-16.

1,1-DCA was detected in nine of the wells sampled, with detected concentrations ranging from 1.8 μg/l in MW-01S to 370 μg/L in MW-09 and MW-11. The MCL for 1,1-DCA is 5 μg/L. Compared with April 2003, concentrations of 1,1-DCA increased in eight of the sampled wells.

1,2-DCA was present above reporting limits in ten of the sampled wells, with concentrations ranging from 0.67 μg/l in MW-01S to 330 μg/L in MW-09. The MCL for 1,2-DCA is 0.5 μg/L.

Detectable concentrations of cis-1,2-DCE were reported in eight of the wells sampled. Among wells with detections, concentrations ranged from 6.5 μg/L in MW-01S to 230 μg/L in MW-04. The MCL for cis-1,2-DCE is 6 μg/L.

The compounds PCE, 1,1-DCE, 1,1,1-TCA, carbon tetrachloride, chloroform and methylene chloride were also detected in one or more wells. Detections of these other halogenated organic compounds are assumed to be related to the TCE plume. The presence of trans-1,2-dichloroethene could be a result of anaerobic degradation of TCE.

6.2 Aromatic Volatile Organic Compounds

According to PTI personnel, with the exception of methylene chloride, organic chemicals have not historically been used on-site in any of the production processes. Two 10,000-gallon underground storage tanks (containing diesel and gasoline), however, were located in the approximate center of the facility, due east of the drum wash area. During tank removal activities in July 1989, petroleum hydrocarbon contamination was discovered in the tank excavation. The RFI report indicated that petroleum hydrocarbon contamination was not detected at depths below 30 feet near the former tank locations. Although they have not been used on-site, aromatic compounds have been historically detected in groundwater underlying the facility. The primary aromatic organic compounds of concern are toluene, ethylbenzene and total xylenes, which vary in both concentration and lateral extent. The RFI report indicated that these compounds appeared to be migrating onto the subject property from the property to the north. According to Los Angeles County Department of Public Works files, leaks from tanks containing purgeable aromatic compounds with subsequent groundwater contamination are known to have occurred at the property to the north of PTI.

Aromatic volatile organic compound results for July 2003 are presented in Table 6-1. Concentrations of total aromatics (BTEX) for the shallow wells are illustrated on Figure 6-3. Historic sampling results indicate that purgeable aromatic contamination originated off-site to the north and has migrated onto the subject property. During previous sampling events, elevated concentrations of toluene, ethylbenzene and xylenes were detected in wells MW-11 and MW-03 along the northern perimeter of the property.

Since approximately July 1991, elevated concentrations of these compounds have been detected in wells MW-04 and MW-14S, indicating that the plume may be migrating down gradient. Total BTEX concentrations in MW-04 began to gradually decrease in October 1998 until January 2000, at which time MW-04 had a total BTEX concentration of 11.1 $\mu g/L$. Concentrations began to increase in MW-04 between October 2000 until October 2001, when the total BTEX concentrations reached 6,500 $\mu g/L$. Although concentrations have fluctuated significantly since January 2002, the July 2003 total BTEX concentration in well MW-11 was 319 $\mu g/L$. For the purposes of this calculation, non-detected parameters are counted as equal to their reporting limit.

Relatively high BTEX concentrations have also been detected in well MW-09 beginning in January 1992. Ethylbenzene was detected at a concentration of 440 $\mu g/L$ in MW-09 in July 2001 and 8.1 $\mu g/L$ in October 2001. However, BTEX compounds in well MW-09 have remained below reporting limits since January 2002.

The second highest total BTEX concentration occurred in well MW-14S at 53.4 $\mu g/L$. This concentration represents a decrease from 262 $\mu g/L$ in April 2003.

Benzene

Of the 14 wells sampled in July 2003, only wells MW-03, MW-04, MW-04A, MW-09, MW-11, MW-14S, and MW-15D had benzene concentrations (2.5, 5.8, 2.2, 5, 5, 1.4, and 1.4 μg/L, respectively) above the maximum contaminant level of 1.0 μg/L. Historical evidence indicates that benzene is not a contaminant of concern for the facility.

Toluene

During the July 2003 sampling event, toluene was not detected above the reporting limit in any of the 14 wells sampled. In general, toluene has historically occurred sporadically in most of the wells on site. Elevated toluene concentrations were detected during July 1990 to July 1991 (MW-11), July 1991 to January 1992 (MW-04), July 1992 to July 1993 (MW-09), and July 1994 to January 1995 (MW-09). Concentrations were also detected at well MW-04 during January 1993. Historically, elevated ethylbenzene and total xylene concentrations have generally been associated with elevated toluene concentrations.

Ethylbenzene

During the July 2003 sampling round, ethylbenzene was detected at concentrations greater than the reporting limit in wells MW-11, MW-14S, and MW-16. The highest concentration of ethylbenzene was detected in MW-11 (210 μg/L), which was a decrease from April 2003, when ethylbenzene was not detected at a detection limit of 5 μg/L. The second highest concentration of ethylbenzene (49 μg/L) was detected in MW-14S, which is a decrease from a concentration of 240 μg/L during the previous quarter.

Total Xylenes

During the July 2003 sampling event, total xylenes were detected above the reporting limit in well MW-11 (94 μg/L).

6.3 Inorganic and Miscellaneous Parameters

Table 6-2 shows the analytical results for inorganic parameters (cadmium, total and hexavalent chromium, copper, and pH) for sampling events of the past year.

Hexavalent Chromium (Cr^{+6})

During this sampling event, hexavalent chromium was analyzed using EPA Method 7199 with a typical reporting limit of 0.001 mg/L. Prior to the April 2001 sampling event, hexavalent chromium was analyzed using EPA Method 7196 with a typical reporting limit of 0.02 mg/L.

Hexavalent chromium was detected in eleven of the fourteen wells sampled. Well MW-04 contained the highest concentration of hexavalent chromium at 29 mg/L. Well MW-04 also contained the highest concentration during the previous event, at 14 mg/L. The other reportable concentrations of hexavalent chromium ranged from

0.0023 mg/L (MW-06D) to 2.2 mg/L (MW-09). Figure 6-4 shows the concentrations of hexavalent chromium detected in the shallow wells during July 2003.

Water purged from MW-04 has typically been bright yellow in color since CDM began sampling the wells on a quarterly basis in January 1989. During this sampling round, the color of water from MW-04 was again noted as yellow.

Figure 6-5 shows the concentrations of hexavalent chromium and groundwater elevations in MW-04 over time. The concentrations of hexavalent chromium at MW-04 generally decreased from July 1989 (120 mg/L) to July 1993 (1.8 mg/L), while groundwater elevations increased. Since July 1993, hexavalent chromium concentrations have fluctuated while groundwater elevations have remained fairly constant. Historically, hexavalent chromium has been detected (detection limit was 0.02 mg/L) in four other wells other than MW-04, although the highest concentration has always been detected at MW-04.

At MW-14S from October 1990 to January 1993, hexavalent chromium concentrations generally decreased, with analytical non-detections reported for the six sampling rounds before October 1994. Since October 1994, detections have been sporadic, ranging from 0.017 to 0.12 mg/L during 16 of the last 31 sampling events. Well MW-14S had a hexavalent chromium concentration of 0.12 mg/L in July 2003, an increase compared to the 0.001 mg/L concentration the previous quarter.

Hexavalent chromium concentrations decreased in MW-09 between October 1989 and January 1991. Then between January 1992 and July 1998 hexavalent chromium concentrations were not detected above the reported detection limits (except for a trace amount detected in October 1991). Between October 1998 and July 2003, twelve of the eighteen sampling events indicated detectable concentrations of hexavalent chromium in well MW-09. During the July 2003 sampling event, hexavalent chromium was detected at a concentration of 2.1 mg/L, an increase from the concentration of 0.25 mg/L detected during the April 2003 sampling event.

Total Chromium (Cr[T])

Total chromium was detected above its reporting limit in five monitoring wells during the July 2003 sampling event. The highest concentration was detected in well MW-04 at 30 mg/L, an increase from 16 mg/L last quarter. Other than MW-04, concentrations of total chromium above reporting limits ranged from 0.01 mg/L in well MW-01S to 2.2 mg/L in well MW-09. Figure 6-6 shows the concentrations of total chromium detected in shallow monitoring wells during July 2003. Figure 6-7 shows the concentrations of total chromium and corresponding groundwater elevations in MW-04 over time. Comparison of historical total chromium data with present data (Appendix B) indicates that total chromium concentrations, like those of hexavalent chromium, generally decreased from January 1989 to July 1993, and have fluctuated since July 1993. Historically, the highest total chromium concentrations have been detected in MW-04. Sporadic detections of total chromium close to the detection limit have occurred historically in nearly all shallow wells on site.

Cadmium (Cd)

During the July 2003 sampling event, cadmium was detected at a concentration greater than the reporting limit in wells MW-01S (0.01 mg/L), MW-04 (0.41 mg/L) and MW-14S (0.0066 mg/L). The concentration in MW-04 increased from 16 mg/L detected last quarter.

Previous concentrations in MW-04 have ranged from 0.028 mg/L in January 1989 to 0.86 mg/L in July 1992. Figure 6-8 shows the cadmium concentrations detected in the on-site wells during July 2003. Figure 6-9 shows the concentrations of cadmium and corresponding groundwater elevations in MW-04 over time. As shown on Figure 6-9, cadmium concentrations have fluctuated considerably (i.e., from non-detectable at a detection limit of 0.005 mg/L during July 1993 to 0.86 mg/L during July 1992) since July 1990.

Cadmium has been detected consistently only in well MW-04. Historically, cadmium has been detected once at 0.01 mg/L in MW-01 during July 1989. Cadmium was detected in MW-14S at concentrations ranging from 0.005 mg/L to 0.018 mg/L between October 1990 through July 1991 and at a concentration of 0.0055 mg/L during July 1995. Cadmium was also detected in MW-15S at concentrations close to the detection limit from July 1991 to January 1993. Detected concentrations in MW-15S ranged from 0.005 mg/L in July 1992 to 0.02 mg/L during October 1991.

Copper (Cu)

Copper was detected at a concentration greater than the reporting limit in seven of the sampled wells. Concentrations ranged between 0.01 mg/L in well MW-06B to 0.052 mg/L in well MW-14S. None of these concentrations exceed the secondary MCL of 1.3 mg/L. Figure 6-10 shows the copper concentrations detected in the on-site wells during July 2003. Historically, with the exception of well MW-14S, concentrations of copper above the secondary MCL have not been detected in on-site monitoring wells.

pH

Groundwater samples from all wells were measured for pH in the field during purging activities, and also by the analytical laboratory on the samples submitted for analysis. Field pH measurements were recorded on the field purge sheets during well purging. In July 2003, the field measurements of pH generally correlated with the values shown in Table 6-2, which range from 6.69 (MW-09) to 7.55 (MW-01D).

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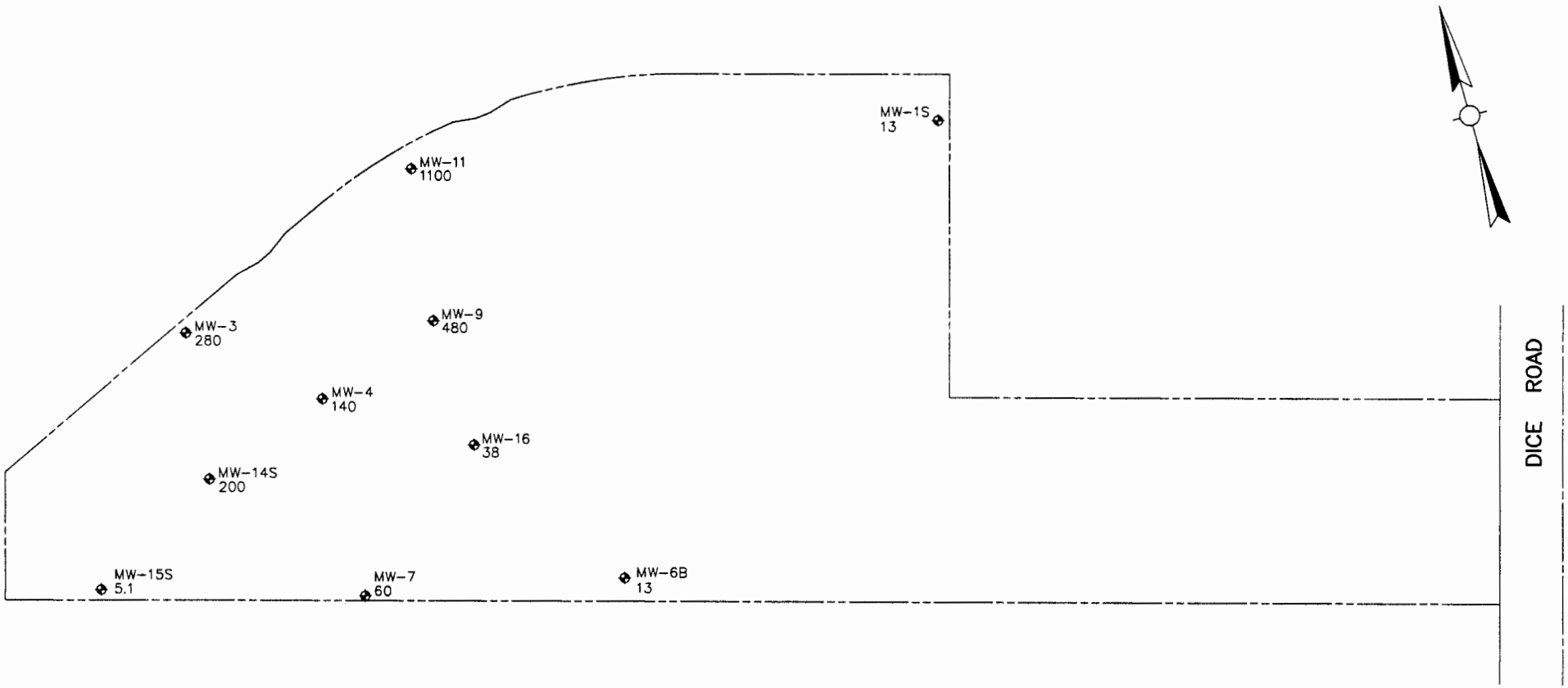

LEGEND

PROPERTY LINE

MONITORING WELL

1100 TCE CONCENTRATION (ug/L)

1" = 100'

50 0 100

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

TCE Concentrations - Shallow Wells
July 2003

CDM

Figure 6-1

DATE: Sep 25, 2003 3:35pm XREFS:
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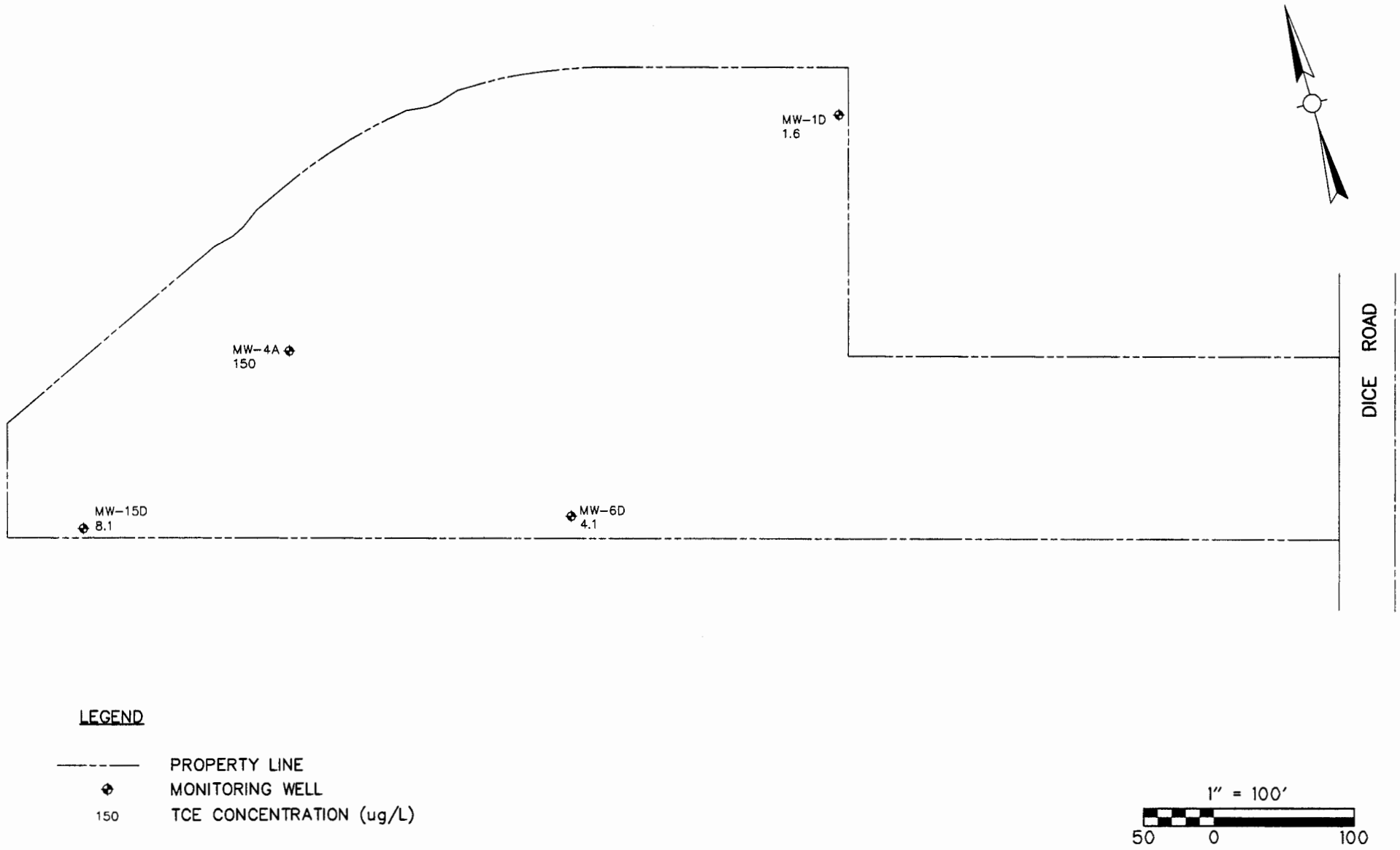

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

TCE Concentrations - Deep Wells
July 2003

CDM

Figure 6-2

DATE: Sep 25, 2003 3:37pm XREFS:
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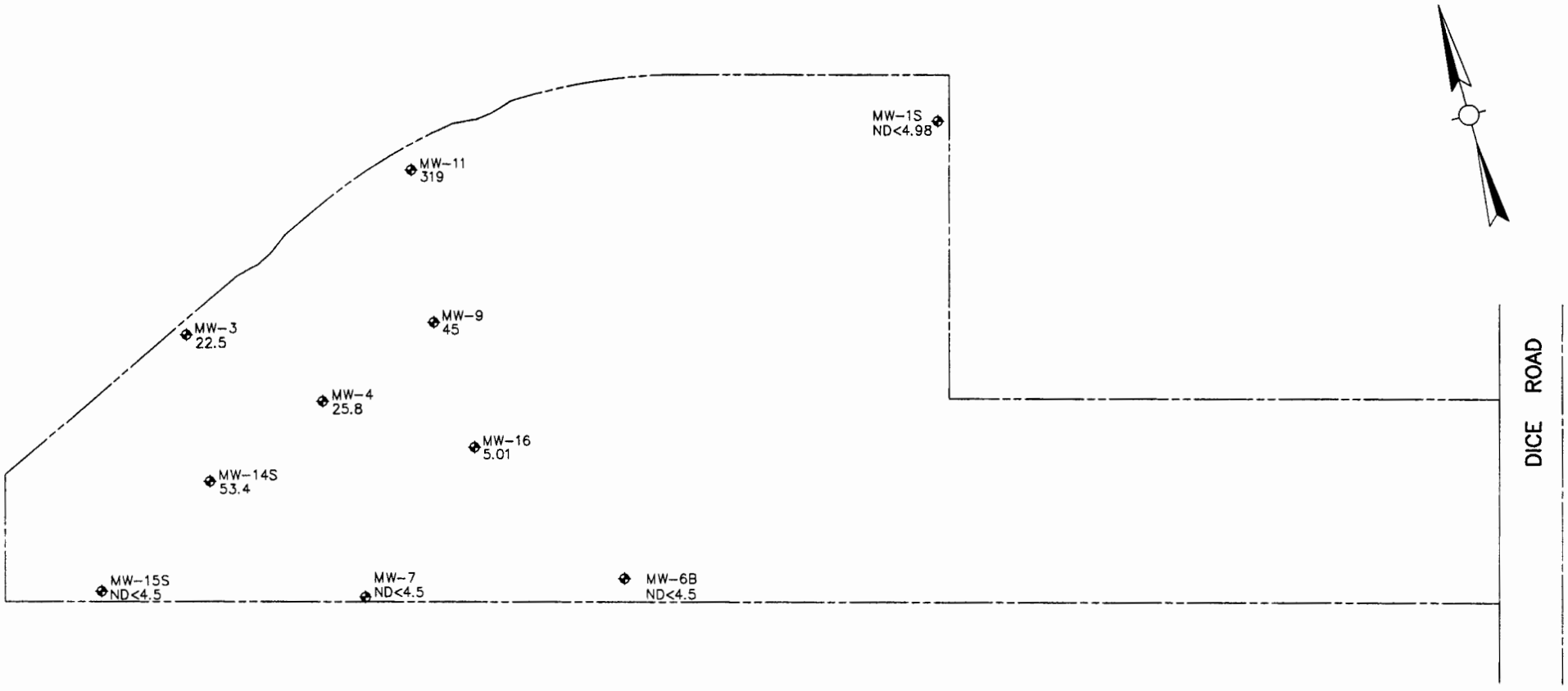

LEGEND

———	PROPERTY LINE
◆	MONITORING WELL
319	TOTAL BTEX CONCENTRATION (ug/L)
ND	NOT DETECTED
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, XYLENE

1" = 100'

50 0 100

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Total BTEX Concentrations - Shallow Wells
July 2003

CDM

Figure 6-3

DATE: Sep 25, 2003 3:38pm XREFS:
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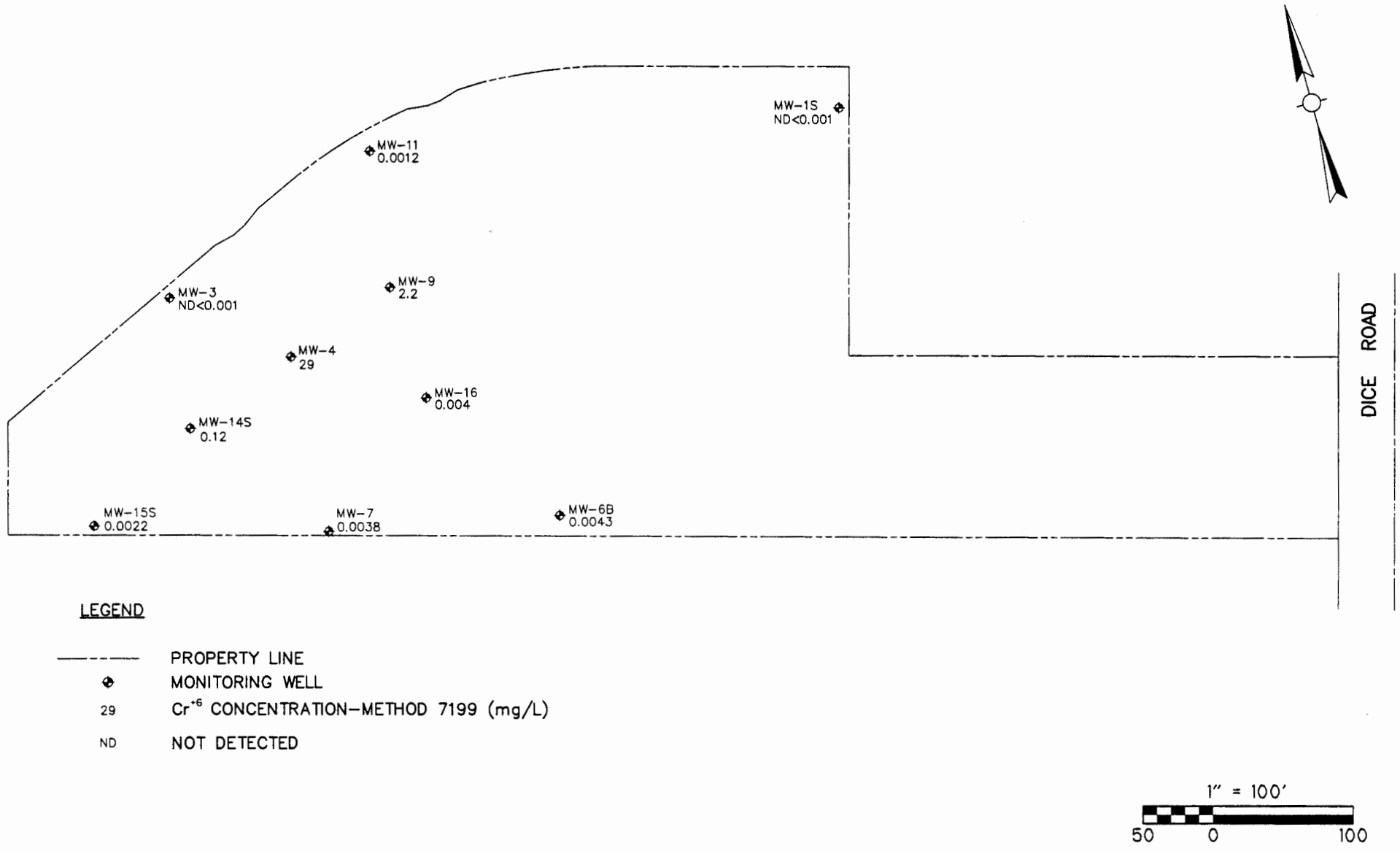

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Hexavalent Chromium Concentrations - Shallow Wells
July 2003

CDM

Figure 6-4

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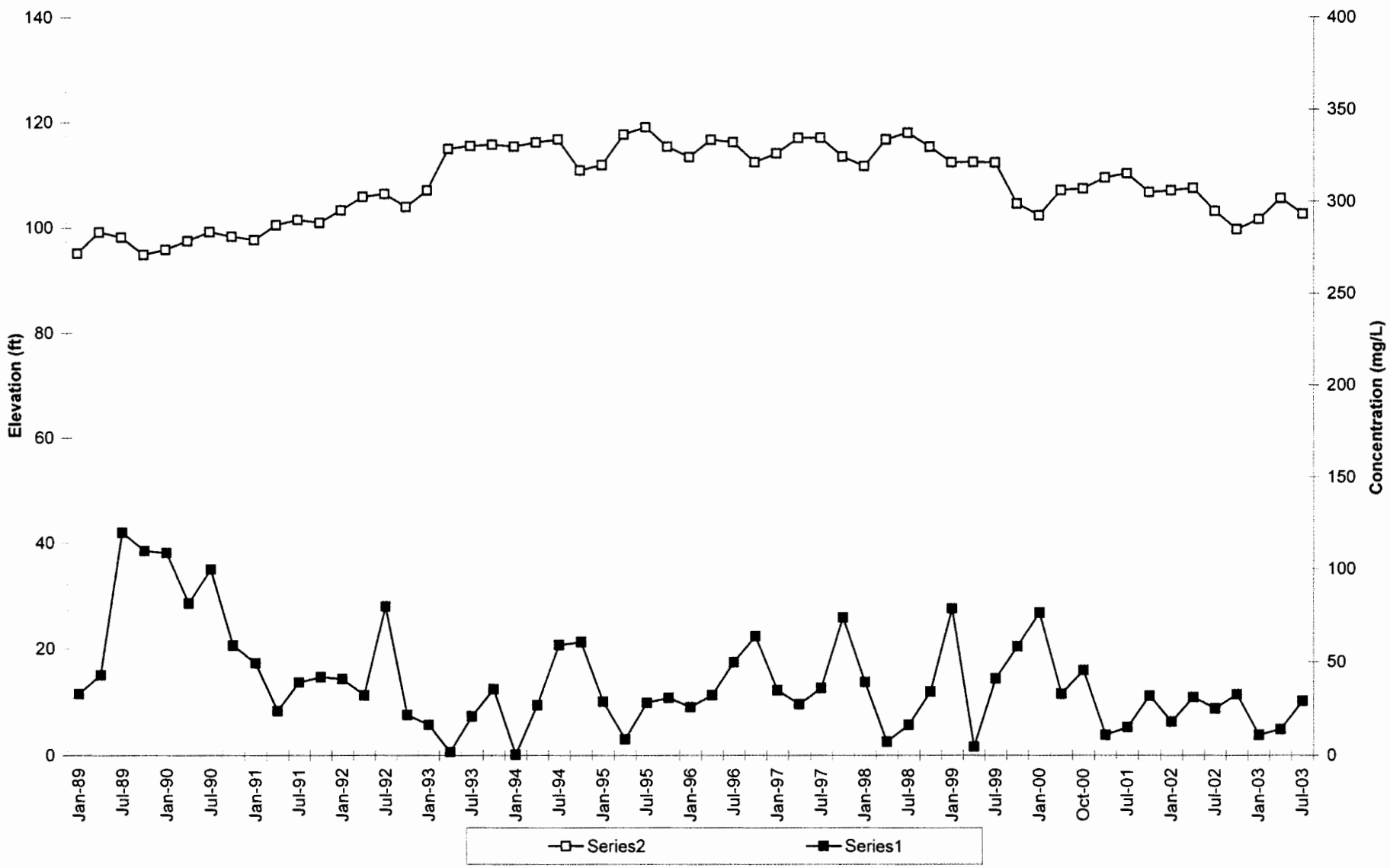

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Hexavalent Chromium Concentration
Groundwater Elevation MW-04
January 1989 - July 2003

CDM

Figure 6-5

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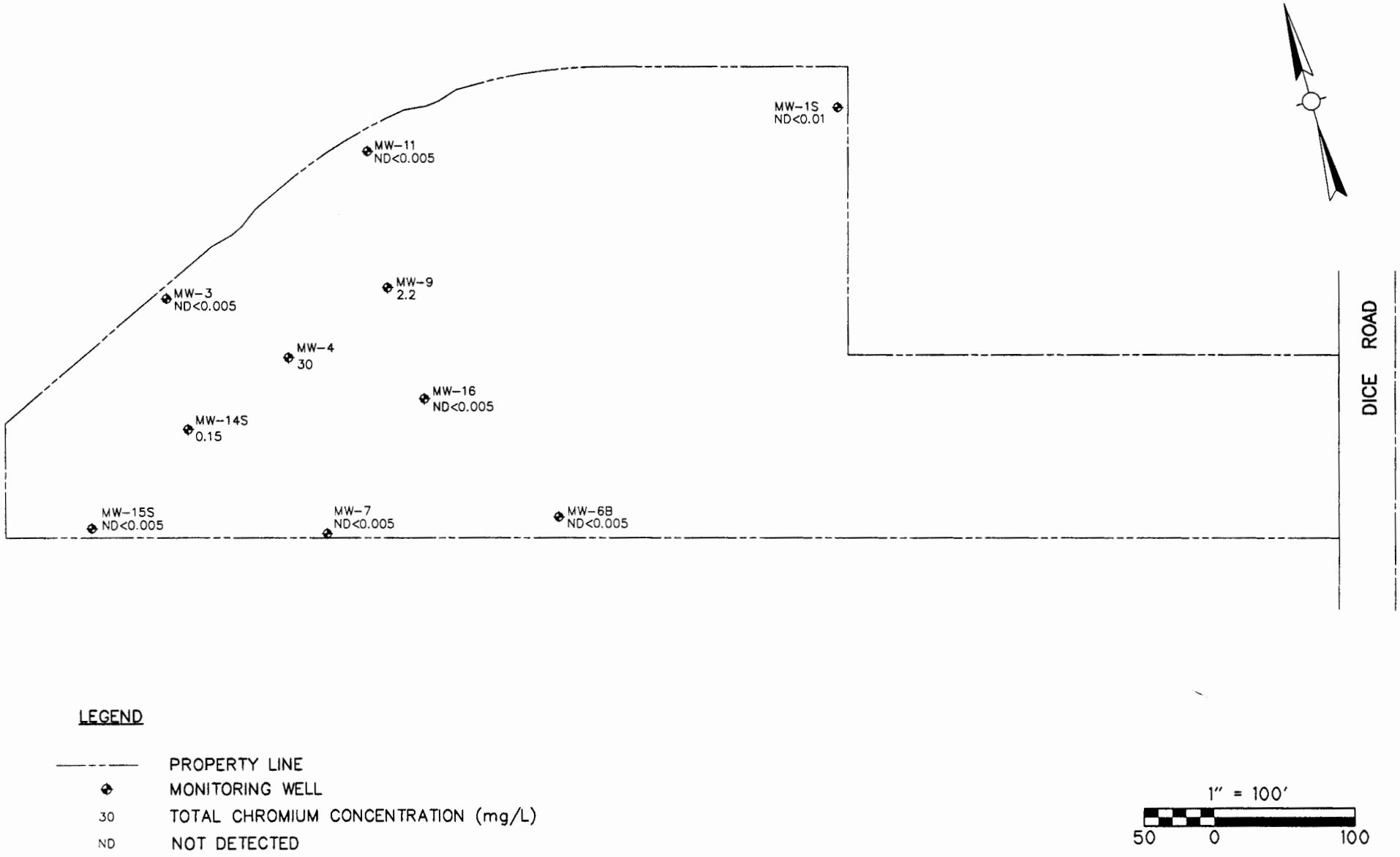

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Total Chromium Concentrations - Shallow Wells
July 2003

CDM

Figure 6-6

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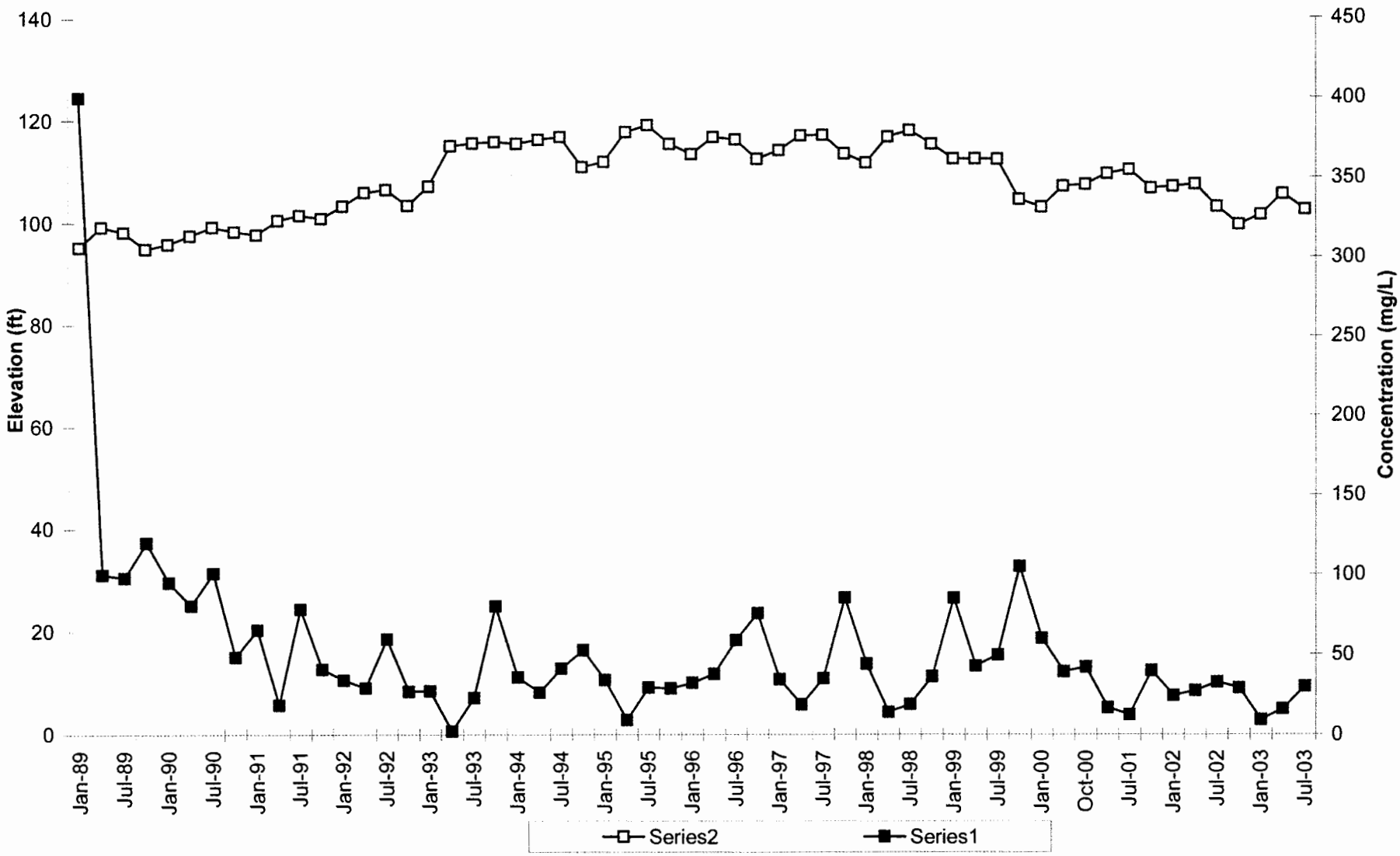

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Total Chromium Concentration
Groundwater Elevation MW-04
January 1989 - July 2003

CDM

Figure 6-7

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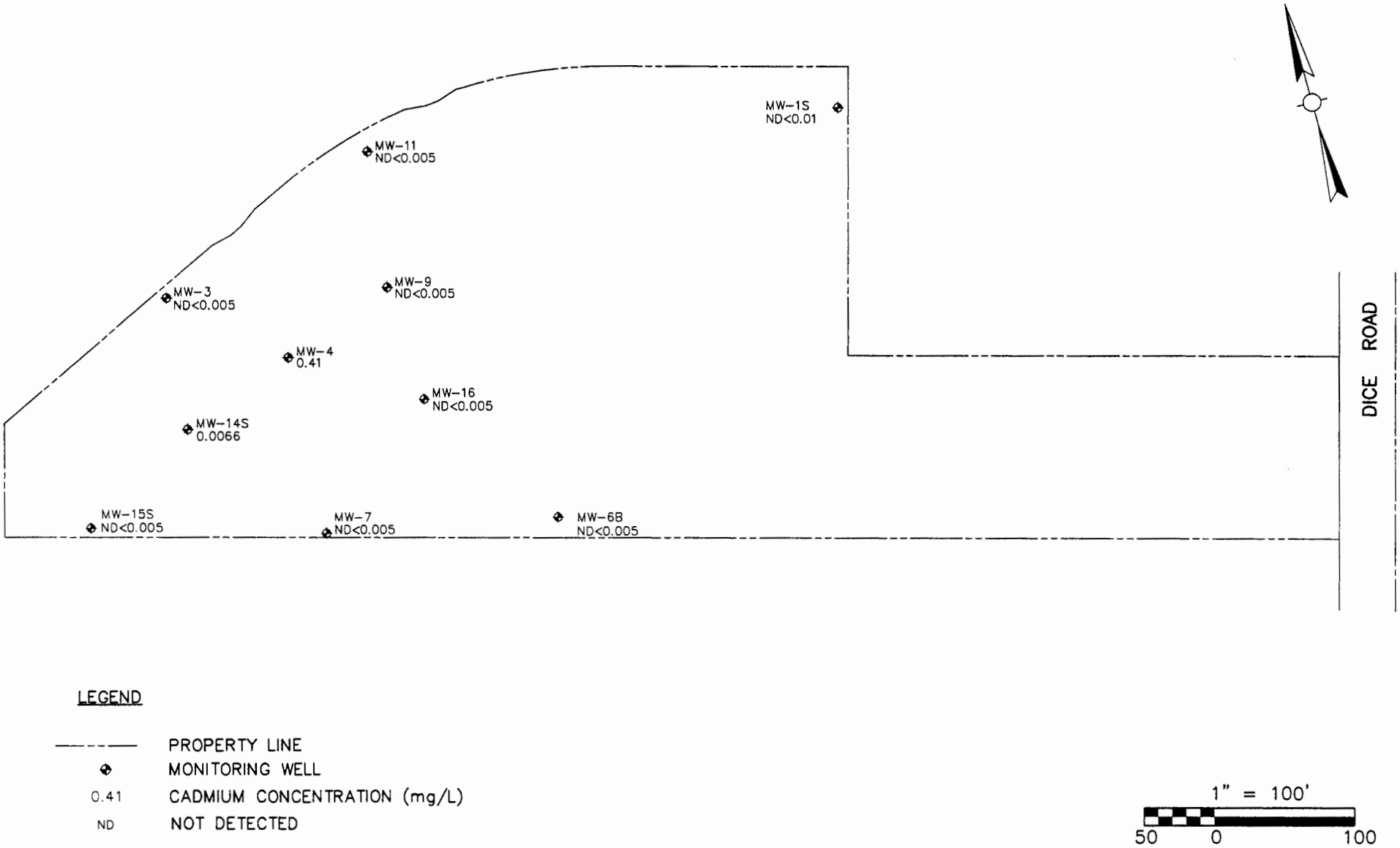

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Cadmium Concentrations - Shallow Wells
July 2003

CDM

Figure 6-8

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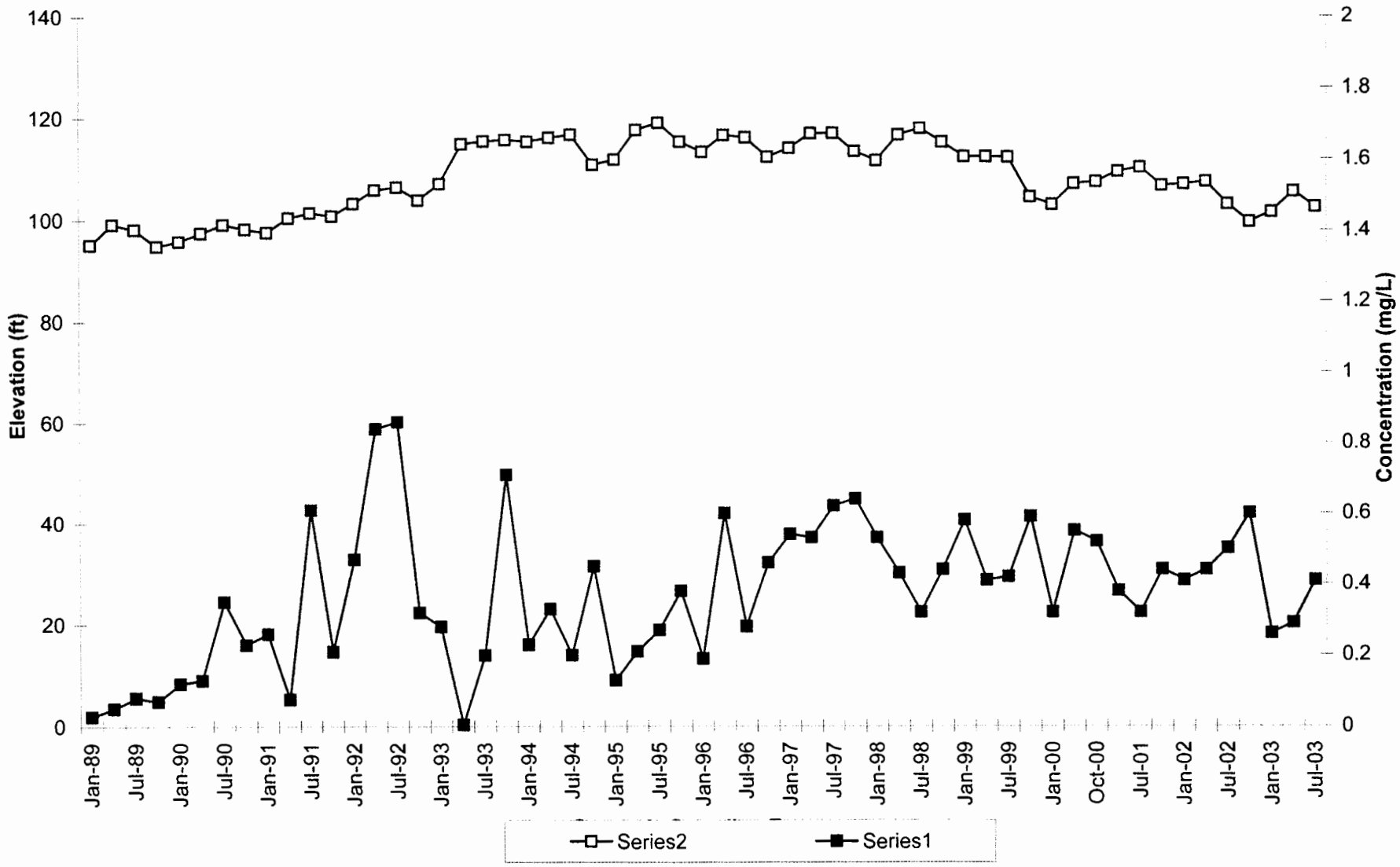

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Cadmium Concentration
Groundwater Elevation MW-04
January 1989 - July 2003

CDM

Figure 6-9

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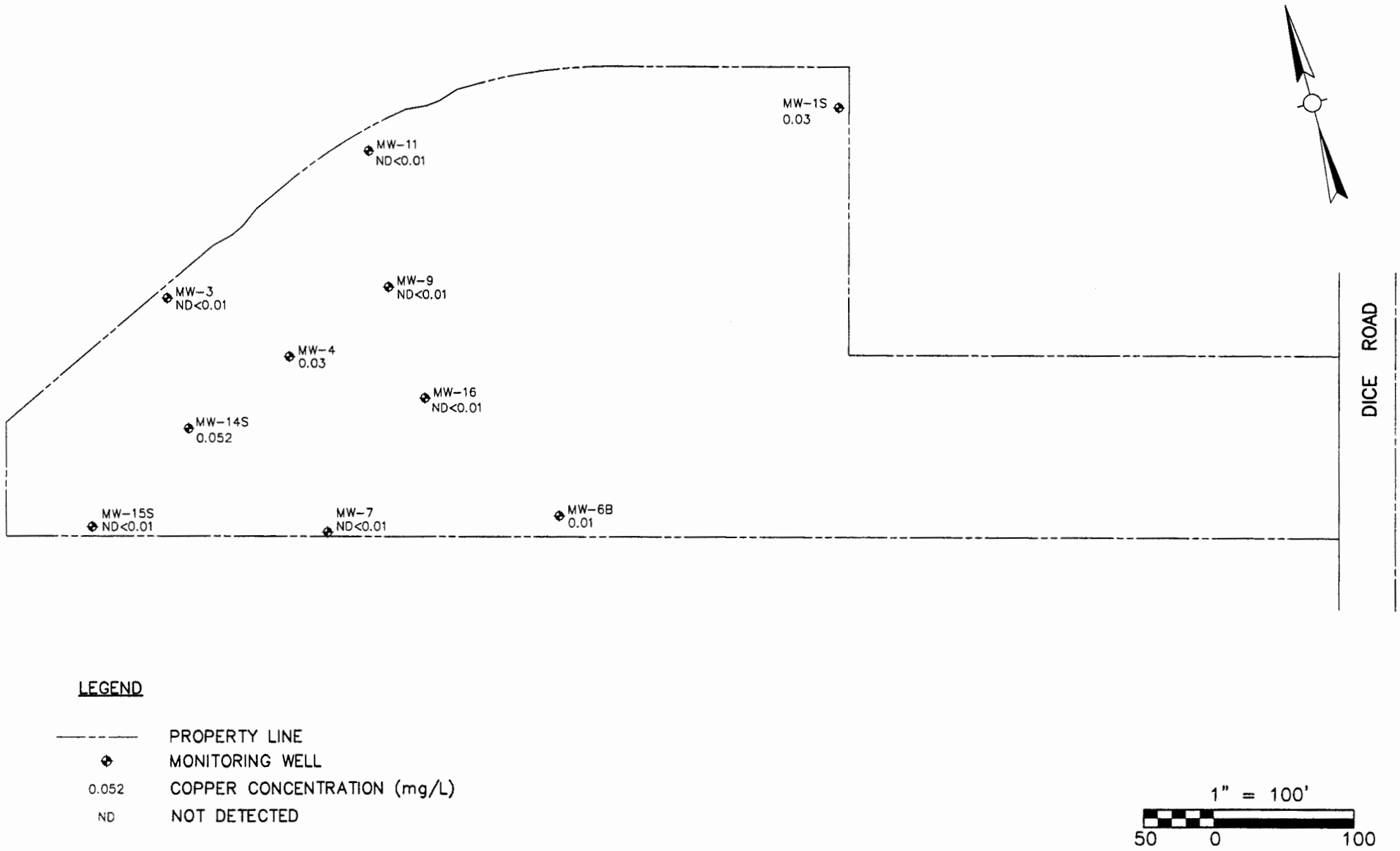

PHIBRO-TECH, INC., SANTA FE SPRINGS, CA

Copper Concentrations - Shallow Wells
July 2003

CDM

Figure 6-10

Table 6-1
Phibro-Tech, Inc.
Groundwater Analytical Results - July 2003
Volatile Organic Compounds (VOCs) Analytical Summary

Well Number	Sample Date	Sample Type	Benzene (1)	Toluene (150)	Ethyl-benzene (700)	Xylenes, Total (1,750)	PCE (5)	1,1,1-TCA (200)	TCE (5)	1,1-DCE (6)	1,1-DCA (5)	1,2-DCA (0.5)	CCl4 (0.5)	CFM (100)	cis-1,2-DCE (6)	trans-1,2-DCE (10)	MCL (5)
MW-01D	7/24/02		1 U	1 U	1 U	2 U	1.7	1 U	2.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	10/22/02		1 U	1 U	1 U	2 U	2.5	1 U	1.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	1/8/03		0.67	1 U	1 U	2 U	2.8	1 U	2.2	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U
	4/23/03		0.5 U	1 U	1 U	2 U	1.8	1 U	1.9	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U
	7/30/03		0.98	1 U	1 U	2 U	1.6	1 U	1.6	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U
MW-01S	7/24/02		1 U	1 U	1 U	2 U	1.2	1 U	6.2	1 U	1 U	1 U	1 U	1 U	1.8	1 U	1 U
	10/22/02		1 U	1 U	1 U	2 U	1.4	1 U	8.3	1 U	1 U	1.1	1 U	1 U	2.2	1 U	1 U
	1/8/03		0.5 U	1 U	1 U	2 U	2	1 U	11	1 U	1 U	1.3	0.5 U	1 U	2.5	1 U	5 U
	4/23/03		0.5 U	1 U	1 U	2 U	1 U	1 U	11	1 U	1.8	0.5 U	0.5 U	1 U	8	1 U	5 U
	7/29/03		0.5 U	1 U	1 U	2 U	1 U	1 U	13	1 U	1.8	0.67	0.5 U	1 U	6.5	1 U	5 U
MW-03	7/24/02		5 U	5 U	5 U	10 U	5.5	5 U	260	36	34	5 U	28	31	5 U	5 U	5 U
	10/22/02		10 U	10 U	63	700	10 U	10 U	190	30	17	25	10 U	13	10 U	10 U	10 U
	1/8/03		1.6	2 U	2 U	2.3	5.6	2 U	250	48	32	15	22	27	2 U	2 U	10 U
	4/23/03		1 U	2 U	2 U	4 U	8.3	2 U	190	34	34	3.8	46	47	2 U	2 U	10 U
	7/29/03		2.5 U	5 U	5 U	10 U	11	5 U	280	34	37	6	70	72	5 U	5 U	25 U
MW-04	7/25/02		7.7	5 U	220	328	5 U	5 U	210	110	180	32	5 U	18	210	5 U	85
		K	7.6	5 U	200	317	5 U	5 U	210	110	170	32	5 U	18	200	5 U	84
	10/23/02		12 U	12 U	820	1650	12 U	12 U	130	76	200	31	12 U	20	240	12 U	87
		K	12 U	12 U	880	1760	12 U	12 U	140	82	210	28	12 U	21	250	12 U	90
	12/30/02		3.8	0.37 J	51	81	1.9 J	2.5 U	85	45	110	67	2.5 U	8.1	130 E	2.3 J	30
		K	3.8 J	0.4 J	49	78	2.1 J	5 U	99	48	120	64	5 U	9.7	140	2.8 J	36
	4/25/03		5.6	5 U	540	31	5 U	5 U	130	83	150	150	2.5 U	17	210	5 U	68
		K	5.6	5 U	500	28.4	5 U	5 U	140	83	150	160	2.5 U	18	220	5 U	75
	7/30/03		5.8	5 U	5 U	10 U	5 U	5 U	140	78	160	56	2.5 U	25	230	5 U	96
		K	7	10 U	10 U	20 U	10 U	10 U	150	80	170	59	5 U	25	250	10 U	100
MW-04A	7/25/02		1 U	1 U	1 U	2 U	1.3	1 U	7.1	1.8	6.1	1 U	1 U	1 U	1 U	1 U	1 U
	10/23/02		1 U	1 U	1 U	2 U	2.6	1 U	36	11	33	1 U	1 U	1.3	1.9	1 U	1 U

Table 6-1
Phibro-Tech, Inc.
Groundwater Analytical Results - July 2003
Volatile Organic Compounds (VOCs) Analytical Summary

Well Number	Sample Date	Sample Type	Benzene (1)	Toluene (150)	Ethyl-benzene (700)	Xylenes, Total (1,750)	PCE (5)	1,1,1-TCA (200)	TCE (5)	1,1-DCE (6)	1,1-DCA (5)	1,2-DCA (0.5)	CCl4 (0.5)	CFM (100)	cis-1,2-DCE (6)	trans-1,2-DCE (10)	MCL (5)
MW-04A	1/9/03		0.5 U	1 U	1 U	2 U	2.6	1 U	42	11	40	0.5 U	0.5 U	1.8	2.8	1 U	5 U
	4/24/03		1.7	1 U	1 U	2 U	5.3	2.9	110	37	150	0.5 U	0.5 U	7	13	2.2	5 U
	7/30/03		2.2	4 U	4 U	8 U	6.8	4	150	47	230	2 U	2 U	9.2	16	4 U	20 U
MW-06B	7/25/02		1 U	1 U	1 U	2 U	1 U	1 U	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	10/23/02		1 U	1 U	1 U	2 U	1 U	1 U	12	1.1	11	1.8	1 U	1 U	3.4	1 U	1 U
	1/9/03		0.5 U	1 U	1 U	2 U	5.9	1 U	22	2	1.5	0.5 U	0.5 U	1 U	1 U	1 U	5 U
	4/24/03		0.5 U	1 U	1 U	2 U	1.6	1 U	15	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U
	7/30/03		0.5 U	1 U	1 U	2 U	1.2	1 U	13	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U
MW-06D	7/25/02		1 U	1 U	1 U	2 U	1 U	1 U	3.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	10/23/02		1 U	1 U	1 U	2 U	1 U	1 U	4.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	1/8/03		0.5 U	1 U	1 U	2 U	1	1 U	6.3	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U
	4/24/03		0.5 U	1 U	1 U	2 U	1.9	1 U	8.8	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U
	7/30/03		0.5 U	1 U	1 U	2 U	1 U	1 U	4.1	1 U	1 U	0.5 U	0.5 U	1 U	1 U	1 U	5 U
MW-07	7/26/02		2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U	100	11	58	15	2.5 U	2.5 U	24	3.4	2.5 U
	10/23/02		1 U	1 U	1 U	2 U	3.8	1 U	21	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	12/30/02		0.057 J	1 U	1 U	2 U	1	1 U	13	1.8	13	1.8	1 U	0.29 J	3	0.38 J	0.6 J
	4/24/03		0.5 U	1 U	1 U	2 U	1.7	1 U	59	7.4	48	18	0.5 U	1.8	13	1.1	5 U
	7/30/03		0.5 U	1 U	1 U	2 U	1.7	1 U	60	8.5	52	20	0.5 U	1.6	16	1.7	5 U
MW-09	7/26/02		25 U	25 U	25 U	50 U	25 U	25 U	480	89	320	340	25 U	150	25 U	25 U	280
		K	10 U	10 U	10 U	20 U	10 U	10 U	570	130	360	380	10 U	170	13	10 U	320
	10/24/02		10 U	10 U	10 U	20 U	10 U	10 U	530	140	530	190	10 U	300	23	10 U	230
		K	10 U	10 U	10 U	20 U	12	10 U	640	160	630	210	10 U	360	28	10 U	270
	1/9/03		2.5 U	5 U	5 U	10 U	9.6	5 U	390	100	290	100	2.5 U	150	12	5 U	160
		K	2.5 U	5 U	5 U	10 U	9	5 U	390	100	290	110	2.5 U	150	11	5 U	170
	4/25/03		2.5 U	5 U	5 U	10 U	6	5.6	240	55	180	180	2.5 U	80	12	5 U	25 U
		K	2.5 U	5 U	5 U	10 U	5.5	5.8	250	58	200	170	2.5 U	86	13	5 U	25 U
	7/31/03		5 U	10 U	10 U	20 U	10 U	10 U	480	120	370	330	5 U	160	20	10 U	84
		K	2.5 U	5 U	5 U	10 U	9	7.2	460	120	390	310	2.5 U	170	22	5 U	81

Table 6-1
Phibro-Tech, Inc.
Groundwater Analytical Results - July 2003
Volatile Organic Compounds (VOCs) Analytical Summary

Well Number	Sample Date	Sample Type	Benzene (1)	Toluene (150)	Ethyl-benzene (700)	Xylenes, Total (1,750)	PCE (5)	1,1,1-TCA (200)	TCE (5)	1,1-DCE (6)	1,1-DCA (5)	1,2-DCA (0.5)	CCl4 (0.5)	CFM (100)	cis-1,2-DCE (6)	trans-1,2-DCE (10)	MCL (5)
MW-11	7/26/02		50 U	50 U	50 U	100 U	50 U	50 U	1500	110	410	50 U	50 U	50 U	58	50 U	50 U
	10/24/02		10 U	10 U	390	20 U	10 U	10 U	700	59	140	130	10 U	24	39	10 U	10 U
	12/30/02		1.4 J	20 U	31	40 U	3.4 J	20 U	550	42	110	100	20 U	15 J	22	20 U	20 U
	4/25/03		2.5 U	5 U	5 U	10 U	5 U	5 U	410	40	120	16	2.5 U	13	29	5 U	25 U
	7/31/03		5 U	10 U	210	94	10 U	10 U	1100	96	370	5.4	5 U	50	44	10 U	50 U
MW-14S	7/25/02		25 U	25 U	860	50 U	25 U	25 U	150	39	43	25 U	25 U	25 U	25 U	25 U	25 U
	10/23/02		5 U	5 U	14	10 U	5 U	5 U	360	71	85	6.9	15	28	9	5 U	5 U
	12/30/02		1.2 J	10 U	130	110 U	1.7 J	10 U	190	35	50	56	7.2 J	13	12	10 U	2.7 J
	4/24/03		2.6	4 U	240	15.4	4 U	4 U	160	37	47	36	6.6	12	10	4 U	20 U
	7/30/03		1.4	1 U	49	2 U	3.3	1 U	200	59	79	19	11	26	8.5	1 U	5 U
MW-15D	7/25/02		1 U	1 U	1 U	2 U	1.9	1 U	3.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	10/22/02		1.2	1 U	3.8	4.9	2.4	1 U	6.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	1/8/03		1.3	1 U	7.7	2.3	2.4	1 U	11	1 U	1	2	0.52	1.1	1 U	1 U	5 U
	4/23/03		2.3	1 U	1 U	2 U	2	1 U	7.6	1 U	1 U	1.3	0.5 U	1 U	1 U	1 U	5 U
	7/30/03		1.4	1 U	1 U	2 U	4.1	1 U	8.1	1 U	1 U	0.77	0.5 U	1 U	1 U	1 U	5 U
MW-15S	7/24/02		1 U	1 U	1 U	2 U	1.2	1 U	4.4	1 U	1 U	3	1.3	2.8	1 U	1 U	1 U
	10/23/02		1 U	1 U	1 U	2 U	1.5	1 U	13	1.3	2.5	2.8	3.6	9.7	1 U	1 U	1 U
	1/8/03		0.53	1 U	6	2 U	1.3	1 U	22	2.9	6.3	14	0.5 U	1 U	6.9	1 U	5 U
	4/24/03		0.5	1 U	1 U	2 U	1 U	1 U	3.2	1 U	1 U	12	0.5 U	2	1 U	1 U	5 U
	7/30/03		0.5 U	1 U	1 U	2 U	1.2	1 U	5.1	1 U	1 U	13	4.5	21	1 U	1 U	5 U
MW-16	7/26/02		5 U	5 U	5 U	10 U	5 U	5 U	47	22	220	35	5 U	5 U	27	5.5	5 U
	10/24/02		2 U	2 U	2 U	4 U	2 U	2 U	25	16	120	13	2 U	2 U	20	4.2	2 U
	1/9/03		0.5 U	1 U	1 U	2 U	1.8	1 U	20	11	75	8.1	0.5 U	1 U	14	2.7	5 U
	4/24/03		0.5 U	1 U	8.3	2 U	2.2	1 U	20	7	63	14	0.5 U	1 U	6.1	1.3	5 U
	7/31/03		0.51	1 U	1.5	2 U	2.3	1 U	38	19	180	25	0.5 U	1	29	6.1	5 U

Table 6-1
Phibro-Tech, Inc.
Groundwater Analytical Results - July 2003
Volatile Organic Compounds (VOCs) Analytical Summary

Well Number	Sample Date	Sample Type	Benzene (1)	Toluene (150)	Ethyl-benzene (700)	Xylenes, Total (1,750)	PCE (5)	1,1,1-TCA (200)	TCE (5)	1,1-DCE (6)	1,1-DCA (5)	1,2-DCA (0.5)	CCl4 (0.5)	CFM (100)	cis-1,2-DCE (6)	trans-1,2-DCE (10)	MCL (5)

Notes:

PCE = Tetrachloroethene; TCE = Trichloroethene; TCA = Trichloroethane; DCE = Dichloroethene; DCA = Dichloroethane; CFM = Chloroform; MCL = Methylene chloride; and CCl4 = Carbon tetrachloride.

California Maximum Contaminant Levels (MCLs) are shown in parenthesis. MCL shown for chloroform is the sum of trihalomethane isomers

Samples analyzed by EPA Method 8260.
All concentrations are reported in micrograms per liter (ug/L).
Only compounds detected in one or more samples are listed.
E = Indicates that the reported concentration is above the calibration range for the instrument. Concentration reported is an estimate only.
J = Indicates detected concentration is below analytical calibration curve, and is below the official reporting limit. Concentration reported is an estimate only.
RL-3 = Reporting Limit elevated due to interference from other analytes.
U = Not detected at a concentration greater than the reporting limit shown.

Sample Type:
K = Split sample

Table 6-2
Phibro-Tech, Inc.
Groundwater Analytical Results - July 2003
Metals and pH Analytical Summary

Well Number	Sample Date	Sample Type	pH	Cadmium (0.005)	Chromium (0.05)	Cr (+6)	Copper (1.3)
MW-01D	7/24/02		7.5	0.005 U	0.01 U	0.005	0.025 U
	10/22/02		7.4	0.005 U	0.01 U	0.001 U	0.025 U
	1/8/03		7.29	0.005 U	0.0015 J	0.001 U	0.022
	4/23/03		7.14	0.005 U	0.005 U	0.001 U	0.01 U
	7/30/03		7.55	0.005 U	0.024	0.001 U	0.013
MW-01S	7/24/02		7	0.005 U	0.01 U	0.0018	0.025 U
	10/22/02		6.9	0.005 U	0.01 U	0.001 U	0.025 U
	1/8/03		6.78	0.005 U	0.0024 J	0.001 U	0.01 U
	4/23/03		6.86	0.01 RL-3	0.01 RL-3	0.001 U	0.02 RL-3
	7/29/03		6.76	0.01 RL-3,	0.01 RL-3,	0.001 U	0.03 RL-3
MW-03	7/24/02		7.1	0.005 U	0.01 U	0.001 U	0.025 U
	10/22/02		7.2	0.005 U	0.01 U	0.001 U	0.025 U
	1/8/03		6.98	0.005 U	0.005 U	0.001 U	0.01
	4/23/03		7.08	0.005 U	0.005 U	0.001 U	0.01 U
	7/29/03		7.09	0.005 U	0.005 U	0.001 U	0.01 U
MW-04	7/25/02		6.7	0.5	32.7	25.1	0.12 U
		K	6.7	0.49	29.8	30.5	0.12 U
	10/23/02		6.7	0.6	29	32.6	0.12 U
		K	6.7	0.63	30.6	30.3	0.12 U
	12/30/02		7.39	0.26	9.2	11	0.02 RL-3
		K	6.71	0.25	9.4	9.4	0.02 RL-3
	4/25/03		6.92	0.29	16	14	0.02 RL-3
		K	6.99	0.29	16	20	0.02 RL-3
	7/30/03		6.88	0.41	30	29	0.03 RL-1,
		K	6.83	0.47	37	33	0.05 RL-1,
MW-04A	7/25/02		7.6	0.005 U	0.01 U	0.0062	0.025 U
	10/23/02		7.3	0.005 U	0.01 U	0.0061	0.025 U
	1/9/03		7.29	0.005 U	0.0089	0.0058	0.023
	4/24/03		7.17	0.005 U	0.0077	0.0055	0.035
	7/30/03		6.92	0.005 U	0.005 U	0.0029	0.024
MW-06B	7/25/02		7.4	0.005 U	0.01 U	0.0036	0.025 U
	10/23/02		7.3	0.005 U	0.01 U	0.001 U	0.025 U
	1/9/03		7.18	0.005 U	0.0097	0.0068	0.01 U
	4/24/03		7.43	0.005 U	0.0078	0.0073	0.01 U
	7/30/03		7.73	0.005 U	0.005 U	0.0043 O-09	0.01
MW-06D	7/25/02		7.4	0.005 U	0.01 U	0.0015	0.025 U
	10/23/02		7.4	0.005 U	0.01 U	0.0025	0.043
	1/8/03		7.41	0.005 U	0.002 J	0.0018	0.012
	4/24/03		7.23	0.005 U	0.005 U	0.0021	0.01 U

Table 6-2
Phibro-Tech, Inc.
Groundwater Analytical Results - July 2003
Metals and pH Analytical Summary

Well Number	Sample Date	Sample Type	pH	Cadmium (0.005)	Chromium (0.05)	Cr (+6)	Copper (1.3)
MW-06D	7/30/03		7.28	0.005 U	0.005 U	0.0023 O-09	0.014
MW-07	7/26/02		6.9	0.005 U	0.01 U	0.001 U	0.025 U
	10/23/02		7.5	0.005 U	0.01 U	0.001 U	0.025 U
	12/30/02		7.45	0.005 U	0.005 U	0.001 U	0.01 U
	4/24/03		6.97	0.005 U	0.005 U	0.001 U	0.032
	7/30/03		6.75	0.005 U	0.005 U	0.00038 O-09	0.01 U
MW-09	7/26/02		6.7	0.005 U	9.1	10	0.025 U
		K	6.7	0.005 U	9.3	10.2	0.025 U
	10/24/02		6.5	0.005 U	4.5	4.3	0.025 U
		K	6.5	0.005 U	4.8	4.4	0.025 U
	1/9/03		6.63	0.005 U	9.6	9.5	0.01 U
		K	6.65	0.005 U	9.7	9.5	0.01 U
	4/25/03		7.24	0.005 U	0.27	0.25	0.01 U
		K	6.83	0.005 U	0.28	0.26	0.01 U
	7/31/03		6.69	0.005 U	2.2	2.1	0.01 U
		K	6.66	0.005 U	2.2	2.2	0.01 U
MW-11	7/26/02		6.7	0.005 U	0.01 U	0.001 U	0.025 U
	10/24/02		7.1	0.005 U	0.01 U	0.001 U	0.025 U
	12/30/02		7.03	0.005 U	0.005 U	0.001 U	0.01 U
	4/25/03		7.29	0.005 U	0.005 U	0.001 U	0.01 U
	7/31/03		6.73	0.005 U	0.005 U	0.0012	0.01 U
MW-14S	7/25/02		7.3	0.005 U	0.065	0.017	0.031
	10/23/02		7	0.0074	0.42	0.42	0.04
	12/30/02		7.09	0.005 U	0.014	0.0042	0.042
	4/24/03		7.24	0.005 U	0.02	0.001 U	0.029
	7/30/03		6.86	0.0066	0.15	0.12	0.052
MW-15D	7/25/02		7.6	0.005 U	0.01 U	0.0047	0.025 U
	10/22/02		7.5	0.005 U	0.01 U	0.0016	0.025 U
	1/8/03		7.52	0.005 U	0.0031 J	0.001 U	0.017
	4/23/03		7.48	0.005 U	0.005 U	0.001 U	0.01 U
	7/30/03		7.26	0.005 U	0.005 U	0.0003 O-09,	0.01 U
MW-15S	7/24/02		7.4	0.005 U	0.01 U	0.006	0.025 U
	10/23/02		7.4	0.005 U	0.01 U	0.0035	0.025 U
	1/8/03		7.22	0.0053	0.0042 J	0.0042	0.01 U
	4/24/03		7.19	0.005 U	0.0064	0.0059	0.01 U
	7/30/03		7.02	0.005 U	0.005 U	0.0022 O-09	0.01 U
MW-16	7/26/02		7	0.005 U	0.01 U	0.001 U	0.025 U
	10/24/02		6.9	0.005 U	0.01 U	0.0051	0.025 U
	1/9/03		6.84	0.005 U	0.0057	0.0043	0.01

Table 6-2
Phibro-Tech, Inc.
Groundwater Analytical Results - July 2003
Metals and pH Analytical Summary

Well Number	Sample Date	Sample Type	pH	Cadmium (0.005)	Chromium (0.05)	Cr (+6)	Copper (1.3)
MW-16	4/24/03		7.12	0.005 U	0.0051	0.0041	0.01 U
	7/31/03		6.82	0.005 U	0.005 U	0.004	0.01 U

Notes:
California Maximum Contaminant Levels (MCLs) are shown in parenthesis. Secondary MCL is shown for copper.

All concentrations are reported in milligrams per liter (mg/L).
Metals analyzed by EPA Method 6010B, except for Cr (+6), which was analyzed by EPA Method 7199.
pH analyzed by EPA Method 9040B.
U = Not detected at a concentration greater than the reporting limit shownE = Indicates that the reported concentration is above the calibration range for the instrument. Concentration reported is an estimate only.
J = Indicates detected concentration is below analytical calibration curve, and is below the official reporting limit. Concentration reported is an estimate only.
RL-3 = Reporting Limit elevated due to interference from other analytes.
O-09 = This sample was received with the EPA recommended holding time expired.
Analyte not analyzed or not reported if left blank.

Sample Type:
K = Split sample

Section 7
Statistical Evaluation

The following sections contain a statistical treatment of the monitoring data designed to determine if on-site wells have been impacted by metals, BTEX compounds or TCE. The statistical evaluation was performed using the Compliance and Remediation Statistics (CARStat) software. A detailed explanation of the software and statistical methods used is presented in Gibbons (1994). The statistical methods used are in compliance with applicable California Code of Regulations (Title 22, Division 4.5, Chapter 14, Article 6, Section 66264.97 [General Water Quality Monitoring and System Requirements]).

7.1 Determination of Background Prediction Interval

Overview

The prediction interval is a method that is typically used in compliance monitoring to compare on-site or downgradient monitoring well analytical data to upgradient or background monitoring well data. The prediction interval represents the range for which the next measurement will be contained at a specified confidence level. For instance, an upper prediction limit (UPL) with 95 percent coverage and a 95 percent confidence level represents a value, which, with 95 percent confidence, any new measurement in the background well will be exceeded, less than 5 percent of the time.

For this evaluation, CDM has calculated UPLs for the background well (MW-1S) and compared this value to each individual on-site analytical result using a confidence level and coverage of 95 percent. When on-site wells exceed the background UPL consistently, it suggests that a significant difference from background may exist.

Results

The statistical evaluation results are presented in Appendix F. Appendix F-1 includes all of the tabular data output from the CARStat evaluation. Table 1 lists the background data from monitoring well MW-1S that were used to calculate the UPLs. Table 2 lists the current on-site data (from the July 2003 monitoring event). The frequencies of detection for each parameter in the background well and onsite wells is provided in Table 3. Table 4 lists the background well distribution results, based on the Shapiro-Wilk test for normality. In all cases except for TCE, the low detection frequencies required the use of the nonparametric prediction limit (a normal prediction limit was used for TCE). Table 5 presents background well summary statistics, including the prediction limit and associated confidence level. A UPL calculation sheet for each compound is presented in Appendix F-2.

7.2 Comparison of Background and On-site Wells

Overview

The on-site monitoring well data were compared to the UPL for each compound. All historical and current on-site analytical data are compared to the background UPL in verification resampling mode. Verification resampling means that the test fails if a compound in on-site monitoring wells exceeds background if it is higher than the UPL for 2 consecutive monitoring events. Constituent-location combinations that failed the current statistical evaluation or need to be verified are highlighted by the statistical program.

Results

The results of the UPL tests are included in Appendixes F-1 through F-3. Table 6 (Appendix F-1 lists the constituent-location combinations that failed the current evaluation). Appendix F-3 shows concentration versus time charts for each constituent and on-site well location. All data are shown on the concentration versus time charts and the exceedances are flagged on the individual charts.

A summary of the statistical evaluation is presented in Table 7-1. Exceedances were observed for MW-3 (TCE), MW-4 (benzene, hexavalent chromium, total chromium, cadmium, and TCE), MW-4A (benzene and TCE), MW-7 (TCE), MW-9 (hexavalent chromium, total chromium, and TCE), MW-11 (ethylbenzene, total xylenes, and TCE), MW-14S (hexavalent chromium, total chromium, benzene, ethylbenzene, and TCE), MW-15D (benzene), and MW-16 (benzene and TCE). These results are very similar to those presented in previous monitoring reports. However, only those compounds actually detected above the prediction limits were identified as an exceedance. The compounds with detection limits (for non-detects) that were higher than the background UPL were not flagged as an exceedance.

Table 7-1 Comparison of Background and On-Site Wells Quarterly Data: January 1989 to July 2003 at Phibro-Tech, Inc.

Parameter	MW-1D	MW-3	MW-4	MW-4A	MW-6B	MW-7	MW-9	MW-11	MW-14S	MW-15S	MW-15D	MW-16
Metals (mg/L)												
Hexavalent chromium [1]			*				*		*			
Total chromium [1]	*		*				*		*			
Cadmium [1]			*									
Copper [1]												
Aromatics (μg/L)												
Benzene [1]	*		*	*					*		*	*
Toluene [1]												
Ethylbenzene [1]								*	*			
Total xylenes [1]								*				
Halocarbons (μg/L)												
Trichloroethene [2]		*	*	*		*	*	*	*			*

[1] Background to onsite using nonparametric prediction limit

[2] Background to onsite comparison using the normal prediction limit

* Significantly increased over background

No exceedance observed

Section 8
Assessment of Quarterly Groundwater Monitoring Program Status

In the October 1990 groundwater monitoring report, changes in the quarterly groundwater-sampling program were proposed. These changes were first implemented during the April 1991 sampling event and included reducing the number of wells sampled and parameters analyzed in each well. The current groundwater-sampling program will only be used as an interim program, until the Site Conceptual Model has been completed and the draft sampling and analysis plan finalized. Based on approximately 18 years of quarterly monitoring at the site, off-site migration of the soluble metals plume has not been observed.

The analytical parameters for the July 2003 quarterly monitoring were as follows:

Wells	Volatile Organic Compounds (EPA 8260)	Chromium, Cadmium, Copper	Hexavalent Chromium	pH
MW-01S, MW-01D	X, X	X, X	X, X	X, X
MW-03, MW-04A	X, X	X, X	X, X	X, X
MW-11, MW-06B	X, X	X, X	X, X	X, X
MW-06D, MW-07	X, X	X, X	X, X	X, X
MW-09, MW-04	X, X	X, X	X, X	X, X
MW-14S, MW-15S	X, X	X, X	X, X	X, X
MW-15D, MW-16	X, X	X, X	X, X	X, X

Beginning with the January 1997 sampling event, EPA Method 8010/8020 was replaced with EPA Method 8260. This change was requested by the analytical laboratory, which no longer performs 8010/8020 analysis. Methyl tertiary butyl ether (MTBE) analysis was performed once, in January 1997. Since there were no detections of MTBE in any of the groundwater samples, this analysis was discontinued. Starting with the October 2000 sampling event, the analytical method for hexavalent chromium was changed from EPA Method 7196 to 7199. DTSC requested that six selected wells be analyzed for 1,4-Dioxane in July 2001 and October 2001. After these two events, 1,4-Dioxane analysis was discontinued. In late 2002, DTSC requested that PTI perform Appendix IX sampling and analysis on an annual basis from selected wells. PTI subsequently sampled the four proposed Pond 1 monitoring wells (MW-04, MW-07, MW-11, and MW-14S) for the Appendix IX analytical suite on December 30, 2002. Appendix IX results were presented in the October 2002 Quarterly Sampling Report and 2002 Annual Groundwater Monitoring Report submitted February 28, 2003.

Statistical analysis was historically conducted annually. Beginning with the October 1993 sampling event, statistical analysis has been performed on a quarterly basis, as requested by DTSC.

During 2000, three sampling events were performed (January, April and October). Sampling and reporting frequency was changed from quarterly to semi-annual after the April 2000 sampling event. However, quarterly groundwater monitoring resumed in April 2001 at the request of DTSC. The next quarterly event will occur in October 2003. During the next event, 14 on-site wells will be sampled and analyzed for volatile organics using EPA Method 8260, chromium, cadmium, copper, hexavalent chromium, and pH. The water levels at the 14 wells sampled, in addition to the remaining unsampled wells (with the exception of MW-02), will also be measured.

Samples from wells MW-04, MW-07, MW-11, and MW-14S will be analyzed for Appendix IV Parameters

Section 9
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Appendix A
General Analytical Detection Limits

TABLE A-1

PHIBRO-TECH, INC.

HEAVY METALS AND INORGANICS ANALYSIS

Typical Detection Limits

Method	Parameter	Detection Limit	Units
EPA 6010-L	Antimony	0.06	mg/L
EPA 6010-L	Barium	0.01	mg/L
EPA 6010-L	Beryllium	0.002	mg/L
EPA 6010-L	Cadmium	0.005	mg/L
EPA 6010-L	Chromium	0.01	mg/L
EPA 6010-L	Cobalt	0.01	mg/L
EPA 6010-L	Copper	0.02	mg/L
EPA 6010-L	Lead	0.05	mg/L
EPA 6010-L	Molybdenum	0.02	mg/L
EPA 6010-L	Nickel	0.04	mg/L
EPA 6010-L	Silver	0.01	mg/L
EPA 6010-L	Thallium	0.5	mg/L
EPA 6010-L	Tin	0.1	mg/L
EPA 6010-L	Vanadium	0.01	mg/L
EPA 6010-L	Zinc	0.02	mg/L
EPA 7199	Chromium, Hexavalent	0.001	mg/L
EPA 7061-L	Arsenic	0.005	mg/L
EPA 9012	Cyanide, Total	0.01	mg/L
EPA 7470	Mercury	0.001	mg/L
EPA 300.0	Chloride	5	mg/L
EPA 300.0	Nitrate	0.2	mg/L
EPA 7741-L	Selenium	0.1	mg/L
EPA 376.2	Sulfide, as Sulfur	1.2	mg/L

TABLE A-2

PHIBRO-TECH, INC.

VOLATILE ORGANIC COMPOUNDS

Typical Detection Limits

Method Number	Analytical Parameter	Detection Limit	Units
EPA 8260	Benzene	0.5	µg/L
EPA 8260	Toluene	1.0	µg/L
EPA 8260	Ethylbenzene	1.0	µg/L
EPA 8260	Xylenes, Total	1.0	µg/L
EPA 8260	Chloromethane	1.0	µg/L
EPA 8260	Bromomethane	1.0	µg/L
EPA 8260	Vinyl Chloride	1.0	µg/L
EPA 8260	Chloroethane	1.0	µg/L
EPA 8260	Methylene Chloride	1.0	µg/L
EPA 8260	Trichlorofluoromethane	1.0	µg/L
EPA 8260	1,1-Dichloroethene	1.0	µg/L
EPA 8260	1,1-Dichloroethane	1.0	µg/L
EPA 8260	trans-1,2-Dichloroethene	1.0	µg/L
EPA 8260	Chloroform	1.0	µg/L
EPA 8260	1,2-Dichloroethane	1.0	µg/L
EPA 8260	1,1,1-Trichloroethane	1.0	µg/L
EPA 8260	Carbon Tetrachloride	1.0	µg/L
EPA 8260	Bromodichloromethane	1.0	µg/L
EPA 8260	1,2-Dichloropropane	1.0	µg/L
EPA 8260	trans-1,3-Dichloropropene	1.0	µg/L
EPA 8260	Trichloroethene	1.0	µg/L
EPA 8260	Dibromochloromethane	1.0	µg/L
EPA 8260	1,1,2-Trichloroethane	1.0	µg/L
EPA 8260	cis-1,3-Dichloropropene	1.0	µg/L
EPA 8260	2-Chloroethylvinyl ether	1.0	µg/L
EPA 8260	Bromoform	1.0	µg/L
EPA 8260	Tetrachloroethene	1.0	µg/L
EPA 8260	1,1,2,2-Tetrachloroethane	1.0	µg/L
EPA 8260	Chlorobenzene	1.0	µg/L
EPA 8260	1,2-Dichlorobenzene	1.0	µg/L
EPA 8260	1,3-Dichlorobenzene	1.0	µg/L
EPA 8260	1,4-Dichlorobenzene	1.0	µg/L

Appendix B
Historical Sampling Results

CDM

Shallow Wells
PHIBRO-TECH, INC.
Historical Results

						PURGEABLE				
		METALS				AROMATICS				HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
MW - 1S										
Jan-89	96.74	ND < 0.01	0.014	ND < 0.003	ND < 0.009	ND < 0.01	ND < 0.0	ND < 0.0	ND < 0.0	19
Apr-89	100.45	ND < 0.05	0.1	ND < 0.01	ND < 0.02	ND < 0.7	ND < 1.0	ND < 1.0	3.0	23
Jul-89	99.00	ND < 0.05	0.06	0.01	0.03	ND < 0.7	ND < 1.0	ND < 1.0	ND < 1.0	13
Oct-89	96.76	ND < 0.05	ND < 0.02	ND < 0.01	ND < 0.05	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	12
Jan-90	97.73	ND < 0.02	ND < 0.01	ND < 0.01	ND < 0.02	ND < 0.5	ND < 0.5	ND < 0.5	ND < 1.0	16
Apr-90	99.30	ND < 0.02	0.02	ND < 0.0050	0.02	ND < 2.5	ND < 2.5	ND < 2.5	ND < 5.0	20
Jul-90	100.83	ND < 0.02	ND < 0.01	ND < 0.01	0.03	ND < 0.5	ND < 0.5	ND < 0.5	ND < 1.0	18
Oct-90	99.81	ND < 0.02	ND < 0.01	ND < 0.0050	0.023	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	18
Jan-91	99.19	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	26
Apr-91	101.95	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	22
Jul-91	102.94	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	17
Oct-91	102.33	ND < 0.02	0.01	ND < 0.0050	0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	14
Jan-92	104.60	0.10	0.0081	ND < 0.0027	0.04	ND < 1	1.5	1.2	4.3	13
Apr-92	107.28	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	9.9
Jul-92	107.87	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	10
Oct-92	105.53	ND < 0.02	ND < 0.01	ND < 0.0050	0.035	0.95	ND < 1.0	ND < 1.0	ND < 1.0	11
Jan-93	109.82	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	2.2	1.3	5.6	9.2
Apr-93	116.01	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	5.7
Jul-93	116.59	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	1.7	1.7	4.0	11
Oct-93	116.50	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	2.2	4.3	14
Jan-94	116.60	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	9.3
Apr-94	117.10	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	14
Jul-94	117.80	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	7.9
Oct-94	112.23	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	5.8	13
Jan-95	113.59	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	5.2
Apr-95	118.78	ND < 0.02	0.0029	ND < 0.01	ND < 0.02	ND < 0.5	ND < 1.0	1.3	1.0	4.4
Jul-95	120.06	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	1.2	3.5	6.1	6.2
Oct-95	116.48	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	1.7	3.9	15
Jan-96	114.84	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	1.7	5.1	8.4
Apr-96	118.03	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	3.4	4.9	2.9
Jul-96	117.42	ND < 0.01	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	2.2	3.7	9.7
Oct-96	113.85	ND < 0.01	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	2.1	2.8	18
Jan-97	115.73	ND < 0.02	ND < 0.01	ND < 0.0050	0.022	ND < 0.5	ND < 1.0	ND < 1.0	2.0	6.0
Apr-97	118.21	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	1.4	1.2	15
Jul-97	118.18	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	14
Oct-97	114.82	ND < 0.02	ND < 0.01	ND < 0.0050	0.023	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	12
Jan-98	113.23	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	12
Apr-98	118.16	ND < 0.02	ND < 0.01	ND < 0.0050	0.021	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	14
Jul-98	119.12	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	14
Oct-98	116.57	ND < 0.02	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	7.8
Jan-99	113.94	ND < 0.01	ND < 0.01	ND < 0.0050	ND < 0.02	ND < 0.5	ND < 1.0	2.0	ND < 1.0	10
Apr-99	114.01	ND < 0.025	ND < 0.01	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	7.2
Jul-99	113.62	ND < 0.020	ND < 0.010	ND < 0.0050	0.052	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	9.1
Oct-99	106.70	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	9.1
Jan-00	102.73	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	9.9
Apr-00	108.83	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	16
Oct-00	109.09	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	8.9
Apr-01	110.83	ND < 0.0020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	13
MW - 3										
Jan-89	95.02	ND < 0.01	0.014	0.003	ND < 0.009	7.4	17.0	4900.0	1500.0	74
Apr-89	99.29	ND < 0.5	0.07	ND < 0.01	ND < 0.02	ND < 50	ND < 50.0	1200.0	60.0	110
Jul-89	98.21	ND < 0.5	0.06	ND < 0.01	ND < 0.02	ND < 7	ND < 10.0	ND < 10.0	ND < 10.0	120
Oct-89	94.75	ND < 0.5	ND < 0.02	ND < 0.01	ND < 0.05	ND < 50	ND < 100.0	1600.0	150.0	ND < 100
Jan-90	95.98	ND < 0.02	ND < 0.01	ND < 0.01	ND < 0.02	ND < 5	ND < 5.0	110.0	ND < 10.0	65
Apr-90	97.72	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 50	ND < 50.0	2100.0	720.0	74
Jul-90	99.27	ND < 0.02	ND < 0.01	ND < 0.01	ND < 0.02	ND < 5	ND < 5.0	ND < 5.0	ND < 10.0	130

Shallow Wells
PHIBRO-TECH, INC.
Historical Results

		METALS				PURGEABLE AROMATICS				PURGEABLE HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
Oct-90	97.29	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	9	2.0	ND < 1.0	ND < 1.0	130
Jan-91	97.69	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	38
Apr-91	99.81	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	27
Jul-91	101.63	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	28
Oct-91	100.99	ND < 0.02	ND < 0.01	ND < 0.005	0.03	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	71
Jan-92	103.44	ND < 0.5	0.0081	ND < 0.0027	0.02	ND < 1	ND < 1.0	ND < 1.0	4.0	76
Apr-92	106.04	ND < 0.02	ND < 0.02	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 5.0	25
Jul-92	106.61	ND < 0.02	ND < 0.02	ND < 0.005	0.13	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	76
Oct-92	103.93	ND < 0.02	ND < 0.02	ND < 0.005	0.038	0.52	ND < 1.0	ND < 1.0	ND < 1.0	130
Jan-93	107.28	ND < 0.02	ND < 0.01	ND < 0.005	0.096	ND < 2.5	ND < 5.0	ND < 5.0	ND < 5.0	84
Apr-93	115.17	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	12
Jul-93	115.92	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	3.3	2.6	5.9	16
Oct-93	115.67	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.6	4.8	17
Jan-94	115.59	ND<0.02/0.4**	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	10
Apr-94	116.33	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	15
Jul-94	116.91	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	26
Oct-94	110.85	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	1.2	3.5	1.5	12.0	76
Jan-95	111.83	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	72
Apr-95	117.83	ND < 0.02	0.0023	ND < 0.001	ND < 0.02	ND < 0.5	ND < 1.0	1.3	ND < 1.0	57
Jul-95	119.20	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	2.0	5.2	8.8	9.5
Oct-95	115.45	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	1.7	3.3	30
Jan-96	113.41	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	5.1	26
Apr-96	116.73	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.6	3.6	46
Jul-96	116.33	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.8	9.0	12.0	17
Oct-96	112.45	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	5.4	6.2	21
Jan-97	114.19	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	2.6	1.1	4.2	28
Apr-97	117.13	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	4.3	2.1	3.0	13
Jul-97	117.18	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.5	3.7	13
Oct-97	113.60	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	0.57	ND < 1.0	1.7	1.2	24
Jan-98	111.68	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	1.3	ND < 1.0	25
Apr-98	116.82	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	18
Jul-98	118.02	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	25
Oct-98	115.40	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	24
Jan-99	112.48	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.3	ND < 1.0	26
Apr-99	112.49	ND < 0.025	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1.0	ND < 1.0	1.1	ND < 2.0	21
Jul-99	112.31	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	1.3	ND < 1.0	43
Oct-99	104.42	ND < 0.010	0.017	ND < 0.0050	ND < 0.025	ND < 5.0	ND < 5.0	200	ND < 10	150
Jan-00	100.50	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 2.5	ND < 2.5	54	70	170
Apr-00	107.20	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 2.5	ND < 2.5	65	2.5	170
Oct-00	107.46	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	2	ND < 1.0	43
Apr-01	109.45	0.00069 J	0.017	ND < 0.0050	ND < 0.025	ND <2.0	ND < 2.0	12	3.1	150

** Hexavalent chromium sample or result for MW03 likely switched with MW30 (duplicate of MW04).

MW - 4

Jan-89	95.21	33.0	400.0	0.028	ND < 0.009	ND < 0.5	10.0	15.0	29.0	120
Apr-89	99.19	43.0	100.0	0.05	0.02	ND < 5	23.0	15.0	50.0	280
Jul-89	98.19	120.0	98.0	0.08	0.06	ND < 14	ND < 20.0	140.0	40.0	290
Oct-89	94.92	110.0	120.0	0.07	ND < 0.05	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	250
Jan-90	95.87	109.0	95.1	0.12	ND < 0.02	ND < 12	ND < 12.0	ND < 12.0	ND < 25.0	220
Apr-90	97.50	81.7	80.7	0.13	0.02	ND < 10	ND < 10.0	ND < 10.0	ND < 20.0	280
Jul-90	99.20	100.0	101.0	0.35	ND < 0.02	ND < 50	ND < 50.0	1600.0	170.0	320
Oct-90	98.33	58.9	48.4	0.23	0.022	ND < 0.5	17.0	230.0	650.0	250
Jan-91	97.68	49.4	65.3	0.26	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	1200.0	180
Apr-91	100.50	23.8	18.4	0.076	ND < 0.02	ND < 0.5	ND < 1.0	730.0	ND < 1.0	170
Jul-91	101.47	39.1	78.5	0.61	ND < 0.02	ND < 0.5	16000.0	6700.0	18000	190
Oct-91	100.91	42.0	40.8	0.21	ND < 0.01	ND < 0.5	6900.0	4100.0	10000	ND < 400
Jan-92	103.33	41.0	34.0	0.47	0.045	ND < 250	18,000	10,000	17,200	ND < 250
Apr-92	105.94	32.2	29.2	0.84	0.053	6.7	7.2	960.0	1010.0	280
Jul-92	106.5	79.9	59.7	0.86	ND < 0.02	ND < 5	ND < 10.0	200.0	280.0	280
Oct-92	103.92	21.6	27.1	0.32	ND < 0.02	71	ND < 10.0	1300.0	230.0	230

Shallow Wells
PHIBRO-TECH, INC.
Historical Results

		METALS				PURGEABLE AROMATICS				PURGEABLE HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
Jan-93	107.13	16.4	27.4	0.28	ND < 0.02	ND < 130	10000.0	10000	19000	ND < 250
Apr-93	115	1.8	2.2	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	88.0	13.0	25
Jul-93	115.52	21.0	23.2	0.2	0.056	0.6	2.0	1.8	11.0	100
Oct-93	115.76	* 35.5/99.2	80.3	0.71	ND < 0.2	1.3	ND < 1.0	ND < 1.0	40.0	290
Jan-94	115.42	0.36	36.0	0.23	ND < 0.02	0.81	ND < 1.0	8.3	14.0	130
Apr-94	116.20	26.9	26.4	0.33	ND < 0.02	ND < 0.5	ND < 1.0	4.0	6.5	190
Jul-94	116.76	59.0	41.4	0.20	0.038	0.58	ND < 1.0	ND < 1.0	4.2	340
Oct-94	110.86	60.7	52.8	0.45	ND < 0.02	ND < 5	ND < 10.0	270.0	39.0	390
Jan-95	111.88	28.8	34.3	0.13	0.026	ND < 5	ND < 10.0	350.0	130.0	190
Apr-95	117.69	8.6	9.1	0.21	0.052	ND < 100	1600.0	1700.0	2900.0	67
Jul-95	119.05	* 28.1/20.8	29.6	0.27	*.10/ND < 0.02	ND < 10	* 270/410	* 260/380	* 890/1300	90
Oct-95	115.35	**30.8	28.9	0.38	ND < 0.02	ND < 2.5	ND < 5.0	75.0	21.0	150
Jan-96	113.37	25.7	32.4	0.19	ND < 0.02	ND < 50	100.0	2100.0	1400.0	160
Apr-96	116.65	* 32.2/24.6	38.0	0.60	ND < 0.02	ND < 25	680.0	1300.0	1400.0	130
Jul-96	116.17	50	58.9	0.28	ND < 0.02	ND < 50	ND < 100.0	1000.0	270.0	140
Oct-96	112.38	63.8	75.7	0.46	ND < 0.04	ND < 50	380.0	1100.0	1900.0	310
Jan-97	114.07	*45.9/34.9	34.5	0.54	0.02	ND < 6.2	ND < 12.0	1100.0	ND < 12.0	330
Apr-97	116.96	27.3	18.8	0.53	ND < 0.02	ND < 12	35.0	1300.0	620.0	150
Jul-97	117.04	36.0	35.2	0.62	ND < 0.02	ND < 5	ND < 10.0	810.0	110.0	150
Oct-97	113.46	73.8	85.3	0.64	ND < 0.08	ND < 5	ND < 10.0	460.0	31.0	230
Jan-98	111.66	39.2	44.0	0.53	ND < 0.02	ND < 5	ND < 10.0	530.0	420.0	180
Apr-98	116.69	7.2	14.1	0.43	ND < 0.02	2.9	ND < 5.0	320.0	ND < 5.0	92
Jul-98	117.95	16.3	18.9	0.32	ND < 0.02	ND < 12	ND < 25.0	1200.0	300.0	120
Oct-98	115.31	34.1	36.2	0.44	0.030	ND < 6.2	ND < 12.0	740.0	240.0	120
Jan-99	112.41	78.6	85.2	0.58	ND < 0.04	ND < 5	ND < 10	520.0	31.0	260
Apr-99	112.43	*0.57/4.6	42.8	0.41	ND < 0.05	3.5	ND < 2.5	220	9.9	190
Jul-99	112.33	41.1	49.7	0.42	ND < 0.050	ND < 10	ND < 10	670	67	140
Oct-99	104.49	58.2	105	0.59	ND < 0.075	ND < 5.0	ND < 5.0	92	11	210
Jan-00	100.66	76.3	60.0	0.32	ND < 0.050	5.1	ND < 2.5	ND < 2.5	6.0	160
Apr-00	**107.01**	**32.9**	**39.3**	**0.55**	**ND < 0.050**	**ND < 5.0**	**ND < 5.0**	**46**	**8.6**	**240**
Oct-00	**107.42**	**45.6**	**42.1**	**0.52**	**ND < 0.050**	**ND < 50**	**2500**	**2500**	**ND < 50**	**170**
Apr-01	109.49	11.0	16.8	0.38	ND < 0.025	ND < 50	120	3,100	830	150

* 35.5/99.2 = original sample/duplicate sample (both results presented because duplicate result deviation is >20%)

** Analyzed after holding time had expired.

MW - 6B

Jan-89	95.12	ND < 0.01	ND < 0.014	ND < 0.003	ND < 0.009	ND < 0.01	ND < 0.0	ND < 0.0	ND < 0.0	57
Apr-89	99.11	ND < 0.05	0.06	ND < 0.01	ND < 0.02	ND < 0.7	ND < 1.0	ND < 1.0	ND < 1.0	37
Jul-89	98.39	ND < 0.05	0.04	ND < 0.01	ND < 0.02	ND < 0.7	ND < 1.0	ND < 1.0	ND < 1.0	29
Oct-89	95.35	ND < 0.05	ND < 0.02	ND < 0.01	ND < 0.05	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	29
Jan-90	96.1	ND < 0.02	ND < 0.01	ND < 0.01	ND < 0.02	ND < 0.5	ND < 0.5	ND < 0.5	ND < 1.0	46
Apr-90	97.76	ND < 0.02	0.02	ND < 0.005	ND < 0.02	ND < 2.5	ND < 2.5	ND < 2.5	ND < 5.0	61
Jul-90	99.28	ND < 0.02	0.02	ND < 0.01	ND < 0.02	ND < 0.5	ND < 0.5	ND < 0.5	ND < 1.0	51
Oct-90	98.45	ND < 0.02	0.012	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	52
Jan-91	97.87	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	59
Apr-92	105.86	ND < 0.02	0.014	ND < 0.005	ND < 0.02	ND < 0.5	ND < 0.5	1.1	0.8	19
Jul-92	106.57	ND < 0.02	0.019	ND < 0.005	0.054	ND < 0.5	ND < 0.5	ND < 1.0	ND < 1.0	10
Oct-92	104.12	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	12.0	2.9	13.0	9.3
Jan-93	107.23	ND < 0.02	0.011	ND < 0.005	0.038	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	6.9
Apr-93	114.64	ND < 0.02	0.014	ND < 0.005	ND < 0.02	ND < 0.5	64.0	26.0	88.0	2.6
Jul-93	115.34	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	2.2	2.0	5.5	2.7
Oct-93	115.46	ND < 0.02	0.011	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	5.9
Jan-94	115.37	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	2.7
Apr-94	116.15	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	2.0
Jul-94	116.67	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.1	ND < 1.0	1.9	2.9
Oct-94	111.13	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.5	ND < 1.0	8.2	1.5
Jan-95	112.19	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 1	110.0	89.0	110.0	8.6
Apr-95	117.42	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.6	9.1	6.2	2.3
Jul-95	118.93	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.1	4.0	5.1	8.8
Oct-95	115.45	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	1.0	2.6

Shallow Wells
PHIBRO-TECH, INC.
Historical Results

		METALS				PURGEABLE AROMATICS				HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
Jan-96	113.47	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 1	28.0	27.0	53.0	14
Apr-96	116.65	ND < 0.02	0.011	ND < 0.005	ND < 0.02	ND < 1	4.2	37.0	50.0	2.9
Jul-96	116.18	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.3	3.5	2.3
Oct-96	112.66	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.0	2.1	2.8	6.1
Jan-97	114.20	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	4.3	4.3	6.4	5.0
Apr-97	116.95	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	3.6	1.7	ND < 1.0	5.2
Jul-97	117.01	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	6.6
Oct-97	113.71	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	6.4
Jan-98	112.06	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	15.0	32.0	39.0	17.0
Apr-98	116.76	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.6	4.2	6.0	7.7
Jul-98	117.95	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	4.3
Oct-98	114.83	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	9.9
Jan-99	112.74	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	5.0	24.0	29.0	17.0
Apr-99	112.56	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1.0	19	42	33.9	31
Jul-99	112.43	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND <1.0	ND <1.0	1.2	ND < 1.0	8.2
Oct-99	105.04	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	4.8	ND < 1.0	12.0
Jan-00	101.26	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND <1.0	ND <1.0	2.0	ND < 1.0	13.0
Apr-00	107.21	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND <1.0	ND <1.0	1.1	ND < 1.0	7.0
Oct-00	107.55	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	9.2
Apr-01	109.63	0.0051	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	5.9
MW - 7										
Jan-89	89.47	ND < 0.01	ND < 0.014	ND < 0.003	ND < 0.009	ND < 0.5	1.4	1.2	3.6	35
Apr-89	98.83	ND < 0.05	0.02	ND < 0.01	ND < 0.02	ND < 0.7	ND < 1.0	ND < 1.0	ND < 1.0	47
Jul-89	97.90	ND < 0.05	0.03	ND < 0.01	ND < 0.05	ND < 0.7	ND < 1.0	ND < 1.0	ND < 1.0	25
Oct-89	94.72	ND < 0.05	ND < 0.02	ND < 0.01	ND < 0.05	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	44
Jan-90	95.58	ND < 0.02	ND < 0.01	ND < 0.01	ND < 0.02	ND < 2.5	ND < 2.5	ND < 2.5	ND < 5.0	39
Apr-90	97.32	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	ND < 2.5	ND < 2.5	ND < 5.0	46
Jul-90	98.85	ND < 0.02	ND < 0.01	ND < 0.01	ND < 0.02	ND < 1	ND < 1.0	ND < 1.0	ND < 2.0	34
Oct-90	98.02	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	19
Jan-91	97.41	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	1.8
Apr-91	100.06	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	30
Jul-91	101.20	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	53
Oct-91	100.62	ND < 0.02	ND < 0.01	ND < 0.005	0.01	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	54
Jan-92	102.90	0.07	ND < 0.0081	ND < 0.0027	0.14	ND < 1	ND < 1.0	ND < 1.0	ND < 1.0	120
Apr-92	105.54	ND < 0.02	0.013	ND < 0.005	0.032	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	55
Jul-92	103.13	ND < 0.02	0.095	ND < 0.005	0.21	ND < 1	ND < 2.0	ND < 2.0	ND < 2.0	53
Oct-92	103.68	ND < 0.02	0.063	ND < 0.005	0.65	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	98
Jan-93	106.82	ND < 0.02	0.033	ND < 0.005	0.19	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	73
Apr-93	114.54	ND < 0.02	0.011	ND < 0.005	ND < 0.02	ND 1.2	ND < 2.5	90.0	5.6	23
Jul-93	115.14	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 5	ND < 10.0	210.0	ND < 10.0	43
Oct-93	115.23	ND < 0.2	ND < 0.01	ND < 0.005	0.02	0.82	ND < 1.0	7.2	ND < 1.0	44
Jan-94	115.08	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	1.4	ND < 1.0	33.0	ND < 1.0	53
Apr-94	115.88	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND< 2.5	ND < 5.0	200.0	ND < 5.0	96
Jul-94	116.44	ND < 0.02	ND < 0.01	ND < 0.005	0.023	0.88	ND < 1.0	7.7	1.2	140
Oct-94	110.69	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	5.1	5.5	98
Jan-95	111.59	ND < 0.02	ND < 0.01	ND < 0.005	0.026	ND < 0.5	7.0	8.7	10.0	170
Apr-95	117.24	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	1.3	ND < 1.0	26
Jul-95	118.63	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.1	3.4	53
Oct-95	115.08	ND < 0.02	0.014	ND < 0.005	0.079	0.74	ND < 1.0	3.8	1.4	98
Jan-96	112.98	ND < 0.02	ND < 0.01	ND < 0.005	0.043	1.0	4.2	4.9	10.0	85
Apr-96	116.39	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.3	11.0	14.0	37
Jul-96	115.83	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	1.0	ND < 1.0	1.6	2.7	87
Oct-96	112.17	ND < 0.01	ND < 0.01	ND < 0.005	0.036	0.96	ND < 1.0	1.4	1.5	150
Jan-97	113.76	ND < 0.02	ND < 0.01	ND < 0.005	0.029	ND < 0.5	ND < 1.0	1.7	2.8	95
Apr-97	116.62	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.1	1.2	ND < 1.0	63
Jul-97	116.74	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	0.56	ND < 1.0	ND < 1.0	ND < 1.0	54
Oct-97	111.27	ND < 0.02	ND < 0.01	ND < 0.005	0.025	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	85
Jan-98	111.47	ND < 0.02	0.01	ND < 0.005	0.044	ND < 0.5	2.2	5.2	6.8	97
Apr-98	116.38	ND < 0.02	0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	1.6	1.8	23

Shallow Wells
PHIBRO-TECH, INC.
Historical Results

		METALS				PURGEABLE AROMATICS				HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
Jul-98	117.62	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	53
Oct-98	115.06	ND < 0.02	ND < 0.01	ND < 0.005	0.042	0.68	ND < 1.0	ND < 1.0	ND < 1.0	88
Jan-99	112.28	ND < 0.02	ND < 0.01	0.0056	0.05	ND < 1.2	ND < 2.5	ND < 2.5	ND < 2.5	160
Apr-99	112.11	ND < 0.01	ND < 0.01	ND < 0.005	0.042	ND < 2.0	3.0	11	6.8	80
Jul-99	112.09	ND < 0.020	ND < 0.020	ND < 0.010	0.068	ND < 1.0	ND < 1.0	1.3	ND < 1.0	65
Oct-99	104.50	ND < 0.010	ND < 0.010	ND < 0.0050	0.071	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0	130
Jan-00	100.67	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	47
Apr-00	106.84	ND < 0.010	ND < 0.010	ND < 0.0050	0.035	ND < 1.0	ND < 1.0	1.2	ND < 1.0	48
Oct-00	107.24	ND < 0.020	ND < 0.010	ND < 0.0050	0.057	ND < 2.5	ND < 2.5	ND < 2.5	ND < 2.5	110
Apr-01	109.26	0.00098 J	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	78
MW-9										
Jan-89	95.55	0.45	0.33	ND < 0.003	ND < 0.009	ND < 0.5	ND < 0.5	ND < 0.5	ND < 1.0	55
Apr-89	99.67	ND < 0.02	0.06	ND < 0.01	ND < 0.02	ND < 0.7	ND < 1.0	ND < 1.0	ND < 1.0	24
Jul-89	98.77	ND < 0.05	0.17	ND < 0.01	0.02	ND < 0.7	ND < 1.0	ND < 1.0	ND < 1.0	57
Oct-89	95.62	2.5	1.8	ND < 0.01	ND < 0.05	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	110
Jan-90	96.44	2.28	2.2	ND < 0.01	ND < 0.02	ND < 2.5	ND < 2.5	ND < 2.5	ND < 5.0	100
Apr-90	98.26	0.8	0.81	ND < 0.005	ND < 0.02	ND < 2.5	ND < 2.5	ND < 2.5	ND < 5.0	150
Jul-90	99.78	0.03	0.04	ND < 0.01	ND < 0.02	ND < 2.5	ND < 2.5	ND < 2.5	ND < 5.0	64
Oct-90	98.69	0.25	0.19	ND < 0.005	0.062	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	17
Jan-91	98.04	0.124	0.085	ND < 0.005	ND < 0.02	ND < 0.5	6.6	1.4	9.0	26
Apr-91	100.83	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	26
Jul-91	101.88	ND < 0.02	0.027	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	99.0	ND < 1.0	41
Oct-91	101.30	0.05	0.07	ND < 0.005	ND < 0.01	ND < 0.5	ND < 1.0	94.0	ND < 1.0	120
Jan-92	103.62	ND < 0.05	ND < 0.0081	ND < 0.0027	0.031	ND < 1	ND < 1.0	1220.0	92.0	45
Apr-92	106.27	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.05	2800.0	3600.0	6190.0	52
Jul-92	106.93	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.05	34000.0	7900.0	24000	ND < 1000
Oct-92	104.3	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 1000	83000.0	13000	58000	ND < 1000
Jan-93	107.56	ND < 0.02	0.057	ND < 0.005	0.053	ND < 50	400.0	3900.0	5300.0	ND < 100
Apr-93	115.26	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 50	5100.0	4000.0	9200.0	110
Jul-93	115.81	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 16	ND < 33.0	160.0	74.0	1100
Oct-93	115.79	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	ND < 5.0	120.0	45.0	390
Jan-94	115.76	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 10	48.0	290.0	220.0	230
Apr-94	116.51	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 500	17000.0	12000	32000	270
Jul-94	117.03	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 1000	56000.0	15000	40000	200
Oct-94	111.17	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 500	57000.0	11000	34000	350
Jan-95	112.25	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 250	8200.0	9800.0	2000.0	310
Apr-95	117.92	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 50	ND < 100.0	650.0	480.0	670
Jul-95	119.31	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 10	69.0	780.0	340.0	540
Oct-95	115.67	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 25	110.0	670.0	1900.0	320
Jan-96	113.73	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 50	100.0	4300.0	6100.0	500
Apr-96	117.00	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	3.3	5.5	24.0	22.0	580
Jul-96	116.49	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	4.6	ND < 2.0	42.0	4.3	570
Oct-96	112.73	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 50	ND < 100.0	2900.0	350.0	470
Jan-97	114.46	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	ND < 5.0	ND < 5.0	ND < 5.0	400
Apr-97	117.29	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 5	ND < 10.0	18.0	ND < 10.0	770
Jul-97	117.34	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 25	ND < 50.0	2500.0	860.0	850
Oct-97	113.75	ND < 0.02	0.048	ND < 0.005	ND < 0.02	ND < 25	150.0	1900.0	4800.0	ND < 50
Jan-98	112.06	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 5	ND < 10.0	690.0	260.0	270
Apr-98	117.07	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 5	ND < 10.0	23.0	ND < 10.0	390
Jul-98	118.26	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 12	ND < 25.0	73.0	ND < 25.0	1300
Oct-98	115.49	3.3	1.3	0.0075	0.34	7.4	ND < 12.0	390.0	ND < 12.0	1200
Jan-99	112.68	3.3	2.4	ND < 0.005	ND < 0.02	ND < 6.2	ND < 12.0	100.0	83.0	550
Apr-99	112.77	ND < 0.01	0.64	ND < 0.005	ND < 0.025	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	350
Jul-99	112.57	5.8	5.6	ND < 0.010	ND < 0.050	ND < 25	ND < 25	ND < 25	ND < 25	810
Oct-99	104.91	4.0	4.2	ND < 0.0050	ND < 0.025	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	280
Jan-00	101.15	14.1	13.9	ND < 0.0050	ND < 0.025	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	170
Apr-00	107.56	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	370
Oct-00	107.81	ND < 0.020	0.014	ND < 0.0050	ND < 0.025	ND < 5.0	ND < 5.0	29.0	ND < 5.0	160
Apr-01	109.62	0.0043	0.011	ND < 0.0050	ND < 0.025	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	200

Shallow Wells
PHIBRO-TECH, INC.
Historical Results

		METALS				PURGEABLE AROMATICS				PURGEABLE HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
MW - 11										
Jan-89	95.97	ND < 0.01	ND < 0.014	ND < 0.003	ND < 0.009	ND < 0.5	ND < 0.5	43.0	1.5	34
Apr-89	99.85	ND < 0.02	0.04	ND < 0.01	ND < 0.02	ND < 500	7500.0	2600.0	11000	39
Jul-89	98.95	ND < 0.05	ND < 0.02	ND < 0.01	0.13	ND < 7	ND < 10.0	ND < 10.0	90.0	29
Oct-89	95.77	ND < 0.05	ND < 0.02	ND < 0.01	ND < 0.05	ND < 5	ND < 10.0	200.0	ND < 10.0	35
Jan-90	96.72	ND < 0.02	ND < 0.01	ND < 0.01	ND < 0.02	ND < 5	ND < 5.0	83.0	ND < 10.0	46
Apr-90	98.44	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	2.6	370.0	150.0	33
Jul-90	100.00	ND < 0.02	ND < 0.01	ND < 0.01	0.03	ND < 25	440.0	1000.0	760.0	65
Oct-90	98.97	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	15000.0	3000.0	10000	ND < 1
Jan-91	98.29	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	15000.0	4700.0	12000	ND < 1
Apr-91	101.17	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	8500.0	3300.0	7500.0	63
Jul-91	102.19	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	57.0	520.0	220.0	61
Oct-91	101.61	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.01	ND < 0.5	140.0	2000.0	660.0	110
Jan-92	104.09	0.10	ND < 0.0081	ND < 0.0027	0.02	ND < 1	7.3	230.0	26.0	85
Apr-92	106.61	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.01	ND < 0.05	1.7	130.0	2.3	70
Jul-92	107.12	ND < 0.02	0.02	ND < 0.005	0.09	ND < 0.05	ND < 0.1	17.0	ND < 0.1	160
Oct-92	104.55	ND < 0.02	0.011	ND < 0.005	ND < 0.01	ND < 0.05	ND < 0.1	11.0	ND < 0.1	160
Jan-93	108.27	ND < 0.02	0.013	ND < 0.005	0.088	ND < 1.2	ND < 2.5	110.0	ND < 2.5	86
Apr-93	115.6	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.05	ND < 1.0	2.0	ND < 1.0	59
Jul-93	116.07	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.05	2.5	1.8	6.4	230
Oct-93	116.01	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.1	3.1	150
Jan-94	116.03	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.5	2.8	190
Apr-94	116.83	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	80
Jul-94	117.23	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	1.6	180
Oct-94	111.30	ND < 0.02	0.011	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	4.5	ND < 1.0	360
Jan-95	112.53	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 10	660.0	850.0	1100.0	660
Apr-95	118.26	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 50	ND < 100.0	1900.0	1000.0	74
Jul-95	119.51	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	ND < 5.0	160.0	37.0	140
Oct-95	115.80	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	5.8	2.2	180
Jan-96	113.98	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 25	520.0	460.0	1000.0	620
Apr-96	117.37	ND < 0.02	ND < 0.01	ND < 0.005	0.023	ND < 25	160.0	1100.0	1400.0	240
Jul-96	116.75	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 10	ND < 20.0	460.0	290.0	220
Oct-96	112.95	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.9	20.0	8.0	250
Jan-97	114.78	ND < 0.02	ND < 0.01	ND < 0.005	0.029	ND < 0.5	9.4	84.0	88.0	160
Apr-97	117.60	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	ND < 5.0	120.0	8.2	370
Jul-97	117.61	ND < 0.02	ND < 0.01	ND < 0.005	0.15	ND < 2.5	ND < 5.0	8.3	ND < 5.0	240
Oct-97	114.02	ND < 0.02	ND < 0.01	ND < 0.005	0.1	ND < 2.5	ND < 5.0	ND < 5.0	ND < 5.0	350
Jan-98	112.23	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 12	770.0	1800.0	2200.0	390
Apr-98	117.36	ND < 0.02	ND < 0.01	ND < 0.005	0.077	ND < 1.2	63.0	150.0	210.0	180
Jul-98	118.57	ND < 0.02	ND < 0.01	ND < 0.005	0.077	ND < 1.2	ND < 2.5	41.0	4.8	150
Oct-98	115.91	ND < 0.02	ND < 0.01	ND < 0.005	0.041	ND < 5	ND < 10.0	ND < 10.0	ND < 10.0	430
Jan-99	113.05	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 6.2	260.0	750.0	970.0	690
Apr-99	113.14	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 25	670	1600	1270	480
Jul-99	112.88	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 10	ND < 10	85	ND < 10	740
Oct-99	105.05	0.057	0.02	ND < 0.0050	ND < 0.025	ND < 10	ND < 10	480	52	650
Jan-00	101.31	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 12	ND < 12	ND < 12	ND < 12	820
Apr-00	107.91	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 12	ND < 12	55	17	1100
Oct-00	108.06	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 50	ND < 50	ND < 50	ND < 50	2900
Apr-01	110.15	ND < 0.0020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 25	ND < 25	48	ND < 25	1700
MW - 14S										
Oct-90	98.07	3.2	2.2	0.018	5.3	ND < 0.5	ND < 1.0	1750.0	ND < 1.0	180
Jan-91	97.38	0.4	0.94	0.007	1	ND < 0.5	ND < 1.0	2800.0	5900.0	108
Apr-91	99.26	0.39	0.41	0.005	0.15	ND < 0.5	ND < 1.0	4100.0	ND < 1.0	84
Jul-91	101.27	0.02	0.31	0.005	0.11	ND < 0.5	ND < 1.0	31.0	ND < 1.0	55
Oct-91	100.66	0.13	0.23	ND < 0.005	0.05	ND < 0.5	ND < 1.0	680.0	ND < 1.0	81
Jan-92	103.08	0.27	0.15	ND < 0.0027	0.093	ND < 1	ND < 1.0	ND < 1.0	ND < 1.0	59
Apr-92	105.70	0.13	0.16	ND < 0.005	0.04	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	56
Jul-92	106.38	0.1	0.33	ND < 0.005	0.56	0.6	ND < 1.0	ND < 1.0	ND < 1.0	44
Oct-92	103.72	0.16	0.54	ND < 0.005	0.72	ND < 1	ND < 1.0	ND < 1.0	ND < 1.0	71

Shallow Wells
PHIBRO-TECH, INC.
Historical Results

		METALS				PURGEABLE AROMATICS				PURGEABLE HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
Jan-93	107.00	0.056	0.24	ND < 0.005	0.33	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	56
Apr-93	114.80	ND < 0.02	0.018	ND < 0.005	0.032	ND < 0.5	24.0	40.0	55.0	18
Jul-93	115.36	ND < 0.02	0.20	ND < 0.005	0.023	ND < 0.5	1.3	1.2	3.8	25
Oct-93	115.42	ND < 0.02	0.01	ND < 0.005	0.021	ND < 0.5	ND < 1.0	2.1	3.7	25
Jan-94	115.28	ND < 0.02	0.015	ND < 0.005	0.022	ND < 0.5	ND < 1.0	3.2	1.4	21
Apr-94	116.06	ND < 0.02	0.022	ND < 0.005	ND < 0.020	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	29
Jul-94	116.64	ND < 0.02	0.016	ND < 0.005	ND < 0.020	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	15
Oct-94	110.70	0.035	0.064	ND < 0.005	ND < 0.020	0.53	ND < 1.0	ND < 1.0	ND < 1.0	58
Feb-95	113.10	ND < 0.02	0.016	ND < 0.005	0.020	ND < 50	ND < 100.0	3000.0	690.0	50
Apr-95	117.50	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.020	ND < 5	76.0	120.0	190.0	20
Jul-95	118.93	ND < 0.02	ND < 0.01	0.0055	ND < 0.020	ND < 0.5	2.8	26.0	12.0	22
Oct-95	115.25	0.022	0.046	ND < 0.005	ND < 0.020	ND < 0.5	ND < 1.0	2.1	2.0	35
Jan-96	113.13	ND < 0.02	0.034	ND < 0.005	0.024	ND < 1	4.7	87.0	58.0	42
Apr-96	116.52	0.021	0.028	ND < 0.005	ND < 0.020	ND < 2.5	54.0	120.0	110.0	51
Jul-96	116.04	ND < 0.01	0.069	ND < 0.005	ND < 0.020	0.58	ND < 1.0	20.0	10.0	37
Oct-96	112.22	0.052	0.082	ND < 0.005	ND < 0.020	ND < 0.5	ND < 1.0	13.0	2.9	61
Jan-97	113.85	0.024	0.031	ND < 0.005	ND < 0.020	ND < 2.5	ND < 5.0	470.0	ND < 5.0	90
Apr-97	116.82	ND < 0.02	0.032	0.0053	ND < 0.020	0.58	2.9	91.0	36.0	45
Jul-97	117.21	ND < 0.02	0.016	ND < 0.005	ND < 0.020	ND < 5	ND < 1.0	14.0	1.0	35
Oct-97	113.39	0.1	0.013	ND < 0.005	ND < 0.020	ND < 0.5	ND < 1.0	20.0	1.8	57
Jan-98	111.43	* ND/0.0103	0.018	ND < 0.005	0.020	ND < 0.5	1.1	19.0	5.0	50
Apr-98	116.47	ND < 0.02	0.018	ND < 0.005	0.023	ND < 12	ND < 25.0	1500.0	150.0	38
Jul-98	117.79	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.020	0.51	ND < 1.0	18.0	8.4	18
Oct-98	115.19	0.032	0.044	ND < 0.005	0.027	ND < 1.2	ND < 2.5	120.0	29.0	62
Jan-99	112.31	0.058	0.032	ND < 0.005	ND < 0.020	1.1	ND < 2.0	77.0	64.0	98
Apr-99	112.21	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 12	ND < 12	820	47	84
Jul-99	112.19	ND < 0.020	0.038	ND < 0.0050	0.037	ND < 50	ND < 50	3,000	ND < 50	74
Oct-99	104.31	0.035	0.15	0.006	0.044	2.1	ND < 2.0	120	ND < 2.0	180
Jan-00	100.43	0.11	0.26	0.0094	0.031	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	230
Apr-00	106.91	ND < 0.010	ND < 0.010	ND < 0.0050	0.025	3.2	ND < 2.0	110	ND < 2.0	60
Oct-00	107.06	0.039	0.09	ND < 0.0050	0.087	ND < 5.0	ND < 5.0	230	ND < 5.0	170
Apr-01	108.98	0.057	0.043	ND < 0.0050	0.03	2.1	ND < 2.0	9	ND < 2.0	130

* ND/10.3 = EPA method 7196/EPA Method 218.6 (Sample was analyzed for hexavalent chromium by two methods.)

MW - 15S

Oct-90	97.71	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	21
Jan-91	97.10	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	4.0	1.6	4.0	13
Apr-91	99.71	ND < 0.02	ND < 0.01	0.011	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	28
Jul-91	100.94	ND < 0.02	ND < 0.01	0.014	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	17
Oct-91	100.35	ND < 0.02	0.01	0.02	0.06	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	13
Jan-92	102.72	ND < 0.051	ND < 0.0081	0.008	0.01	ND < 1	ND < 1.0	ND < 1.0	ND < 1.0	15
Apr-92	105.29	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.01	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	4.1
Jul-92	105.95	ND < 0.02	0.04	0.005	0.27	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	2.9
Oct-92	103.37	ND < 0.02	ND < 0.02	0.0073	0.047	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 1
Jan-93	106.58	ND < 0.02	0.014	0.0085	0.1	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	9.0
Apr-93	114.41	ND < 0.02	0.013	ND < 0.005	ND < 0.02	ND < 0.5	14.0	10.0	22.0	4.6
Jul-93	115.01	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.2	ND < 1.0	2.4	2.4
Oct-93	115.07	ND < 0.04	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	3.2
Jan-94	114.90	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	1.9
Apr-94	115.72	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	3.1
Jul-94	116.31	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	2.1
Oct-94	110.42	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	6.0
Jan-95	111.14	0.048	0.044	ND < 0.005	ND < 0.02	ND < 1	4.0	64.0	27.0	3.7
Apr-95	117.15	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	60.0	82.0	130.0	2.8
Jul-95	118.61	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	2.5	18.0	12.0	5.2
Oct-95	114.45	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	1.0	ND < 1.0	3.9
Jan-96	112.69	ND < 0.02	0.012	ND < 0.005	ND < 0.02	ND < 0.5	1.8	25.0	22.0	3.8
Apr-96	116.09	ND < 0.02	0.015	ND < 0.005	ND < 0.02	ND < 0.5	13.0	40.0	45.0	2.8
Jul-96	115.69	ND < 0.01	0.014	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	9.7	5.4	3.2
Oct-96	111.81	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	2.9	2.6	5.3

Shallow Wells
PHIBRO-TECH, INC.
Historical Results

		METALS				PURGEABLE AROMATICS				PURGEABLE HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
Jan-97	113.42	ND < 0.02	0.01	ND < 0.005	ND < 0.02	ND < 0.5	5.5	69.0	1.0	5.1
Apr-97	116.35	ND < 0.02	0.01	ND < 0.005	ND < 0.02	ND < 0.5	9.3	21.0	8.5	3.3
Jul-97	116.60	ND < 0.02	0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	8.2	1.3	4.1
Oct-97	113.08	ND < 0.02	0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	17.0	1.7	5.2
Jan-98	111.06	* ND/0.0177	0.021	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	12.0	3.7	5.0
Apr-98	116.05	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	60.0	7.2	3.1
Jul-98	117.47	ND < 0.02	0.014	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	10.0	2.9	3.4
Oct-98	114.87	ND < 0.02	0.017	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	45.0	12.0	3.9
Jan-99	111.98	0.024	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	19.0	2.2	7.0
Apr-99	111.85	ND < 0.01	0.013	ND < 0.005	ND < 0.025	ND < 1.0	ND < 1.0	23	2.2	4.2
Jul-99	111.89	ND < 0.020	0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	29	23	3.9
Oct-99	104.07	0.014	0.015	ND < 0.0050	ND < 0.025	ND < 2.0	ND < 2.0	12	ND < 2.0	6.7
Jan-00	100.09	ND < 0.020	ND < 0.010	0.012	ND < 0.025	ND < 1.0	ND < 1.0	9.3	ND < 1.0	25
Apr-00	106.56	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	17
Oct-00	106.82	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	17	ND < 1.0	6.7
Apr-01	108.86	0.0053	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	3

* ND/0.0177 = EPA method 7196/EPA Method 218.6 (Sample was analyzed for hexavalent chromium by two methods.)

MW - 16

Apr-92	105.99	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.01	ND < 0.5	0.7	1.0	1.6	52
Jul-92	106.7	ND < 0.02	0.03	ND < 0.02	0.35	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	35
Oct-92	104.07	ND < 0.02	0.011	ND < 0.005	0.15	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	72
Jan-93	107.3	ND < 0.02	ND < 0.01	ND < 0.005	0.44	ND < 1.2	ND < 2.5	ND < 2.5	ND < 2.5	51
Apr-93	114.9	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 25	55.0	2300.0	1200.0	42
Jul-93	115.54	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 50	ND < 100.0	3100.0	2000.0	15
Oct-93	115.51	ND < 0.04	ND < 0.01	ND < 0.005	ND < 0.02	ND < 5.0	ND < 10.0	340.0	ND < 10.0	24
Jan-94	115.46	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.02	ND < 20.0	1000.0	ND < 20.0	22
Apr-94	116.25	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 10	ND < 20.0	820.0	ND < 20.0	37
Jul-94	116.78	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 25	ND < 50.0	1300.0	730.0	76
Oct-94	111.02	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.5	2.4	9.7	91
Jan-95	112.08	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	ND < 1.0	ND < 1.0	17
Apr-95	117.60	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 5	16.0	36.0	55.0	34
Jul-95	118.99	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 10	ND < 20.0	* 540/370	ND < 20.0	67
Oct-95	115.45	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	1.8	1.3	60
Jan-96	113.49	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	11.0	9.7	26
Apr-96	116.72	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	9.8	30.0	33.0	38
Jul-96	116.24	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	6.6	3.6	110
Oct-96	112.59	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.02	ND < 5	49.0	130.0	230.0	73
Jan-97	114.18	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 1	4.6	23.0	ND < 2.0	32
Apr-97	117.01	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 1	ND < 2.0	7.2	2.4	31
Jul-97	117.12	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 1.2	ND < 2.5	6.5	ND < 2.5	30
Oct-97	113.66	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	ND < 5.0	8.2	ND < 5.0	53
Jan-98	111.92	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1.0	12.0	ND < 3.8	29
Apr-98	116.79	ND < 0.02	ND < 0.01	ND < 0.005	0.023	ND < 0.5	ND < 1.0	28.0	2.7	29
Jul-98	118.00	ND < 0.02	ND < 0.01	ND < 0.005	0.031	ND < 0.5	ND < 1.0	6.0	1.8	28
Oct-98	115.42	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 2.5	ND <5.0	16.0	ND < 5.0	58
Jan-99	112.68	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 1.0	ND < 2.0	11.0	ND < 2.0	36
Apr-99	112.59	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 2.0	ND < 2.0	6.1	ND < 2.0	39
Jul-99	112.43	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 2.0	ND < 2.0	33	ND < 2.0	29
Oct-99	104.81	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 2.0	ND < 2.0	ND < 2.0	ND < 5.0	42
Jan-00	101.03	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	18
Apr-00	107.25	ND < 0.010	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 2.0	ND < 2.0	ND < 2.0	ND < 2.0	26
Oct-00	107.51	ND < 0.020	ND < 0.010	ND < 0.0050	0.3	ND < 2.5	ND < 2.5	7	ND < 2.5	36
Apr-01	109.58	0.00033 J	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 2.0	ND < 2.0	39.0	11.6	36

ND = Below detection limit as noted

MSL = Mean Sea Level

* 540/370 = original sample/duplicate sample (both results presented because duplicate result deviation is >20%)

TABLE 6-1 (Deep)
PHIBRO-TECH, INC.
October 2000 Monitoring
Historical Results

						PURGEABLE				
						AROMATICS				HALOCARBONS
Monitor Well No. / Date	Groundwater Elevation (Feet MSL)	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-Benzene (ug/L)	Total Xylenes (ug/L)	Trichloroethene (ug/L)
MW - 1D										
Jan-99	114.00	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1	1	ND < 1	2
Apr-99	114.01	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 2	2.1
Jul-99	113.67	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 2	2.7
Oct-99	106.55	0.014	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 1	2
Jan-00	152.60	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 1	7.1
Apr-00	108.84	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	1.7	ND < 1	ND < 1	3.3
Oct-00	108.98	ND < 0.020	ND < 0.010	ND < 0.0050	0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	3.1
Apr-01	111.03	0.00066 J	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	2.7
MW - 4A										
Jan-99	112.63	0.02	0.025	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1	ND < 1	ND < 1	10
Apr-99	112.58	ND < 0.02	0.012	ND < 0.005	ND < 0.025	ND < 1	ND < 1	2.9	1.7	7
Jul-99	112.46	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	670	67	5.2
Oct-99	104.64	0.017	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 2	4.5
Jan-00	152.46	ND < 0.02	0.015	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 1	4.2
Apr-00	107.30	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 1	8.6
Oct-00	107.48	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	7.4
Apr-01	109.20	0.0056	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	19
MW - 6D										
Jan-99	112.78	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	1.2	5.8	6.4	7.1
Apr-99	112.62	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	4	14	11.5	10
Jul-99	112.43	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	4.4	ND < 2	23
Oct-99	105.10	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	2.9	ND < 2	8.8
Jan-00	150.13	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	1.8	ND < 1	9.2
Apr-00	107.25	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	1	ND < 1	4.3
Oct-00	107.59	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	10
Apr-01	109.56	0.0026	ND < 0.010	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	10
MW -15D										
Jan-99	111.92	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.02	ND < 0.5	ND < 1	15	2.1	5.4
Apr-99	111.81	ND < 0.02	0.35	ND < 0.005	ND < 0.025	ND < 1	ND < 1	12	1.6	25
Jul-99	111.74	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	34	ND < 2	9
Oct-99	103.88	ND < 0.01	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	6	ND < 2	5.1
Jan-00	150.96	ND < 0.02	ND < 0.01	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 1	9.7
Apr-00	106.54	0.016	0.013	ND < 0.005	ND < 0.025	ND < 1	ND < 1	ND < 1	ND < 1	13
Oct-00	106.69	ND < 0.020	ND < 0.010	ND < 0.0050	ND < 0.025	1.8	ND < 1.0	2.9	ND < 1.0	8.7
Apr-01	108.70	0.014	0.025	ND < 0.0050	ND < 0.025	ND < 1.0	ND < 1.0	11	2.1	12

Appendix C
Del Mar Analytical Laboratory Reports

CDM

Del Mar Analytical

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: PhibroTech

Sampled: 07/29/03-07/30/03
Received: 07/30/03
Issued: 08/13/03

NELAP #01108CA CA ELAP #1197

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 11°C, on ice and with chain of custody documentation.

HOLDING TIMES: Holding times were met with the exception of selected Hexavalent Chromium analyses. Hexavalent Chromium in water has a hold time of 24 hours to the minute. Samples were analyzed the day after collection, but outside of the 24 hour time frame.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Due to Del Mar Analytical instrument failure, the Hexavalent Chromium analyses could not be performed within the hold time. After contacting client, the samples were subcontracted to Weck Laboratories, but the 24 hour hold times had passed before samples could be delivered to subcontract lab. The earliest sample time was 08:35, and all samples were analyzed starting at 12:44 so hold times were missed by up to 4 hours. The data submitted in this report for Hexavalent Chromium was performed by Weck Labs per EPA method 7199. Due to slight differences between laboratory LIMS systems for Del Mar and Weck, the report page header states "EPA method 218.6" for Hex Cr, but analysis was performed by EPA 7199.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID	CLIENT ID	MATRIX
IMG1588-01	PTI-MW15D-058	Water
IMG1588-02	PTI-MW15S-058	Water
IMG1588-03	PTI-MW06D-058	Water

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

LABORATORY ID	CLIENT ID	MATRIX
IMG1588-04	PTI-MW07-058	Water
IMG1588-05	PTI-MW14S-058	Water
IMG1588-06	PTI-MW04A-058	Water
IMG1588-07	PTI-EB02-058	Water
IMG1588-08	PTI-MW04-058	Water
IMG1588-09	PTI-MW35-058	Water
IMG1588-10	PTI-TB02-058	Water
IMG1588-11	PTI-MW06B-058	Water

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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMG1588-01 (PTI-MW15D-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	0.50	**1.4**	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	0.50	**0.77**	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	

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Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-01 (PTI-MW15D-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	1.0	**4.1**	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	1.0	**8.1**	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Camp, Dresser & McKee
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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ımple ID: IMG1588-02 (PTI-MW15S-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
ert-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	0.50	**4.5**	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	1.0	**21**	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
,2-Dibromoethane (EDB)	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
,4-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
,2-Dichloroethane	EPA 8260B	3H02008	0.50	**13**	1	8/2/2003	8/2/2003	
,1-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
rans-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
,1-Dichloropropene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	

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Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-02 (PTI-MW15S-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	1.0	**1.2**	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	1.0	**5.1**	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-03 (PTI-MW06D-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	

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Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-03 (PTI-MW06D-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	1.0	**4.1**	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-04 (PTI-MW07-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	1.0	**1.6**	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	1.0	**52**	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	0.50	**20**	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	1.0	**8.5**	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	**16**	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	**1.7**	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-04 (PTI-MW07-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	1.0	**1.7**	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	1.0	**60**	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				

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Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-05 (PTI-MW14S-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	0.50	**1.4**	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	0.50	**11**	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	1.0	**3.1**	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	1.0	**26**	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	1.0	**79**	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	0.50	**19**	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	1.0	**59**	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	**8.5**	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	1.0	**49**	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	1.0	**1.6**	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	

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Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-05 (PTI-MW14S-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	1.0	**3.3**	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	1.0	**200**	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-06 (PTI-MW04A-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H03014	2.0	**2.2**	4	8/3/2003	8/3/2003	
Bromobenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Bromochloromethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Bromodichloromethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Bromoform	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Bromomethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
n-Butylbenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
sec-Butylbenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
tert-Butylbenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Carbon tetrachloride	EPA 8260B	3H03014	2.0	ND	4	8/3/2003	8/3/2003	
Chlorobenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Chloroethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Chloroform	EPA 8260B	3H03014	4.0	**9.2**	4	8/3/2003	8/3/2003	
Chloromethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
2-Chlorotoluene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
4-Chlorotoluene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Dibromochloromethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H03014	20	ND	4	8/3/2003	8/3/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Dibromomethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,2-Dichlorobenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,3-Dichlorobenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,4-Dichlorobenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Dichlorodifluoromethane	EPA 8260B	3H03014	20	ND	4	8/3/2003	8/3/2003	
1,1-Dichloroethane	EPA 8260B	3H03014	4.0	**230**	4	8/3/2003	8/3/2003	
1,2-Dichloroethane	EPA 8260B	3H03014	2.0	ND	4	8/3/2003	8/3/2003	
1,1-Dichloroethene	EPA 8260B	3H03014	4.0	**47**	4	8/3/2003	8/3/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H03014	4.0	**16**	4	8/3/2003	8/3/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,2-Dichloropropane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,3-Dichloropropane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
2,2-Dichloropropane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,1-Dichloropropene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H03014	2.0	ND	4	8/3/2003	8/3/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H03014	2.0	ND	4	8/3/2003	8/3/2003	
Ethylbenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Hexachlorobutadiene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Isopropylbenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
p-Isopropyltoluene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Methylene chloride	EPA 8260B	3H03014	20	ND	4	8/3/2003	8/3/2003	

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-06 (PTI-MW04A-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
n-Propylbenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Styrene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Tetrachloroethene	EPA 8260B	3H03014	4.0	**6.8**	4	8/3/2003	8/3/2003	
Toluene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,1,1-Trichloroethane	EPA 8260B	3H03014	4.0	**4.0**	4	8/3/2003	8/3/2003	
1,1,2-Trichloroethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Trichloroethene	EPA 8260B	3H03014	4.0	**150**	4	8/3/2003	8/3/2003	
Trichlorofluoromethane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,2,3-Trichloropropane	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Vinyl chloride	EPA 8260B	3H03014	2.0	ND	4	8/3/2003	8/3/2003	
o-Xylene	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
m,p-Xylenes	EPA 8260B	3H03014	4.0	ND	4	8/3/2003	8/3/2003	
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				

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Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-07 (PTI-EB02-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	

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Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-07 (PTI-EB02-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-08 (PTI-MW04-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	2.5	**5.8**	5	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	2.5	ND	5	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	5.0	**25**	5	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	25	ND	5	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	25	ND	5	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	5.0	**160**	5	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	2.5	**56**	5	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	5.0	**78**	5	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	5.0	**230**	5	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	2.5	ND	5	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	2.5	ND	5	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	25	**96**	5	8/2/2003	8/2/2003	

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-08 (PTI-MW04-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	5.0	**140**	5	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	2.5	ND	5	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	5.0	ND	5	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-09 (PTI-MW35-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	5.0	**7.0**	10	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	5.0	ND	10	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	10	**25**	10	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	50	ND	10	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	50	ND	10	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	10	**170**	10	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	5.0	**59**	10	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	10	**80**	10	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	10	**250**	10	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	5.0	ND	10	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	5.0	ND	10	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	50	**100**	10	8/2/2003	8/2/2003	

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Camp, Dresser & McKee
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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-09 (PTI-MW35-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	10	**150**	10	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	5.0	ND	10	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	10	ND	10	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-10 (PTI-TB02-058 - Water)				**Sampled: 07/29/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	

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Sampled: 07/29/03-07/30/03
Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-10 (PTI-TB02-058 - Water) - cont.				**Sampled: 07/29/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				

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Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-11 (PTI-MW06B-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
ert-Butylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
rans-1,2-Dichloroethene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02008	5.0	ND	1	8/2/2003	8/2/2003	

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Received: 07/30/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMG1588-11 (PTI-MW06B-058 - Water) - cont.				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02008	1.0	**1.2**	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02008	1.0	**13**	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02008	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02008	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IMG1588-01 (PTI-MW15D-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	ND	1	7/31/2003	8/1/2003	
Sample ID: IMG1588-02 (PTI-MW15S-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	ND	1	7/31/2003	8/1/2003	
Sample ID: IMG1588-03 (PTI-MW06D-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	**0.014**	1	7/31/2003	8/1/2003	
Sample ID: IMG1588-04 (PTI-MW07-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	ND	1	7/31/2003	8/1/2003	
Sample ID: IMG1588-05 (PTI-MW14S-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.0050	**0.0066**	1	8/1/2003	8/5/2003	
Chromium	EPA 6010B	3H01055	0.0050	**0.15**	1	8/1/2003	8/5/2003	
Copper	EPA 6010B	3H01055	0.010	**0.052**	1	8/1/2003	8/5/2003	
Sample ID: IMG1588-06 (PTI-MW04A-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	**0.024**	1	7/31/2003	8/1/2003	
Sample ID: IMG1588-07 (PTI-EB02-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	ND	1	7/31/2003	8/1/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-08 (PTI-MW04-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.015	**0.41**	3	7/31/2003	8/4/2003	
Chromium	EPA 6010B	3G31049	0.015	**30**	3	7/31/2003	8/4/2003	
Copper	EPA 6010B	3G31049	0.030	ND	3	7/31/2003	8/4/2003	RL-1
Sample ID: IMG1588-09 (PTI-MW35-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.025	**0.47**	5	8/1/2003	8/5/2003	
Chromium	EPA 6010B	3H01055	0.025	**37**	5	8/1/2003	8/5/2003	
Copper	EPA 6010B	3H01055	0.050	ND	5	8/1/2003	8/5/2003	RL-1
ample ID: IMG1588-11 (PTI-MW06B-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	**0.010**	1	7/31/2003	8/1/2003	

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Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-01 (PTI-MW15D-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**7.26**	1	7/30/2003	7/30/2003	
ample ID: IMG1588-02 (PTI-MW15S-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**7.02**	1	7/30/2003	7/30/2003	
ample ID: IMG1588-03 (PTI-MW06D-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**7.28**	1	7/30/2003	7/30/2003	
ample ID: IMG1588-04 (PTI-MW07-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**6.75**	1	7/30/2003	7/30/2003	
ample ID: IMG1588-05 (PTI-MW14S-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**6.86**	1	7/30/2003	7/30/2003	
ample ID: IMG1588-06 (PTI-MW04A-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**6.92**	1	7/30/2003	7/30/2003	
ample ID: IMG1588-07 (PTI-EB02-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**5.51**	1	7/30/2003	7/30/2003	
Sample ID: IMG1588-08 (PTI-MW04-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**6.88**	1	7/30/2003	7/30/2003	
Sample ID: IMG1588-09 (PTI-MW35-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**6.83**	1	7/30/2003	7/30/2003	
Sample ID: IMG1588-11 (PTI-MW06B-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: pH Units								
pH	EPA 150.1	3G30073	NA	**7.73**	1	7/30/2003	7/30/2003	

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Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

Dissolved Hexavalent Chromium by IC, EPA 218.6

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1588-01 (PTI-MW15D-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	ND	1	7/31/2003	7/31/2003	O-09
ample ID: IMG1588-02 (PTI-MW15S-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	**2.2**	1	7/31/2003	7/31/2003	O-09
ample ID: IMG1588-03 (PTI-MW06D-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	**2.3**	1	7/31/2003	7/31/2003	O-09
ample ID: IMG1588-04 (PTI-MW07-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	**0.38**	1	7/31/2003	7/31/2003	O-09
ample ID: IMG1588-05 (PTI-MW14S-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	6.0	**120**	20	7/31/2003	7/31/2003	
ample ID: IMG1588-06 (PTI-MW04A-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	**2.9**	1	7/31/2003	7/31/2003	
ample ID: IMG1588-07 (PTI-EB02-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	ND	1	7/31/2003	7/31/2003	
ample ID: IMG1588-08 (PTI-MW04-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	1500	**29000**	5000	7/31/2003	7/31/2003	
Sample ID: IMG1588-09 (PTI-MW35-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	1500	**33000**	5000	7/31/2003	7/31/2003	
Sample ID: IMG1588-11 (PTI-MW06B-058 - Water)				**Sampled: 07/30/03**				
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	**4.3**	1	7/31/2003	7/31/2003	O-09

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Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: PTI-MW15D-058 (IMG1588-01) - Water					
EPA 150.1	1	07/30/2003 08:35	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 08:35	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW15S-058 (IMG1588-02) - Water					
EPA 150.1	1	07/30/2003 09:25	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 09:25	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW06D-058 (IMG1588-03) - Water					
EPA 150.1	1	07/30/2003 10:45	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 10:45	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW07-058 (IMG1588-04) - Water					
EPA 150.1	1	07/30/2003 12:15	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 12:15	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW14S-058 (IMG1588-05) - Water					
EPA 150.1	1	07/30/2003 14:15	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 14:15	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW04A-058 (IMG1588-06) - Water					
EPA 150.1	1	07/30/2003 15:20	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 15:20	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-EB02-058 (IMG1588-07) - Water					
EPA 150.1	1	07/30/2003 15:40	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 15:40	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW04-058 (IMG1588-08) - Water					
EPA 150.1	1	07/30/2003 16:20	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 16:20	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW35-058 (IMG1588-09) - Water					
EPA 150.1	1	07/30/2003 13:05	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 13:05	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW06B-058 (IMG1588-11) - Water					
EPA 150.1	1	07/30/2003 11:25	07/30/2003 17:15	07/30/2003 19:20	07/30/2003 20:30
EPA 7199	1	07/30/2003 11:25	07/30/2003 17:15	07/31/2003 12:44	07/31/2003 12:44

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Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02008 Extracted: 08/02/03										
Blank Analyzed: 08/02/03 (3H02008-BLK1)										
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02008 Extracted: 08/02/03										
lank Analyzed: 08/02/03 (3H02008-BLK1)										
hylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
opropylbenzene	ND	1.0	ug/l							
Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Naphthalene	ND	1.0	ug/l							
Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,2,2-Tetrachloroethane	ND	1.0	ug/l							
etrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
2,3-Trichlorobenzene	ND	1.0	ug/l							
2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
ichloroethene	ND	1.0	ug/l							
richlorofluoromethane	ND	1.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
2,4-Trimethylbenzene	ND	1.0	ug/l							
3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
rrogate: 4-Bromofluorobenzene	*24.1*		*ug/l*	*25.0*		*96*	*80-120*			

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Received: 07/30/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02008 Extracted: 08/02/03										
CS Analyzed: 08/02/03 (3H02008-BS1)										
enzene	23.5	0.50	ug/l	25.0		94	70-120			
Bromobenzene	23.7	1.0	ug/l	25.0		95	80-120			
omochloromethane	25.7	1.0	ug/l	25.0		103	65-135			
omodichloromethane	26.4	1.0	ug/l	25.0		106	70-140			
Bromoform	22.5	1.0	ug/l	25.0		90	55-135			
Bromomethane	24.5	1.0	ug/l	25.0		98	65-140			
Butylbenzene	26.0	1.0	ug/l	25.0		104	75-130			
sec-Butylbenzene	25.3	1.0	ug/l	25.0		101	75-125			
tert-Butylbenzene	25.1	1.0	ug/l	25.0		100	75-125			
arbon tetrachloride	30.0	0.50	ug/l	25.0		120	65-155			
hlorobenzene	24.0	1.0	ug/l	25.0		96	80-125			
Chloroethane	22.2	1.0	ug/l	25.0		89	60-145			
hloroform	26.5	1.0	ug/l	25.0		106	70-130			
hloromethane	20.0	1.0	ug/l	25.0		80	40-145			
2-Chlorotoluene	24.4	1.0	ug/l	25.0		98	75-125			
4-Chlorotoluene	25.0	1.0	ug/l	25.0		100	75-125			
ibromochloromethane	25.4	1.0	ug/l	25.0		102	65-145			
2-Dibromo-3-chloropropane	23.0	5.0	ug/l	25.0		92	50-130			
1,2-Dibromoethane (EDB)	23.4	1.0	ug/l	25.0		94	75-125			
ibromomethane	24.8	1.0	ug/l	25.0		99	70-130			
2-Dichlorobenzene	24.7	1.0	ug/l	25.0		99	80-120			
1,3-Dichlorobenzene	24.3	1.0	ug/l	25.0		97	75-120			
1 4-Dichlorobenzene	24.2	1.0	ug/l	25.0		97	75-120			
ichlorodifluoromethane	22.2	5.0	ug/l	25.0		89	10-160			
1,1-Dichloroethane	26.2	1.0	ug/l	25.0		105	70-135			
1,2-Dichloroethane	26.0	0.50	ug/l	25.0		104	60-150			
1-Dichloroethene	26.9	1.0	ug/l	25.0		108	70-130			
s-1,2-Dichloroethene	24.6	1.0	ug/l	25.0		98	70-125			
trans-1,2-Dichloroethene	25.6	1.0	ug/l	25.0		102	70-130			
2-Dichloropropane	24.3	1.0	ug/l	25.0		97	65-120			
3-Dichloropropane	23.1	1.0	ug/l	25.0		92	70-130			
2,2-Dichloropropane	29.1	1.0	ug/l	25.0		116	70-150			
1,1-Dichloropropene	26.0	1.0	ug/l	25.0		104	75-130			
s-1,3-Dichloropropene	25.4	0.50	ug/l	25.0		102	75-130			
ans-1,3-Dichloropropene	25.8	0.50	ug/l	25.0		103	70-135			

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Camp, Dresser & McKee
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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02008 Extracted: 08/02/03										
CS Analyzed: 08/02/03 (3H02008-BS1)										
hylbenzene	25.0	1.0	ug/l	25.0		100	70-125			
Hexachlorobutadiene	24.5	1.0	ug/l	25.0		98	70-140			
opropylbenzene	25.6	1.0	ug/l	25.0		102	70-125			
Isopropyltoluene	24.7	1.0	ug/l	25.0		99	75-125			
Methylene chloride	23.9	5.0	ug/l	25.0		96	60-135			
Naphthalene	22.8	1.0	ug/l	25.0		91	50-145			
Propylbenzene	25.6	1.0	ug/l	25.0		102	75-130			
tyrene	25.8	1.0	ug/l	25.0		103	80-135			
1,1,1,2-Tetrachloroethane	26.7	1.0	ug/l	25.0		107	70-145			
1,2,2-Tetrachloroethane	23.0	1.0	ug/l	25.0		92	60-135			
etrachloroethene	24.6	1.0	ug/l	25.0		98	80-125			
Toluene	24.4	1.0	ug/l	25.0		98	70-120			
2,3-Trichlorobenzene	23.9	1.0	ug/l	25.0		96	65-135			
2,4-Trichlorobenzene	25.2	1.0	ug/l	25.0		101	70-140			
1,1,1-Trichloroethane	28.5	1.0	ug/l	25.0		114	70-140			
1,1,2-Trichloroethane	23.5	1.0	ug/l	25.0		94	70-125			
ichloroethene	24.6	1.0	ug/l	25.0		98	75-120			
richlorofluoromethane	28.3	1.0	ug/l	25.0		113	65-145			
1,2,3-Trichloropropane	22.2	1.0	ug/l	25.0		89	60-130			
2,4-Trimethylbenzene	25.2	1.0	ug/l	25.0		101	80-125			
3,5-Trimethylbenzene	25.4	1.0	ug/l	25.0		102	80-125			
Vinyl chloride	22.6	0.50	ug/l	25.0		90	50-130			
o-Xylene	24.8	1.0	ug/l	25.0		99	70-125			
,p-Xylenes	49.5	1.0	ug/l	50.0		99	70-120			
Surrogate: Dibromofluoromethane	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*24.5*		*ug/l*	*25.0*		*98*	*80-120*			
rrogate: 4-Bromofluorobenzene	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02008 Extracted: 08/02/03										
Matrix Spike Analyzed: 08/02/03 (3H02008-MS1)					**Source: IMG1588-01**					
Benzene	23.9	0.50	ug/l	25.0	1.4	90	60-125			
Bromodichloromethane	25.8	1.0	ug/l	25.0	ND	103	70-140			
Bromoform	24.8	1.0	ug/l	25.0	ND	99	50-140			
Chlorobenzene	23.8	1.0	ug/l	25.0	ND	95	75-125			
Chloroform	26.2	1.0	ug/l	25.0	0.65	102	70-130			
Dibromochloromethane	26.3	1.0	ug/l	25.0	ND	105	65-145			
1,4-Dichlorobenzene	23.1	1.0	ug/l	25.0	ND	92	70-120			
1,1-Dichloroethane	25.7	1.0	ug/l	25.0	0.44	101	65-135			
1,2-Dichloroethane	26.9	0.50	ug/l	25.0	0.77	105	60-150			
1,1-Dichloroethene	26.6	1.0	ug/l	25.0	0.69	104	60-135			
Ethylbenzene	24.8	1.0	ug/l	25.0	ND	99	65-125			
Naphthalene	26.2	1.0	ug/l	25.0	ND	105	50-145			
Tetrachloroethene	28.2	1.0	ug/l	25.0	4.1	96	70-130			
Toluene	23.4	1.0	ug/l	25.0	ND	94	65-125			
Trichloroethene	31.2	1.0	ug/l	25.0	8.1	92	70-125			
Vinyl chloride	20.0	0.50	ug/l	25.0	ND	80	40-135			
Xylene	24.3	1.0	ug/l	25.0	ND	97	65-125			
m,p-Xylenes	48.7	1.0	ug/l	50.0	ND	97	65-120			
Surrogate: Dibromofluoromethane	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Matrix Spike Dup Analyzed: 08/02/03 (3H02008-MSD1)					**Source: IMG1588-01**					
Benzene	23.4	0.50	ug/l	25.0	1.4	88	60-125	2	20	
Bromodichloromethane	25.1	1.0	ug/l	25.0	ND	100	70-140	3	20	
Bromoform	24.4	1.0	ug/l	25.0	ND	98	50-140	2	25	
Chlorobenzene	23.0	1.0	ug/l	25.0	ND	92	75-125	3	20	
Chloroform	25.5	1.0	ug/l	25.0	0.65	99	70-130	3	20	
Dibromochloromethane	25.7	1.0	ug/l	25.0	ND	103	65-145	2	20	
1,4-Dichlorobenzene	22.8	1.0	ug/l	25.0	ND	91	70-120	1	20	
1,1-Dichloroethane	25.0	1.0	ug/l	25.0	0.44	98	65-135	3	20	
1,2-Dichloroethane	26.6	0.50	ug/l	25.0	0.77	103	60-150	1	20	
1,1-Dichloroethene	26.0	1.0	ug/l	25.0	0.69	101	60-135	2	20	
Ethylbenzene	23.8	1.0	ug/l	25.0	ND	95	65-125	4	20	
Naphthalene	26.5	1.0	ug/l	25.0	ND	106	50-145	1	30	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02008 Extracted: 08/02/03										
Matrix Spike Dup Analyzed: 08/02/03 (3H02008-MSD1)					**Source: IMG1588-01**					
Tetrachloroethene	27.1	1.0	ug/l	25.0	4.1	92	70-130	4	20	
Toluene	23.2	1.0	ug/l	25.0	ND	93	65-125	1	20	
Trichloroethene	30.1	1.0	ug/l	25.0	8.1	88	70-125	4	20	
Vinyl chloride	20.3	0.50	ug/l	25.0	ND	81	40-135	1	20	
o-Xylene	23.3	1.0	ug/l	25.0	ND	93	65-125	4	20	
m,p-Xylenes	46.9	1.0	ug/l	50.0	ND	94	65-120	4	20	
Surrogate: Dibromofluoromethane	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*24.7*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Batch: 3H03014 Extracted: 08/03/03										
Blank Analyzed: 08/03/03 (3H03014-BLK1)										
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
n-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
Carbon tetrachloride	ND	0.50	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
Dibromomethane	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H03014 Extracted: 08/03/03										
Blank Analyzed: 08/03/03 (3H03014-BLK1)										
1,4-Dichlorobenzene	ND	1.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
1,3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1,1-Dichloropropene	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Naphthalene	ND	1.0	ug/l							
Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							

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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H03014 Extracted: 08/03/03										
Blank Analyzed: 08/03/03 (3H03014-BLK1)										
-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
LCS Analyzed: 08/03/03 (3H03014-BS1)										
Benzene	21.2	0.50	ug/l	25.0		85	70-120			
Bromobenzene	22.1	1.0	ug/l	25.0		88	80-120			
Bromochloromethane	23.6	1.0	ug/l	25.0		94	65-135			
Bromodichloromethane	24.4	1.0	ug/l	25.0		98	70-140			
Bromoform	21.6	1.0	ug/l	25.0		86	55-135			
Bromomethane	22.3	1.0	ug/l	25.0		89	65-140			
n-Butylbenzene	23.7	1.0	ug/l	25.0		95	75-130			
sec-Butylbenzene	23.3	1.0	ug/l	25.0		93	75-125			
tert-Butylbenzene	23.1	1.0	ug/l	25.0		92	75-125			
Carbon tetrachloride	27.6	0.50	ug/l	25.0		110	65-155			
Chlorobenzene	22.5	1.0	ug/l	25.0		90	80-125			
Chloroethane	19.6	1.0	ug/l	25.0		78	60-145			
Chloroform	24.6	1.0	ug/l	25.0		98	70-130			
Chloromethane	17.9	1.0	ug/l	25.0		72	40-145			
2-Chlorotoluene	22.6	1.0	ug/l	25.0		90	75-125			
4-Chlorotoluene	23.1	1.0	ug/l	25.0		92	75-125			
Dibromochloromethane	24.3	1.0	ug/l	25.0		97	65-145			
1,2-Dibromo-3-chloropropane	22.1	5.0	ug/l	25.0		88	50-130			
1,2-Dibromoethane (EDB)	22.5	1.0	ug/l	25.0		90	75-125			
Dibromomethane	23.2	1.0	ug/l	25.0		93	70-130			
1,2-Dichlorobenzene	23.0	1.0	ug/l	25.0		92	80-120			
1,3-Dichlorobenzene	22.4	1.0	ug/l	25.0		90	75-120			
1,4-Dichlorobenzene	22.2	1.0	ug/l	25.0		89	75-120			
Dichlorodifluoromethane	19.9	5.0	ug/l	25.0		80	10-160			
1,1-Dichloroethane	24.1	1.0	ug/l	25.0		96	70-135			
1,2-Dichloroethane	24.4	0.50	ug/l	25.0		98	60-150			
1,1-Dichloroethene	24.8	1.0	ug/l	25.0		99	70-130			
cis-1,2-Dichloroethene	22.3	1.0	ug/l	25.0		89	70-125			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H03014 Extracted: 08/03/03										
CS Analyzed: 08/03/03 (3H03014-BS1)										
ans-1,2-Dichloroethene	23.4	1.0	ug/l	25.0		94	70-130			
1,2-Dichloropropane	22.1	1.0	ug/l	25.0		88	65-120			
3-Dichloropropane	22.1	1.0	ug/l	25.0		88	70-130			
2-Dichloropropane	26.3	1.0	ug/l	25.0		105	70-150			
1,1-Dichloropropene	23.6	1.0	ug/l	25.0		94	75-130			
cis-1,3-Dichloropropene	23.3	0.50	ug/l	25.0		93	75-130			
ans-1,3-Dichloropropene	24.0	0.50	ug/l	25.0		96	70-135			
hylbenzene	23.3	1.0	ug/l	25.0		93	70-125			
Hexachlorobutadiene	22.4	1.0	ug/l	25.0		90	70-140			
opropylbenzene	23.6	1.0	ug/l	25.0		94	70-125			
Isopropyltoluene	22.7	1.0	ug/l	25.0		91	75-125			
Methylene chloride	22.2	5.0	ug/l	25.0		89	60-135			
Naphthalene	21.3	1.0	ug/l	25.0		85	50-145			
Propylbenzene	23.6	1.0	ug/l	25.0		94	75-130			
Styrene	24.0	1.0	ug/l	25.0		96	80-135			
1,1,1,2-Tetrachloroethane	25.3	1.0	ug/l	25.0		101	70-145			
1,2,2-Tetrachloroethane	22.3	1.0	ug/l	25.0		89	60-135			
trachloroethene	22.8	1.0	ug/l	25.0		91	80-125			
Toluene	22.2	1.0	ug/l	25.0		89	70-120			
2,3-Trichlorobenzene	22.0	1.0	ug/l	25.0		88	65-135			
2,4-Trichlorobenzene	23.2	1.0	ug/l	25.0		93	70-140			
1,1,1-Trichloroethane	26.2	1.0	ug/l	25.0		105	70-140			
1,1,2-Trichloroethane	21.7	1.0	ug/l	25.0		87	70-125			
ichloroethene	22.1	1.0	ug/l	25.0		88	75-120			
richlorofluoromethane	25.6	1.0	ug/l	25.0		102	65-145			
1,2,3-Trichloropropane	21.2	1.0	ug/l	25.0		85	60-130			
2,4-Trimethylbenzene	23.2	1.0	ug/l	25.0		93	80-125			
3,5-Trimethylbenzene	23.4	1.0	ug/l	25.0		94	80-125			
Vinyl chloride	20.6	0.50	ug/l	25.0		82	50-130			
o Xylene	23.1	1.0	ug/l	25.0		92	70-125			
p-Xylenes	46.2	1.0	ug/l	50.0		92	70-120			
Surrogate: Dibromofluoromethane	*26.0*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
rrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H03014 Extracted: 08/03/03										
Matrix Spike Analyzed: 08/03/03 (3H03014-MS1)					**Source: IMG1561-01**					
enzene	20.0	0.50	ug/l	25.0	ND	80	60-125			
Bromodichloromethane	23.2	1.0	ug/l	25.0	ND	93	70-140			
romoform	21.7	1.0	ug/l	25.0	ND	87	50-140			
hlorobenzene	21.2	1.0	ug/l	25.0	ND	85	75-125			
Chloroform	23.3	1.0	ug/l	25.0	ND	93	70-130			
Dibromochloromethane	23.4	1.0	ug/l	25.0	ND	94	65-145			
,4-Dichlorobenzene	21.4	1.0	ug/l	25.0	ND	86	70-120			
,1-Dichloroethane	22.8	1.0	ug/l	25.0	ND	91	65-135			
1,2-Dichloroethane	23.9	0.50	ug/l	25.0	ND	96	60-150			
,1-Dichloroethene	23.3	1.0	ug/l	25.0	ND	93	60-135			
thylbenzene	21.8	1.0	ug/l	25.0	ND	87	65-125			
Naphthalene	22.6	1.0	ug/l	25.0	ND	90	50-145			
etrachloroethene	21.1	1.0	ug/l	25.0	ND	84	70-130			
oluene	21.0	1.0	ug/l	25.0	ND	84	65-125			
richloroethene	21.1	1.0	ug/l	25.0	ND	84	70-125			
Vinyl chloride	19.2	0.50	ug/l	25.0	ND	77	40-135			
-Xylene	21.5	1.0	ug/l	25.0	ND	86	65-125			
,p-Xylenes	43.1	1.0	ug/l	50.0	ND	86	65-120			
Surrogate: Dibromofluoromethane	*25.9*		*ug/l*	*25.0*		*104*	*80-120*			
urrogate: Toluene-d8	*24.1*		*ug/l*	*25.0*		*96*	*80-120*			
urrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Matrix Spike Dup Analyzed: 08/03/03 (3H03014-MSD1)					**Source: IMG1561-01**					
enzene	20.3	0.50	ug/l	25.0	ND	81	60-125	1	20	
romodichloromethane	23.3	1.0	ug/l	25.0	ND	93	70-140	0	20	
Bromoform	22.0	1.0	ug/l	25.0	ND	88	50-140	1	25	
hlorobenzene	21.1	1.0	ug/l	25.0	ND	84	75-125	1	20	
hloroform	23.2	1.0	ug/l	25.0	ND	93	70-130	0	20	
Dibromochloromethane	23.6	1.0	ug/l	25.0	ND	94	65-145	1	20	
1,4-Dichlorobenzene	21.3	1.0	ug/l	25.0	ND	85	70-120	1	20	
,1-Dichloroethane	22.7	1.0	ug/l	25.0	ND	91	65-135	0	20	
,2-Dichloroethane	24.1	0.50	ug/l	25.0	ND	96	60-150	1	20	
1,1-Dichloroethene	23.4	1.0	ug/l	25.0	ND	94	60-135	0	20	
thylbenzene	21.6	1.0	ug/l	25.0	ND	86	65-125	1	20	
aphthalene	22.5	1.0	ug/l	25.0	ND	90	50-145	0	30	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H03014 Extracted: 08/03/03										
Matrix Spike Dup Analyzed: 08/03/03 (3H03014-MSD1)					**Source: IMG1561-01**					
Tetrachloroethene	21.1	1.0	ug/l	25.0	ND	84	70-130	0	20	
Toluene	21.1	1.0	ug/l	25.0	ND	84	65-125	1	20	
Trichloroethene	21.0	1.0	ug/l	25.0	ND	84	70-125	1	20	
Vinyl chloride	18.6	0.50	ug/l	25.0	ND	74	40-135	3	20	
o-Xylene	21.3	1.0	ug/l	25.0	ND	85	65-125	1	20	
m,p-Xylenes	42.6	1.0	ug/l	50.0	ND	85	65-120	1	20	
Surrogate: Dibromofluoromethane	*26.2*		*ug/l*	*25.0*		*105*	*80-120*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*ug/l*	*25.0*		*100*	*80-120*			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3G31049 Extracted: 07/31/03										
Blank Analyzed: 08/04/03 (3G31049-BLK1)										
Cadmium	ND	0.0050	mg/l							
Chromium	ND	0.0050	mg/l							
Copper	ND	0.010	mg/l							
LCS Analyzed: 08/01/03 (3G31049-BS1)										
Cadmium	0.980	0.0050	mg/l	1.00		98	80-120			
Chromium	0.991	0.0050	mg/l	1.00		99	80-120			
Copper	0.997	0.010	mg/l	1.00		100	80-120			
Matrix Spike Analyzed: 08/01/03 (3G31049-MS1)					**Source: IMG1565-01**					
Cadmium	0.967	0.0050	mg/l	1.00	0.0010	97	75-125			
Chromium	0.987	0.0050	mg/l	1.00	0.0021	98	75-125			
Copper	0.969	0.010	mg/l	1.00	0.0019	97	75-125			
Matrix Spike Dup Analyzed: 08/01/03 (3G31049-MSD1)					**Source: IMG1565-01**					
Cadmium	0.967	0.0050	mg/l	1.00	0.0010	97	75-125	0	20	
Chromium	0.983	0.0050	mg/l	1.00	0.0021	98	75-125	0	20	
Copper	0.963	0.010	mg/l	1.00	0.0019	96	75-125	1	20	
Batch: 3H01055 Extracted: 08/01/03										
Blank Analyzed: 08/04/03 (3H01055-BLK1)										
Cadmium	ND	0.0050	mg/l							
Chromium	ND	0.0050	mg/l							
Copper	ND	0.010	mg/l							
LCS Analyzed: 08/04/03 (3H01055-BS1)										
Cadmium	1.02	0.0050	mg/l	1.00		102	80-120			
Chromium	1.02	0.0050	mg/l	1.00		102	80-120			
Copper	1.03	0.010	mg/l	1.00		103	80-120			

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METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H01055 Extracted: 08/01/03										
Matrix Spike Analyzed: 08/04/03 (3H01055-MS1)					**Source: IMG1613-01**					
Cadmium	0.952	0.0050	mg/l	1.00	ND	95	75-125			
Chromium	1.00	0.0050	mg/l	1.00	0.0038	100	75-125			
Copper	1.01	0.010	mg/l	1.00	0.0070	100	75-125			
Matrix Spike Dup Analyzed: 08/04/03 (3H01055-MSD1)					**Source: IMG1613-01**					
Cadmium	0.944	0.0050	mg/l	1.00	ND	94	75-125	1	20	
Chromium	0.982	0.0050	mg/l	1.00	0.0038	98	75-125	2	20	
Copper	1.01	0.010	mg/l	1.00	0.0070	100	75-125	0	20	

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3G30073 Extracted: 07/30/03										
Duplicate Analyzed: 07/30/03 (3G30073-DUP1)					**Source: IMG1565-01**					
pH	7.84	NA	pH Units		7.88			1	5	

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METHOD BLANK/QC DATA

Dissolved Hexavalent Chromium by IC, EPA 218.6

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: W307721 Extracted: 07/31/03										
Blank Analyzed: 07/31/03 (W307721-BLK1)										
Hexavalent Chromium	ND	0.30	ug/l							
Blank Analyzed: 07/31/03 (W307721-BLK2)										
Hexavalent Chromium	ND	0.30	ug/l							
LCS Analyzed: 07/31/03 (W307721-BS1)										
Hexavalent Chromium	5.19	0.30	ug/l	5.00		104	90-110			
Matrix Spike Analyzed: 07/31/03 (W307721-MS1)					**Source: IMG1588-07**					
Hexavalent Chromium	5.26	0.30	ug/l	5.00	ND	105	90-110			
Matrix Spike Analyzed: 07/31/03 (W307721-MS2)					**Source: 3073114-06**					
Hexavalent Chromium	5.10	0.30	ug/l	5.00	ND	102	90-110			
Matrix Spike Dup Analyzed: 07/31/03 (W307721-MSD1)					**Source: IMG1588-07**					
Hexavalent Chromium	5.26	0.30	ug/l	5.00	ND	105	90-110	0	10	
Matrix Spike Dup Analyzed: 07/31/03 (W307721-MSD2)					**Source: 3073114-06**					
Hexavalent Chromium	5.08	0.30	ug/l	5.00	ND	102	90-110	0	10	

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Del Mar Analytical

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

DATA QUALIFIERS AND DEFINITIONS

O-09	This sample was received with the EPA recommended holding time expired.
RL-1	Reporting limit raised due to sample matrix effects.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

Del Mar Analytical, Irvine
Patty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1588

Sampled: 07/29/03-07/30/03
Received: 07/30/03

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA
EPA 150.1	Water	X	X
EPA 6010B	Water	X	X
EPA 8260B	Water	X	X

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

ubcontracted Laboratories

Weck Laboratories, Inc. *CA ELAP Cert #1132*

14859 E. Clark Avenue - City of Industry, CA 91745

Method Performed: EPA 7199

Samples: IMG1588-01, IMG1588-02, IMG1588-03, IMG1588-04, IMG1588-05, IMG1588-06, IMG1588-07, IMG1588-08, IMG1588-09, IMG1588-11

Del Mar Analytical, Irvine
atty Mata
roject Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Report Date: Friday, August 1, 2003
Received Date: Thursday, July 31, 2003
Received Time: 12:28 pm
Turnaround Time: Normal

Client: Del Mar Analytical
2852 Alton Parkway
Irvine, CA 92606

Phone: (949) 261-1022
FAX: (949) 261-1228

Attn: Patty Mata

Project: IMG1588

P.O.#:

Certificate of Analysis

Work Order No: 3073107-01 **Sample ID: IMG1588-01** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 08:35** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	ND	O-09	ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-02 **Sample ID: IMG1588-02** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 09:25** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	2.2	O-09	ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-03 **Sample ID: IMG1588-03** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 10:45** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	2.3	O-09	ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-04 **Sample ID: IMG1588-04** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 12:15** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	0.38	O-09	ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-05 **Sample ID: IMG1588-05** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 14:15** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	120		ug/l	20	6.0	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-06 **Sample ID: IMG1588-06** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 15:20** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Certificate of Analysis

Work Order No: 3073107-06 **Sample ID: IMG1588-06** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 15:20** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	**2.9**		ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-07 **Sample ID: IMG1588-07** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 15:40** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	ND		ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-08 **Sample ID: IMG1588-08** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 16:20** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	**29000**		ug/l	5000	1500	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-09 **Sample ID: IMG1588-09** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 13:05** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	**33000**		ug/l	5000	1500	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073107-10 **Sample ID: IMG1588-11** **Matrix: Water**
Sampled By: Client **Sampled: 07/30/03 11:25** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	**4.3**	O-09	ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Case Narrative:
Samples preserved with NaOH

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Certificate of Analysis

Authorized Signature

ELAP # 1132
LACSD # 10143

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND=Not detected, below the reporting limit.
Sub=Subcontracted analysis, original report enclosed.

Flags for Data Qualifiers:
D-09 = This sample was received with the EPA recommended holding time expired.

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Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Report Date: Friday, August 1, 2003
Received Date: Thursday, July 31, 2003
Received Time: 12:28 pm

Turnaround Time: Normal

Client: Del Mar Analytical
2852 Alton Parkway
Irvine, CA 92606

Phone: (949) 261-1022
FAX: (949) 261-1228

Attn: Patty Mata

Project: IMG1588

P.O.#:

Quality Control Report

Weck Laboratories, Inc

Dissolved Hexavalent Chromium by IC, EPA 218.6 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W307721 - EPA 218.6, dir. inj.									
Blank (W307721-BLK1)					Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....		ND		ug/l					
Blank (W307721-BLK2)					Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....		ND		ug/l					
LCS (W307721-BS1)					Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....		5.19		ug/l	5.00	104	90-110		
Matrix Spike (W307721-MS1)			**Source: 3073107-07**		Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....	ND	5.26		ug/l	5.00	105	90-110		
Matrix Spike (W307721-MS2)			**Source: 3073114-06**		Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....	ND	5.10		ug/l	5.00	102	90-110		
Matrix Spike Dup (W307721-MSD1)			**Source: 3073107-07**		Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....	ND	5.26		ug/l	5.00	105	90-110	0.00	10
Matrix Spike Dup (W307721-MSD2)			**Source: 3073114-06**		Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....	ND	5.08		ug/l	5.00	102	90-110	0.393	10

Case Narrative:
Samples preserved with NaOH

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Quality Control Report

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND=Not detected, below the reporting limit.
Sub=Subcontracted analysis, original report enclosed.

Flags for Data Qualifiers:

O-09 = This sample was received with the EPA recommended holding time expired.

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3073101 CV-107

SUBCONTRACT ORDER

Del Mar Analytical, Irvine

Project ID # IMG1588

SENDING LABORATORY:

Del Mar Analytical, Irvine
2852 Alton Parkway
Irvine, CA 92606
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Patty Mata

RECEIVING LABORATORY:

Weck Laboratories, Inc-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634

Standard TAT is requested unless specific due date is requested => Due Date:_____ Initials:_____

Analysis	Expiration	Comments
Sample ID: IMG1588-01 Water	**Sampled: 07/30/03 08:35**	
Chromium VI-7199, 1ppb	07/31/03 08:35	Sub to Weck, try to meet Hold times.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-01E)		
Sample ID: IMG1588-02 Water	**Sampled: 07/30/03 09:25**	
Chromium VI-7199, 1ppb	07/31/03 09:25	Sub to Weck, try to meet Hold times.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-02E)		
Sample ID: IMG1588-03 Water	**Sampled: 07/30/03 10:45**	
Chromium VI-7199, 1ppb	07/31/03 10:45	Sub to Weck, try to meet Hold times.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-03E)		
Sample ID: IMG1588-04 Water	**Sampled: 07/30/03 12:15**	
Chromium VI-7199, 1ppb	07/31/03 12:15	Sub to Weck, try to meet Hold times.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-04E)		
Sample ID: IMG1588-05 Water	**Sampled: 07/30/03 14:15**	
Chromium VI-7199, 1ppb	07/31/03 14:15	Sub to Weck, try to meet Hold times.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-05E)		
Sample ID: IMG1588-06 Water	**Sampled: 07/30/03 15:20**	
Chromium VI-7199, 1ppb	07/31/03 15:20	Sub to Weck, try to meet Hold times.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-06E)		

2°C wet ice

Released By	Date	Time	Received By	Date	Time
K. Ng	7/31/03	11:25	Emilia Alcu-Mc	7/31/03	11:25
Emilia Alcu	7/31/03	12:20	Dean P	7/31/03	12:24

3073101 (1-10)

SUBCONTRACT ORDER

Del Mar Analytical, Irvine

Project ID # IMG1588

SENDING LABORATORY:

Del Mar Analytical, Irvine
2852 Alton Parkway
Irvine, CA 92606
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Patty Mata

RECEIVING LABORATORY:

Weck Laboratories, Inc-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634

Standard TAT is requested unless specific due date is requested => Due Date:_____ Initials:_____

Analysis	Expiration	Comments
Sample ID: IMG1588-07 Water	**Sampled: 07/30/03 15:40**	
Chromium VI-7199, 1ppb	07/31/03 15:40	Sub to Weck, try to meet Hold times.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-07E)		
Sample ID: IMG1588-08 Water	**Sampled: 07/30/03 16:20**	
Chromium VI-7199, 1ppb	07/31/03 16:20	Sub to Weck, try to meet Hold time. RESULT HIGH PPM
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-08E)		
Sample ID: IMG1588-09 Water	**Sampled: 07/30/03 13:05**	
Chromium VI-7199, 1ppb	07/31/03 13:05	Sub to Weck, try to meet Hold time. RESULT HIGH PPM
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-09E)		
Sample ID: IMG1588-11 Water	**Sampled: 07/30/03 11:25**	
Chromium VI-7199, 1ppb	07/31/03 11:25	Sub to Weck, try to meet Hold times.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1588-11E)		

2°C wet ice

Released By	Date	Time	Received By	Date	Time
K. [illegible]	7/31/03	1125	[illegible]	7/31/03	1125
[illegible]	7/31/03	1225	[illegible]	7/31/03	12:25

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: PhibroTech

Sampled: 07/29/03
Received: 07/29/03
Issued: 08/07/03

NELAP #01108CA CA ELAP #1197

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CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 10°C, on ice and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

EPA 8260 VOC Method Blank had Naphthalene detected above the reporting limit in QC batch 3H02009. None of the associated samples had Naphthalene detected and were not impacted.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IMG1521-01	PTI-MW01D-058	Water
IMG1521-02	PTI-MW01S-058	Water
IMG1521-03	PTI-EB01-058	Water
IMG1521-04	PTI-MW03-058	Water
IMG1521-05	PTI-TB01-058	Water

Del Mar Analytical, Irvine
Patty Mata
Project Manager

Del Mar Analytical

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-01 (PTI-MW01D-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02009	0.50	**0.98**	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
rans-1,2-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
rans-1,3-Dichloropropene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-01 (PTI-MW01D-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02009	1.0	**1.6**	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02009	1.0	**1.6**	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*95 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*91 %*				

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Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-02 (PTI-MW01S-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02009	1.0	**1.8**	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02009	0.50	**0.67**	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02009	1.0	**6.5**	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	

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Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-02 (PTI-MW01S-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02009	1.0	**13**	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-03 (PTI-EB01-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	

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Sampled: 07/29/03
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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-03 (PTI-EB01-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				

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Camp, Dresser & McKee
18581 Teller Avenue, #200
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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-04 (PTI-MW03-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02009	2.5	ND	5	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02009	2.5	**70**	5	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02009	5.0	**72**	5	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02009	25	ND	5	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02009	25	ND	5	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02009	5.0	**37**	5	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02009	2.5	**6.0**	5	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02009	5.0	**34**	5	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02009	2.5	ND	5	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02009	2.5	ND	5	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02009	25	ND	5	8/2/2003	8/2/2003	

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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-04 (PTI-MW03-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02009	5.0	**11**	5	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02009	5.0	**280**	5	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02009	2.5	ND	5	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02009	5.0	ND	5	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-05 (PTI-TB01-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Bromobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromochloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromodichloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromoform	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Bromomethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
n-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
sec-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
tert-Butylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Carbon tetrachloride	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Chlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloroform	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Chloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
2-Chlorotoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
4-Chlorotoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dibromochloromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dibromomethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,4-Dichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Dichlorodifluoromethane	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloroethane	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
1,1-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
2,2-Dichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1-Dichloropropene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
Ethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Hexachlorobutadiene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Isopropylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
p-Isopropyltoluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Methylene chloride	EPA 8260B	3H02009	5.0	ND	1	8/2/2003	8/2/2003	

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-05 (PTI-TB01-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
n-Propylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Styrene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Tetrachloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Toluene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,1-Trichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,1,2-Trichloroethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Trichloroethene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Trichlorofluoromethane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,3-Trichloropropane	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Vinyl chloride	EPA 8260B	3H02009	0.50	ND	1	8/2/2003	8/2/2003	
o-Xylene	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
m,p-Xylenes	EPA 8260B	3H02009	1.0	ND	1	8/2/2003	8/2/2003	
Surrogate: Dibromofluoromethane (80-120%)				*99 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				

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METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-01 (PTI-MW01D-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	**0.024**	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	**0.013**	1	7/31/2003	8/1/2003	
Sample ID: IMG1521-02 (PTI-MW01S-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.010	ND	2	8/1/2003	8/6/2003	RL-3
Chromium	EPA 6010B	3H01055	0.010	ND	2	8/1/2003	8/6/2003	RL-3
Copper	EPA 6010B	3H01055	0.020	**0.030**	2	8/1/2003	8/6/2003	RL-3
ample ID: IMG1521-03 (PTI-EB01-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/4/2003	
Chromium	EPA 6010B	3G31049	0.0050	**0.0078**	1	7/31/2003	8/4/2003	
Copper	EPA 6010B	3G31049	0.010	ND	1	7/31/2003	8/4/2003	
Sample ID: IMG1521-04 (PTI-MW03-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Chromium	EPA 6010B	3G31049	0.0050	ND	1	7/31/2003	8/1/2003	
Copper	EPA 6010B	3G31049	0.010	ND	1	7/31/2003	8/1/2003	

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Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1521-01 (PTI-MW01D-058 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 7199	3G29073	0.0010	ND	1	7/29/2003	7/29/2003	
ample ID: IMG1521-01 (PTI-MW01D-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G29074	NA	**7.55**	1	7/29/2003	7/29/2003	
ample ID: IMG1521-02 (PTI-MW01S-058 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 7199	3G29073	0.0010	ND	1	7/29/2003	7/29/2003	
ample ID: IMG1521-02 (PTI-MW01S-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G29074	NA	**6.76**	1	7/29/2003	7/29/2003	
ample ID: IMG1521-03 (PTI-EB01-058 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 7199	3G29073	0.0010	ND	1	7/29/2003	7/29/2003	
ample ID: IMG1521-03 (PTI-EB01-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G29074	NA	**5.97**	1	7/29/2003	7/29/2003	
ample ID: IMG1521-04 (PTI-MW03-058 - Water)								
Reporting Units: mg/l								
Chromium VI	EPA 7199	3G29073	0.0010	ND	1	7/29/2003	7/29/2003	
ample ID: IMG1521-04 (PTI-MW03-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G29074	NA	**7.09**	1	7/29/2003	7/29/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: PTI-MW01D-058 (IMG1521-01) - Water					
EPA 150.1	1	07/29/2003 13:25	07/29/2003 17:25	07/29/2003 19:01	07/29/2003 20:30
EPA 7199	1	07/29/2003 13:25	07/29/2003 17:25	07/29/2003 18:55	07/29/2003 19:58
Sample ID: PTI-MW01S-058 (IMG1521-02) - Water					
EPA 150.1	1	07/29/2003 14:30	07/29/2003 17:25	07/29/2003 19:01	07/29/2003 20:30
EPA 7199	1	07/29/2003 14:30	07/29/2003 17:25	07/29/2003 18:55	07/29/2003 20:07
Sample ID: PTI-EB01-058 (IMG1521-03) - Water					
EPA 150.1	1	07/29/2003 14:45	07/29/2003 17:25	07/29/2003 19:01	07/29/2003 20:30
EPA 7199	1	07/29/2003 14:45	07/29/2003 17:25	07/29/2003 18:55	07/29/2003 19:29
Sample ID: PTI-MW03-058 (IMG1521-04) - Water					
EPA 150.1	1	07/29/2003 15:30	07/29/2003 17:25	07/29/2003 19:01	07/29/2003 20:30
EPA 7199	1	07/29/2003 15:30	07/29/2003 17:25	07/29/2003 18:55	07/29/2003 20:17

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Sampled: 07/29/03
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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02009 Extracted: 08/02/03										
lank Analyzed: 08/02/03 (3H02009-BLK1)										
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
romochloromethane	ND	1.0	ug/l							
romodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
romomethane	ND	1.0	ug/l							
Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
tert-Butylbenzene	ND	1.0	ug/l							
arbon tetrachloride	ND	0.50	ug/l							
hlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
hloroform	ND	1.0	ug/l							
hloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
Chlorotoluene	ND	1.0	ug/l							
ibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
ibromomethane	ND	1.0	ug/l							
2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
4-Dichlorobenzene	ND	1.0	ug/l							
ichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
2-Dichloroethane	ND	0.50	ug/l							
1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
2-Dichloropropane	ND	1.0	ug/l							
3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1-Dichloropropene	ND	1.0	ug/l							
s-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							

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Project ID: PhibroTech

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Received: 07/29/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02009 Extracted: 08/02/03										
Blank Analyzed: 08/02/03 (3H02009-BLK1)										
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Isopropylbenzene	ND	1.0	ug/l							
Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Naphthalene	1.42	1.0	ug/l							B
Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
1,2,3-Trichlorobenzene	ND	1.0	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,2,4-Trimethylbenzene	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
o-Xylene	ND	1.0	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.7*		*ug/l*	*25.0*		*91*	*80-120*			

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Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02009 Extracted: 08/02/03										
CS Analyzed: 08/02/03 (3H02009-BS1)										
Benzene	22.9	0.50	ug/l	25.0		92	70-120			
Bromobenzene	23.5	1.0	ug/l	25.0		94	80-120			
romochloromethane	24.4	1.0	ug/l	25.0		98	65-135			
romodichloromethane	25.9	1.0	ug/l	25.0		104	70-140			
Bromoform	25.6	1.0	ug/l	25.0		102	55-135			
omomethane	27.0	1.0	ug/l	25.0		108	65-140			
Butylbenzene	24.4	1.0	ug/l	25.0		98	75-130			
sec-Butylbenzene	23.3	1.0	ug/l	25.0		93	75-125			
tert-Butylbenzene	23.8	1.0	ug/l	25.0		95	75-125			
arbon tetrachloride	28.8	0.50	ug/l	25.0		115	65-155			
hlorobenzene	24.1	1.0	ug/l	25.0		96	80-125			
Chloroethane	24.4	1.0	ug/l	25.0		98	60-145			
loroform	24.6	1.0	ug/l	25.0		98	70-130			
loromethane	19.2	1.0	ug/l	25.0		77	40-145			
2-Chlorotoluene	23.0	1.0	ug/l	25.0		92	75-125			
Chlorotoluene	23.7	1.0	ug/l	25.0		95	75-125			
ibromochloromethane	27.2	1.0	ug/l	25.0		109	65-145			
1,2-Dibromo-3-chloropropane	23.0	5.0	ug/l	25.0		92	50-130			
1,2-Dibromoethane (EDB)	24.3	1.0	ug/l	25.0		97	75-125			
bromomethane	24.9	1.0	ug/l	25.0		100	70-130			
2-Dichlorobenzene	23.1	1.0	ug/l	25.0		92	80-120			
1,3-Dichlorobenzene	23.2	1.0	ug/l	25.0		93	75-120			
4-Dichlorobenzene	23.4	1.0	ug/l	25.0		94	75-120			
chlorodifluoromethane	19.0	5.0	ug/l	25.0		76	10-160			
1,1-Dichloroethane	22.6	1.0	ug/l	25.0		90	70-135			
2-Dichloroethane	25.0	0.50	ug/l	25.0		100	60-150			
1-Dichloroethene	23.3	1.0	ug/l	25.0		93	70-130			
cis-1,2-Dichloroethene	21.7	1.0	ug/l	25.0		87	70-125			
trans-1,2-Dichloroethene	23.1	1.0	ug/l	25.0		92	70-130			
2-Dichloropropane	22.4	1.0	ug/l	25.0		90	65-120			
3-Dichloropropane	23.9	1.0	ug/l	25.0		96	70-130			
2,2-Dichloropropane	27.1	1.0	ug/l	25.0		108	70-150			
1-Dichloropropene	24.8	1.0	ug/l	25.0		99	75-130			
s-1,3-Dichloropropene	24.5	0.50	ug/l	25.0		98	75-130			
trans-1,3-Dichloropropene	25.1	0.50	ug/l	25.0		100	70-135			

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Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02009 Extracted: 08/02/03										
CS Analyzed: 08/02/03 (3H02009-BS1)										
Ethylbenzene	24.7	1.0	ug/l	25.0		99	70-125			
Hexachlorobutadiene	25.0	1.0	ug/l	25.0		100	70-140			
Isopropylbenzene	24.3	1.0	ug/l	25.0		97	70-125			
p-Isopropyltoluene	23.7	1.0	ug/l	25.0		95	75-125			
Methylene chloride	20.3	5.0	ug/l	25.0		81	60-135			
Naphthalene	23.8	1.0	ug/l	25.0		95	50-145			
n-Propylbenzene	24.1	1.0	ug/l	25.0		96	75-130			
Styrene	23.5	1.0	ug/l	25.0		94	80-135			
1,1,1,2-Tetrachloroethane	26.9	1.0	ug/l	25.0		108	70-145			
1,1,2,2-Tetrachloroethane	21.9	1.0	ug/l	25.0		88	60-135			
Tetrachloroethene	26.7	1.0	ug/l	25.0		107	80-125			
Toluene	24.0	1.0	ug/l	25.0		96	70-120			
1,2,3-Trichlorobenzene	24.0	1.0	ug/l	25.0		96	65-135			
1,2,4-Trichlorobenzene	24.6	1.0	ug/l	25.0		98	70-140			
1,1,1-Trichloroethane	25.7	1.0	ug/l	25.0		103	70-140			
1,1,2-Trichloroethane	23.1	1.0	ug/l	25.0		92	70-125			
Trichloroethene	24.4	1.0	ug/l	25.0		98	75-120			
Trichlorofluoromethane	24.5	1.0	ug/l	25.0		98	65-145			
1,2,3-Trichloropropane	21.8	1.0	ug/l	25.0		87	60-130			
1,2,4-Trimethylbenzene	26.2	1.0	ug/l	25.0		105	80-125			
1,3,5-Trimethylbenzene	24.8	1.0	ug/l	25.0		99	80-125			
Vinyl chloride	24.0	0.50	ug/l	25.0		96	50-130			
o-Xylene	22.4	1.0	ug/l	25.0		90	70-125			
m,p-Xylenes	47.7	1.0	ug/l	50.0		95	70-120			
Surrogate: Dibromofluoromethane	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02009 Extracted: 08/02/03										
Matrix Spike Analyzed: 08/02/03 (3H02009-MS1)					**Source: IMG1521-01**					
Benzene	26.2	0.50	ug/l	25.0	0.98	101	60-125			
Bromodichloromethane	28.8	1.0	ug/l	25.0	ND	115	70-140			
Bromoform	27.9	1.0	ug/l	25.0	ND	112	50-140			
Chlorobenzene	27.0	1.0	ug/l	25.0	ND	108	75-125			
Chloroform	28.2	1.0	ug/l	25.0	ND	113	70-130			
Dibromochloromethane	30.1	1.0	ug/l	25.0	ND	120	65-145			
1,4-Dichlorobenzene	26.2	1.0	ug/l	25.0	ND	105	70-120			
1,1-Dichloroethane	26.1	1.0	ug/l	25.0	ND	104	65-135			
1,2-Dichloroethane	28.5	0.50	ug/l	25.0	ND	114	60-150			
1,1-Dichloroethene	23.6	1.0	ug/l	25.0	ND	94	60-135			
Ethylbenzene	27.4	1.0	ug/l	25.0	ND	110	65-125			
Naphthalene	23.6	1.0	ug/l	25.0	ND	94	50-145			
Tetrachloroethene	32.2	1.0	ug/l	25.0	1.6	122	70-130			
Toluene	26.4	1.0	ug/l	25.0	ND	106	65-125			
Trichloroethene	29.0	1.0	ug/l	25.0	1.6	110	70-125			
Vinyl chloride	26.1	0.50	ug/l	25.0	ND	104	40-135			
Xylene	24.4	1.0	ug/l	25.0	ND	98	65-125			
m,p-Xylenes	51.3	1.0	ug/l	50.0	ND	103	65-120			
Surrogate: Dibromofluoromethane	*24.2*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*		*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Dup Analyzed: 08/02/03 (3H02009-MSD1)					**Source: IMG1521-01**					
Benzene	26.2	0.50	ug/l	25.0	0.98	101	60-125	0	20	
Bromodichloromethane	29.5	1.0	ug/l	25.0	ND	118	70-140	2	20	
Bromoform	29.8	1.0	ug/l	25.0	ND	119	50-140	7	25	
Chlorobenzene	26.7	1.0	ug/l	25.0	ND	107	75-125	1	20	
Chloroform	28.0	1.0	ug/l	25.0	ND	112	70-130	1	20	
Dibromochloromethane	30.8	1.0	ug/l	25.0	ND	123	65-145	2	20	
1,4-Dichlorobenzene	26.2	1.0	ug/l	25.0	ND	105	70-120	0	20	
1,1-Dichloroethane	25.9	1.0	ug/l	25.0	ND	104	65-135	1	20	
1,2-Dichloroethane	29.4	0.50	ug/l	25.0	ND	118	60-150	3	20	
1,1-Dichloroethene	24.2	1.0	ug/l	25.0	ND	97	60-135	3	20	
Ethylbenzene	27.3	1.0	ug/l	25.0	ND	109	65-125	0	20	
Naphthalene	25.4	1.0	ug/l	25.0	ND	102	50-145	7	30	

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Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H02009 Extracted: 08/02/03										
Matrix Spike Dup Analyzed: 08/02/03 (3H02009-MSD1)					**Source: IMG1521-01**					
Tetrachloroethene	32.1	1.0	ug/l	25.0	1.6	122	70-130	0	20	
Toluene	26.4	1.0	ug/l	25.0	ND	106	65-125	0	20	
Trichloroethene	28.9	1.0	ug/l	25.0	1.6	109	70-125	0	20	
Vinyl chloride	26.7	0.50	ug/l	25.0	ND	107	40-135	2	20	
o-Xylene	24.1	1.0	ug/l	25.0	ND	96	65-125	1	20	
m,p-Xylenes	50.6	1.0	ug/l	50.0	ND	101	65-120	1	20	
Surrogate: Dibromofluoromethane	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			

Del Mar Analytical, Irvine
Kitty Mata
Project Manager

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3G31049 Extracted: 07/31/03										
lank Analyzed: 08/04/03 (3G31049-BLK1)										
Cadmium	ND	0.0050	mg/l							
Chromium	ND	0.0050	mg/l							
opper	ND	0.010	mg/l							
LCS Analyzed: 08/01/03 (3G31049-BS1)										
Cadmium	0.980	0.0050	mg/l	1.00		98	80-120			
hromium	0.991	0.0050	mg/l	1.00		99	80-120			
Copper	0.997	0.010	mg/l	1.00		100	80-120			
Matrix Spike Analyzed: 08/01/03 (3G31049-MS1)					**Source: IMG1565-01**					
admium	0.967	0.0050	mg/l	1.00	0.0010	97	75-125			
Chromium	0.987	0.0050	mg/l	1.00	0.0021	98	75-125			
Copper	0.969	0.010	mg/l	1.00	0.0019	97	75-125			
Matrix Spike Dup Analyzed: 08/01/03 (3G31049-MSD1)					**Source: IMG1565-01**					
Cadmium	0.967	0.0050	mg/l	1.00	0.0010	97	75-125	0	20	
Chromium	0.983	0.0050	mg/l	1.00	0.0021	98	75-125	0	20	
opper	0.963	0.010	mg/l	1.00	0.0019	96	75-125	1	20	
Batch: 3H01055 Extracted: 08/01/03										
lank Analyzed: 08/04/03 (3H01055-BLK1)										
admium	ND	0.0050	mg/l							
Chromium	ND	0.0050	mg/l							
opper	ND	0.010	mg/l							
LCS Analyzed: 08/04/03 (3H01055-BS1)										
Cadmium	1.02	0.0050	mg/l	1.00		102	80-120			
hromium	1.02	0.0050	mg/l	1.00		102	80-120			
opper	1.03	0.010	mg/l	1.00		103	80-120			

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18581 Teller Avenue, #200
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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1521

Sampled: 07/29/03
Received: 07/29/03

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H01055 Extracted: 08/01/03										
Matrix Spike Analyzed: 08/04/03 (3H01055-MS1)					**Source: IMG1613-01**					
Cadmium	0.952	0.0050	mg/l	1.00	ND	95	75-125			
Chromium	1.00	0.0050	mg/l	1.00	0.0038	100	75-125			
Copper	1.01	0.010	mg/l	1.00	0.0070	100	75-125			
Matrix Spike Dup Analyzed: 08/04/03 (3H01055-MSD1)					**Source: IMG1613-01**					
Cadmium	0.944	0.0050	mg/l	1.00	ND	94	75-125	1	20	
Chromium	0.982	0.0050	mg/l	1.00	0.0038	98	75-125	2	20	
Copper	1.01	0.010	mg/l	1.00	0.0070	100	75-125	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3G29073 Extracted: 07/29/03										
Blank Analyzed: 07/29/03 (3G29073-BLK1)										
Chromium VI	ND	0.0010	mg/l							
LCS Analyzed: 07/29/03 (3G29073-BS1)										
Chromium VI	0.0520	0.0010	mg/l	0.0500		104	90-110			
Matrix Spike Analyzed: 07/29/03 (3G29073-MS1)					**Source: IMG1521-03**					
Chromium VI	0.0514	0.0010	mg/l	0.0500	ND	103	80-115			
Matrix Spike Dup Analyzed: 07/29/03 (3G29073-MSD1)					**Source: IMG1521-03**					
Chromium VI	0.0516	0.0010	mg/l	0.0500	ND	103	80-115	0	15	
Batch: 3G29074 Extracted: 07/29/03										
Duplicate Analyzed: 07/29/03 (3G29074-DUP1)					**Source: IMG1477-01**					
pH	6.25	NA	pH Units		6.25			0	5	

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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
RL-3	Reporting limit raised due to high concentrations of non-target analytes.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA
EPA 150.1	Water	X	X
EPA 6010B	Water	X	X
EPA 7199	Water	X	X
EPA 8260B	Water	X	X

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

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LABORATORY REPORT

Prepared For: Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project: PhibroTech

Sampled: 07/31/03
Received: 07/31/03
Issued: 08/13/03

NELAP #01108CA CA ELAP #1197

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 6°C, on ice and with chain of custody documentation.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Due to Del Mar Analytical instrument failure, the Hexavalent Chromium analysis by EPA 7199 was performed by Weck Laboratories. Slight differences between laboratory LIMS systems for Del Mar and Weck causes the report page header to show method "EPA 218.6" for Hex Cr, but analysis was performed by EPA method 7199.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID	CLIENT ID	MATRIX
IMG1613-01	PTI-MW16-058	Water
IMG1613-02	PTI-MW37-058	Water
IMG1613-03	PTI-MW09-058	Water
IMG1613-04	PTI-MW11-058	Water
IMG1613-05	PTI-EB03-058	Water
IMG1613-06	PTI-DI-058	Water
IMG1613-07	PTI-TB03-058	Water

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Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-01 (PTI-MW16-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H04009	0.50	**0.51**	1	8/4/2003	8/4/2003	
Bromobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromochloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromodichloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromoform	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromomethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
n-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
sec-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
tert-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Carbon tetrachloride	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Chlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloroform	EPA 8260B	3H04009	1.0	**1.0**	1	8/4/2003	8/4/2003	
Chloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
2-Chlorotoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
4-Chlorotoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dibromochloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dibromomethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,4-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dichlorodifluoromethane	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	
1,1-Dichloroethane	EPA 8260B	3H04009	1.0	**180**	1	8/4/2003	8/4/2003	
1,2-Dichloroethane	EPA 8260B	3H04009	0.50	**25**	1	8/4/2003	8/4/2003	
1,1-Dichloroethene	EPA 8260B	3H04009	1.0	**19**	1	8/4/2003	8/4/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H04009	1.0	**29**	1	8/4/2003	8/4/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H04009	1.0	**6.1**	1	8/4/2003	8/4/2003	
1,2-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
2,2-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1-Dichloropropene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Ethylbenzene	EPA 8260B	3H04009	1.0	**1.5**	1	8/4/2003	8/4/2003	
Hexachlorobutadiene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Isopropylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
p-Isopropyltoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Methylene chloride	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	

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Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-01 (PTI-MW16-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
n-Propylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Styrene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Tetrachloroethene	EPA 8260B	3H04009	1.0	**2.3**	1	8/4/2003	8/4/2003	
Toluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,1-Trichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,2-Trichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Trichloroethene	EPA 8260B	3H04009	1.0	**38**	1	8/4/2003	8/4/2003	
Trichlorofluoromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,3-Trichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Vinyl chloride	EPA 8260B	3H04009	0.50	**0.69**	1	8/4/2003	8/4/2003	
o-Xylene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
m,p-Xylenes	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Surrogate: Dibromofluoromethane (80-120%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				

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Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-02 (PTI-MW37-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H04009	2.5	ND	5	8/4/2003	8/4/2003	
Bromobenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Bromochloromethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Bromodichloromethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Bromoform	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Bromomethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
n-Butylbenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
sec-Butylbenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
tert-Butylbenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Carbon tetrachloride	EPA 8260B	3H04009	2.5	ND	5	8/4/2003	8/4/2003	
Chlorobenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Chloroethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Chloroform	EPA 8260B	3H04009	5.0	**170**	5	8/4/2003	8/4/2003	
Chloromethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
2-Chlorotoluene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
4-Chlorotoluene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Dibromochloromethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H04009	25	ND	5	8/4/2003	8/4/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Dibromomethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,2-Dichlorobenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,3-Dichlorobenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,4-Dichlorobenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Dichlorodifluoromethane	EPA 8260B	3H04009	25	ND	5	8/4/2003	8/4/2003	
1,1-Dichloroethane	EPA 8260B	3H04009	5.0	**390**	5	8/4/2003	8/4/2003	
1,2-Dichloroethane	EPA 8260B	3H04009	2.5	**310**	5	8/4/2003	8/4/2003	
1,1-Dichloroethene	EPA 8260B	3H04009	5.0	**120**	5	8/4/2003	8/4/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H04009	5.0	**22**	5	8/4/2003	8/4/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,2-Dichloropropane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,3-Dichloropropane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
2,2-Dichloropropane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,1-Dichloropropene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H04009	2.5	ND	5	8/4/2003	8/4/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H04009	2.5	ND	5	8/4/2003	8/4/2003	
Ethylbenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Hexachlorobutadiene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Isopropylbenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
p-Isopropyltoluene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Methylene chloride	EPA 8260B	3H04009	25	**81**	5	8/4/2003	8/4/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-02 (PTI-MW37-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
n-Propylbenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Styrene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Tetrachloroethene	EPA 8260B	3H04009	5.0	**9.0**	5	8/4/2003	8/4/2003	
Toluene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,1,1-Trichloroethane	EPA 8260B	3H04009	5.0	**7.2**	5	8/4/2003	8/4/2003	
1,1,2-Trichloroethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Trichloroethene	EPA 8260B	3H04009	5.0	**460**	5	8/4/2003	8/4/2003	
Trichlorofluoromethane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,2,3-Trichloropropane	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Vinyl chloride	EPA 8260B	3H04009	2.5	ND	5	8/4/2003	8/4/2003	
o-Xylene	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
m,p-Xylenes	EPA 8260B	3H04009	5.0	ND	5	8/4/2003	8/4/2003	
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-03 (PTI-MW09-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
Bromobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Bromochloromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Bromodichloromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Bromoform	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Bromomethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
n-Butylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
sec-Butylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
ert-Butylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Carbon tetrachloride	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
Chlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Chloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Chloroform	EPA 8260B	3H04009	10	**160**	10	8/4/2003	8/4/2003	
Chloromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
2-Chlorotoluene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
4-Chlorotoluene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Dibromochloromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H04009	50	ND	10	8/4/2003	8/4/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Dibromomethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2-Dichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,3-Dichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,4-Dichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Dichlorodifluoromethane	EPA 8260B	3H04009	50	ND	10	8/4/2003	8/4/2003	
1,1-Dichloroethane	EPA 8260B	3H04009	10	**370**	10	8/4/2003	8/4/2003	
1,2-Dichloroethane	EPA 8260B	3H04009	5.0	**330**	10	8/4/2003	8/4/2003	
1,1-Dichloroethene	EPA 8260B	3H04009	10	**120**	10	8/4/2003	8/4/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H04009	10	**20**	10	8/4/2003	8/4/2003	
rans-1,2-Dichloroethene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2-Dichloropropane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,3-Dichloropropane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
2,2-Dichloropropane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1-Dichloropropene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
Ethylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Hexachlorobutadiene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Isopropylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
p-Isopropyltoluene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Methylene chloride	EPA 8260B	3H04009	50	**84**	10	8/4/2003	8/4/2003	

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Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-03 (PTI-MW09-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
n-Propylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Styrene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Tetrachloroethene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Toluene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1,1-Trichloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1,2-Trichloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Trichloroethene	EPA 8260B	3H04009	10	**480**	10	8/4/2003	8/4/2003	
Trichlorofluoromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2,3-Trichloropropane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Vinyl chloride	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
o-Xylene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
m,p-Xylenes	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Surrogate: Dibromofluoromethane (80-120%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-04 (PTI-MW11-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
Bromobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Bromochloromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Bromodichloromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Bromoform	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Bromomethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
n-Butylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
sec-Butylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
tert-Butylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Carbon tetrachloride	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
Chlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Chloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Chloroform	EPA 8260B	3H04009	10	**50**	10	8/4/2003	8/4/2003	
Chloromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
2-Chlorotoluene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
4-Chlorotoluene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Dibromochloromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H04009	50	ND	10	8/4/2003	8/4/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Dibromomethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2-Dichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,3-Dichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,4-Dichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Dichlorodifluoromethane	EPA 8260B	3H04009	50	ND	10	8/4/2003	8/4/2003	
1,1-Dichloroethane	EPA 8260B	3H04009	10	**370**	10	8/4/2003	8/4/2003	
1,2-Dichloroethane	EPA 8260B	3H04009	5.0	**5.4**	10	8/4/2003	8/4/2003	
1,1-Dichloroethene	EPA 8260B	3H04009	10	**96**	10	8/4/2003	8/4/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H04009	10	**44**	10	8/4/2003	8/4/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2-Dichloropropane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,3-Dichloropropane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
2,2-Dichloropropane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1-Dichloropropene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
Ethylbenzene	EPA 8260B	3H04009	10	**210**	10	8/4/2003	8/4/2003	
Hexachlorobutadiene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Isopropylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
p-Isopropyltoluene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Methylene chloride	EPA 8260B	3H04009	50	ND	10	8/4/2003	8/4/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-04 (PTI-MW11-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
n-Propylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Styrene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Tetrachloroethene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Toluene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1,1-Trichloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,1,2-Trichloroethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Trichloroethene	EPA 8260B	3H04009	10	**1100**	10	8/4/2003	8/4/2003	
Trichlorofluoromethane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2,3-Trichloropropane	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H04009	10	ND	10	8/4/2003	8/4/2003	
Vinyl chloride	EPA 8260B	3H04009	5.0	ND	10	8/4/2003	8/4/2003	
o-Xylene	EPA 8260B	3H04009	10	**13**	10	8/4/2003	8/4/2003	
m,p-Xylenes	EPA 8260B	3H04009	10	**81**	10	8/4/2003	8/4/2003	
Surrogate: Dibromofluoromethane (80-120%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-05 (PTI-EB03-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Bromobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromochloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromodichloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromoform	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromomethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
n-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
sec-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
tert-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Carbon tetrachloride	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Chlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloroform	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
2-Chlorotoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
4-Chlorotoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dibromochloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dibromomethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,4-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dichlorodifluoromethane	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	
1,1-Dichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichloroethane	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
1,1-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
rans-1,2-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
2,2-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1-Dichloropropene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
'rans-1,3-Dichloropropene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Ethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Hexachlorobutadiene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Isopropylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
p-Isopropyltoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Methylene chloride	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	

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Camp, Dresser & McKee
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Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-05 (PTI-EB03-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
n-Propylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Styrene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Tetrachloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Toluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,1-Trichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,2-Trichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Trichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Trichlorofluoromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,3-Trichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Vinyl chloride	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
o-Xylene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
m,p-Xylenes	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*97 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*96 %*				

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-06 (PTI-DI-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Bromobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromochloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromodichloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromoform	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromomethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
n-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
sec-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
ert-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Carbon tetrachloride	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Chlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloroform	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
2-Chlorotoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
4-Chlorotoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dibromochloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dibromomethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,4-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dichlorodifluoromethane	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	
1,1-Dichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichloroethane	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
1,1-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
rans-1,2-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
2,2-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1-Dichloropropene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Ethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Hexachlorobutadiene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Isopropylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
p-Isopropyltoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Methylene chloride	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	

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Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-06 (PTI-DI-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
n-Propylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Styrene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Tetrachloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Toluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,1-Trichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,2-Trichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Trichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Trichlorofluoromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,3-Trichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Vinyl chloride	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
o-Xylene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
m,p-Xylenes	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*96 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*98 %*				

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Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-07 (PTI-TB03-058 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Bromobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromochloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromodichloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromoform	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Bromomethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
n-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
sec-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
tert-Butylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Carbon tetrachloride	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Chlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloroform	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Chloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
2-Chlorotoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
4-Chlorotoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dibromochloromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dibromo-3-chloropropane	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	
1,2-Dibromoethane (EDB)	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dibromomethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,4-Dichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Dichlorodifluoromethane	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	
1,1-Dichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichloroethane	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
1,1-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
cis-1,2-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
trans-1,2-Dichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
2,2-Dichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1-Dichloropropene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
cis-1,3-Dichloropropene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
trans-1,3-Dichloropropene	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
Ethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Hexachlorobutadiene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Isopropylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
p-Isopropyltoluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Methylene chloride	EPA 8260B	3H04009	5.0	ND	1	8/4/2003	8/4/2003	

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-07 (PTI-TB03-058 - Water) - cont.								
Reporting Units: ug/l								
Naphthalene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
n-Propylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Styrene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,1,2-Tetrachloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,2,2-Tetrachloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Tetrachloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Toluene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,3-Trichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,4-Trichlorobenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,1-Trichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,1,2-Trichloroethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Trichloroethene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Trichlorofluoromethane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,3-Trichloropropane	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,2,4-Trimethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
1,3,5-Trimethylbenzene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Vinyl chloride	EPA 8260B	3H04009	0.50	ND	1	8/4/2003	8/4/2003	
o-Xylene	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
m,p-Xylenes	EPA 8260B	3H04009	1.0	ND	1	8/4/2003	8/4/2003	
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*98 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*97 %*				

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Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-01 (PTI-MW16-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/4/2003	
Chromium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/4/2003	
Copper	EPA 6010B	3H01055	0.010	ND	1	8/1/2003	8/4/2003	
Sample ID: IMG1613-02 (PTI-MW37-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/4/2003	
Chromium	EPA 6010B	3H01055	0.0050	**2.2**	1	8/1/2003	8/4/2003	
Copper	EPA 6010B	3H01055	0.010	ND	1	8/1/2003	8/4/2003	
ample ID: IMG1613-03 (PTI-MW09-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/4/2003	
Chromium	EPA 6010B	3H01055	0.0050	**2.2**	1	8/1/2003	8/4/2003	
Copper	EPA 6010B	3H01055	0.010	ND	1	8/1/2003	8/4/2003	
ample ID: IMG1613-04 (PTI-MW11-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/4/2003	
Chromium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/4/2003	
Copper	EPA 6010B	3H01055	0.010	ND	1	8/1/2003	8/4/2003	
Sample ID: IMG1613-05 (PTI-EB03-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/5/2003	
Chromium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/5/2003	
Copper	EPA 6010B	3H01055	0.010	ND	1	8/1/2003	8/5/2003	
ample ID: IMG1613-06 (PTI-DI-058 - Water)								
Reporting Units: mg/l								
Cadmium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/5/2003	
Chromium	EPA 6010B	3H01055	0.0050	ND	1	8/1/2003	8/5/2003	
Copper	EPA 6010B	3H01055	0.010	ND	1	8/1/2003	8/5/2003	

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Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-01 (PTI-MW16-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G31104	NA	**6.82**	1	7/31/2003	7/31/2003	
ample ID: IMG1613-02 (PTI-MW37-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G31104	NA	**6.66**	1	7/31/2003	7/31/2003	
ample ID: IMG1613-03 (PTI-MW09-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G31104	NA	**6.69**	1	7/31/2003	7/31/2003	
ample ID: IMG1613-04 (PTI-MW11-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G31104	NA	**6.73**	1	7/31/2003	7/31/2003	
ample ID: IMG1613-05 (PTI-EB03-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G31104	NA	**5.24**	1	7/31/2003	7/31/2003	
ample ID: IMG1613-06 (PTI-DI-058 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	3G31104	NA	**4.60**	1	7/31/2003	7/31/2003	

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Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

Dissolved Hexavalent Chromium by IC, EPA 218.6

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
ample ID: IMG1613-01 (PTI-MW16-058 - Water)								
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	**4.0**	1	7/31/2003	7/31/2003	
ample ID: IMG1613-02 (PTI-MW37-058 - Water)								
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	150	**2200**	500	7/31/2003	7/31/2003	
ample ID: IMG1613-03 (PTI-MW09-058 - Water)								
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	150	**2100**	500	7/31/2003	7/31/2003	
ample ID: IMG1613-04 (PTI-MW11-058 - Water)								
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	**1.2**	1	7/31/2003	7/31/2003	
ample ID: IMG1613-05 (PTI-EB03-058 - Water)								
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	ND	1	7/31/2003	7/31/2003	
ample ID: IMG1613-06 (PTI-DI-058 - Water)								
Reporting Units: ug/l								
Hexavalent Chromium	EPA 7199	W307721	0.30	ND	1	7/31/2003	7/31/2003	

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Sampled: 07/31/03
Received: 07/31/03

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: PTI-MW16-058 (IMG1613-01) - Water					
EPA 150.1	1	07/31/2003 08:10	07/31/2003 12:20	07/31/2003 14:00	07/31/2003 15:00
EPA 7199	1	07/31/2003 08:10	07/31/2003 12:20	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW37-058 (IMG1613-02) - Water					
EPA 150.1	1	07/31/2003 07:30	07/31/2003 12:20	07/31/2003 14:00	07/31/2003 15:00
EPA 7199	1	07/31/2003 07:30	07/31/2003 12:20	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW09-058 (IMG1613-03) - Water					
EPA 150.1	1	07/31/2003 08:55	07/31/2003 12:20	07/31/2003 14:00	07/31/2003 15:00
EPA 7199	1	07/31/2003 08:55	07/31/2003 12:20	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-MW11-058 (IMG1613-04) - Water					
EPA 150.1	1	07/31/2003 10:00	07/31/2003 12:20	07/31/2003 14:00	07/31/2003 15:00
EPA 7199	1	07/31/2003 10:00	07/31/2003 12:20	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-EB03-058 (IMG1613-05) - Water					
EPA 150.1	1	07/31/2003 09:10	07/31/2003 12:20	07/31/2003 14:00	07/31/2003 15:00
EPA 7199	1	07/31/2003 09:10	07/31/2003 12:20	07/31/2003 12:44	07/31/2003 12:44
Sample ID: PTI-DI-058 (IMG1613-06) - Water					
EPA 150.1	1	07/31/2003 12:01	07/31/2003 12:20	07/31/2003 14:00	07/31/2003 15:00
EPA 7199	1	07/31/2003 12:01	07/31/2003 12:20	07/31/2003 12:44	07/31/2003 12:44

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Sampled: 07/31/03
Received: 07/31/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H04009 Extracted: 08/04/03										
lank Analyzed: 08/04/03 (3H04009-BLK1)										
Benzene	ND	0.50	ug/l							
Bromobenzene	ND	1.0	ug/l							
romochloromethane	ND	1.0	ug/l							
romodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
romomethane	ND	1.0	ug/l							
-Butylbenzene	ND	1.0	ug/l							
sec-Butylbenzene	ND	1.0	ug/l							
ert-Butylbenzene	ND	1.0	ug/l							
arbon tetrachloride	ND	0.50	ug/l							
hlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
hloroform	ND	1.0	ug/l							
hloromethane	ND	1.0	ug/l							
2-Chlorotoluene	ND	1.0	ug/l							
-Chlorotoluene	ND	1.0	ug/l							
ibromochloromethane	ND	1.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
ibromomethane	ND	1.0	ug/l							
,2-Dichlorobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
,4-Dichlorobenzene	ND	1.0	ug/l							
ichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
2-Dichloroethane	ND	0.50	ug/l							
,1-Dichloroethene	ND	1.0	ug/l							
cis-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
2-Dichloropropane	ND	1.0	ug/l							
3-Dichloropropane	ND	1.0	ug/l							
2,2-Dichloropropane	ND	1.0	ug/l							
1-Dichloropropene	ND	1.0	ug/l							
s-1,3-Dichloropropene	ND	0.50	ug/l							
trans-1,3-Dichloropropene	ND	0.50	ug/l							

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Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H04009 Extracted: 08/04/03										
lank Analyzed: 08/04/03 (3H04009-BLK1)										
Ethylbenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
opropylbenzene	ND	1.0	ug/l							
lsopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
aphthalene	ND	1.0	ug/l							
Propylbenzene	ND	1.0	ug/l							
Styrene	ND	1.0	ug/l							
1,1,2-Tetrachloroethane	ND	1.0	ug/l							
1,2,2-Tetrachloroethane	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
2,3-Trichlorobenzene	ND	1.0	ug/l							
2,4-Trichlorobenzene	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,2-Trichloroethane	ND	1.0	ug/l							
ichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							
1,2,3-Trichloropropane	ND	1.0	ug/l							
2,4-Trimethylbenzene	ND	1.0	ug/l							
3,5-Trimethylbenzene	ND	1.0	ug/l							
Vinyl chloride	ND	0.50	ug/l							
Xylene	ND	1.0	ug/l							
p-Xylenes	ND	1.0	ug/l							
Surrogate: Dibromofluoromethane	*25.2*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
rrogate: 4-Bromofluorobenzene	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			

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VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H04009 Extracted: 08/04/03										
CS Analyzed: 08/04/03 (3H04009-BS1)										
enzene	24.8	0.50	ug/l	25.0		99	70-120			
Bromobenzene	25.1	1.0	ug/l	25.0		100	80-120			
romochloromethane	27.4	1.0	ug/l	25.0		110	65-135			
romodichloromethane	27.9	1.0	ug/l	25.0		112	70-140			
Bromoform	25.3	1.0	ug/l	25.0		101	55-135			
romomethane	26.7	1.0	ug/l	25.0		107	65-140			
Butylbenzene	26.8	1.0	ug/l	25.0		107	75-130			
sec-Butylbenzene	26.5	1.0	ug/l	25.0		106	75-125			
tert-Butylbenzene	26.5	1.0	ug/l	25.0		106	75-125			
arbon tetrachloride	31.0	0.50	ug/l	25.0		124	65-155			
hlorobenzene	25.3	1.0	ug/l	25.0		101	80-125			
Chloroethane	23.9	1.0	ug/l	25.0		96	60-145			
hloroform	27.9	1.0	ug/l	25.0		112	70-130			
hloromethane	22.3	1.0	ug/l	25.0		89	40-145			
2-Chlorotoluene	25.6	1.0	ug/l	25.0		102	75-125			
4-Chlorotoluene	26.4	1.0	ug/l	25.0		106	75-125			
ibromochloromethane	27.4	1.0	ug/l	25.0		110	65-145			
1,2-Dibromo-3-chloropropane	25.9	5.0	ug/l	25.0		104	50-130			
1,2-Dibromoethane (EDB)	25.9	1.0	ug/l	25.0		104	75-125			
ibromomethane	27.0	1.0	ug/l	25.0		108	70-130			
2-Dichlorobenzene	25.7	1.0	ug/l	25.0		103	80-120			
1,3-Dichlorobenzene	25.3	1.0	ug/l	25.0		101	75-120			
4-Dichlorobenzene	25.1	1.0	ug/l	25.0		100	75-120			
ichlorodifluoromethane	27.3	5.0	ug/l	25.0		109	10-160			
1,1-Dichloroethane	27.7	1.0	ug/l	25.0		111	70-135			*M3*
1,2-Dichloroethane	27.4	0.50	ug/l	25.0		110	60-150			
1-Dichloroethene	28.7	1.0	ug/l	25.0		115	70-130			
s-1,2-Dichloroethene	25.8	1.0	ug/l	25.0		103	70-125			
trans-1,2-Dichloroethene	27.2	1.0	ug/l	25.0		109	70-130			
2-Dichloropropane	25.5	1.0	ug/l	25.0		102	65-120			
3-Dichloropropane	25.0	1.0	ug/l	25.0		100	70-130			
2,2-Dichloropropane	30.1	1.0	ug/l	25.0		120	70-150			
1-Dichloropropene	27.1	1.0	ug/l	25.0		108	75-130			
s-1,3-Dichloropropene	27.2	0.50	ug/l	25.0		109	75-130			
trans-1,3-Dichloropropene	27.9	0.50	ug/l	25.0		112	70-135			

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Project ID: PhibroTech

Report Number: IMG1613

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Received: 07/31/03

METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H04009 Extracted: 08/04/03										
CS Analyzed: 08/04/03 (3H04009-BS1)										
Ethylbenzene	26.3	1.0	ug/l	25.0		105	70-125			
Hexachlorobutadiene	24.8	1.0	ug/l	25.0		99	70-140			
opropylbenzene	27.1	1.0	ug/l	25.0		108	70-125			
Isopropyltoluene	25.6	1.0	ug/l	25.0		102	75-125			
Methylene chloride	25.5	5.0	ug/l	25.0		102	60-135			
aphthalene	24.4	1.0	ug/l	25.0		98	50-145			
Propylbenzene	27.1	1.0	ug/l	25.0		108	75-130			
Styrene	27.1	1.0	ug/l	25.0		108	80-135			
1,1,2-Tetrachloroethane	28.1	1.0	ug/l	25.0		112	70-145			
1,2,2-Tetrachloroethane	26.5	1.0	ug/l	25.0		106	60-135			
etrachloroethene	25.8	1.0	ug/l	25.0		103	80-125			
Toluene	25.7	1.0	ug/l	25.0		103	70-120			
2,3-Trichlorobenzene	24.4	1.0	ug/l	25.0		98	65-135			
2,4-Trichlorobenzene	25.5	1.0	ug/l	25.0		102	70-140			
1,1,1-Trichloroethane	30.1	1.0	ug/l	25.0		120	70-140			
1,2-Trichloroethane	25.3	1.0	ug/l	25.0		101	70-125			
richloroethene	25.4	1.0	ug/l	25.0		102	75-120			
Trichlorofluoromethane	29.2	1.0	ug/l	25.0		117	65-145			
1,2,3-Trichloropropane	24.6	1.0	ug/l	25.0		98	60-130			
2,4-Trimethylbenzene	26.6	1.0	ug/l	25.0		106	80-125			
3,5-Trimethylbenzene	26.7	1.0	ug/l	25.0		107	80-125			
Vinyl chloride	25.2	0.50	ug/l	25.0		101	50-130			
Xylene	25.7	1.0	ug/l	25.0		103	70-125			
p-Xylenes	52.1	1.0	ug/l	50.0		104	70-120			
Surrogate: Dibromofluoromethane	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
urrogate: 4-Bromofluorobenzene	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H04009 Extracted: 08/04/03										
Matrix Spike Analyzed: 08/04/03 (3H04009-MS1)					**Source: IMG1613-01**					
Benzene	24.6	0.50	ug/l	25.0	0.51	96	60-125			
Bromodichloromethane	28.2	1.0	ug/l	25.0	ND	113	70-140			
Bromoform	24.8	1.0	ug/l	25.0	ND	99	50-140			
Chlorobenzene	26.3	1.0	ug/l	25.0	ND	105	75-125			
Chloroform	29.0	1.0	ug/l	25.0	1.0	112	70-130			
Dibromochloromethane	27.5	1.0	ug/l	25.0	ND	110	65-145			
1,4-Dichlorobenzene	25.1	1.0	ug/l	25.0	ND	100	70-120			
1,2-Dichloroethane	52.2	0.50	ug/l	25.0	25	109	60-150			
1,1-Dichloroethene	46.6	1.0	ug/l	25.0	19	110	60-135			
Ethylbenzene	28.0	1.0	ug/l	25.0	1.5	106	65-125			
Naphthalene	24.2	1.0	ug/l	25.0	ND	97	50-145			
Tetrachloroethene	28.3	1.0	ug/l	25.0	2.3	104	70-130			
Toluene	25.2	1.0	ug/l	25.0	ND	101	65-125			
Trichloroethene	59.8	1.0	ug/l	25.0	38	87	70-125			
Vinyl chloride	24.7	0.50	ug/l	25.0	0.69	96	40-135			
Xylene	26.1	1.0	ug/l	25.0	ND	104	65-125			
m,p-Xylenes	51.9	1.0	ug/l	50.0	ND	104	65-120			
Surrogate: Dibromofluoromethane	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 08/04/03 (3H04009-MSD1)					**Source: IMG1613-01**					
Benzene	24.5	0.50	ug/l	25.0	0.51	96	60-125	0	20	
Bromodichloromethane	28.5	1.0	ug/l	25.0	ND	114	70-140	1	20	
Bromoform	25.7	1.0	ug/l	25.0	ND	103	50-140	4	25	
Chlorobenzene	26.4	1.0	ug/l	25.0	ND	106	75-125	0	20	
Chloroform	28.6	1.0	ug/l	25.0	1.0	110	70-130	1	20	
Dibromochloromethane	28.1	1.0	ug/l	25.0	ND	112	65-145	2	20	
1,4-Dichlorobenzene	24.6	1.0	ug/l	25.0	ND	98	70-120	2	20	
1,2-Dichloroethane	52.3	0.50	ug/l	25.0	25	109	60-150	0	20	
1,1-Dichloroethene	45.0	1.0	ug/l	25.0	19	104	60-135	3	20	
Ethylbenzene	27.8	1.0	ug/l	25.0	1.5	105	65-125	1	20	
Naphthalene	25.2	1.0	ug/l	25.0	ND	101	50-145	4	30	
Tetrachloroethene	27.9	1.0	ug/l	25.0	2.3	102	70-130	1	20	
Toluene	25.2	1.0	ug/l	25.0	ND	101	65-125	0	20	

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H04009 Extracted: 08/04/03										
Matrix Spike Dup Analyzed: 08/04/03 (3H04009-MSD1)					**Source: IMG1613-01**					
Trichloroethene	59.2	1.0	ug/l	25.0	38	85	70-125	1	20	
Vinyl chloride	24.2	0.50	ug/l	25.0	0.69	94	40-135	2	20	
Xylene	25.8	1.0	ug/l	25.0	ND	103	65-125	1	20	
m,p-Xylenes	51.5	1.0	ug/l	50.0	ND	103	65-120	1	20	
Surrogate: Dibromofluoromethane	*25.8*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*24.4*		*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			

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METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3H01055 Extracted: 08/01/03										
Blank Analyzed: 08/04/03 (3H01055-BLK1)										
Cadmium	ND	0.0050	mg/l							
Chromium	ND	0.0050	mg/l							
Copper	ND	0.010	mg/l							
LCS Analyzed: 08/04/03 (3H01055-BS1)										
Cadmium	1.02	0.0050	mg/l	1.00		102	80-120			
Chromium	1.02	0.0050	mg/l	1.00		102	80-120			
Copper	1.03	0.010	mg/l	1.00		103	80-120			
Matrix Spike Analyzed: 08/04/03 (3H01055-MS1)					**Source: IMG1613-01**					
Cadmium	0.952	0.0050	mg/l	1.00	ND	95	75-125			
Chromium	1.00	0.0050	mg/l	1.00	0.0038	100	75-125			
Copper	1.01	0.010	mg/l	1.00	0.0070	100	75-125			
Matrix Spike Dup Analyzed: 08/04/03 (3H01055-MSD1)					**Source: IMG1613-01**					
Cadmium	0.944	0.0050	mg/l	1.00	ND	94	75-125	1	20	
Chromium	0.982	0.0050	mg/l	1.00	0.0038	98	75-125	2	20	
Copper	1.01	0.010	mg/l	1.00	0.0070	100	75-125	0	20	

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INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 3G31104 Extracted: 07/31/03										
Duplicate Analyzed: 07/31/03 (3G31104-DUP1)					**Source: IMG1608-01**					
pH	8.16	NA	pH Units		8.17			0	5	

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Dissolved Hexavalent Chromium by IC, EPA 218.6

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: W307721 Extracted: 07/31/03										
Blank Analyzed: 07/31/03 (W307721-BLK1)										
Hexavalent Chromium	ND	0.30	ug/l							
Blank Analyzed: 07/31/03 (W307721-BLK2)										
Hexavalent Chromium	ND	0.30	ug/l							
LCS Analyzed: 07/31/03 (W307721-BS1)										
Hexavalent Chromium	5.19	0.30	ug/l	5.00		104	90-110			
Matrix Spike Analyzed: 07/31/03 (W307721-MS1)					**Source: 3073107-07**					
Hexavalent Chromium	5.26	0.30	ug/l	5.00	ND	105	90-110			
Matrix Spike Analyzed: 07/31/03 (W307721-MS2)					**Source: IMG1613-06**					
Hexavalent Chromium	5.10	0.30	ug/l	5.00	ND	102	90-110			
Matrix Spike Dup Analyzed: 07/31/03 (W307721-MSD1)					**Source: 3073107-07**					
Hexavalent Chromium	5.26	0.30	ug/l	5.00	ND	105	90-110	0	10	
Matrix Spike Dup Analyzed: 07/31/03 (W307721-MSD2)					**Source: IMG1613-06**					
Hexavalent Chromium	5.08	0.30	ug/l	5.00	ND	102	90-110	0	10	

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

DATA QUALIFIERS AND DEFINITIONS

M3	Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

Del Mar Analytical, Irvine
Patty Mata
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Camp, Dresser & McKee
18581 Teller Avenue, #200
Irvine, CA 92612
Attention: Sharon Wallin

Project ID: PhibroTech

Report Number: IMG1613

Sampled: 07/31/03
Received: 07/31/03

Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA
EPA 150.1	Water	X	X
EPA 6010B	Water	X	X
EPA 8260B	Water	X	X

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

ubcontracted Laboratories

Weck Laboratories, Inc. *CA ELAP Cert #1132*

14859 E. Clark Avenue - City of Industry, CA 91745

Method Performed: EPA 7199

Samples: IMG1613-01, IMG1613-02, IMG1613-03, IMG1613-04, IMG1613-05, IMG1613-06

'el Mar Analytical, Irvine
atty Mata
Project Manager

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Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Report Date: Friday, August 1, 2003
Received Date: Thursday, July 31, 2003
Received Time: 3:15 pm

Turnaround Time: Normal

Client: Del Mar Analytical
2852 Alton Parkway
Irvine, CA 92606

Phone: (949) 261-1022
FAX: (949) 261-1228

Attn: Patty Mata

Project: IMG1613

P.O.#:

Certificate of Analysis

Work Order No: 3073114-01 **Sample ID: IMG1613-1** **Matrix: Water**
Sampled By: Client **Sampled: 07/31/03 08:10** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	4.0		ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073114-02 **Sample ID: IMG1613-2** **Matrix: Water**
Sampled By: Client **Sampled: 07/31/03 07:30** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	2200		ug/l	500	150	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073114-03 **Sample ID: IMG1613-3** **Matrix: Water**
Sampled By: Client **Sampled: 07/31/03 08:55** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	2100		ug/l	500	150	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073114-04 **Sample ID: IMG1613-4** **Matrix: Water**
Sampled By: Client **Sampled: 07/31/03 10:00** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	1.2		ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073114-05 **Sample ID: IMG1613-5** **Matrix: Water**
Sampled By: Client **Sampled: 07/31/03 09:10** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	ND		ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Work Order No: 3073114-06 **Sample ID: IMG1613-6** **Matrix: Water**
Sampled By: Client **Sampled: 07/31/03 12:01** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

Certificate of Analysis

Work Order No: 3073114-06 **Sample ID: IMG1613-6** **Matrix: Water**
Sampled By: Client **Sampled: 07/31/03 12:01** **Sample Note:**

Analyte	Result	Qualifiers	Units	Dilution	Reporting Limit	Method	Prepared	Analyzed		Batch
Hexavalent Chromium	ND		ug/l	1	0.30	EPA 7199	07/31/03	07/31/03	hp	W307721

Case Narrative:
Samples preserved with NaOH

Authorized Signature

ELAP # 1132
LACSD # 10143

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND=Not detected, below the reporting limit.
Sub=Subcontracted analysis, original report enclosed.

Flags for Data Qualifiers:

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www.wecklabs.com

Weck Laboratories, Inc.
Environmental and Analytical Services - Since 1964

Report Date: Friday, August 1, 2003
Received Date: Thursday, July 31, 2003
Received Time: 3:15 pm

Turnaround Time: Normal

Client: Del Mar Analytical
2852 Alton Parkway
Irvine, CA 92606

Phone: (949) 261-1022
FAX: (949) 261-1228

Attn: Patty Mata

Project: IMG1613

P.O.#:

Quality Control Report

Weck Laboratories, Inc

Dissolved Hexavalent Chromium by IC, EPA 218.6 - Quality Control

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Batch W307721 - EPA 218.6, dir. inj.									
Blank (W307721-BLK1)					Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....		ND		ug/l					
Blank (W307721-BLK2)					Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....		ND		ug/l					
LCS (W307721-BS1)					Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....		5.19		ug/l	5.00	104	90-110		
Matrix Spike (W307721-MS1)			**Source: 3073107-07**		Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....	ND	5.26		ug/l	5.00	105	90-110		
Matrix Spike (W307721-MS2)			**Source: 3073114-06**		Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....	ND	5.10		ug/l	5.00	102	90-110		
Matrix Spike Dup (W307721-MSD1)			**Source: 3073107-07**		Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....	ND	5.26		ug/l	5.00	105	90-110	0.00	10
Matrix Spike Dup (W307721-MSD2)			**Source: 3073114-06**		Prepared & Analyzed: 07/31/03				
Hexavalent Chromium.....	ND	5.08		ug/l	5.00	102	90-110	0.393	10

Case Narrative:
Samples preserved with NaOH

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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Quality Control Report

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.
ND=Not detected, below the reporting limit.
Sub=Subcontracted analysis, original report enclosed.

Flags for Data Qualifiers:

14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
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SUBCONTRACT ORDER

Del Mar Analytical, Irvine

Project ID # IMG1613

3073114 (1-6)

SENDING LABORATORY:

Del Mar Analytical, Irvine
2852 Alton Parkway
Irvine, CA 92606
Phone: (949) 261-1022
Fax: (949) 261-1228
Project Manager: Patty Mata

RECEIVING LABORATORY:

Weck Laboratories, Inc-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634

4°C

Standard TAT is requested unless specific due date is requested => Due Date:_____ Initials:_____

Analysis	Expiration	Comments
Sample ID: IMG1613-01 Water	**Sampled: 07/31/03 08:10**	
Chromium VI-7199, 1ppb	08/01/03 08:10	Results may be high.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1613-01F)		
Sample ID: IMG1613-02 Water	**Sampled: 07/31/03 07:30**	
Chromium VI-7199, 1ppb	08/01/03 07:30	Results may be high.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1613-02F)		
Sample ID: IMG1613-03 Water	**Sampled: 07/31/03 08:55**	
Chromium VI-7199, 1ppb	08/01/03 08:55	Results may be high.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1613-03F)		
Sample ID: IMG1613-04 Water	**Sampled: 07/31/03 10:00**	
Chromium VI-7199, 1ppb	08/01/03 10:00	Results may be high.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1613-04F)		
Sample ID: IMG1613-05 Water	**Sampled: 07/31/03 09:10**	
Chromium VI-7199, 1ppb	08/01/03 09:10	Results may be high.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1613-05F)		
Sample ID: IMG1613-06 Water	**Sampled: 07/31/03 12:01**	
Chromium VI-7199, 1ppb	08/01/03 12:01	Results may be high.
Containers Supplied:		
500 ml Poly w/NaOH (IMG1613-06F)		

Released By	Date	Time	Received By	Date	Time
[signature]	7-31-03	1325	[signature]	7-31-03	1325
[signature]	7-31-03	1510	[signature]	7/31/03	15:10p

sco default mt

Appendix D
Completed COC Forms

Del Mar Analytical

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: CDM

P.O. #:

Project: PHIBRO-TECH

Project Manager/Phone Number: SHARON WALLIN

Phone Number: 949 752 5452

Sampler: JOHN BENNETT

Fax Number: 949.752.1307

ANALYSIS REQUIRED: IMG1588

Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	pH	8260B	Cr(VI)-7199	Cr-Cu-Cd						Special Instructions
PTI-MW15D-058	WATER	VARIOUS	6	7/30/03 0835	VARIOUS	X	X	X	X						
PTI-MW15S-058	WATER			0925		X	X	X	X						
PTI-MW06D-058				~~09~~1045		X	X	X	X						
PTI-MW07-058				1215		X	X	X	X						
PTI-MW14S-058				1415		X	X	X	X						
PTI-MW04A-058				1520		X	X	X	X						
PTI-EB02-058				1540		X	X	X	X						
PTI-MW04-058				1620		X	X	X	X						
PTI-MW35-058				1305		X	X	X	X						
PTI-TB02-058		VOA	2	1200	HCl		X								
PTI-MW06B-058		VARIOUS	6	1125	VARIOUS	X	X	X	X						

Relinquished By	Date/Time	Received By	Date/Time
[signature]	7/30/03 1625	[signature]	7.30.03 1625
[signature]	7-30-03 1715	[signature]	7-30-03 1715

Turnaround Time: (check)
Same Day _____ 72 Hours _____
24 Hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
Intact YES On Ice: 11 °C

Del Mar Analytical

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2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: CDM

P.O. #:

Project: PHIBROTECH

Project Manager/Phone Number: SHARON WALLIN

Phone Number: 949 752 5452

Sampler: JOHN BENNETT

Fax Number:

7/29/03

ANALYSIS REQUIRED

IMG1521

Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	Cr-Cu-Cd (6010)	8260B	Cr(VI) 7199	PH						Special Instructions
PTI-MW01D-058	WATER	VARIOUS	6	1325	VARIOUS	X	X	X	X						
PTI-MW01S-058	↓	↓	↓	1430	↓	X	X	X	X						
PTI-EB01-058	↓	↓	↓	1445	↓	X	X	X	X						
PTI-MW03-058	↓	↓	↓	1530	↓	X	X	X	X						
PTI-TB01-058	↓	VOA	2 ea	7/29/03 1200	HCl	X	X	X	X						

Relinquished By	Date/Time	Received By	Date/Time
[signature]	7/29/03 1630	[signature]	7-29-03 1630
[signature]	7-29-03 1725	[signature]	7-29-03 1725

Turnaround Time: (check)
Same Day _____ 72 Hours _____
24 Hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
Intact ✓ On Ice: ✓ 10°C

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: CDM

P.O. #:

Project: PHIBRO-TECH

Project Manager/Phone Number: SHARON WALLIN

Phone Number: 949 752 5452

Sampler: JOHN BANNETT

Fax Number: 949 752 1307

ANALYSIS REQUIRED: PH; Cr-Cu-Pb (6010); 8260B; Cr(VI) (7196); IMG1613

Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	PH	Cr-Cu-Pb (6010)	8260B	Cr(VI) (7196)						Special Instructions
PT1-MW16-058	WATER	VARIOUS	6	7/31/03 0910	VARIOUS	X	X	X	X						
PT1-MW37-058	↓	↓	↓	0730	↓	X	X	X	X						
PT1-MW09-058	↓	↓	↓	0855	↓	X	X	X	X						
PT1-MW11-058	↓	↓	↓	1000	↓	X	X	X	X						
PT1-EB03-058	↓	↓	↓	0910	↓	X	X	X	X						
PT1-DI-058	↓	↓	↓	1201	↓	X	X	X	X						
PT1-TB03-058	↓	VOA	2	1200	HCl			X							

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	7/31/03 1220	[signature]	7-31-03 1220
Relinquished By	Date/Time:	Received By	Date/Time:
Relinquished By	Date/Time:	Received By	Date/Time:

Turnaround Time: (check)
Same Day _____ 72 Hours _____
24 Hours _____ 5 days _____
48 hours _____ normal X

Sample Integrity: (Check)
Intact YES On Ice: 6°C

Appendix E
Background Groundwater Concentrations

CDM

CITY OF SANTA FE SPRINGS
2001 ANNUAL WATER QUALITY REPORT

Results are from the most recent testing performed in accordance with state and federal drinking water regulations

PRIMARY STANDARDS MONITORED AT THE SOURCE-MANDATED FOR PUBLIC HEALTH

	GROUNDWATER		SURFACE WATER		PRIMARY	MCLG	MAJOR SOURCES IN DRINKING WATER
	AVERAGE	RANGE	AVERAGE	RANGE	MCL	or PHG	
ORGANIC CHEMICALS (µg/l)							
Toluene	ND	ND	ND	ND-4.0	150	150	Discharge from petroleum and chemical refineries
Trichloroethylene-TCE	0.7	ND-1.6	ND	ND	5	0.8 (c)	Discharge from metal degreasing sites and other factories
INORGANICS Sampled from 1999 to 2001(d)							
Aluminum (mg/l)	ND	ND	0.14	ND-0.24	1	0.6 (c)	Erosion of natural deposits, surface water treatment process residue
Arsenic (µg/l)	5.5 (h)	ND-11	ND	ND-2.4	50	-	Erosion of natural deposits, glass and electronics production wastes
Fluoride (mg/l)	0.30	0.27-0.33	0.22	0.18-0.27	2	1 (c)	Erosion of natural deposits, water additive that promotes strong teeth
Nitrate (mg/l as N)	0.88	ND-1.75	ND	ND-0.59	10	10 (c)	Leaking from septic tanks and sewage; erosion of natural deposits
RADIOLOGICAL - pCi/l Analyzed 4 consecutive quarters every 4 years (results are from 1998 to 2001) (d)							
Gross Alpha (f)	2.4	ND-6.3	4.1	1.2-6.3	15 (g)	-	Erosion of natural deposits
Gross Beta	NA	NA	5.4	ND-7.8	50 (g)	-	Decay of natural and man-made deposits
Combined Radium 226/228	NA	NA	ND	ND-1.5	5	-	Erosion of natural deposits
Uranium	4.8	4.0-5.5	2.9	ND-4.0	20 (g)	0.5 (c)	Erosion of natural deposits

MONITORED IN THE DISTRIBUTION SYSTEM

	GROUNDWATER		SURFACE WATER		PRIMARY	MCLG	
	AVERAGE	RANGE	%<0.5	MAXIMUM	MCL	or PHG	
Turbidity (ntu)	0.1	0.1-0.5	100%	0.2	TT	-	Soil runoff

	GROUNDWATER		SURFACE WATER		PRIMARY	MCLG	
	AVERAGE	RANGE	AVERAGE	RANGE	MCL	or PHG	
Total Coliform Bacteria % Positive	0%	0%	0.06%	0-0.46%	5%	0%	Naturally present in the environment
Fecal Coliform Bacteria % Positive	0%	0%	0%	0%	0%	0%	Human and animal fecal waste
No. of Acute Violations	0	0	0	0			
Trihalomethanes-TTHMS (µg/l) (a)	39	ND-83	54	36-69	100	0	By-product of drinking water chlorination

	GROUNDWATER		SURFACE WATER		SECONDARY	MCLG	
	AVERAGE	RANGE	AVERAGE	RANGE	MCL	or PHG	
Color (color units)	<3	<3	1	1-2	15	-	Naturally-occurring organic materials
Odor (threshold odor number)	1	1-2	(e)	(e)	3	-	Naturally-occurring organic materials

	GROUNDWATER		SURFACE WATER		PRIMARY	MCLG	
	90%ile	#SITES ABOVE AL	90%ile	#SITES ABOVE AL	MCL	or PHG	
AT THE TAP 30 sites sampled in 2001							
Copper (mg/l)	0.16 (b)	0	ND	0	1.3 AL	0.17 (c)	Corrosion of household plumbing
Lead (µg/l)	ND (b)	0	ND	0	15 AL	2 (c)	Corrosion of household plumbing

SEP 05 2002 2:35PM ######0# ##########

SECONDARY STANDARDS MONITORED AT THE SOURCE-FOR AESTHETIC PURPOSES

	GROUNDWATER		SURFACE WATER		SECONDARY	MCLG	
	AVERAGE	RANGE	AVERAGE	RANGE	MCL	or PHG	
Chloride (mg/l)	50	34-66	79	72-83	500	-	Erosion of natural deposits, seawater influence
Conductivity (umhos/cm)	655	470-840	832	779-884	1600	-	Seawater influence, dissolved minerals
Sulfate (mg/l)	112	54-170	176	155-194	500	-	Erosion of natural deposits
Total Dissolved Solids (mg/l)	399	262-535	499	464-530	1000	-	Erosion of natural deposits
Manganese (µg/l)	ND	ND-26	ND	ND	50	-	Erosion of natural deposits

ADDITIONAL CHEMICALS OF INTEREST

	GROUNDWATER		SURFACE WATER	
	AVERAGE	RANGE	AVERAGE	RANGE
pH (std unit)	7.8	7.6-8.0	8.1	8.0-8.1
Total Hardness (mg/l)	221	105-337	236	216-255
Calcium (mg/l)	67	34-99	56	51-61
Magnesium (mg/l)	13	4-22	24	21-25
Sodium (mg/l)	60	53-67	79	74-83
Potassium (mg/l)	2.9	2.2-3.6	3.9	3.5-4.2
Perchlorate (µg/l)	ND	ND	4	ND-5
Haloacetic Acids (µg/l)	NA	NA	19	9.5-24
Haloacetonitriles (µg/l)	NA	NA	7.7	4.8-13
Chloropicrin (µg/l)	NA	NA	ND	ND
Haloketones (µg/l)	NA	NA	1.6	0.7-3.2
Chloral hydrate (µg/l)	NA	NA	4.0	1.5-6.8
Total Organic Halogens (TOX) (µg/l)	NA	NA	115	72-174
Cyanogen chloride (µg/l)	NA	NA	1.8	ND-3.1
Radon (pCi/l)	268	189-371	ND	ND
Hexavalent chromium (µg/l)	2.7	2.7	ND	ND
Total chromium screen (µg/l)	1.6	ND-3.2	NA	NA
Boron (µg/l)	77	ND-120	130	120-130
Vanadium (µg/l)	3.5	ND-5.4	4.0	3-4

FOOTNOTES

(a) Average and range calculated by running average.
(b) 90th percentile from the most recent sampling at selected customer taps.
(c) California Public Health Goal (PHG). Other advisory levels listed in this column are federal Maximum Contaminant Level Goals (MCLGs).
(d) Indicates dates sampled for groundwater sources only.
(e) Metropolitan Water District (MWD) of Southern California uses a flavor-profile test that more accurately detects odors. For more information, contact MWD at (213) 217-6850.
(f) Gross alpha standard also includes Radium-226 standard.
(g) MCL compliance based on 4 consecutive quarters of sampling. MCL standard is for combined Radium 226 plus 228.
(h) While your drinking water meets the current standard for arsenic, it does contain low levels of arsenic. The standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The California Department of Health Services continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

ABBREVIATIONS

mg/l = milligrams per liter or parts per million (equivalent to 3 drops in 42 gallons)
µg/l = micrograms per liter or parts per billion (equivalent to 1 drop in 42,000 gallons)
< = less than
umhos/cm = microumhos per centimeter
ND = constituent not detected at the reporting limit
NA = constituent not analyzed
pCi/l = picoCuries per liter

DEFINITIONS

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

Public Health Goal or PHG: The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

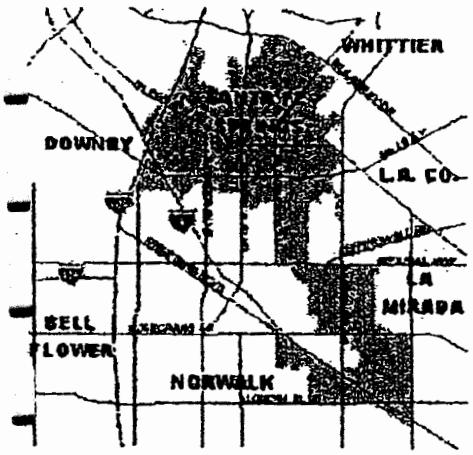
Primary Drinking Water Standard or PDWS: MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Special note on Radon: *Radon is a radioactive gas that you cannot taste, see or smell, and is a known human carcinogen. It is found throughout the country. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering and other household activities. Radon entering the home through tap water is a small source compared to radon entering the home through soil. If you are concerned about radon in your home, an easy and inexpensive test can show you how much radon is in your home's indoor air. There are simple and inexpensive ways to fix your home if the level of radon in air is 4 picoCuries per liter (pCi/L) of air or higher. For additional information, call your State radon program or call EPA's Radon Hotline (800-SOS-RADON).*

CITY OF SANTA FE SPRINGS
2001 ANNUAL WATER QUALITY REPORT

Since 1991, California water utilities have been providing information on water served to its consumers. This report is a snapshot of the tap water quality that we provided last year. Included are details about where your water comes from, how it is tested, what is in it, and how it compares with state and federal limits. Although a lot of the information in this report is detailed and technical, we have made every effort to keep it readable. We strive to keep you informed about the quality of your water, and to provide a reliable and economic supply that meets all requirements. **We are happy to report that your tap water meets or surpasses all water quality standards for 2001.**

Where Does My Tap Water Come From?



Your tap water comes from 2 sources: groundwater and surface water. We pump groundwater from local, deep wells. We also use Metropolitan Water District of Southern California's surface water from both the Colorado River and the State Water Project in northern California. These water sources supply our service area shown on the adjacent map. The quality of our groundwater and Metropolitan Water District's surface water supplies is presented in this report.

How is My Drinking Water Tested?

Your drinking water is tested regularly for unsafe levels of chemicals, radioactivity and bacteria at the source and in the distribution system. We test weekly, monthly, quarterly, annually or less often depending on the substance. State and federal laws allow us to test some substances less than once per year because their levels do not change frequently. All water quality tests are conducted by specially trained technicians in state-certified laboratories.

What Are Drinking Water Standards?

The federal Environmental Protection Agency (EPA) limits the amount of certain substances in tap water. In California, the Department of Health Services (DHS) regulates tap water quality by enforcing limits that are at least as stringent as the Federal EPA's. Historically, California limits are more stringent than the Federal counterparts.

There are two types of limits, known as standards. Primary standards protect you from substances that could potentially affect your health. Secondary standards regulate substances that affect the aesthetic qualities of water. Regulations set a Maximum Contaminant Level (MCL) for each of the primary and secondary standards. The MCL is the highest level of a substance that is allowed in drinking water. Water suppliers must not exceed MCLs to ensure water quality.

Public Health Goals (PHGs) are set by the California Environmental Protection Agency. PHGs provide more information on the quality of drinking water to customers, and are similar to their federal counterparts, Maximum Contaminant Level Goals (MCLGs). PHGs and MCLGs are levels that are of an advisory nature only and nonenforceable. Both PHGs and MCLGs are concentrations of a substance at which there are no known or expected health risks.

How Do I Read the Water Quality Table?

Although we test for over 100 substances, regulations require us to report only those found in your water. The first column of the water quality table lists substances detected in your water. The next columns list the average concentration and range of concentrations found in your drinking water. Following are columns that list the MCL and PHG or MCLG, if appropriate. The last column describes the likely sources of substances in drinking water.

To review the quality of your drinking water, compare the highest concentration and the MCL. Check for substances greater than the MCL. Exceedence of a primary MCL does not usually constitute an immediate health threat. Rather, it requires testing the source water more frequently for a short duration. If test results show that the water continues to exceed the MCL, the water must be treated to remove the substance, or the source must be removed from service.

/vhy Do I See So Much Coverage in the News About the Quality Of Tap Water?

ff drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. As water travels over the surface of the land or through the ground, it can pick up substances resulting from the presence o mals or from human activity. The presence of contaminants does not necessarily indicate that water poses a health risk. ormation about contaminants and potential health effects can be obtained by calling the federal EPA's Safe Drinking W..er lotline (800-426-4791). You can get more information on tap water by logging on to these helpful web sites:

www.epa.gov/OGWDW (Federal EPA's web site)
www.dhs.cahwnet.gov/ps/ddwem (California DHS website)

at Does the EPA Say About Drinking Water Quality?

sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and s. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some ses, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

taminants that may be present in source water include:

Microbial contaminants, including viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;
Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming;
Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses;
Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems;
Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

order to ensure that tap water is safe to drink, the EPA and the California Department of Health Services (DHS) presc ations that limit the amount of certain contaminants in water provided by public water systems. DHS regulations also blish limits for contaminants in bottled water that must provide the same protection for public health.

uld I Take Additional Precautions?

ne people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised ns such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with IDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people uld seek advice about drinking water from their health care providers. The EPA/Centers for Disease Control guidelines on opriate means to lessen the risk of infection of *Cryptosporidium* and other microbial contaminants are available from the al EPA's Safe Drinking Water Hotline (800-426-4791).

w Can I Participate in Decisions On Water Issues That Affect Me?

public is welcome to attend City Council meetings on the second and fourth Thursday of each month at 7 p.m.

Do I Contact My Water Agency If I Have Any Questions About Water Quality?

u have specific questions about your tap water quality, please contact Ron Hughes at (562) 868-0511

w Can I Conserve Water At Home?

stall a Low-flow Showerhead - save over 5 gallons of water per shower, or about 1,800 gallons per year per person!
nstall a low-flow toilet or water displacement device in your toilet - save 3.5 to 4.5 gallons on every flush!
Run only full loads in your dishwasher/washing machine - save 300 - 800 gallons of water every month!
veep your sidewalks and driveway - save 150 gallons each time by sweeping instead of hosing!
ater the lawn only when it needs it - save 30-50 gallons per day!

Visit us at www.santafesprings.com

Appendix F
Statistical Analysis

CDM

Appendix F-1
Statistical Tables

CDM

Table 1

Background Data

Constituent	Units	Location	Date		Result
BEN	ug/l	MW-1S	07/01/1994	ND	0.5000
BEN	ug/l	MW-1S	10/01/1994	ND	0.5000
BEN	ug/l	MW-1S	01/01/1995	ND	0.5000
BEN	ug/l	MW-1S	04/01/1995	ND	0.5000
BEN	ug/l	MW-1S	01/01/1996	ND	0.5000
BEN	ug/l	MW-1S	04/01/1996	ND	0.5000
BEN	ug/l	MW-1S	07/01/1996	ND	0.5000
BEN	ug/l	MW-1S	10/01/1996	ND	0.5000
BEN	ug/l	MW-1S	01/01/1997	ND	0.5000
BEN	ug/l	MW-1S	04/01/1997	ND	0.5000
BEN	ug/l	MW-1S	07/01/1997	ND	0.5000
BEN	ug/l	MW-1S	10/01/1997	ND	0.5000
BEN	ug/l	MW-1S	01/01/1998	ND	0.5000
BEN	ug/l	MW-1S	04/01/1998	ND	0.5000
BEN	ug/l	MW-1S	07/01/1998	ND	0.5000
BEN	ug/l	MW-1S	10/01/1998	ND	0.5000
BEN	ug/l	MW-1S	01/01/1999	ND	0.5000
BEN	ug/l	MW-1S	04/01/1999	ND	1.0000
BEN	ug/l	MW-1S	07/01/1999	ND	1.0000
BEN	ug/l	MW-1S	10/01/1999	ND	1.0000
BEN	ug/l	MW-1S	01/01/2000	ND	1.0000
BEN	ug/l	MW-1S	04/01/2000	ND	1.0000
BEN	ug/l	MW-1S	10/01/2000	ND	1.0000
BEN	ug/l	MW-1S	04/01/2001	ND	1.0000
BEN	ug/l	MW-1S	07/01/2001	ND	1.0000
BEN	ug/l	MW-1S	10/01/2001	ND	1.0000
BEN	ug/l	MW-1S	01/01/2002	ND	1.0000
BEN	ug/l	MW-1S	04/01/2002	ND	1.0000
BEN	ug/l	MW-1S	07/01/2002	ND	1.0000
BEN	ug/l	MW-1S	10/22/2002	ND	1.0000
BEN	ug/l	MW-1S	01/08/2003	ND	0.5000
BEN	ug/l	MW-1S	04/23/2003	ND	0.5000
BEN	ug/l	MW-1S	07/29/2003	ND	0.5000
CD	mg/L	MW-1S	07/01/1994	ND	0.0050
CD	mg/L	MW-1S	10/01/1994	ND	0.0050
CD	mg/L	MW-1S	01/01/1995	ND	0.0050
CD	mg/L	MW-1S	04/01/1995	ND	0.0010
CD	mg/L	MW-1S	01/01/1996	ND	0.0050
CD	mg/L	MW-1S	04/01/1996	ND	0.0050
CD	mg/L	MW-1S	07/01/1996	ND	0.0050
CD	mg/L	MW-1S	10/01/1996	ND	0.0050
CD	mg/L	MW-1S	01/01/1997	ND	0.0050
CD	mg/L	MW-1S	04/01/1997	ND	0.0050
CD	mg/L	MW-1S	07/01/1997	ND	0.0050
CD	mg/L	MW-1S	10/01/1997	ND	0.0050
CD	mg/L	MW-1S	01/01/1998	ND	0.0050
CD	mg/L	MW-1S	04/01/1998	ND	0.0050
CD	mg/L	MW-1S	07/01/1998	ND	0.0050
CD	mg/L	MW-1S	10/01/1998	ND	0.0050
CD	mg/L	MW-1S	01/01/1999	ND	0.0050
CD	mg/L	MW-1S	04/01/1999	ND	0.0050
CD	mg/L	MW-1S	07/01/1999	ND	0.0050
CD	mg/L	MW-1S	10/01/1999	ND	0.0050
CD	mg/L	MW-1S	01/01/2000	ND	0.0050
CD	mg/L	MW-1S	04/01/2000	ND	0.0050

* - Outlier for that location and constituent.
ND = Not detected, result = detection limit.

Table 1

Background Data

Constituent	Units	Location	Date		Result
CD	mg/L	MW-1S	10/01/2000	ND	0.0050
CD	mg/L	MW-1S	04/01/2001	ND	0.0050
CD	mg/L	MW-1S	07/01/2001	ND	0.0050
CD	mg/L	MW-1S	10/01/2001	ND	0.0050
CD	mg/L	MW-1S	01/01/2002	ND	0.0050
CD	mg/L	MW-1S	04/01/2002	ND	0.0050
CD	mg/L	MW-1S	07/01/2002	ND	0.0050
CD	mg/L	MW-1S	10/22/2002	ND	0.0050
CD	mg/L	MW-1S	01/08/2003	ND	0.0050
CD	mg/L	MW-1S	04/23/2003		0.0100
CD	mg/L	MW-1S	07/29/2003		0.0100
CU	mg/L	MW-1S	07/01/1994	ND	0.0200
CU	mg/L	MW-1S	10/01/1994	ND	0.0200
CU	mg/L	MW-1S	01/01/1995	ND	0.0200
CU	mg/L	MW-1S	04/01/1995	ND	0.0200
CU	mg/L	MW-1S	01/01/1996	ND	0.0200
CU	mg/L	MW-1S	04/01/1996	ND	0.0200
CU	mg/L	MW-1S	07/01/1996	ND	0.0200
CU	mg/L	MW-1S	10/01/1996	ND	0.0200
CU	mg/L	MW-1S	01/01/1997		0.0200
CU	mg/L	MW-1S	04/01/1997	ND	0.0200
CU	mg/L	MW-1S	07/01/1997	ND	0.0200
CU	mg/L	MW-1S	10/01/1997		0.0200
CU	mg/L	MW-1S	01/01/1998	ND	0.0200
CU	mg/L	MW-1S	04/01/1998		0.0200
CU	mg/L	MW-1S	07/01/1998	ND	0.0200
CU	mg/L	MW-1S	10/01/1998	ND	0.0200
CU	mg/L	MW-1S	01/01/1999	ND	0.0200
CU	mg/L	MW-1S	04/01/1999	ND	0.0200
CU	mg/L	MW-1S	07/01/1999		0.0500
CU	mg/L	MW-1S	10/01/1999	ND	0.0200
CU	mg/L	MW-1S	01/01/2000	ND	0.0200
CU	mg/L	MW-1S	04/01/2000	ND	0.0200
CU	mg/L	MW-1S	10/01/2000	ND	0.0200
CU	mg/L	MW-1S	04/01/2001	ND	0.0200
CU	mg/L	MW-1S	07/01/2001	ND	0.0200
CU	mg/L	MW-1S	10/01/2001	ND	0.0200
CU	mg/L	MW-1S	01/01/2002	ND	0.0200
CU	mg/L	MW-1S	04/01/2002	ND	0.0200
CU	mg/L	MW-1S	07/01/2002	ND	0.0200
CU	mg/L	MW-1S	10/22/2002	ND	0.0200
CU	mg/L	MW-1S	01/08/2003	ND	0.0100
CU	mg/L	MW-1S	04/23/2003		0.0200
CU	mg/L	MW-1S	07/29/2003		0.0300
EBN	ug/l	MW-1S	07/01/1994	ND	1.0000
EBN	ug/l	MW-1S	10/01/1994	ND	1.0000
EBN	ug/l	MW-1S	01/01/1995	ND	1.0000
EBN	ug/l	MW-1S	04/01/1995		1.3000
EBN	ug/l	MW-1S	01/01/1996		1.7000
EBN	ug/l	MW-1S	04/01/1996		3.4000
EBN	ug/l	MW-1S	07/01/1996		2.2000
EBN	ug/l	MW-1S	10/01/1996		2.1000
EBN	ug/l	MW-1S	01/01/1997	ND	1.0000
EBN	ug/l	MW-1S	04/01/1997		1.4000
EBN	ug/l	MW-1S	07/01/1997	ND	1.0000

* - Outlier for that location and constituent.
ND = Not detected, result = detection limit.

Table 1

Background Data

Constituent	Units	Location	Date		Result
EBN	ug/l	MW-1S	10/01/1997	ND	1.0000
EBN	ug/l	MW-1S	01/01/1998	ND	1.0000
EBN	ug/l	MW-1S	04/01/1998	ND	1.0000
EBN	ug/l	MW-1S	07/01/1998	ND	1.0000
EBN	ug/l	MW-1S	10/01/1998	ND	1.0000
EBN	ug/l	MW-1S	01/01/1999		2.0000
EBN	ug/l	MW-1S	04/01/1999	ND	1.0000
EBN	ug/l	MW-1S	07/01/1999	ND	1.0000
EBN	ug/l	MW-1S	10/01/1999	ND	1.0000
EBN	ug/l	MW-1S	01/01/2000	ND	1.0000
EBN	ug/l	MW-1S	04/01/2000	ND	1.0000
EBN	ug/l	MW-1S	10/01/2000	ND	1.0000
EBN	ug/l	MW-1S	04/01/2001	ND	1.0000
EBN	ug/l	MW-1S	07/01/2001	ND	1.0000
EBN	ug/l	MW-1S	10/01/2001	ND	1.0000
EBN	ug/l	MW-1S	01/01/2002	ND	1.0000
EBN	ug/l	MW-1S	04/01/2002	ND	1.0000
EBN	ug/l	MW-1S	07/01/2002	ND	1.0000
EBN	ug/l	MW-1S	10/22/2002	ND	1.0000
EBN	ug/l	MW-1S	01/08/2003	ND	1.0000
EBN	ug/l	MW-1S	04/23/2003	ND	1.0000
EBN	ug/l	MW-1S	07/29/2003	ND	1.0000
HCR	mg/L	MW-1S	07/01/1994	ND	0.0200
HCR	mg/L	MW-1S	10/01/1994	ND	0.0200
HCR	mg/L	MW-1S	01/01/1995	ND	0.0200
HCR	mg/L	MW-1S	04/01/1995	ND	0.0200
HCR	mg/L	MW-1S	01/01/1996	ND	0.0200
HCR	mg/L	MW-1S	04/01/1996	ND	0.0200
HCR	mg/L	MW-1S	07/01/1996	ND	0.0100
HCR	mg/L	MW-1S	10/01/1996	ND	0.0100
HCR	mg/L	MW-1S	01/01/1997	ND	0.0200
HCR	mg/L	MW-1S	04/01/1997	ND	0.0200
HCR	mg/L	MW-1S	07/01/1997	ND	0.0200
HCR	mg/L	MW-1S	10/01/1997	ND	0.0200
HCR	mg/L	MW-1S	01/01/1998	ND	0.0200
HCR	mg/L	MW-1S	04/01/1998	ND	0.0200
HCR	mg/L	MW-1S	07/01/1998	ND	0.0200
HCR	mg/L	MW-1S	10/01/1998	ND	0.0200
HCR	mg/L	MW-1S	01/01/1999	ND	0.0200
HCR	mg/L	MW-1S	04/01/1999	ND	0.0200
HCR	mg/L	MW-1S	07/01/1999	ND	0.0200
HCR	mg/L	MW-1S	10/01/1999	ND	0.0100
HCR	mg/L	MW-1S	01/01/2000	ND	0.0200
HCR	mg/L	MW-1S	04/01/2000	ND	0.0100
HCR	mg/L	MW-1S	10/01/2000	ND	0.0200
HCR	mg/L	MW-1S	04/01/2001	ND	0.0020
HCR	mg/L	MW-1S	07/01/2001	ND	0.0020
HCR	mg/L	MW-1S	10/01/2001		0.0062
HCR	mg/L	MW-1S	01/01/2002	ND	0.0200
HCR	mg/L	MW-1S	04/01/2002	ND	0.0020
HCR	mg/L	MW-1S	07/01/2002		0.0018
HCR	mg/L	MW-1S	10/22/2002	ND	0.0010
HCR	mg/L	MW-1S	01/08/2003	ND	0.0010
HCR	mg/L	MW-1S	04/23/2003	ND	0.0010
HCR	mg/L	MW-1S	07/29/2003	ND	0.0010

* - Outlier for that location and constituent.
ND = Not detected, result = detection limit.

Table 1

Background Data

Constituent	Units	Location	Date		Result
TCE	ug/l	MW-1S	07/01/1994		7.9000
TCE	ug/l	MW-1S	10/01/1994		13.0000
TCE	ug/l	MW-1S	01/01/1995		5.2000
TCE	ug/l	MW-1S	04/01/1995		4.4000
TCE	ug/l	MW-1S	01/01/1996		8.4000
TCE	ug/l	MW-1S	04/01/1996		2.9000
TCE	ug/l	MW-1S	07/01/1996		9.7000
TCE	ug/l	MW-1S	10/01/1996		16.0000
TCE	ug/l	MW-1S	01/01/1997		6.0000
TCE	ug/l	MW-1S	04/01/1997		15.0000
TCE	ug/l	MW-1S	07/01/1997		14.0000
TCE	ug/l	MW-1S	10/01/1997		12.0000
TCE	ug/l	MW-1S	01/01/1998		12.0000
TCE	ug/l	MW-1S	04/01/1998		14.0000
TCE	ug/l	MW-1S	07/01/1998		14.0000
TCE	ug/l	MW-1S	10/01/1998		7.8000
TCE	ug/l	MW-1S	01/01/1999		10.0000
TCE	ug/l	MW-1S	04/01/1999		7.2000
TCE	ug/l	MW-1S	07/01/1999		9.1000
TCE	ug/l	MW-1S	10/01/1999		9.1000
TCE	ug/l	MW-1S	01/01/2000		9.9000
TCE	ug/l	MW-1S	04/01/2000		16.0000
TCE	ug/l	MW-1S	10/01/2000		8.9000
TCE	ug/l	MW-1S	04/01/2001		13.0000
TCE	ug/l	MW-1S	07/01/2001		2.1000
TCE	ug/l	MW-1S	10/01/2001		13.0000
TCE	ug/l	MW-1S	01/01/2002		7.0000
TCE	ug/l	MW-1S	04/01/2002		5.3000
TCE	ug/l	MW-1S	07/01/2002		6.2000
TCE	ug/l	MW-1S	10/22/2002		8.3000
TCE	ug/l	MW-1S	01/08/2003		11.0000
TCE	ug/l	MW-1S	04/23/2003		11.0000
TCE	ug/l	MW-1S	07/29/2003		13.0000
TCR	mg/L	MW-1S	07/01/1994	ND	0.0100
TCR	mg/L	MW-1S	10/01/1994	ND	0.0100
TCR	mg/L	MW-1S	01/01/1995	ND	0.0100
TCR	mg/L	MW-1S	04/01/1995	ND	0.0100
TCR	mg/L	MW-1S	01/01/1996	ND	0.0100
TCR	mg/L	MW-1S	04/01/1996	ND	0.0100
TCR	mg/L	MW-1S	07/01/1996	ND	0.0100
TCR	mg/L	MW-1S	10/01/1996	ND	0.0100
TCR	mg/L	MW-1S	01/01/1997	ND	0.0100
TCR	mg/L	MW-1S	04/01/1997	ND	0.0100
TCR	mg/L	MW-1S	07/01/1997	ND	0.0100
TCR	mg/L	MW-1S	10/01/1997	ND	0.0100
TCR	mg/L	MW-1S	01/01/1998	ND	0.0100
TCR	mg/L	MW-1S	04/01/1998	ND	0.0100
TCR	mg/L	MW-1S	07/01/1998	ND	0.0100
TCR	mg/L	MW-1S	10/01/1998	ND	0.0100
TCR	mg/L	MW-1S	01/01/1999	ND	0.0100
TCR	mg/L	MW-1S	04/01/1999	ND	0.0100
TCR	mg/L	MW-1S	07/01/1999	ND	0.0100
TCR	mg/L	MW-1S	10/01/1999	ND	0.0100
TCR	mg/L	MW-1S	01/01/2000	ND	0.0100
TCR	mg/L	MW-1S	04/01/2000	ND	0.0100

* - Outlier for that location and constituent.
ND = Not detected, result = detection limit.

Table 1

Background Data

Constituent	Units	Location	Date		Result	
TCR	mg/L	MW-1S	10/01/2000	ND	0.0100	
TCR	mg/L	MW-1S	04/01/2001	ND	0.0100	
TCR	mg/L	MW-1S	07/01/2001	ND	0.0100	
TCR	mg/L	MW-1S	10/01/2001	ND	0.0100	
TCR	mg/L	MW-1S	01/01/2002	ND	0.0100	
TCR	mg/L	MW-1S	04/01/2002	ND	0.0100	
TCR	mg/L	MW-1S	07/01/2002	ND	0.0100	
TCR	mg/L	MW-1S	10/22/2002	ND	0.0100	
TCR	mg/L	MW-1S	04/23/2003		0.0100	
TCR	mg/L	MW-1S	07/29/2003		0.0100	
TOL	ug/l	MW-1S	07/01/1994	ND	1.0000	
TOL	ug/l	MW-1S	01/01/1995	ND	1.0000	
TOL	ug/l	MW-1S	04/01/1995	ND	1.0000	
TOL	ug/l	MW-1S	01/01/1996	ND	1.0000	
TOL	ug/l	MW-1S	04/01/1996	ND	1.0000	
TOL	ug/l	MW-1S	07/01/1996	ND	1.0000	
TOL	ug/l	MW-1S	10/01/1996	ND	1.0000	
TOL	ug/l	MW-1S	01/01/1997	ND	1.0000	
TOL	ug/l	MW-1S	04/01/1997	ND	1.0000	
TOL	ug/l	MW-1S	07/01/1997	ND	1.0000	
TOL	ug/l	MW-1S	10/01/1997	ND	1.0000	
TOL	ug/l	MW-1S	01/01/1998	ND	1.0000	
TOL	ug/l	MW-1S	04/01/1998	ND	1.0000	
TOL	ug/l	MW-1S	07/01/1998	ND	1.0000	
TOL	ug/l	MW-1S	10/01/1998	ND	1.0000	
TOL	ug/l	MW-1S	01/01/1999	ND	2.0000	
TOL	ug/l	MW-1S	04/01/1999	ND	1.0000	
TOL	ug/l	MW-1S	07/01/1999	ND	1.0000	
TOL	ug/l	MW-1S	10/01/1999	ND	1.0000	
TOL	ug/l	MW-1S	01/01/2000	ND	1.0000	
TOL	ug/l	MW-1S	04/01/2000	ND	1.0000	
TOL	ug/l	MW-1S	10/01/2000	ND	1.0000	
TOL	ug/l	MW-1S	04/01/2001	ND	1.0000	
TOL	ug/l	MW-1S	07/01/2001	ND	1.0000	
TOL	ug/l	MW-1S	10/01/2001	ND	1.0000	
TOL	ug/l	MW-1S	01/01/2002	ND	1.0000	
TOL	ug/l	MW-1S	04/01/2002	ND	1.0000	
TOL	ug/l	MW-1S	07/01/2002	ND	1.0000	
TOL	ug/l	MW-1S	10/22/2002	ND	1.0000	
TOL	ug/l	MW-1S	01/08/2003	ND	1.0000	
TOL	ug/l	MW-1S	04/23/2003	ND	1.0000	
TOL	ug/l	MW-1S	07/29/2003	ND	1.0000	
TX	ug/l	MW-1S	07/01/1994	ND	1.0000	
TX	ug/l	MW-1S	10/01/1994		5.8000	
TX	ug/l	MW-1S	01/01/1995	ND	1.0000	
TX	ug/l	MW-1S	04/01/1995	ND	1.0000	
TX	ug/l	MW-1S	01/01/1996		5.1000	
TX	ug/l	MW-1S	04/01/1996		4.9000	
TX	ug/l	MW-1S	07/01/1996		3.7000	
TX	ug/l	MW-1S	10/01/1996		2.8000	
TX	ug/l	MW-1S	01/01/1997		2.0000	
TX	ug/l	MW-1S	04/01/1997		1.2000	
TX	ug/l	MW-1S	07/01/1997	ND	1.0000	
TX	ug/l	MW-1S	10/01/1997	ND	1.0000	
TX	ug/l	MW-1S	01/01/1998	ND	1.0000	

* - Outlier for that location and constituent.
ND = Not detected, result = detection limit.

Table 1

Background Data

Constituent	Units	Location	Date		Result	
TX	ug/l	MW-1S	04/01/1998	ND	1.0000	
TX	ug/l	MW-1S	07/01/1998	ND	1.0000	
TX	ug/l	MW-1S	10/01/1998	ND	1.0000	
TX	ug/l	MW-1S	01/01/1999	ND	2.0000	
TX	ug/l	MW-1S	04/01/1999	ND	2.0000	
TX	ug/l	MW-1S	07/01/1999	ND	1.0000	
TX	ug/l	MW-1S	10/01/1999	ND	2.0000	
TX	ug/l	MW-1S	01/01/2000	ND	1.0000	
TX	ug/l	MW-1S	04/01/2000	ND	1.0000	
TX	ug/l	MW-1S	10/01/2000	ND	1.0000	
TX	ug/l	MW-1S	04/01/2001	ND	1.0000	
TX	ug/l	MW-1S	07/01/2001	ND	1.0000	
TX	ug/l	MW-1S	10/01/2001	ND	1.0000	
TX	ug/l	MW-1S	01/01/2002	ND	1.0000	
TX	ug/l	MW-1S	04/01/2002	ND	1.0000	
TX	ug/l	MW-1S	07/01/2002	ND	2.0000	
TX	ug/l	MW-1S	10/22/2002	ND	2.0000	
TX	ug/l	MW-1S	01/08/2003	ND	2.0000	
TX	ug/l	MW-1S	04/23/2003	ND	2.0000	
TX	ug/l	MW-1S	07/29/2003	ND	2.0000	

* - Outlier for that location and constituent.
ND = Not detected, result = detection limit.

Table 2

Most Current Onsite/Downgradient Monitoring Data

Constituent	Units	Location	Date		Result		Pred. Limit
BEN	ug/l	MW-11	07/31/2003	ND	5.0000		0.5000
BEN	ug/l	MW-14S	07/30/2003		1.4000	*	0.5000
BEN	ug/l	MW-15D	07/30/2003		1.4000	*	0.5000
BEN	ug/l	MW-15S	07/30/2003	ND	0.5000		0.5000
BEN	ug/l	MW-16	07/31/2003		0.5100	*	0.5000
BEN	ug/l	MW-1D	07/30/2003		0.9800	*	0.5000
BEN	ug/l	MW-3	07/29/2003	ND	2.5000		0.5000
BEN	ug/l	MW-4	07/30/2003		630.9333	*	0.5000
BEN	ug/l	MW-4A	07/30/2003		2.2000	*	0.5000
BEN	ug/l	MW-6B	07/30/2003	ND	0.5000		0.5000
BEN	ug/l	MW-6D	07/30/2003	ND	0.5000		0.5000
BEN	ug/l	MW-7	10/23/2002	ND	1.0000		0.5000
BEN	ug/l	MW-9	07/31/2003	ND	3.7500		0.5000
BEN	ug/l	MW07	07/30/2003	ND	0.5000		0.5000
CD	mg/L	MW-11	07/31/2003	ND	0.0050		0.0100
CD	mg/L	MW-14S	07/30/2003		0.0066		0.0100
CD	mg/L	MW-15D	07/30/2003	ND	0.0050		0.0100
CD	mg/L	MW-15S	07/30/2003	ND	0.0050		0.0100
CD	mg/L	MW-16	07/31/2003	ND	0.0050		0.0100
CD	mg/L	MW-1D	07/30/2003	ND	0.0050		0.0100
CD	mg/L	MW-3	07/29/2003	ND	0.0050		0.0100
CD	mg/L	MW-4	07/30/2003		453.6267	*	0.0100
CD	mg/L	MW-4A	07/30/2003	ND	0.0050		0.0100
CD	mg/L	MW-6B	07/30/2003	ND	0.0050		0.0100
CD	mg/L	MW-6D	07/30/2003	ND	0.0050		0.0100
CD	mg/L	MW-7	10/23/2002	ND	0.0050		0.0100
CD	mg/L	MW-9	07/31/2003	ND	0.0050		0.0100
CD	mg/L	MW07	07/30/2003	ND	0.0050		0.0100
CU	mg/L	MW-11	07/31/2003	ND	0.0100		0.0500
CU	mg/L	MW-14S	07/30/2003		0.0500		0.0500
CU	mg/L	MW-15D	07/30/2003	ND	0.0100		0.0500
CU	mg/L	MW-15S	07/30/2003	ND	0.0100		0.0500
CU	mg/L	MW-16	07/31/2003	ND	0.0100		0.0500
CU	mg/L	MW-1D	07/30/2003		0.0100		0.0500
CU	mg/L	MW-3	07/29/2003	ND	0.0100		0.0500
CU	mg/L	MW-4	07/30/2003		0.0400		0.0500
CU	mg/L	MW-4A	07/30/2003		0.0200		0.0500
CU	mg/L	MW-6B	07/30/2003		0.0100		0.0500
CU	mg/L	MW-6D	07/30/2003		0.0100		0.0500
CU	mg/L	MW-7	10/23/2002	ND	0.0200		0.0500
CU	mg/L	MW-9	07/31/2003	ND	0.0100		0.0500
CU	mg/L	MW07	07/30/2003	ND	0.0100		0.0500
EBN	ug/l	MW-11	07/31/2003		210.0000	*	3.4000
EBN	ug/l	MW-14S	07/30/2003		49.0000	*	3.4000
EBN	ug/l	MW-15D	07/30/2003	ND	1.0000		3.4000
EBN	ug/l	MW-15S	07/30/2003	ND	1.0000		3.4000
EBN	ug/l	MW-16	07/31/2003		1.5000		3.4000
EBN	ug/l	MW-1D	07/30/2003	ND	1.0000		3.4000
EBN	ug/l	MW-3	07/29/2003	ND	5.0000		3.4000
EBN	ug/l	MW-4	07/30/2003	ND	7.5000		3.4000
EBN	ug/l	MW-4A	07/30/2003	ND	4.0000		3.4000
EBN	ug/l	MW-6B	07/30/2003	ND	1.0000		3.4000
EBN	ug/l	MW-6D	07/30/2003	ND	1.0000		3.4000
EBN	ug/l	MW-7	10/23/2002	ND	1.0000		3.4000

* - Current value failed.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 2

Most Current Onsite/Downgradient Monitoring Data

Constituent	Units	Location	Date		Result		Pred. Limit
EBN	ug/l	MW-9	07/31/2003	ND	7.5000		3.4000
EBN	ug/l	MW07	07/30/2003	ND	1.0000		3.4000
HCR	mg/L	MW-11	07/31/2003		0.0012		0.0200
HCR	mg/L	MW-14S	07/30/2003		0.1200	*	0.0200
HCR	mg/L	MW-15D	07/30/2003		0.0003		0.0200
HCR	mg/L	MW-15S	07/30/2003		0.0022		0.0200
HCR	mg/L	MW-16	07/31/2003		0.0040		0.0200
HCR	mg/L	MW-1D	07/30/2003	ND	0.0010		0.0200
HCR	mg/L	MW-3	07/29/2003	ND	0.0010		0.0200
HCR	mg/L	MW-4	07/30/2003		450.6667	*	0.0200
HCR	mg/L	MW-4A	07/30/2003		0.0029		0.0200
HCR	mg/L	MW-6B	07/30/2003		0.0043		0.0200
HCR	mg/L	MW-6D	07/30/2003		0.0023		0.0200
HCR	mg/L	MW-7	10/23/2002	ND	0.0010		0.0200
HCR	mg/L	MW-9	07/31/2003		158.1000	*	0.0200
HCR	mg/L	MW07	07/30/2003		0.0004		0.0200
TCE	ug/l	MW-11	07/31/2003		1100.0000	*	23.7663
TCE	ug/l	MW-14S	07/30/2003		200.0000	*	23.7663
TCE	ug/l	MW-15D	07/30/2003		8.1000		23.7663
TCE	ug/l	MW-15S	07/30/2003		5.1000		23.7663
TCE	ug/l	MW-16	07/31/2003		38.0000	*	23.7663
TCE	ug/l	MW-1D	07/30/2003		1.6000		23.7663
TCE	ug/l	MW-3	07/29/2003		280.0000	*	23.7663
TCE	ug/l	MW-4	07/30/2003		326.6667	*	23.7663
TCE	ug/l	MW-4A	07/30/2003		150.0000	*	23.7663
TCE	ug/l	MW-6B	07/30/2003		13.0000		23.7663
TCE	ug/l	MW-6D	07/30/2003		4.1000		23.7663
TCE	ug/l	MW-7	10/23/2002		21.0000		23.7663
TCE	ug/l	MW-9	07/31/2003		456.6667	*	23.7663
TCE	ug/l	MW07	07/30/2003		60.0000	*	23.7663
TCR	mg/L	MW-11	07/31/2003	ND	0.0050		0.0100
TCR	mg/L	MW-14S	07/30/2003		0.1500	*	0.0100
TCR	mg/L	MW-15D	07/30/2003	ND	0.0050		0.0100
TCR	mg/L	MW-15S	07/30/2003	ND	0.0050		0.0100
TCR	mg/L	MW-16	07/31/2003	ND	0.0050		0.0100
TCR	mg/L	MW-1D	07/30/2003		0.0200	*	0.0100
TCR	mg/L	MW-3	07/29/2003	ND	0.0050		0.0100
TCR	mg/L	MW-4	07/30/2003		715.6667	*	0.0100
TCR	mg/L	MW-4A	07/30/2003	ND	0.0050		0.0100
TCR	mg/L	MW-6B	07/30/2003	ND	0.0050		0.0100
TCR	mg/L	MW-6D	07/30/2003	ND	0.0050		0.0100
TCR	mg/L	MW-7	10/23/2002	ND	0.0100		0.0100
TCR	mg/L	MW-9	07/31/2003		1.4667	*	0.0100
TCR	mg/L	MW07	07/30/2003	ND	0.0050		0.0100
TOL	ug/l	MW-11	07/31/2003	ND	10.0000		1.0000
TOL	ug/l	MW-14S	07/30/2003	ND	1.0000		1.0000
TOL	ug/l	MW-15D	07/30/2003	ND	1.0000		1.0000
TOL	ug/l	MW-15S	07/30/2003	ND	1.0000		1.0000
TOL	ug/l	MW-16	07/31/2003	ND	1.0000		1.0000
TOL	ug/l	MW-1D	07/30/2003	ND	1.0000		1.0000
TOL	ug/l	MW-3	07/29/2003	ND	5.0000		1.0000
TOL	ug/l	MW-4	07/30/2003	ND	7.5000		1.0000
TOL	ug/l	MW-4A	07/30/2003	ND	4.0000		1.0000
TOL	ug/l	MW-6B	07/30/2003	ND	1.0000		1.0000

* - Current value failed.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 2

Most Current Onsite/Downgradient Monitoring Data

Constituent	Units	Location	Date		Result		Pred. Limit
TOL	ug/l	MW-6D	07/30/2003	ND	1.0000		1.0000
TOL	ug/l	MW-7	10/23/2002	ND	1.0000		1.0000
TOL	ug/l	MW-9	07/31/2003	ND	7.5000		1.0000
TOL	ug/l	MW07	07/30/2003	ND	1.0000		1.0000
TX	ug/l	MW-11	07/31/2003		94.0000	*	5.8000
TX	ug/l	MW-14S	07/30/2003	ND	2.0000		5.8000
TX	ug/l	MW-15D	07/30/2003	ND	2.0000		5.8000
TX	ug/l	MW-15S	07/30/2003	ND	2.0000		5.8000
TX	ug/l	MW-16	07/31/2003	ND	2.0000		5.8000
TX	ug/l	MW-1D	07/30/2003	ND	2.0000		5.8000
TX	ug/l	MW-3	07/29/2003	ND	10.0000		5.8000
TX	ug/l	MW-4	07/30/2003	ND	15.0000		5.8000
TX	ug/l	MW-4A	07/30/2003	ND	8.0000		5.8000
TX	ug/l	MW-6B	07/30/2003	ND	2.0000		5.8000
TX	ug/l	MW-6D	07/30/2003	ND	2.0000		5.8000
TX	ug/l	MW-7	10/23/2002	ND	2.0000		5.8000
TX	ug/l	MW-9	07/31/2003	ND	15.0000		5.8000
TX	ug/l	MW07	07/30/2003	ND	2.0000		5.8000

* - Current value failed.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, result = detection limit.

Table 3

Detection Frequencies in Background and Onsite/Downgradient Locations

Constituent	Backgrd Detect	Backgrd N	Backgrd Proportion	Onsite Detect	Onsite N	Onsite Proportion
BEN	0	33	0.000	40	309	0.129
CD	2	33	0.061	44	312	0.141
CU	6	33	0.182	66	312	0.212
EBN	7	33	0.212	196	312	0.628
HCR	2	33	0.061	109	312	0.349
TCE	33	33	1.000	311	312	0.997
TCR	2	32	0.063	100	308	0.325
TOL	0	32	0.000	56	302	0.185
TX	7	33	0.212	145	312	0.465

N = Total number of measurements in all locations.
Detect = Total number of detections in all locations.
Proportion = Detect/N.

Table 4

Shapiro Wilk Test of Normality for Multiple Groups

Constituent	N (Detects)	Detect Freq	G raw	G log	Critical Value	Limit Type
BEN	0	0.000				nonpar
CD	2	0.061				nonpar
CU	6	0.182	3.043	3.023	2.326	nonpar
EBN	7	0.212	0.825	0.028	2.326	nonpar
HCR	2	0.061				nonpar
TCE	33	1.000	0.072	2.037	2.326	normal
TCR	2	0.063				nonpar
TOL	0	0.000				nonpar
TX	7	0.212	0.454	0.017	2.326	nonpar

Fit to distribution is confirmed if G < critical value.
If detection frequency is < 50% nonparametric or Poisson limit is used

Table 5

Summary Statistics and 95% Confidence Prediction Limits

Constituent	Units	Model Type	N	Detect	Mean	SD	Pred Limit	Conf*
BEN	ug/l	nonpar	33	0			0.5000	0.66
CD	mg/L	nonpar	33	2			0.0100	0.66
CU	mg/L	nonpar	33	6			0.0500	0.66
EBN	ug/l	nonpar	33	7			3.4000	0.66
HCR	mg/L	nonpar	33	2			0.0200	0.66
TCE	ug/l	normal	33	33	9.7697	3.7227	23.7663	
TCR	mg/L	nonpar	32	2			0.0100	0.65
TOL	ug/l	nonpar	32	0			1.0000	0.65
TX	ug/l	nonpar	33	7			5.8000	0.66

* - Confidence level for passing a single test at all onsite/downgradient locations for a single constituent (nonparametric test only).
Model Type refers to type of prediction limit.
For lognormal limit, mean and sd in natural log units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
BEN	ug/l	MW-14S	07/01/1994	ND	0.5000		0.5000
BEN	ug/l	MW-14S	10/01/1994		0.5300	*	0.5000
BEN	ug/l	MW-14S	04/01/1995	ND	5.0000		0.5000
BEN	ug/l	MW-14S	01/01/1996	ND	1.0000		0.5000
BEN	ug/l	MW-14S	04/01/1996	ND	2.5000		0.5000
BEN	ug/l	MW-14S	07/01/1996		0.5800	*	0.5000
BEN	ug/l	MW-14S	10/01/1996	ND	0.5000		0.5000
BEN	ug/l	MW-14S	01/01/1997	ND	2.5000		0.5000
BEN	ug/l	MW-14S	04/01/1997		0.5800	*	0.5000
BEN	ug/l	MW-14S	07/01/1997	ND	0.5000		0.5000
BEN	ug/l	MW-14S	10/01/1997	ND	0.5000		0.5000
BEN	ug/l	MW-14S	01/01/1998	ND	0.5000		0.5000
BEN	ug/l	MW-14S	04/01/1998	ND	12.0000		0.5000
BEN	ug/l	MW-14S	07/01/1998		0.5100	*	0.5000
BEN	ug/l	MW-14S	10/01/1998	ND	1.2000		0.5000
BEN	ug/l	MW-14S	01/01/1999		1.1000	*	0.5000
BEN	ug/l	MW-14S	04/01/1999	ND	12.0000		0.5000
BEN	ug/l	MW-14S	07/01/1999	ND	50.0000		0.5000
BEN	ug/l	MW-14S	10/01/1999	ND	5.0000		0.5000
BEN	ug/l	MW-14S	01/01/2000	ND	5.0000		0.5000
BEN	ug/l	MW-14S	04/01/2000		3.2000	*	0.5000
BEN	ug/l	MW-14S	10/01/2000	ND	5.0000		0.5000
BEN	ug/l	MW-14S	04/01/2001		2.1000	*	0.5000
BEN	ug/l	MW-14S	07/01/2001	ND	1.0000		0.5000
BEN	ug/l	MW-14S	10/01/2001	ND	2.0000		0.5000
BEN	ug/l	MW-14S	01/01/2002	ND	50.0000		0.5000
BEN	ug/l	MW-14S	04/01/2002	ND	2.0000		0.5000
BEN	ug/l	MW-14S	07/01/2002	ND	25.0000		0.5000
BEN	ug/l	MW-14S	10/23/2002	ND	5.0000		0.5000
BEN	ug/l	MW-14S	04/24/2003		2.6000	*	0.5000
BEN	ug/l	MW-14S	07/30/2003		1.4000	*	0.5000
BEN	ug/l	MW-15D	10/22/2002		1.2000	*	0.5000
BEN	ug/l	MW-15D	01/08/2003		1.3000	*	0.5000
BEN	ug/l	MW-15D	04/23/2003		2.3000	*	0.5000
BEN	ug/l	MW-15D	07/30/2003		1.4000	*	0.5000
BEN	ug/l	MW-16	07/01/1994	ND	25.0000		0.5000
BEN	ug/l	MW-16	10/01/1994	ND	0.5000		0.5000
BEN	ug/l	MW-16	01/01/1995	ND	0.5000		0.5000
BEN	ug/l	MW-16	04/01/1995	ND	5.0000		0.5000
BEN	ug/l	MW-16	01/01/1996	ND	0.5000		0.5000
BEN	ug/l	MW-16	04/01/1996	ND	0.5000		0.5000
BEN	ug/l	MW-16	07/01/1996	ND	0.5000		0.5000
BEN	ug/l	MW-16	10/01/1996	ND	0.5000		0.5000
BEN	ug/l	MW-16	01/01/1997	ND	1.0000		0.5000
BEN	ug/l	MW-16	04/01/1997	ND	1.0000		0.5000
BEN	ug/l	MW-16	07/01/1997	ND	1.2000		0.5000
BEN	ug/l	MW-16	10/01/1997	ND	2.5000		0.5000
BEN	ug/l	MW-16	01/01/1998	ND	0.5000		0.5000
BEN	ug/l	MW-16	04/01/1998	ND	0.5000		0.5000
BEN	ug/l	MW-16	07/01/1998	ND	0.5000		0.5000
BEN	ug/l	MW-16	10/01/1998	ND	2.5000		0.5000
BEN	ug/l	MW-16	01/01/1999	ND	1.0000		0.5000

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
BEN	ug/l	MW-16	04/01/1999	ND	2.0000		0.5000
BEN	ug/l	MW-16	07/01/1999	ND	2.0000		0.5000
BEN	ug/l	MW-16	10/01/1999	ND	5.0000		0.5000
BEN	ug/l	MW-16	01/01/2000	ND	1.0000		0.5000
BEN	ug/l	MW-16	04/01/2000	ND	2.0000		0.5000
BEN	ug/l	MW-16	10/01/2000	ND	2.5000		0.5000
BEN	ug/l	MW-16	04/01/2001	ND	2.0000		0.5000
BEN	ug/l	MW-16	07/01/2001	ND	2.5000		0.5000
BEN	ug/l	MW-16	10/01/2001	ND	2.0000		0.5000
BEN	ug/l	MW-16	01/01/2002	ND	2.0000		0.5000
BEN	ug/l	MW-16	04/01/2002	ND	2.0000		0.5000
BEN	ug/l	MW-16	07/01/2002	ND	5.0000		0.5000
BEN	ug/l	MW-16	10/24/2002	ND	2.0000		0.5000
BEN	ug/l	MW-16	01/09/2003	ND	0.5000		0.5000
BEN	ug/l	MW-16	04/24/2003	ND	0.5000		0.5000
BEN	ug/l	MW-16	07/31/2003		0.5100	*	0.5000
BEN	ug/l	MW-1D	10/22/2002	ND	1.0000		0.5000
BEN	ug/l	MW-1D	01/08/2003		0.6700	*	0.5000
BEN	ug/l	MW-1D	04/23/2003	ND	0.5000		0.5000
BEN	ug/l	MW-1D	07/30/2003		0.9800	*	0.5000
BEN	ug/l	MW-4	07/01/1994		0.5800	*	0.5000
BEN	ug/l	MW-4	10/01/1994	ND	5.0000		0.5000
BEN	ug/l	MW-4	01/01/1995	ND	5.0000		0.5000
BEN	ug/l	MW-4	04/01/1995	ND	100.0000		0.5000
BEN	ug/l	MW-4	01/01/1996	ND	50.0000		0.5000
BEN	ug/l	MW-4	04/01/1996	ND	25.0000		0.5000
BEN	ug/l	MW-4	07/01/1996	ND	50.0000		0.5000
BEN	ug/l	MW-4	10/01/1996	ND	0.5000		0.5000
BEN	ug/l	MW-4	01/01/1997	ND	6.2000		0.5000
BEN	ug/l	MW-4	04/01/1997	ND	12.0000		0.5000
BEN	ug/l	MW-4	07/01/1997	ND	5.0000		0.5000
BEN	ug/l	MW-4	10/01/1997	ND	5.0000		0.5000
BEN	ug/l	MW-4	01/01/1998	ND	5.0000		0.5000
BEN	ug/l	MW-4	04/01/1998		2.9000	*	0.5000
BEN	ug/l	MW-4	07/01/1998	ND	12.0000		0.5000
BEN	ug/l	MW-4	10/01/1998	ND	6.2000		0.5000
BEN	ug/l	MW-4	01/01/1999	ND	5.0000		0.5000
BEN	ug/l	MW-4	04/01/1999		3.5000	*	0.5000
BEN	ug/l	MW-4	07/01/1999	ND	10.0000		0.5000
BEN	ug/l	MW-4	10/01/1999	ND	5.0000		0.5000
BEN	ug/l	MW-4	01/01/2000		5.1000	*	0.5000
BEN	ug/l	MW-4	04/01/2000	ND	5.0000		0.5000
BEN	ug/l	MW-4	10/01/2000	ND	50.0000		0.5000
BEN	ug/l	MW-4	04/01/2001	ND	50.0000		0.5000
BEN	ug/l	MW-4	07/01/2001	ND	50.0000		0.5000
BEN	ug/l	MW-4	10/01/2001	ND	50.0000		0.5000
BEN	ug/l	MW-4	01/01/2002	ND	10.0000		0.5000
BEN	ug/l	MW-4	04/01/2002	ND	50.0000		0.5000
BEN	ug/l	MW-4	07/01/2002		7.6500	*	0.5000
BEN	ug/l	MW-4	10/23/2002	ND	12.0000		0.5000
BEN	ug/l	MW-4	12/30/2002		3.8000	*	0.5000
BEN	ug/l	MW-4	04/25/2003		3.7333	*	0.5000

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
BEN	ug/l	MW-4	07/30/2003		630.9333	*	0.5000
BEN	ug/l	MW-4A	10/23/2002	ND	1.0000		0.5000
BEN	ug/l	MW-4A	01/09/2003	ND	0.5000		0.5000
BEN	ug/l	MW-4A	04/24/2003		1.7000	*	0.5000
BEN	ug/l	MW-4A	07/30/2003		2.2000	*	0.5000
CD	mg/L	MW-4	07/01/1994		0.2000	*	0.0100
CD	mg/L	MW-4	10/01/1994		0.4500	*	0.0100
CD	mg/L	MW-4	01/01/1995		0.1300	*	0.0100
CD	mg/L	MW-4	04/01/1995		0.2100	*	0.0100
CD	mg/L	MW-4	01/01/1996		0.1900	*	0.0100
CD	mg/L	MW-4	04/01/1996		0.6000	*	0.0100
CD	mg/L	MW-4	07/01/1996		0.2800	*	0.0100
CD	mg/L	MW-4	10/01/1996		0.4600	*	0.0100
CD	mg/L	MW-4	01/01/1997		0.5400	*	0.0100
CD	mg/L	MW-4	04/01/1997		0.5300	*	0.0100
CD	mg/L	MW-4	07/01/1997		0.6200	*	0.0100
CD	mg/L	MW-4	10/01/1997		0.6400	*	0.0100
CD	mg/L	MW-4	01/01/1998		0.5300	*	0.0100
CD	mg/L	MW-4	04/01/1998		0.4300	*	0.0100
CD	mg/L	MW-4	07/01/1998		0.3200	*	0.0100
CD	mg/L	MW-4	10/01/1998		0.4400	*	0.0100
CD	mg/L	MW-4	01/01/1999		0.5800	*	0.0100
CD	mg/L	MW-4	04/01/1999		0.4100	*	0.0100
CD	mg/L	MW-4	07/01/1999		0.4200	*	0.0100
CD	mg/L	MW-4	10/01/1999		0.5900	*	0.0100
CD	mg/L	MW-4	01/01/2000		0.3200	*	0.0100
CD	mg/L	MW-4	04/01/2000		0.5500	*	0.0100
CD	mg/L	MW-4	10/01/2000		0.5200	*	0.0100
CD	mg/L	MW-4	04/01/2001		0.3800	*	0.0100
CD	mg/L	MW-4	07/01/2001		0.3100	*	0.0100
CD	mg/L	MW-4	10/01/2001		0.4200	*	0.0100
CD	mg/L	MW-4	01/01/2002		0.3800	*	0.0100
CD	mg/L	MW-4	04/01/2002		0.4350	*	0.0100
CD	mg/L	MW-4	07/01/2002		0.4900	*	0.0100
CD	mg/L	MW-4	10/23/2002		0.6150	*	0.0100
CD	mg/L	MW-4	12/30/2002		0.2550	*	0.0100
CD	mg/L	MW-4	04/25/2003		0.1933	*	0.0100
CD	mg/L	MW-4	07/30/2003		453.6267	*	0.0100
EBN	ug/l	MW-11	07/01/1994	ND	1.0000		3.4000
EBN	ug/l	MW-11	10/01/1994		4.5000	*	3.4000
EBN	ug/l	MW-11	01/01/1995		850.0000	*	3.4000
EBN	ug/l	MW-11	04/01/1995		1900.0000	*	3.4000
EBN	ug/l	MW-11	01/01/1996		460.0000	*	3.4000
EBN	ug/l	MW-11	04/01/1996		1100.0000	*	3.4000
EBN	ug/l	MW-11	07/01/1996		460.0000	*	3.4000
EBN	ug/l	MW-11	10/01/1996		20.0000	*	3.4000
EBN	ug/l	MW-11	01/01/1997		84.0000	*	3.4000
EBN	ug/l	MW-11	04/01/1997		120.0000	*	3.4000
EBN	ug/l	MW-11	07/01/1997		8.3000	*	3.4000
EBN	ug/l	MW-11	10/01/1997	ND	5.0000		3.4000
EBN	ug/l	MW-11	01/01/1998		1800.0000	*	3.4000
EBN	ug/l	MW-11	04/01/1998		150.0000	*	3.4000

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
EBN	ug/l	MW-11	07/01/1998		41.0000	*	3.4000
EBN	ug/l	MW-11	10/01/1998	ND	10.0000		3.4000
EBN	ug/l	MW-11	01/01/1999		750.0000	*	3.4000
EBN	ug/l	MW-11	04/01/1999		1600.0000	*	3.4000
EBN	ug/l	MW-11	07/01/1999		85.0000	*	3.4000
EBN	ug/l	MW-11	10/01/1999		480.0000	*	3.4000
EBN	ug/l	MW-11	01/01/2000	ND	12.0000		3.4000
EBN	ug/l	MW-11	04/01/2000		55.0000	*	3.4000
EBN	ug/l	MW-11	10/01/2000	ND	50.0000		3.4000
EBN	ug/l	MW-11	04/01/2001		48.0000	*	3.4000
EBN	ug/l	MW-11	07/01/2001	ND	5.0000		3.4000
EBN	ug/l	MW-11	10/01/2001		90.0000	*	3.4000
EBN	ug/l	MW-11	01/01/2002		1900.0000	*	3.4000
EBN	ug/l	MW-11	04/01/2002		300.0000	*	3.4000
EBN	ug/l	MW-11	07/01/2002	ND	50.0000		3.4000
EBN	ug/l	MW-11	10/24/2002		390.0000	*	3.4000
EBN	ug/l	MW-11	12/30/2002		31.0000	*	3.4000
EBN	ug/l	MW-11	04/25/2003	ND	5.0000		3.4000
EBN	ug/l	MW-11	07/31/2003		210.0000	*	3.4000
EBN	ug/l	MW-14S	07/01/1994	ND	1.0000		3.4000
EBN	ug/l	MW-14S	10/01/1994	ND	1.0000		3.4000
EBN	ug/l	MW-14S	04/01/1995		120.0000	*	3.4000
EBN	ug/l	MW-14S	01/01/1996		87.0000	*	3.4000
EBN	ug/l	MW-14S	04/01/1996		120.0000	*	3.4000
EBN	ug/l	MW-14S	07/01/1996		20.0000	*	3.4000
EBN	ug/l	MW-14S	10/01/1996		13.0000	*	3.4000
EBN	ug/l	MW-14S	01/01/1997		470.0000	*	3.4000
EBN	ug/l	MW-14S	04/01/1997		91.0000	*	3.4000
EBN	ug/l	MW-14S	07/01/1997		14.0000	*	3.4000
EBN	ug/l	MW-14S	10/01/1997		20.0000	*	3.4000
EBN	ug/l	MW-14S	01/01/1998		19.0000	*	3.4000
EBN	ug/l	MW-14S	04/01/1998		1500.0000	*	3.4000
EBN	ug/l	MW-14S	07/01/1998		18.0000	*	3.4000
EBN	ug/l	MW-14S	10/01/1998		120.0000	*	3.4000
EBN	ug/l	MW-14S	01/01/1999		77.0000	*	3.4000
EBN	ug/l	MW-14S	04/01/1999		820.0000	*	3.4000
EBN	ug/l	MW-14S	07/01/1999		3000.0000	*	3.4000
EBN	ug/l	MW-14S	10/01/1999		120.0000	*	3.4000
EBN	ug/l	MW-14S	01/01/2000	ND	5.0000		3.4000
EBN	ug/l	MW-14S	04/01/2000		110.0000	*	3.4000
EBN	ug/l	MW-14S	10/01/2000		230.0000	*	3.4000
EBN	ug/l	MW-14S	04/01/2001		8.6000	*	3.4000
EBN	ug/l	MW-14S	07/01/2001	ND	1.0000		3.4000
EBN	ug/l	MW-14S	10/01/2001		2.4000		3.4000
EBN	ug/l	MW-14S	01/01/2002		2700.0000	*	3.4000
EBN	ug/l	MW-14S	04/01/2002	ND	2.0000		3.4000
EBN	ug/l	MW-14S	07/01/2002		860.0000	*	3.4000
EBN	ug/l	MW-14S	10/23/2002		14.0000	*	3.4000
EBN	ug/l	MW-14S	12/30/2002		130.0000	*	3.4000
EBN	ug/l	MW-14S	04/24/2003		240.0000	*	3.4000
EBN	ug/l	MW-14S	07/30/2003		49.0000	*	3.4000
HCR	mg/L	MW-14S	07/01/1994	ND	0.0200		0.0200

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
HCR	mg/L	MW-14S	10/01/1994		0.0300	*	0.0200
HCR	mg/L	MW-14S	04/01/1995	ND	0.0200		0.0200
HCR	mg/L	MW-14S	01/01/1996	ND	0.0200		0.0200
HCR	mg/L	MW-14S	04/01/1996		0.0200		0.0200
HCR	mg/L	MW-14S	07/01/1996	ND	0.0100		0.0200
HCR	mg/L	MW-14S	10/01/1996		0.0500	*	0.0200
HCR	mg/L	MW-14S	01/01/1997		0.0200		0.0200
HCR	mg/L	MW-14S	04/01/1997	ND	0.0200		0.0200
HCR	mg/L	MW-14S	07/01/1997	ND	0.0200		0.0200
HCR	mg/L	MW-14S	10/01/1997	ND	0.1000		0.0200
HCR	mg/L	MW-14S	01/01/1998	ND	0.0200		0.0200
HCR	mg/L	MW-14S	04/01/1998	ND	0.0200		0.0200
HCR	mg/L	MW-14S	07/01/1998	ND	0.0200		0.0200
HCR	mg/L	MW-14S	10/01/1998		0.0300	*	0.0200
HCR	mg/L	MW-14S	01/01/1999		0.0500	*	0.0200
HCR	mg/L	MW-14S	04/01/1999	ND	0.0100		0.0200
HCR	mg/L	MW-14S	07/01/1999	ND	0.0200		0.0200
HCR	mg/L	MW-14S	10/01/1999		0.0300	*	0.0200
HCR	mg/L	MW-14S	01/01/2000		0.1100	*	0.0200
HCR	mg/L	MW-14S	04/01/2000	ND	0.0100		0.0200
HCR	mg/L	MW-14S	10/01/2000		0.0300	*	0.0200
HCR	mg/L	MW-14S	04/01/2001		0.0500	*	0.0200
HCR	mg/L	MW-14S	07/01/2001		0.0046		0.0200
HCR	mg/L	MW-14S	10/01/2001	ND	0.0020		0.0200
HCR	mg/L	MW-14S	01/01/2002	ND	0.0060		0.0200
HCR	mg/L	MW-14S	04/01/2002		0.0300	*	0.0200
HCR	mg/L	MW-14S	07/01/2002		0.0100		0.0200
HCR	mg/L	MW-14S	10/23/2002		0.4200	*	0.0200
HCR	mg/L	MW-14S	12/30/2002		0.0042		0.0200
HCR	mg/L	MW-14S	04/24/2003	ND	0.0010		0.0200
HCR	mg/L	MW-14S	07/30/2003		0.1200	*	0.0200
HCR	mg/L	MW-4	07/01/1994		59.0000	*	0.0200
HCR	mg/L	MW-4	10/01/1994		60.7000	*	0.0200
HCR	mg/L	MW-4	01/01/1995		28.8000	*	0.0200
HCR	mg/L	MW-4	04/01/1995		8.6000	*	0.0200
HCR	mg/L	MW-4	01/01/1996		25.7000	*	0.0200
HCR	mg/L	MW-4	04/01/1996		28.4000	*	0.0200
HCR	mg/L	MW-4	07/01/1996		50.0000	*	0.0200
HCR	mg/L	MW-4	10/01/1996		63.8000	*	0.0200
HCR	mg/L	MW-4	01/01/1997		45.9000	*	0.0200
HCR	mg/L	MW-4	04/01/1997		27.3000	*	0.0200
HCR	mg/L	MW-4	07/01/1997		36.0000	*	0.0200
HCR	mg/L	MW-4	10/01/1997		73.8000	*	0.0200
HCR	mg/L	MW-4	01/01/1998		39.2000	*	0.0200
HCR	mg/L	MW-4	04/01/1998		7.2000	*	0.0200
HCR	mg/L	MW-4	07/01/1998		16.3000	*	0.0200
HCR	mg/L	MW-4	10/01/1998		34.1000	*	0.0200
HCR	mg/L	MW-4	01/01/1999		78.6000	*	0.0200
HCR	mg/L	MW-4	04/01/1999		0.5700	*	0.0200
HCR	mg/L	MW-4	07/01/1999		41.1000	*	0.0200
HCR	mg/L	MW-4	10/01/1999		58.2000	*	0.0200
HCR	mg/L	MW-4	01/01/2000		76.3000	*	0.0200

* - Significantly increased over background.
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Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
HCR	mg/L	MW-4	04/01/2000		32.9000	*	0.0200
HCR	mg/L	MW-4	10/01/2000		45.6000	*	0.0200
HCR	mg/L	MW-4	04/01/2001		11.0000	*	0.0200
HCR	mg/L	MW-4	07/01/2001		14.5000	*	0.0200
HCR	mg/L	MW-4	10/01/2001		32.5000	*	0.0200
HCR	mg/L	MW-4	01/01/2002		18.0000	*	0.0200
HCR	mg/L	MW-4	04/01/2002		31.0000	*	0.0200
HCR	mg/L	MW-4	07/01/2002		27.8000	*	0.0200
HCR	mg/L	MW-4	10/23/2002		31.4500	*	0.0200
HCR	mg/L	MW-4	12/30/2002		10.2000	*	0.0200
HCR	mg/L	MW-4	04/25/2003		1178.0000	*	0.0200
HCR	mg/L	MW-4	07/30/2003		450.6667	*	0.0200
HCR	mg/L	MW-9	07/01/1994	ND	0.0200		0.0200
HCR	mg/L	MW-9	10/01/1994	ND	0.0200		0.0200
HCR	mg/L	MW-9	01/01/1995	ND	0.0200		0.0200
HCR	mg/L	MW-9	04/01/1995	ND	0.0200		0.0200
HCR	mg/L	MW-9	01/01/1996	ND	0.0200		0.0200
HCR	mg/L	MW-9	04/01/1996	ND	0.0200		0.0200
HCR	mg/L	MW-9	07/01/1996	ND	0.0100		0.0200
HCR	mg/L	MW-9	10/01/1996	ND	0.0100		0.0200
HCR	mg/L	MW-9	01/01/1997	ND	0.0200		0.0200
HCR	mg/L	MW-9	04/01/1997	ND	0.0200		0.0200
HCR	mg/L	MW-9	07/01/1997	ND	0.0200		0.0200
HCR	mg/L	MW-9	10/01/1997	ND	0.0200		0.0200
HCR	mg/L	MW-9	01/01/1998	ND	0.0200		0.0200
HCR	mg/L	MW-9	04/01/1998	ND	0.0200		0.0200
HCR	mg/L	MW-9	07/01/1998	ND	0.0200		0.0200
HCR	mg/L	MW-9	10/01/1998		3.3000	*	0.0200
HCR	mg/L	MW-9	01/01/1999		3.3000	*	0.0200
HCR	mg/L	MW-9	04/01/1999	ND	0.0100		0.0200
HCR	mg/L	MW-9	07/01/1999		5.8000	*	0.0200
HCR	mg/L	MW-9	10/01/1999		4.0000	*	0.0200
HCR	mg/L	MW-9	01/01/2000		14.1000	*	0.0200
HCR	mg/L	MW-9	04/01/2000	ND	0.0100		0.0200
HCR	mg/L	MW-9	10/01/2000	ND	0.0200		0.0200
HCR	mg/L	MW-9	04/01/2001		0.0043		0.0200
HCR	mg/L	MW-9	07/01/2001		0.0800	*	0.0200
HCR	mg/L	MW-9	10/01/2001		1.1000	*	0.0200
HCR	mg/L	MW-9	01/01/2002		0.2550	*	0.0200
HCR	mg/L	MW-9	04/01/2002		0.1400	*	0.0200
HCR	mg/L	MW-9	07/01/2002		10.1000	*	0.0200
HCR	mg/L	MW-9	10/24/2002		4.3500	*	0.0200
HCR	mg/L	MW-9	01/09/2003		9.5000	*	0.0200
HCR	mg/L	MW-9	04/25/2003		130.1700	*	0.0200
HCR	mg/L	MW-9	07/31/2003		158.1000	*	0.0200
TCE	ug/l	MW-11	07/01/1994		180.0000	*	23.7663
TCE	ug/l	MW-11	10/01/1994		360.0000	*	23.7663
TCE	ug/l	MW-11	01/01/1995		660.0000	*	23.7663
TCE	ug/l	MW-11	04/01/1995		74.0000	*	23.7663
TCE	ug/l	MW-11	01/01/1996		620.0000	*	23.7663
TCE	ug/l	MW-11	04/01/1996		240.0000	*	23.7663
TCE	ug/l	MW-11	07/01/1996		220.0000	*	23.7663

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
TCE	ug/l	MW-11	10/01/1996		250.0000	*	23.7663
TCE	ug/l	MW-11	01/01/1997		160.0000	*	23.7663
TCE	ug/l	MW-11	04/01/1997		370.0000	*	23.7663
TCE	ug/l	MW-11	07/01/1997		240.0000	*	23.7663
TCE	ug/l	MW-11	10/01/1997		350.0000	*	23.7663
TCE	ug/l	MW-11	01/01/1998		390.0000	*	23.7663
TCE	ug/l	MW-11	04/01/1998		180.0000	*	23.7663
TCE	ug/l	MW-11	07/01/1998		150.0000	*	23.7663
TCE	ug/l	MW-11	10/01/1998		430.0000	*	23.7663
TCE	ug/l	MW-11	01/01/1999		690.0000	*	23.7663
TCE	ug/l	MW-11	04/01/1999		480.0000	*	23.7663
TCE	ug/l	MW-11	07/01/1999		740.0000	*	23.7663
TCE	ug/l	MW-11	10/01/1999		650.0000	*	23.7663
TCE	ug/l	MW-11	01/01/2000		820.0000	*	23.7663
TCE	ug/l	MW-11	04/01/2000		1100.0000	*	23.7663
TCE	ug/l	MW-11	10/01/2000		2900.0000	*	23.7663
TCE	ug/l	MW-11	04/01/2001		1700.0000	*	23.7663
TCE	ug/l	MW-11	07/01/2001		400.0000	*	23.7663
TCE	ug/l	MW-11	10/01/2001		1500.0000	*	23.7663
TCE	ug/l	MW-11	01/01/2002		630.0000	*	23.7663
TCE	ug/l	MW-11	04/01/2002		1300.0000	*	23.7663
TCE	ug/l	MW-11	07/01/2002		1500.0000	*	23.7663
TCE	ug/l	MW-11	10/24/2002		700.0000	*	23.7663
TCE	ug/l	MW-11	12/30/2002		550.0000	*	23.7663
TCE	ug/l	MW-11	04/25/2003		410.0000	*	23.7663
TCE	ug/l	MW-11	07/31/2003		1100.0000	*	23.7663
TCE	ug/l	MW-14S	07/01/1994		15.0000		23.7663
TCE	ug/l	MW-14S	10/01/1994		58.0000	*	23.7663
TCE	ug/l	MW-14S	04/01/1995		20.0000		23.7663
TCE	ug/l	MW-14S	01/01/1996		42.0000	*	23.7663
TCE	ug/l	MW-14S	04/01/1996		51.0000	*	23.7663
TCE	ug/l	MW-14S	07/01/1996		37.0000	*	23.7663
TCE	ug/l	MW-14S	10/01/1996		61.0000	*	23.7663
TCE	ug/l	MW-14S	01/01/1997		90.0000	*	23.7663
TCE	ug/l	MW-14S	04/01/1997		45.0000	*	23.7663
TCE	ug/l	MW-14S	07/01/1997		35.0000	*	23.7663
TCE	ug/l	MW-14S	10/01/1997		57.0000	*	23.7663
TCE	ug/l	MW-14S	01/01/1998		50.0000	*	23.7663
TCE	ug/l	MW-14S	04/01/1998		38.0000	*	23.7663
TCE	ug/l	MW-14S	07/01/1998		18.0000		23.7663
TCE	ug/l	MW-14S	10/01/1998		62.0000	*	23.7663
TCE	ug/l	MW-14S	01/01/1999		98.0000	*	23.7663
TCE	ug/l	MW-14S	04/01/1999		84.0000	*	23.7663
TCE	ug/l	MW-14S	07/01/1999		74.0000	*	23.7663
TCE	ug/l	MW-14S	10/01/1999		180.0000	*	23.7663
TCE	ug/l	MW-14S	01/01/2000		230.0000	*	23.7663
TCE	ug/l	MW-14S	04/01/2000		60.0000	*	23.7663
TCE	ug/l	MW-14S	10/01/2000		170.0000	*	23.7663
TCE	ug/l	MW-14S	04/01/2001		130.0000	*	23.7663
TCE	ug/l	MW-14S	07/01/2001		35.0000	*	23.7663
TCE	ug/l	MW-14S	10/01/2001		170.0000	*	23.7663
TCE	ug/l	MW-14S	01/01/2002		91.0000	*	23.7663

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
TCE	ug/l	MW-14S	04/01/2002		130.0000	*	23.7663
TCE	ug/l	MW-14S	07/01/2002		150.0000	*	23.7663
TCE	ug/l	MW-14S	10/23/2002		360.0000	*	23.7663
TCE	ug/l	MW-14S	12/30/2002		190.0000	*	23.7663
TCE	ug/l	MW-14S	04/24/2003		160.0000	*	23.7663
TCE	ug/l	MW-14S	07/30/2003		200.0000	*	23.7663
TCE	ug/l	MW-16	07/01/1994		76.0000	*	23.7663
TCE	ug/l	MW-16	10/01/1994		91.0000	*	23.7663
TCE	ug/l	MW-16	01/01/1995		17.0000		23.7663
TCE	ug/l	MW-16	04/01/1995		34.0000	*	23.7663
TCE	ug/l	MW-16	01/01/1996		26.0000	*	23.7663
TCE	ug/l	MW-16	04/01/1996		36.0000	*	23.7663
TCE	ug/l	MW-16	07/01/1996		110.0000	*	23.7663
TCE	ug/l	MW-16	10/01/1996		73.0000	*	23.7663
TCE	ug/l	MW-16	01/01/1997		32.0000	*	23.7663
TCE	ug/l	MW-16	04/01/1997		31.0000	*	23.7663
TCE	ug/l	MW-16	07/01/1997		30.0000	*	23.7663
TCE	ug/l	MW-16	10/01/1997		53.0000	*	23.7663
TCE	ug/l	MW-16	01/01/1998		29.0000	*	23.7663
TCE	ug/l	MW-16	04/01/1998		29.0000	*	23.7663
TCE	ug/l	MW-16	07/01/1998		28.0000	*	23.7663
TCE	ug/l	MW-16	10/01/1998		58.0000	*	23.7663
TCE	ug/l	MW-16	01/01/1999		36.0000	*	23.7663
TCE	ug/l	MW-16	04/01/1999		39.0000	*	23.7663
TCE	ug/l	MW-16	07/01/1999		29.0000	*	23.7663
TCE	ug/l	MW-16	10/01/1999		42.0000	*	23.7663
TCE	ug/l	MW-16	01/01/2000		18.0000		23.7663
TCE	ug/l	MW-16	04/01/2000		26.0000	*	23.7663
TCE	ug/l	MW-16	10/01/2000		36.0000	*	23.7663
TCE	ug/l	MW-16	04/01/2001		36.0000	*	23.7663
TCE	ug/l	MW-16	07/01/2001		26.0000	*	23.7663
TCE	ug/l	MW-16	10/01/2001		34.0000	*	23.7663
TCE	ug/l	MW-16	01/01/2002		31.0000	*	23.7663
TCE	ug/l	MW-16	04/01/2002		37.0000	*	23.7663
TCE	ug/l	MW-16	07/01/2002		47.0000	*	23.7663
TCE	ug/l	MW-16	10/24/2002		25.0000	*	23.7663
TCE	ug/l	MW-16	01/09/2003		20.0000		23.7663
TCE	ug/l	MW-16	04/24/2003		20.0000		23.7663
TCE	ug/l	MW-16	07/31/2003		38.0000	*	23.7663
TCE	ug/l	MW-3	07/01/1994		26.0000	*	23.7663
TCE	ug/l	MW-3	10/01/1994		76.0000	*	23.7663
TCE	ug/l	MW-3	01/01/1995		72.0000	*	23.7663
TCE	ug/l	MW-3	04/01/1995		57.0000	*	23.7663
TCE	ug/l	MW-3	01/01/1996		26.0000	*	23.7663
TCE	ug/l	MW-3	04/01/1996		46.0000	*	23.7663
TCE	ug/l	MW-3	07/01/1996		17.0000		23.7663
TCE	ug/l	MW-3	10/01/1996		21.0000		23.7663
TCE	ug/l	MW-3	01/01/1997		28.0000	*	23.7663
TCE	ug/l	MW-3	04/01/1997		13.0000		23.7663
TCE	ug/l	MW-3	07/01/1997		13.0000		23.7663
TCE	ug/l	MW-3	10/01/1997		24.0000	*	23.7663
TCE	ug/l	MW-3	01/01/1998		25.0000	*	23.7663

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
TCE	ug/l	MW-3	04/01/1998		18.0000		23.7663
TCE	ug/l	MW-3	07/01/1998		25.0000	*	23.7663
TCE	ug/l	MW-3	10/01/1998		24.0000	*	23.7663
TCE	ug/l	MW-3	01/01/1999		26.0000	*	23.7663
TCE	ug/l	MW-3	04/01/1999		21.0000		23.7663
TCE	ug/l	MW-3	07/01/1999		43.0000	*	23.7663
TCE	ug/l	MW-3	10/01/1999		170.0000	*	23.7663
TCE	ug/l	MW-3	01/01/2000		170.0000	*	23.7663
TCE	ug/l	MW-3	04/01/2000		170.0000	*	23.7663
TCE	ug/l	MW-3	10/01/2000	ND	2.5000		23.7663
TCE	ug/l	MW-3	04/01/2001		150.0000	*	23.7663
TCE	ug/l	MW-3	07/01/2001		41.0000	*	23.7663
TCE	ug/l	MW-3	10/01/2001		290.0000	*	23.7663
TCE	ug/l	MW-3	01/01/2002		220.0000	*	23.7663
TCE	ug/l	MW-3	04/01/2002		280.0000	*	23.7663
TCE	ug/l	MW-3	07/01/2002		260.0000	*	23.7663
TCE	ug/l	MW-3	10/22/2002		190.0000	*	23.7663
TCE	ug/l	MW-3	01/08/2003		250.0000	*	23.7663
TCE	ug/l	MW-3	04/23/2003		190.0000	*	23.7663
TCE	ug/l	MW-3	07/29/2003		280.0000	*	23.7663
TCE	ug/l	MW-4	07/01/1994		340.0000	*	23.7663
TCE	ug/l	MW-4	10/01/1994		390.0000	*	23.7663
TCE	ug/l	MW-4	01/01/1995		190.0000	*	23.7663
TCE	ug/l	MW-4	04/01/1995		67.0000	*	23.7663
TCE	ug/l	MW-4	01/01/1996		160.0000	*	23.7663
TCE	ug/l	MW-4	04/01/1996		130.0000	*	23.7663
TCE	ug/l	MW-4	07/01/1996		140.0000	*	23.7663
TCE	ug/l	MW-4	10/01/1996		310.0000	*	23.7663
TCE	ug/l	MW-4	01/01/1997		330.0000	*	23.7663
TCE	ug/l	MW-4	04/01/1997		150.0000	*	23.7663
TCE	ug/l	MW-4	07/01/1997		150.0000	*	23.7663
TCE	ug/l	MW-4	10/01/1997		230.0000	*	23.7663
TCE	ug/l	MW-4	01/01/1998		180.0000	*	23.7663
TCE	ug/l	MW-4	04/01/1998		92.0000	*	23.7663
TCE	ug/l	MW-4	07/01/1998		120.0000	*	23.7663
TCE	ug/l	MW-4	10/01/1998		120.0000	*	23.7663
TCE	ug/l	MW-4	01/01/1999		260.0000	*	23.7663
TCE	ug/l	MW-4	04/01/1999		190.0000	*	23.7663
TCE	ug/l	MW-4	07/01/1999		140.0000	*	23.7663
TCE	ug/l	MW-4	10/01/1999		210.0000	*	23.7663
TCE	ug/l	MW-4	01/01/2000		160.0000	*	23.7663
TCE	ug/l	MW-4	04/01/2000		240.0000	*	23.7663
TCE	ug/l	MW-4	10/01/2000		170.0000	*	23.7663
TCE	ug/l	MW-4	04/01/2001		150.0000	*	23.7663
TCE	ug/l	MW-4	07/01/2001		75.0000	*	23.7663
TCE	ug/l	MW-4	10/01/2001		195.0000	*	23.7663
TCE	ug/l	MW-4	01/01/2002		135.0000	*	23.7663
TCE	ug/l	MW-4	04/01/2002		260.0000	*	23.7663
TCE	ug/l	MW-4	07/01/2002		210.0000	*	23.7663
TCE	ug/l	MW-4	10/23/2002		135.0000	*	23.7663
TCE	ug/l	MW-4	12/30/2002		92.0000	*	23.7663
TCE	ug/l	MW-4	04/25/2003		336.6667	*	23.7663

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
TCE	ug/l	MW-4	07/30/2003		326.6667	*	23.7663
TCE	ug/l	MW-4A	10/23/2002		36.0000	*	23.7663
TCE	ug/l	MW-4A	01/09/2003		42.0000	*	23.7663
TCE	ug/l	MW-4A	04/24/2003		110.0000	*	23.7663
TCE	ug/l	MW-4A	07/30/2003		150.0000	*	23.7663
TCE	ug/l	MW-9	07/01/1994		200.0000	*	23.7663
TCE	ug/l	MW-9	10/01/1994		350.0000	*	23.7663
TCE	ug/l	MW-9	01/01/1995		310.0000	*	23.7663
TCE	ug/l	MW-9	04/01/1995		670.0000	*	23.7663
TCE	ug/l	MW-9	01/01/1996		500.0000	*	23.7663
TCE	ug/l	MW-9	04/01/1996		580.0000	*	23.7663
TCE	ug/l	MW-9	07/01/1996		570.0000	*	23.7663
TCE	ug/l	MW-9	10/01/1996		470.0000	*	23.7663
TCE	ug/l	MW-9	01/01/1997		400.0000	*	23.7663
TCE	ug/l	MW-9	04/01/1997		770.0000	*	23.7663
TCE	ug/l	MW-9	07/01/1997		850.0000	*	23.7663
TCE	ug/l	MW-9	10/01/1997		600.0000	*	23.7663
TCE	ug/l	MW-9	01/01/1998		270.0000	*	23.7663
TCE	ug/l	MW-9	04/01/1998		390.0000	*	23.7663
TCE	ug/l	MW-9	07/01/1998		1300.0000	*	23.7663
TCE	ug/l	MW-9	10/01/1998		1200.0000	*	23.7663
TCE	ug/l	MW-9	01/01/1999		550.0000	*	23.7663
TCE	ug/l	MW-9	04/01/1999		350.0000	*	23.7663
TCE	ug/l	MW-9	07/01/1999		810.0000	*	23.7663
TCE	ug/l	MW-9	10/01/1999		280.0000	*	23.7663
TCE	ug/l	MW-9	01/01/2000		170.0000	*	23.7663
TCE	ug/l	MW-9	04/01/2000		370.0000	*	23.7663
TCE	ug/l	MW-9	10/01/2000		160.0000	*	23.7663
TCE	ug/l	MW-9	04/01/2001		200.0000	*	23.7663
TCE	ug/l	MW-9	07/01/2001		120.0000	*	23.7663
TCE	ug/l	MW-9	10/01/2001		390.0000	*	23.7663
TCE	ug/l	MW-9	01/01/2002		200.0000	*	23.7663
TCE	ug/l	MW-9	04/01/2002		165.0000	*	23.7663
TCE	ug/l	MW-9	07/01/2002		525.0000	*	23.7663
TCE	ug/l	MW-9	10/24/2002		585.0000	*	23.7663
TCE	ug/l	MW-9	01/09/2003		390.0000	*	23.7663
TCE	ug/l	MW-9	04/25/2003		300.0000	*	23.7663
TCE	ug/l	MW-9	07/31/2003		456.6667	*	23.7663
TCE	ug/l	MW07	12/30/2002		13.0000		23.7663
TCE	ug/l	MW07	04/24/2003		59.0000	*	23.7663
TCE	ug/l	MW07	07/30/2003		60.0000	*	23.7663
TCR	mg/L	MW-14S	07/01/1994		0.0100		0.0100
TCR	mg/L	MW-14S	10/01/1994	ND	0.0600		0.0100
TCR	mg/L	MW-14S	04/01/1995	ND	0.0100		0.0100
TCR	mg/L	MW-14S	01/01/1996		0.0300	*	0.0100
TCR	mg/L	MW-14S	04/01/1996		0.0200	*	0.0100
TCR	mg/L	MW-14S	07/01/1996		0.0600	*	0.0100
TCR	mg/L	MW-14S	10/01/1996		0.0800	*	0.0100
TCR	mg/L	MW-14S	01/01/1997		0.0300	*	0.0100
TCR	mg/L	MW-14S	04/01/1997		0.0300	*	0.0100
TCR	mg/L	MW-14S	07/01/1997		0.0100		0.0100
TCR	mg/L	MW-14S	10/01/1997		0.0100		0.0100

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
TCR	mg/L	MW-14S	01/01/1998		0.0100		0.0100
TCR	mg/L	MW-14S	04/01/1998		0.0100		0.0100
TCR	mg/L	MW-14S	07/01/1998	ND	0.0100		0.0100
TCR	mg/L	MW-14S	10/01/1998		0.0400	*	0.0100
TCR	mg/L	MW-14S	01/01/1999		0.0300	*	0.0100
TCR	mg/L	MW-14S	04/01/1999	ND	0.0100		0.0100
TCR	mg/L	MW-14S	07/01/1999	ND	0.0100		0.0100
TCR	mg/L	MW-14S	10/01/1999		0.1500	*	0.0100
TCR	mg/L	MW-14S	01/01/2000		0.2600	*	0.0100
TCR	mg/L	MW-14S	04/01/2000	ND	0.0100		0.0100
TCR	mg/L	MW-14S	10/01/2000		0.0900	*	0.0100
TCR	mg/L	MW-14S	04/01/2001		0.0400	*	0.0100
TCR	mg/L	MW-14S	07/01/2001		0.0200	*	0.0100
TCR	mg/L	MW-14S	10/01/2001		0.1400	*	0.0100
TCR	mg/L	MW-14S	01/01/2002	ND	0.0100		0.0100
TCR	mg/L	MW-14S	04/01/2002		0.0400	*	0.0100
TCR	mg/L	MW-14S	07/01/2002		0.0600	*	0.0100
TCR	mg/L	MW-14S	10/23/2002		0.4200	*	0.0100
TCR	mg/L	MW-14S	12/30/2002		0.0100		0.0100
TCR	mg/L	MW-14S	04/24/2003		0.0200	*	0.0100
TCR	mg/L	MW-14S	07/30/2003		0.1500	*	0.0100
TCR	mg/L	MW-1D	10/22/2002	ND	0.0100		0.0100
TCR	mg/L	MW-1D	04/23/2003	ND	0.0050		0.0100
TCR	mg/L	MW-1D	07/30/2003		0.0200	*	0.0100
TCR	mg/L	MW-4	07/01/1994		41.4000	*	0.0100
TCR	mg/L	MW-4	10/01/1994	ND	52.8000		0.0100
TCR	mg/L	MW-4	01/01/1995		34.3000	*	0.0100
TCR	mg/L	MW-4	04/01/1995		9.1000	*	0.0100
TCR	mg/L	MW-4	01/01/1996		32.4000	*	0.0100
TCR	mg/L	MW-4	04/01/1996		38.0000	*	0.0100
TCR	mg/L	MW-4	07/01/1996		58.9000	*	0.0100
TCR	mg/L	MW-4	10/01/1996		75.7000	*	0.0100
TCR	mg/L	MW-4	01/01/1997		34.5000	*	0.0100
TCR	mg/L	MW-4	04/01/1997		18.8000	*	0.0100
TCR	mg/L	MW-4	07/01/1997		35.2000	*	0.0100
TCR	mg/L	MW-4	10/01/1997		85.3000	*	0.0100
TCR	mg/L	MW-4	01/01/1998		44.0000	*	0.0100
TCR	mg/L	MW-4	04/01/1998		14.1000	*	0.0100
TCR	mg/L	MW-4	07/01/1998		18.9000	*	0.0100
TCR	mg/L	MW-4	10/01/1998		36.2000	*	0.0100
TCR	mg/L	MW-4	01/01/1999		85.2000	*	0.0100
TCR	mg/L	MW-4	04/01/1999		42.8000	*	0.0100
TCR	mg/L	MW-4	07/01/1999		49.7000	*	0.0100
TCR	mg/L	MW-4	10/01/1999		105.0000	*	0.0100
TCR	mg/L	MW-4	01/01/2000		60.0000	*	0.0100
TCR	mg/L	MW-4	04/01/2000		39.3000	*	0.0100
TCR	mg/L	MW-4	10/01/2000		42.1000	*	0.0100
TCR	mg/L	MW-4	04/01/2001		16.8000	*	0.0100
TCR	mg/L	MW-4	07/01/2001		24.5000	*	0.0100
TCR	mg/L	MW-4	10/01/2001		34.3500	*	0.0100
TCR	mg/L	MW-4	01/01/2002		21.6500	*	0.0100
TCR	mg/L	MW-4	04/01/2002		26.8500	*	0.0100

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
TCR	mg/L	MW-4	07/01/2002		31.2500	*	0.0100
TCR	mg/L	MW-4	10/23/2002		29.8000	*	0.0100
TCR	mg/L	MW-4	12/30/2002		9.3000	*	0.0100
TCR	mg/L	MW-4	04/25/2003		10.6667	*	0.0100
TCR	mg/L	MW-4	07/30/2003		715.6667	*	0.0100
TCR	mg/L	MW-9	07/01/1994	ND	0.0100		0.0100
TCR	mg/L	MW-9	10/01/1994	ND	0.0100		0.0100
TCR	mg/L	MW-9	01/01/1995	ND	0.0100		0.0100
TCR	mg/L	MW-9	04/01/1995	ND	0.0100		0.0100
TCR	mg/L	MW-9	01/01/1996	ND	0.0100		0.0100
TCR	mg/L	MW-9	04/01/1996	ND	0.0100		0.0100
TCR	mg/L	MW-9	07/01/1996	ND	0.0100		0.0100
TCR	mg/L	MW-9	10/01/1996	ND	0.0100		0.0100
TCR	mg/L	MW-9	01/01/1997	ND	0.0100		0.0100
TCR	mg/L	MW-9	04/01/1997	ND	0.0100		0.0100
TCR	mg/L	MW-9	07/01/1997	ND	0.0100		0.0100
TCR	mg/L	MW-9	10/01/1997		0.0400	*	0.0100
TCR	mg/L	MW-9	01/01/1998	ND	0.0100		0.0100
TCR	mg/L	MW-9	04/01/1998	ND	0.0100		0.0100
TCR	mg/L	MW-9	07/01/1998	ND	0.0100		0.0100
TCR	mg/L	MW-9	10/01/1998		1.3000	*	0.0100
TCR	mg/L	MW-9	01/01/1999	ND	0.0100		0.0100
TCR	mg/L	MW-9	04/01/1999		0.6400	*	0.0100
TCR	mg/L	MW-9	07/01/1999		0.6400	*	0.0100
TCR	mg/L	MW-9	10/01/1999		4.2000	*	0.0100
TCR	mg/L	MW-9	01/01/2000		13.9000	*	0.0100
TCR	mg/L	MW-9	04/01/2000	ND	0.0100		0.0100
TCR	mg/L	MW-9	10/01/2000		0.0100		0.0100
TCR	mg/L	MW-9	04/01/2001		0.0100		0.0100
TCR	mg/L	MW-9	07/01/2001		0.0800	*	0.0100
TCR	mg/L	MW-9	10/01/2001		1.3500	*	0.0100
TCR	mg/L	MW-9	01/01/2002		0.1550	*	0.0100
TCR	mg/L	MW-9	04/01/2002		0.1550	*	0.0100
TCR	mg/L	MW-9	07/01/2002		9.2000	*	0.0100
TCR	mg/L	MW-9	10/24/2002		4.6500	*	0.0100
TCR	mg/L	MW-9	01/09/2003		9.6500	*	0.0100
TCR	mg/L	MW-9	04/25/2003		120.1833	*	0.0100
TCR	mg/L	MW-9	07/31/2003		1.4667	*	0.0100
TX	ug/l	MW-11	07/01/1994		1.6000		5.8000
TX	ug/l	MW-11	10/01/1994	ND	1.0000		5.8000
TX	ug/l	MW-11	01/01/1995		1100.0000	*	5.8000
TX	ug/l	MW-11	04/01/1995		1000.0000	*	5.8000
TX	ug/l	MW-11	01/01/1996		1000.0000	*	5.8000
TX	ug/l	MW-11	04/01/1996		1400.0000	*	5.8000
TX	ug/l	MW-11	07/01/1996		290.0000	*	5.8000
TX	ug/l	MW-11	10/01/1996		8.0000	*	5.8000
TX	ug/l	MW-11	01/01/1997		88.0000	*	5.8000
TX	ug/l	MW-11	04/01/1997		8.2000	*	5.8000
TX	ug/l	MW-11	07/01/1997	ND	5.0000		5.8000
TX	ug/l	MW-11	10/01/1997	ND	5.0000		5.8000
TX	ug/l	MW-11	01/01/1998		2200.0000	*	5.8000
TX	ug/l	MW-11	04/01/1998		210.0000	*	5.8000

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Table 6

Historical Onsite/Downgradient Data for Constituent-Location Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Location	Date		Result		Pred. Limit
TX	ug/l	MW-11	07/01/1998		4.8000		5.8000
TX	ug/l	MW-11	10/01/1998	ND	10.0000		5.8000
TX	ug/l	MW-11	01/01/1999		970.0000	*	5.8000
TX	ug/l	MW-11	04/01/1999		1270.0000	*	5.8000
TX	ug/l	MW-11	07/01/1999	ND	10.0000		5.8000
TX	ug/l	MW-11	10/01/1999		52.0000	*	5.8000
TX	ug/l	MW-11	01/01/2000	ND	12.0000		5.8000
TX	ug/l	MW-11	04/01/2000		17.0000	*	5.8000
TX	ug/l	MW-11	10/01/2000	ND	50.0000		5.8000
TX	ug/l	MW-11	04/01/2001	ND	25.0000		5.8000
TX	ug/l	MW-11	07/01/2001	ND	5.0000		5.8000
TX	ug/l	MW-11	10/01/2001		97.0000	*	5.8000
TX	ug/l	MW-11	01/01/2002		410.0000	*	5.8000
TX	ug/l	MW-11	04/01/2002	ND	25.0000		5.8000
TX	ug/l	MW-11	07/01/2002	ND	100.0000		5.8000
TX	ug/l	MW-11	10/24/2002	ND	20.0000		5.8000
TX	ug/l	MW-11	12/30/2002	ND	40.0000		5.8000
TX	ug/l	MW-11	04/25/2003	ND	10.0000		5.8000
TX	ug/l	MW-11	07/31/2003		94.0000	*	5.8000

* - Significantly increased over background.
ND = Not Detected, result = detection limit.

Appendix F-2
Prediction Limit Calculation Sheets

CDM

Worksheet 1 - Comparison to Background
BEN (ug/l)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **0.5**	Compute nonparametric prediction limit as median reporting limit in background.
2	K = **14**	Number of comparisons.
3	N = **33**	Number of background measurements.
4	No resampling.	
5	Confidence = **0.658**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Comparison to Background
CD (mg/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **0.01**	Compute nonparametric prediction limit as largest background measurement.
2	K = **14**	Number of comparisons.
3	N = **33**	Number of background measurements.
4	No resampling.	
5	Confidence = **0.658**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Comparison to Background
CU (mg/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **0.05**	Compute nonparametric prediction limit as largest background measurement.
2	K = **14**	Number of comparisons.
3	N = **33**	Number of background measurements.
4	No resampling.	
5	Confidence = **0.658**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Comparison to Background
EBN (ug/l)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **3.4**	Compute nonparametric prediction limit as largest background measurement.
2	K = **14**	Number of comparisons.
3	N = **33**	Number of background measurements.
4	No resampling.	
5	Confidence = **0.658**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Comparison to Background
HCR (mg/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **0.02**	Compute nonparametric prediction limit as largest background measurement.
2	K = **14**	Number of comparisons.
3	N = **33**	Number of background measurements.
4	No resampling.	
5	Confidence = **0.658**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Comparison to Background

TCE (ug/l)

Normal Prediction Limit

Step	Equation	Description
1	$\bar{X}$ = **sum[X] / N** = **322.4 / 33** = **9.77**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]^2/N**) / (**N**-1))$^{1/2}$ = ((**3593.22 - 103941.76/33**) / (**33-1**))$^{1/2}$ = **3.723**	Compute background sd.
3	alpha = (1-**conf**)/**K** = (1-.95)/**126** = **3.968 x 10^{-4}**	Adjusted per comparison false positive rate. Pass initial (no resampling).
4	PL = $\bar{X}$ + **tS**(1+1/**N**)$^{1/2}$ = **9.77** + (**3.704*****3.723**)(1+1/**33**)$^{1/2}$ = **23.766**	One-sided normal prediction limit (t is Student's t on N-1 degrees of freedom and 1-alpha confidence level).

Worksheet 1 - Comparison to Background

TCR (mg/L)

Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **0.01**	Compute nonparametric prediction limit as largest background measurement.
2	K = **14**	Number of comparisons.
3	N = **32**	Number of background measurements.
4	No resampling.	
5	Confidence = **0.65**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Comparison to Background

TOL (ug/l)

Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **1.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	K = **14**	Number of comparisons.
3	N = **32**	Number of background measurements.
4	No resampling.	
5	Confidence = **0.65**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Comparison to Background

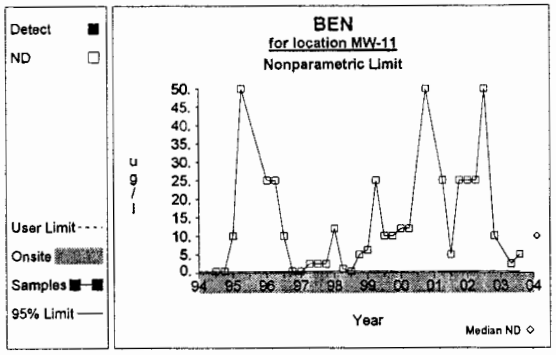
TX (ug/l)

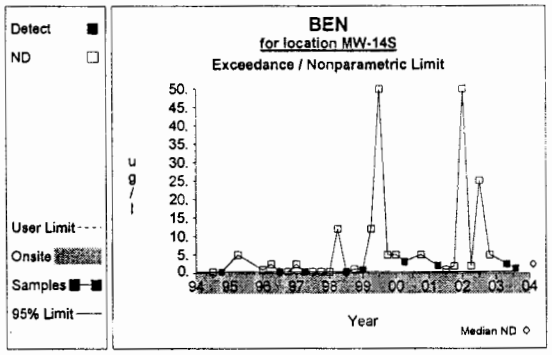
Nonparametric Prediction Limit

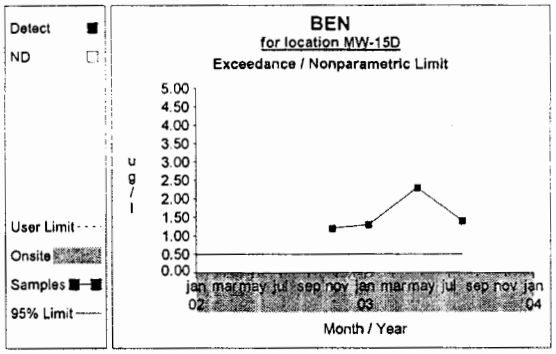
Step	Equation	Description
1	PL = max(X) = **5.8**	Compute nonparametric prediction limit as largest background measurement.
2	K = **14**	Number of comparisons.
3	N = **33**	Number of background measurements.
4	No resampling.	
5	Confidence = **0.658**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

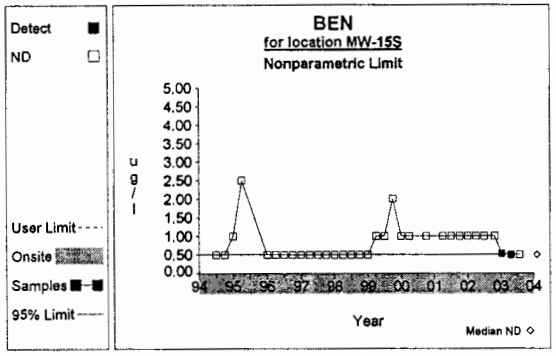
Appendix F-3
Control Charts

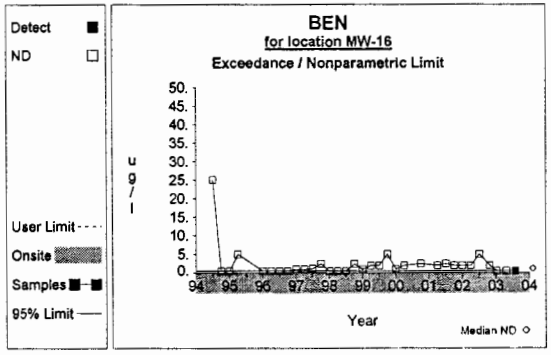
Comparison to Background

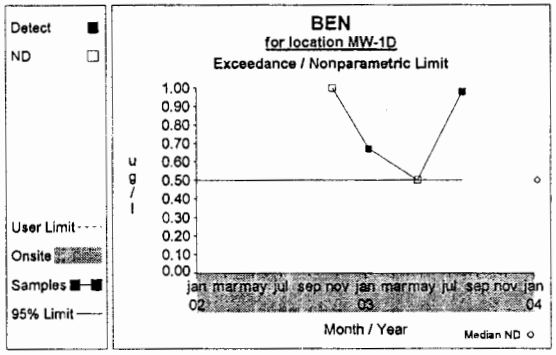


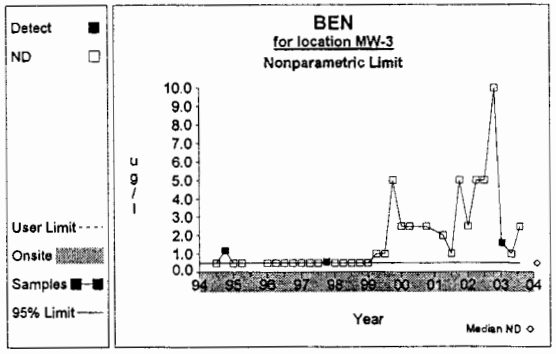


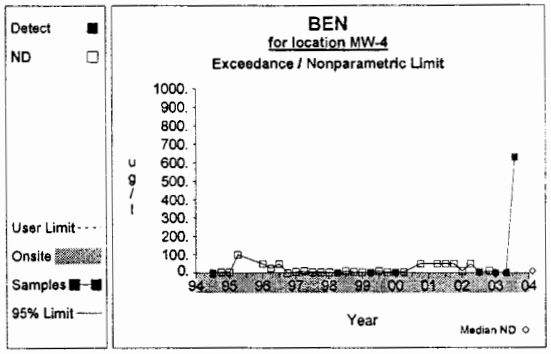


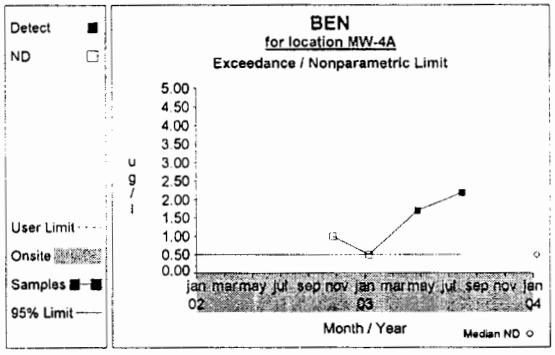




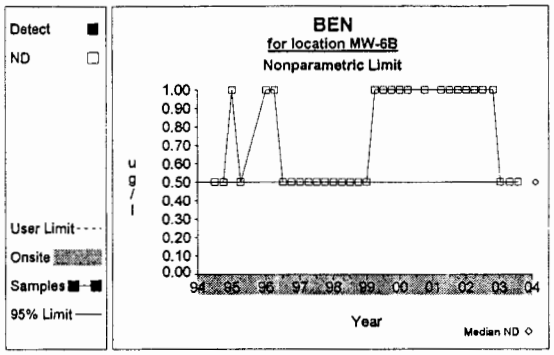


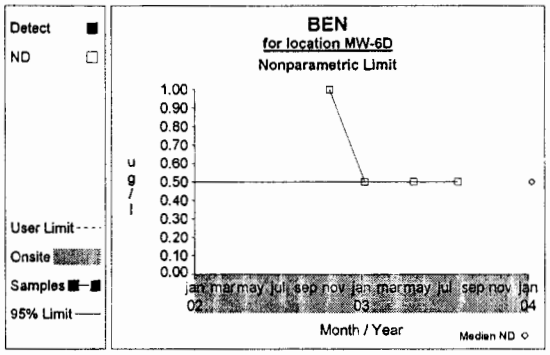


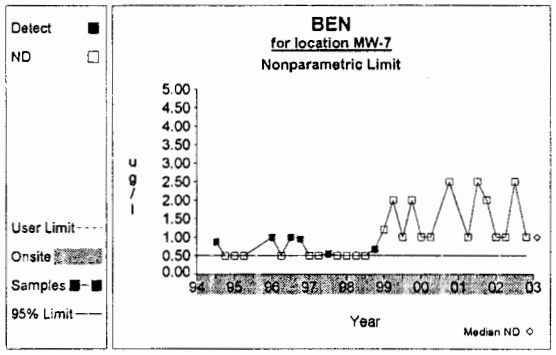


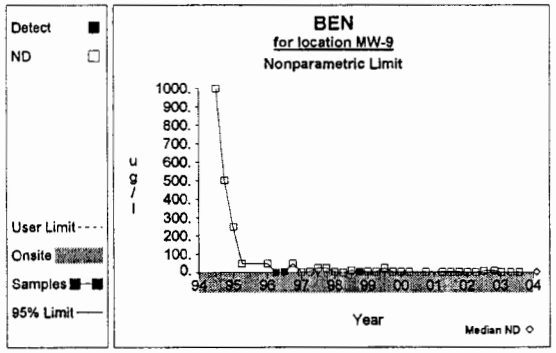


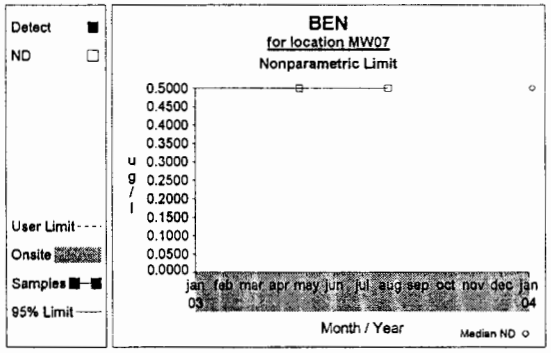
Comparison to Background

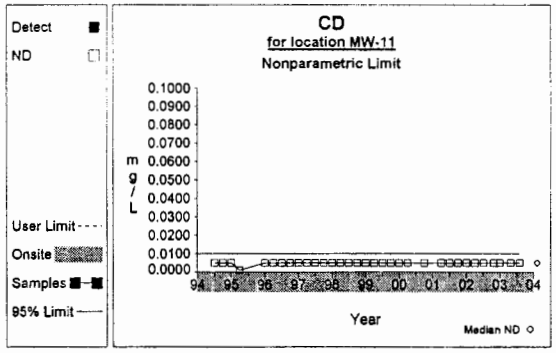


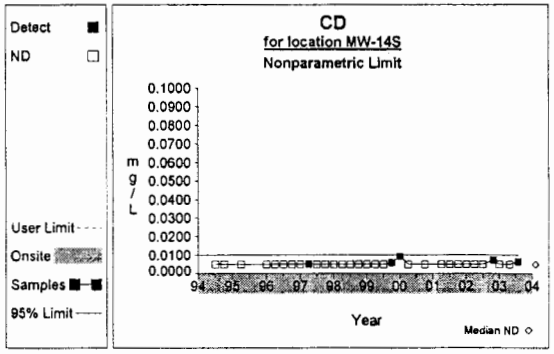


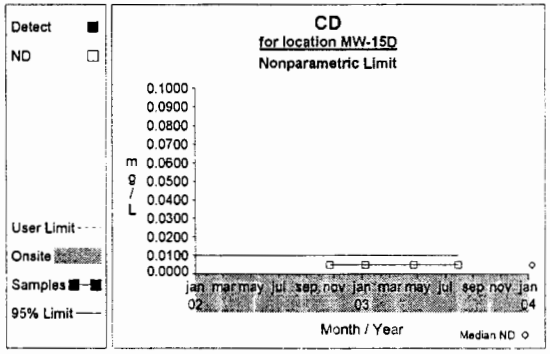


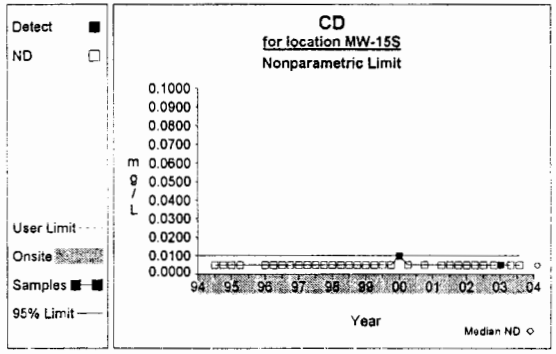




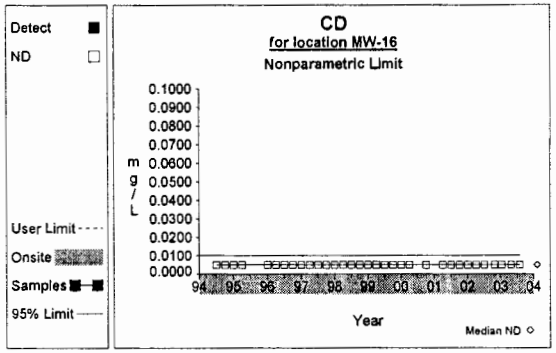


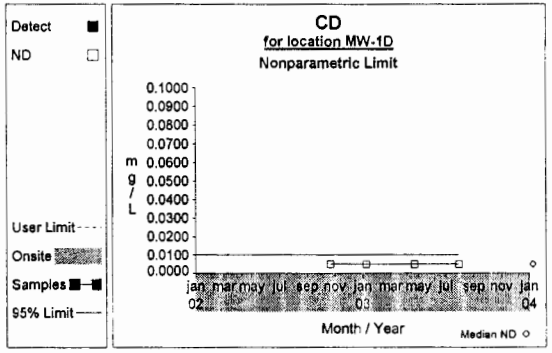


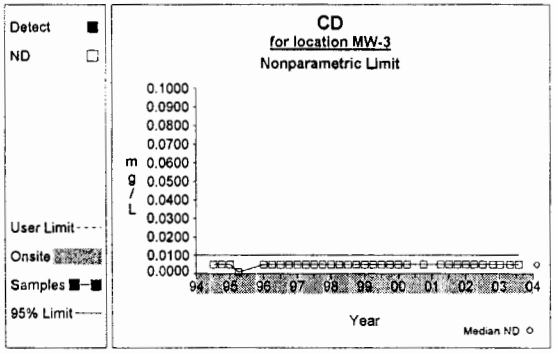


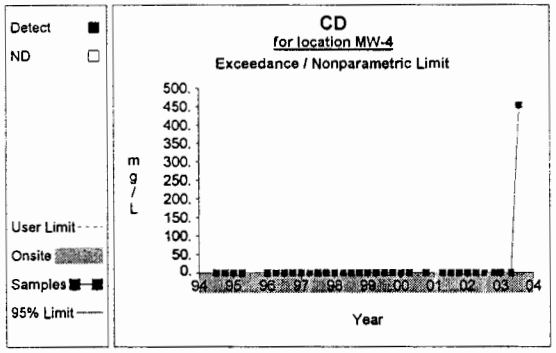


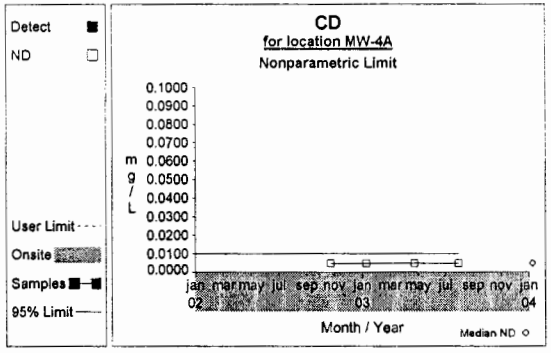
Comparison to Background

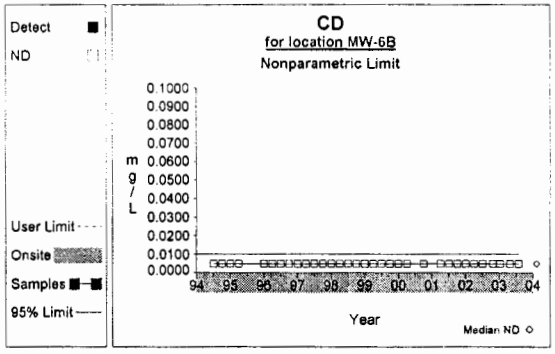


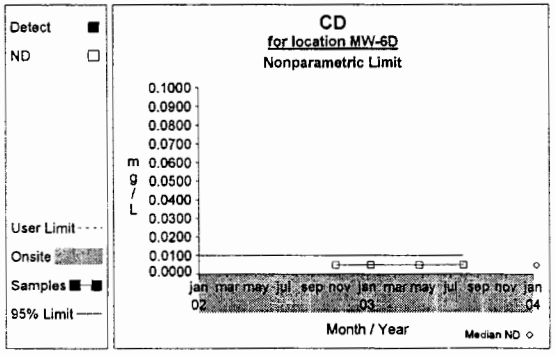


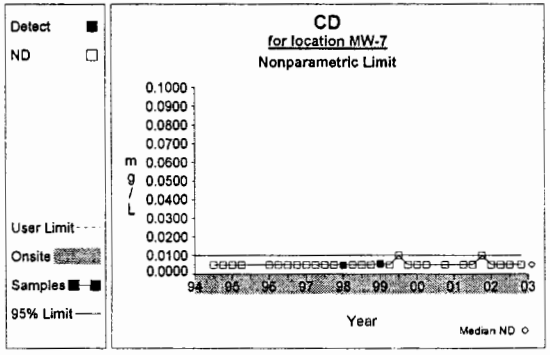


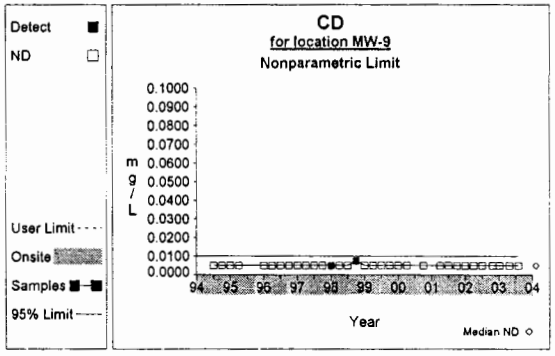




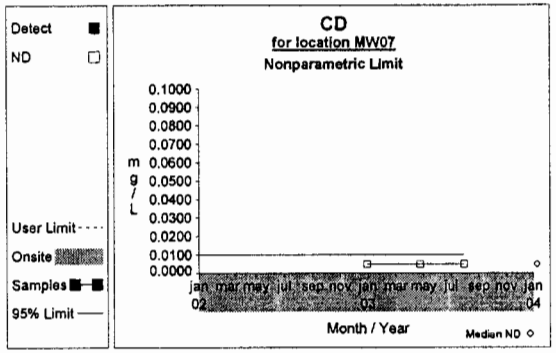


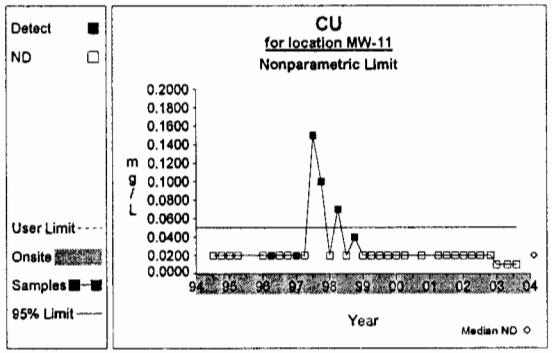


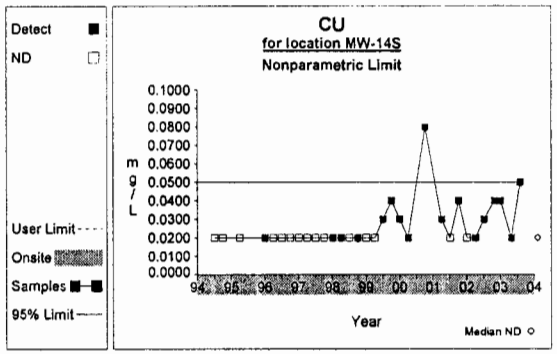


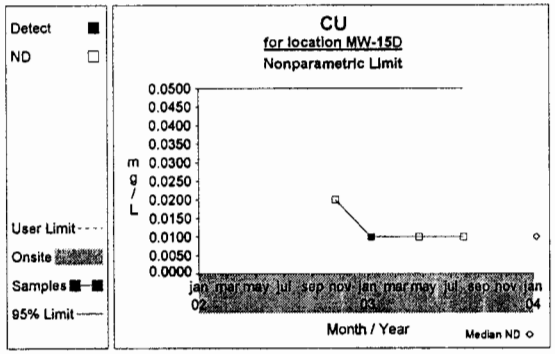


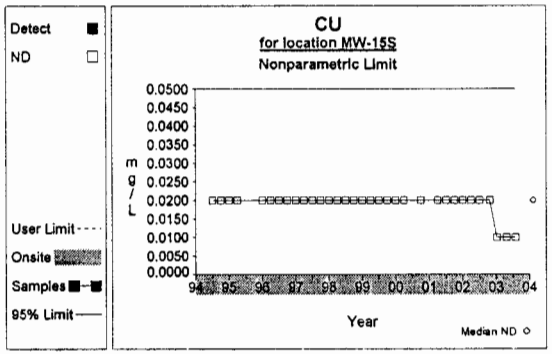
Comparison to Background

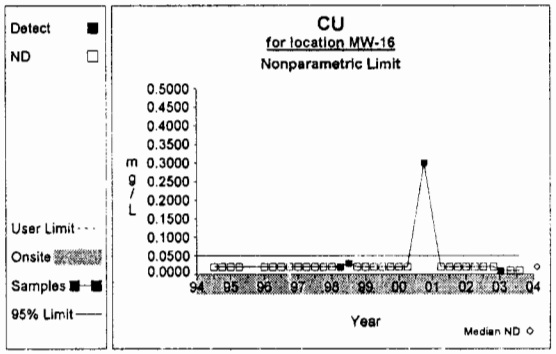


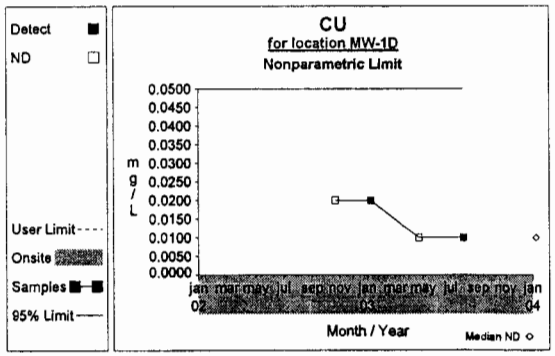


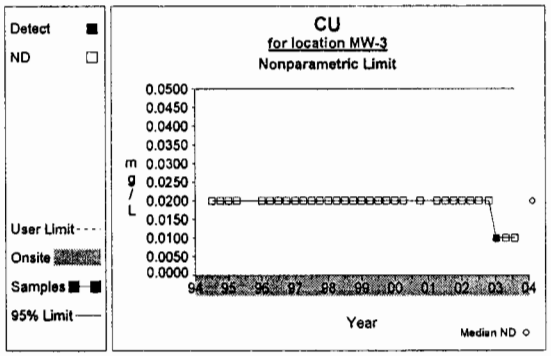


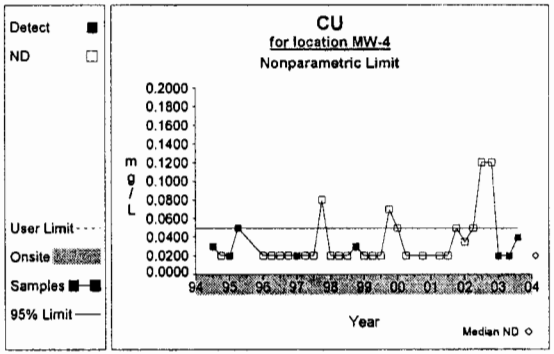












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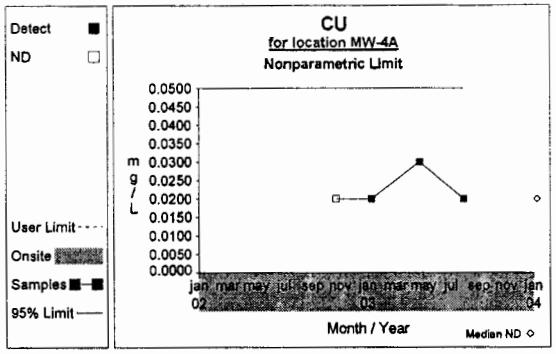

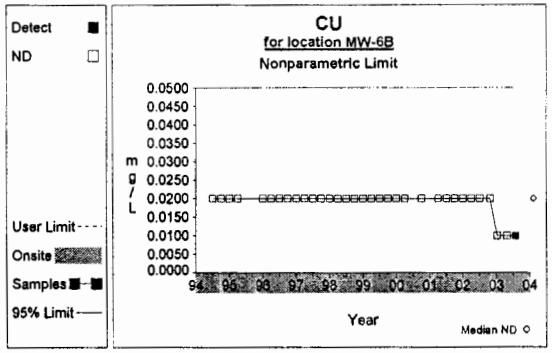

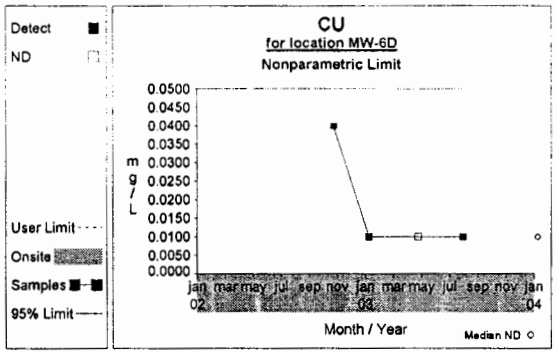

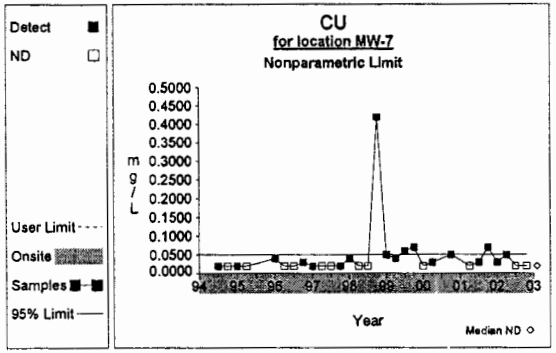

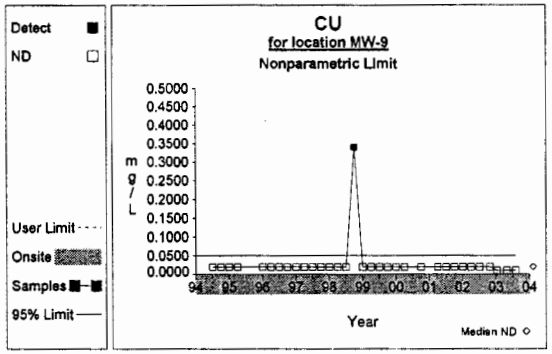

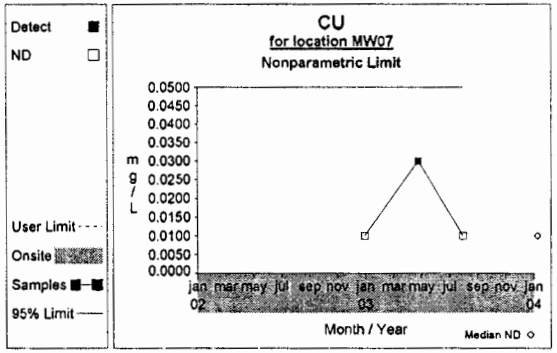

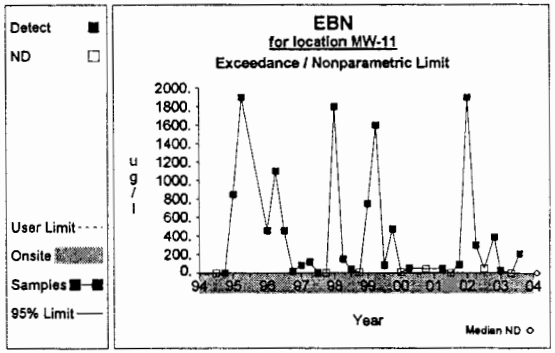

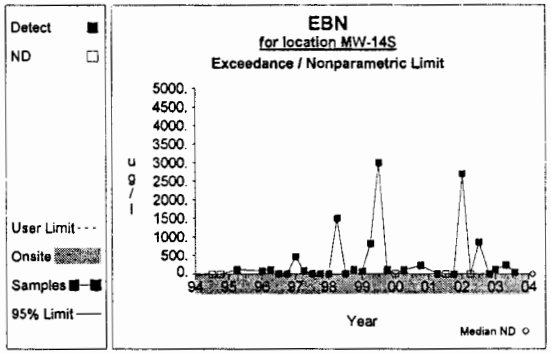

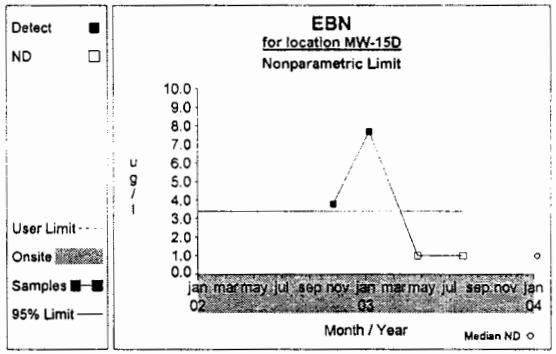

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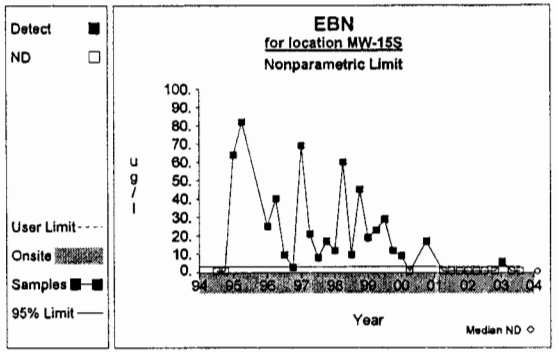

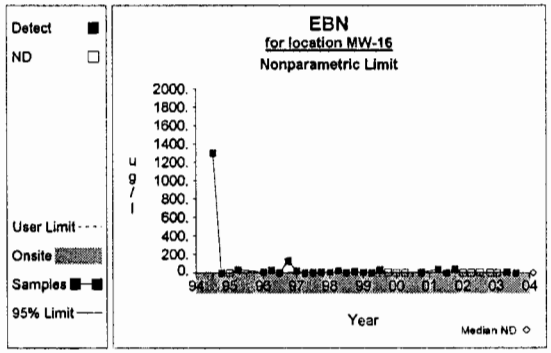

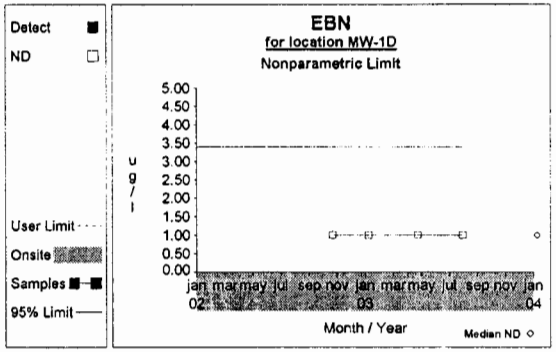

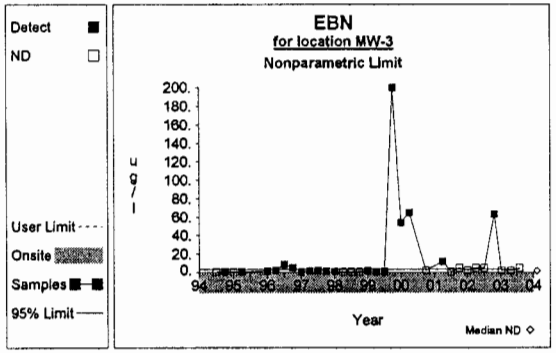

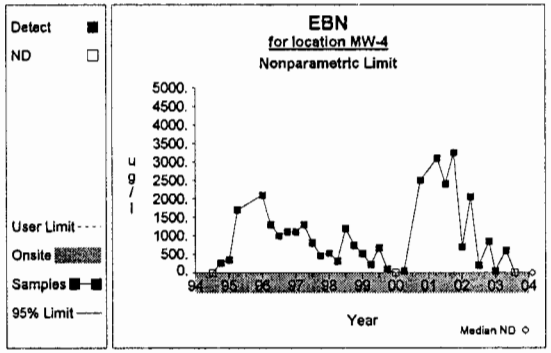

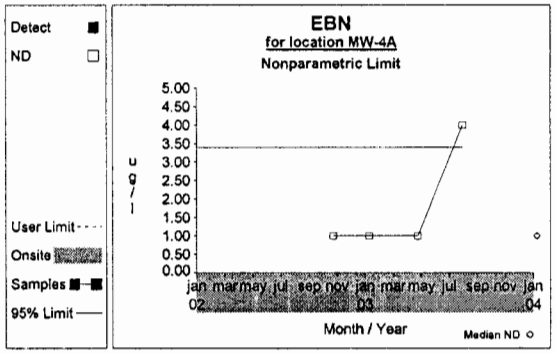

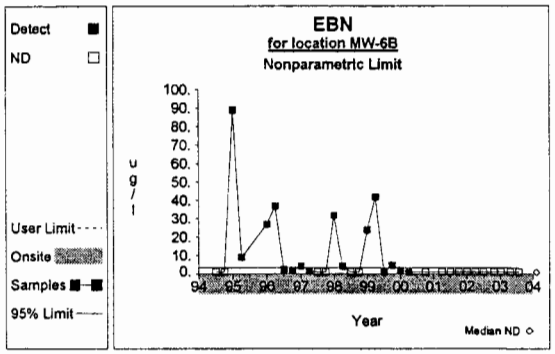

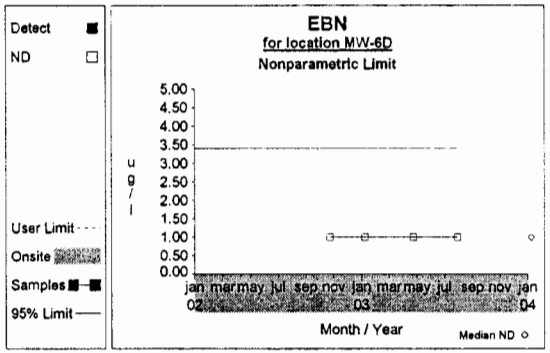

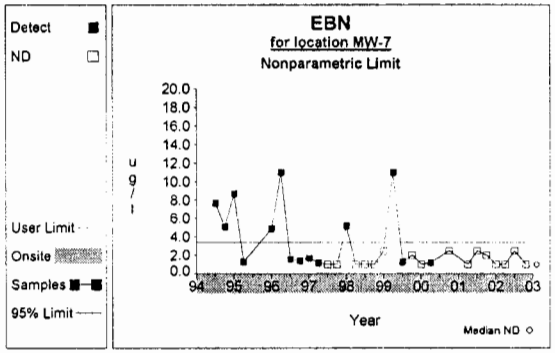

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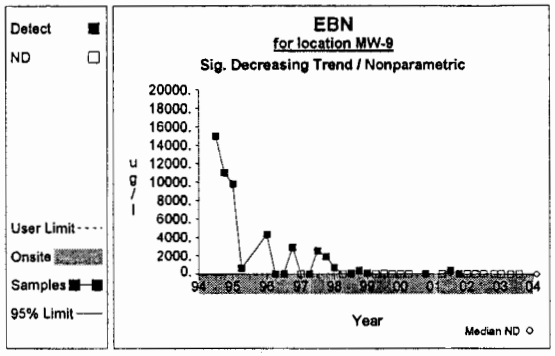

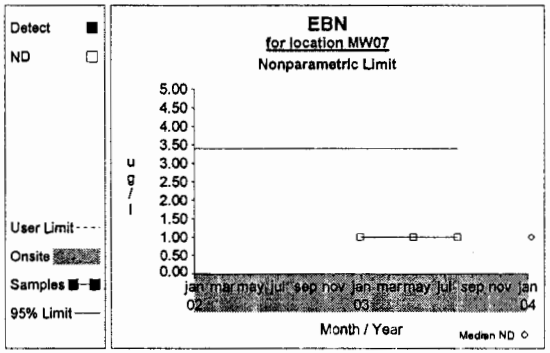

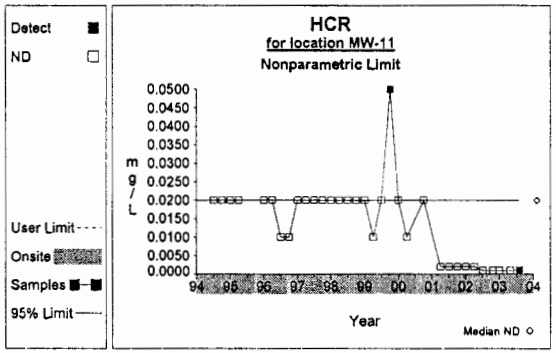

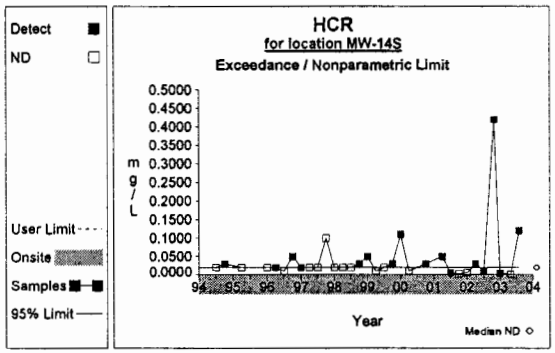

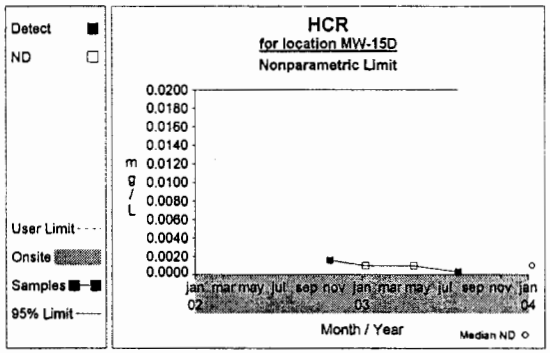

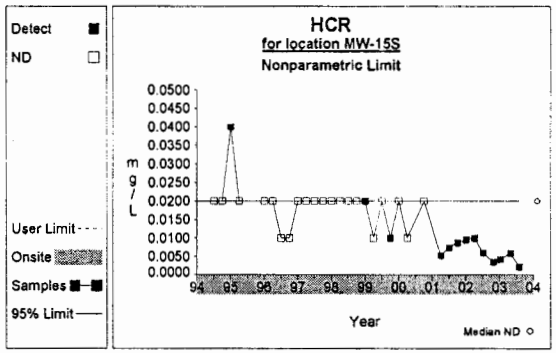

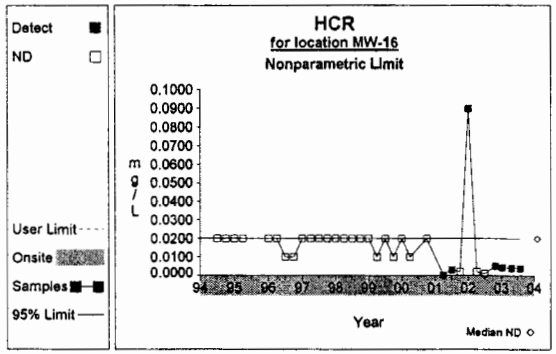

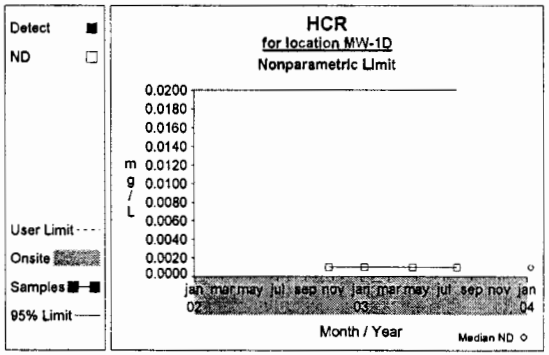

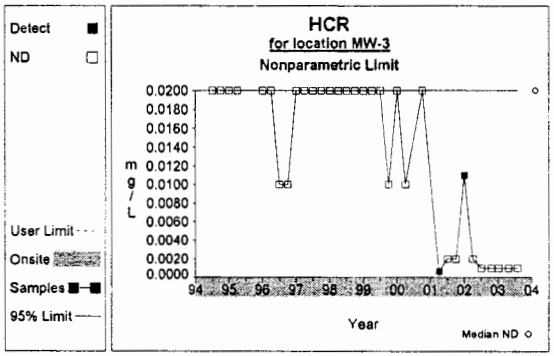

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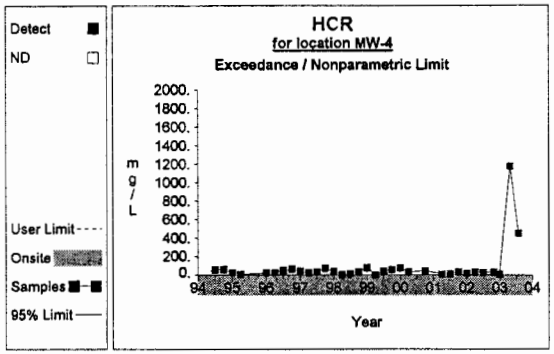

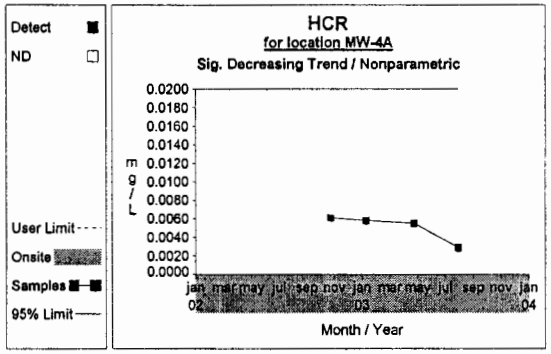

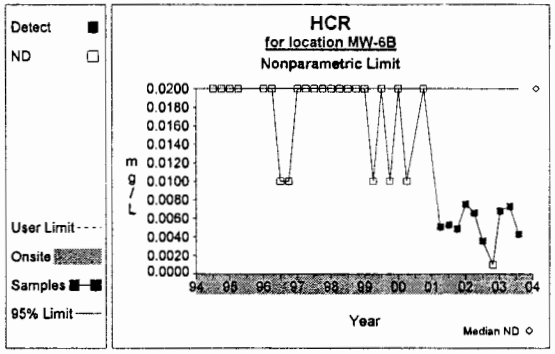

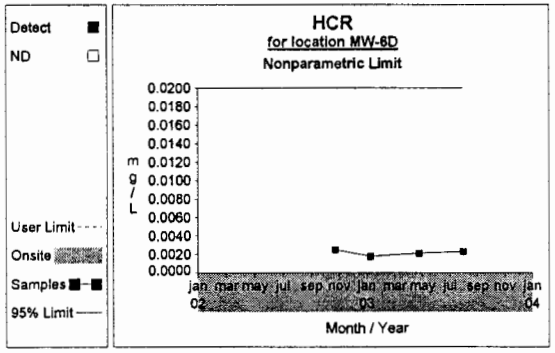

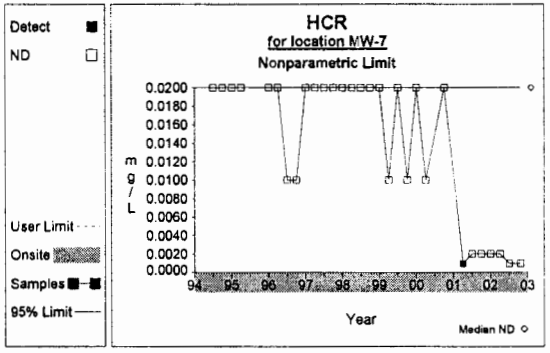

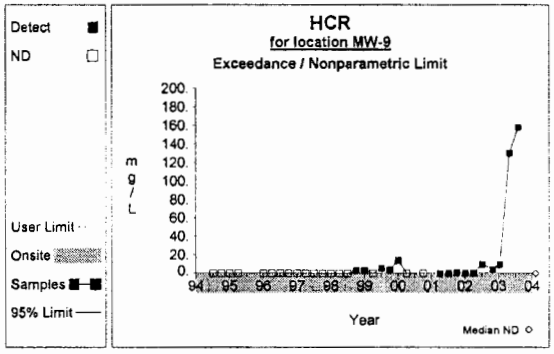

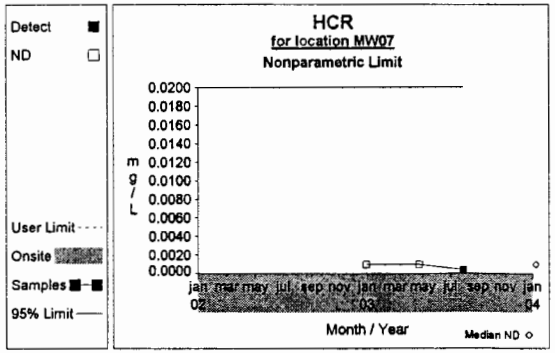

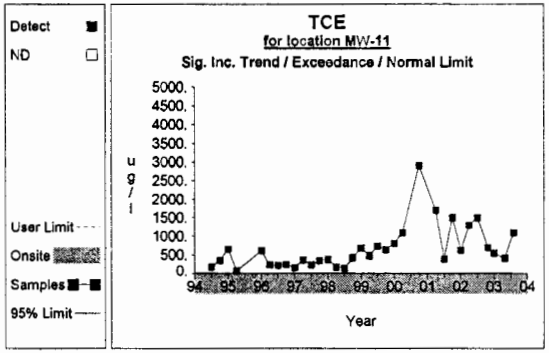

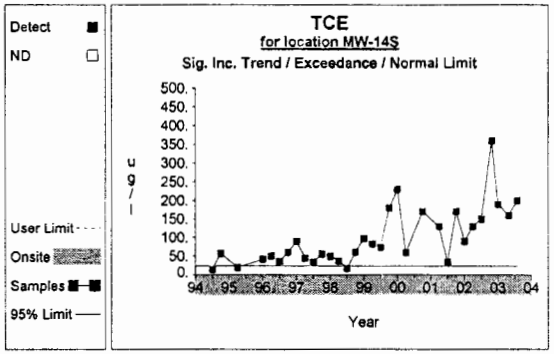

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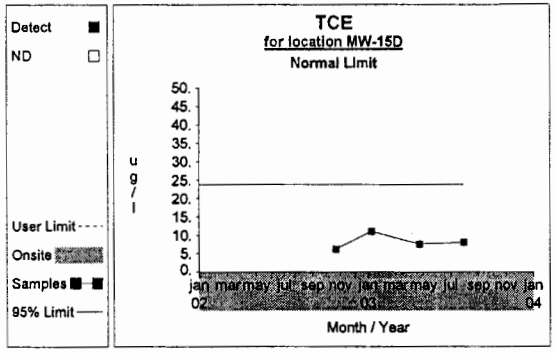

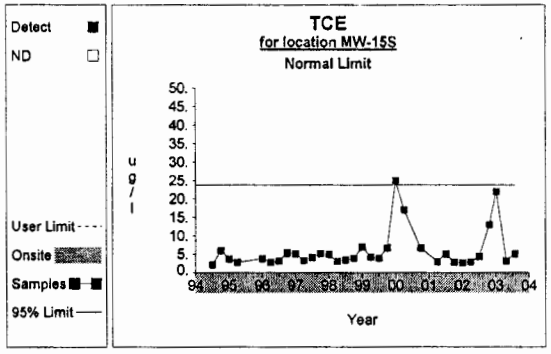

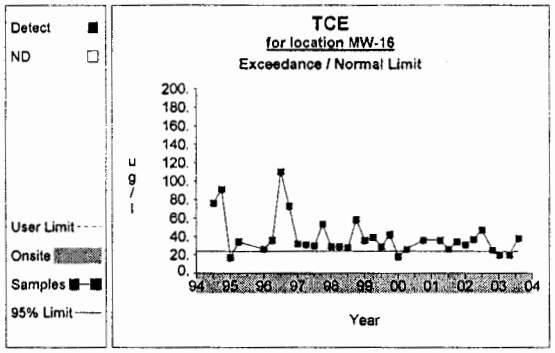

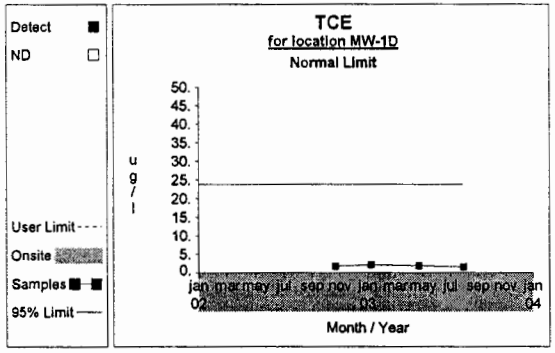

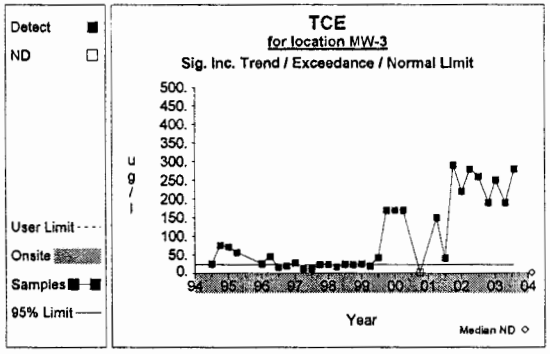

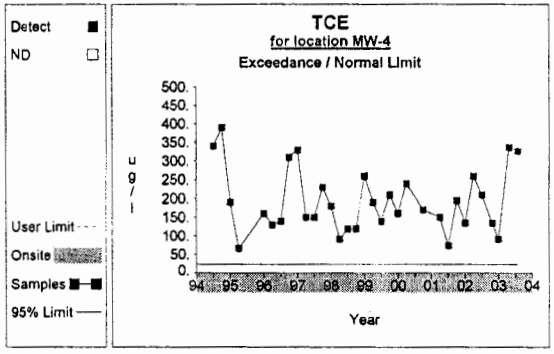

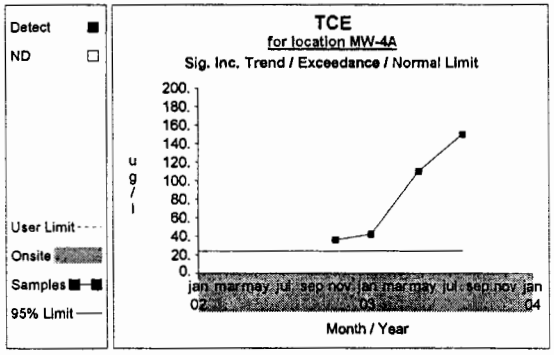

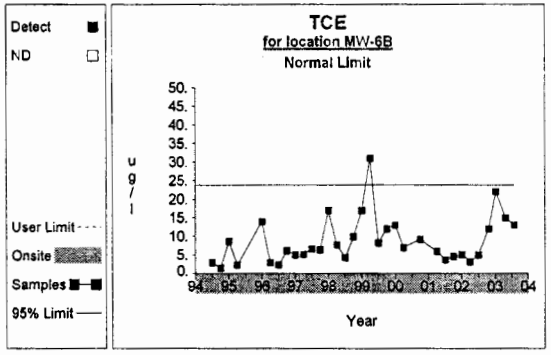

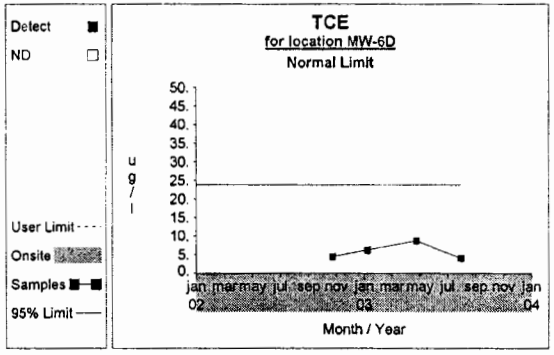

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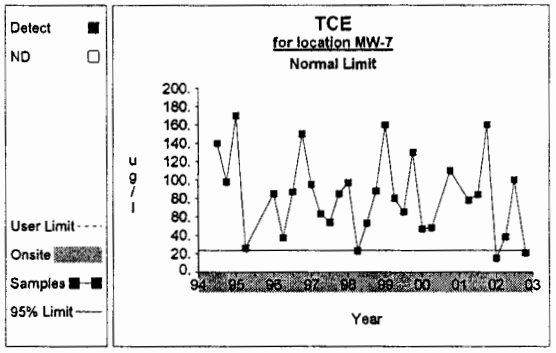

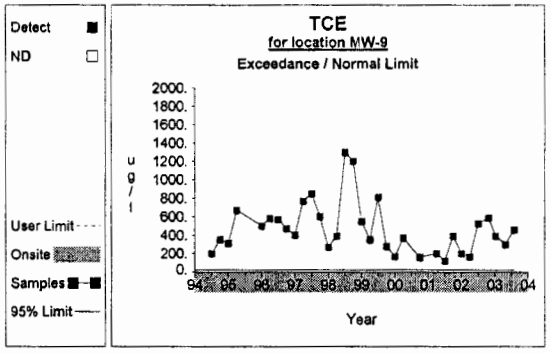

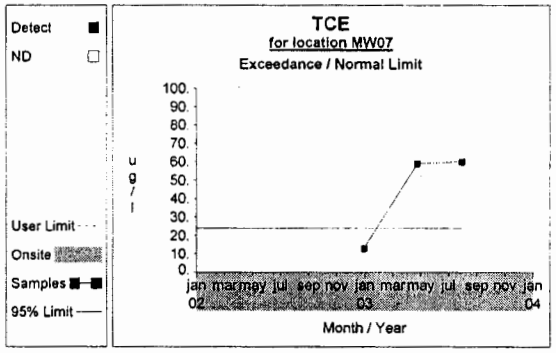

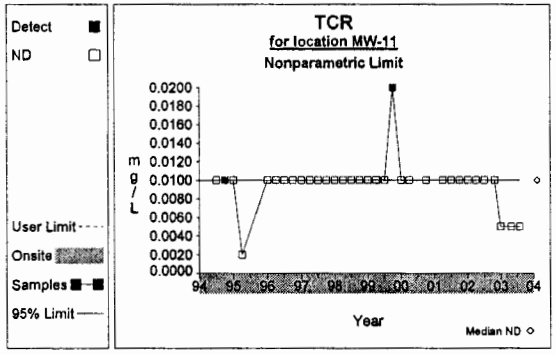

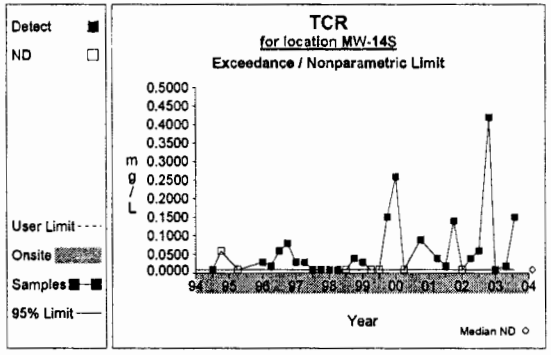

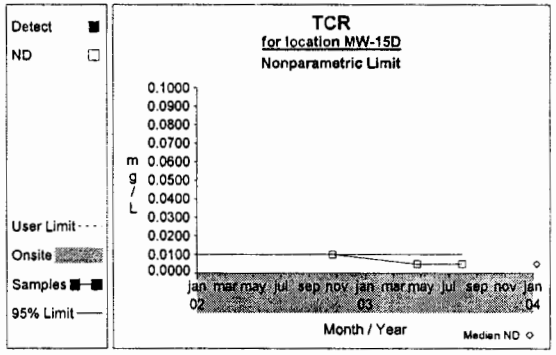

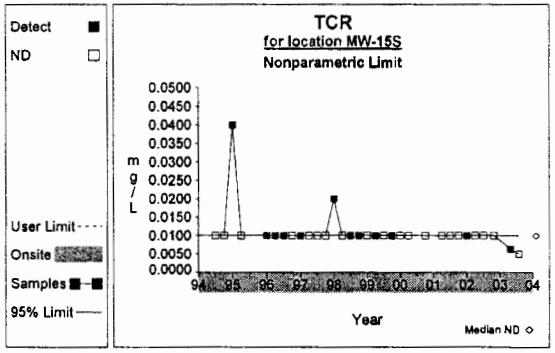

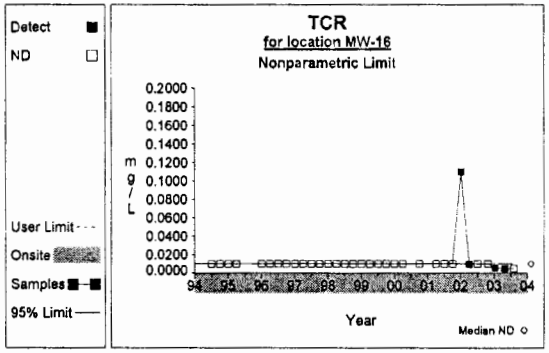

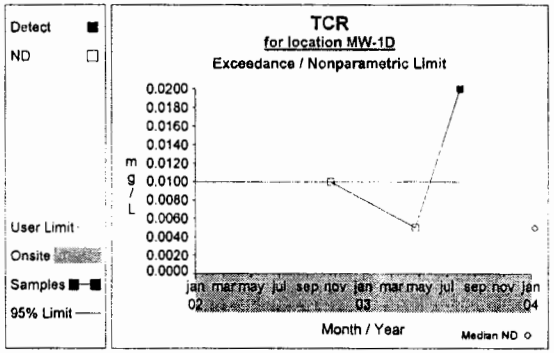

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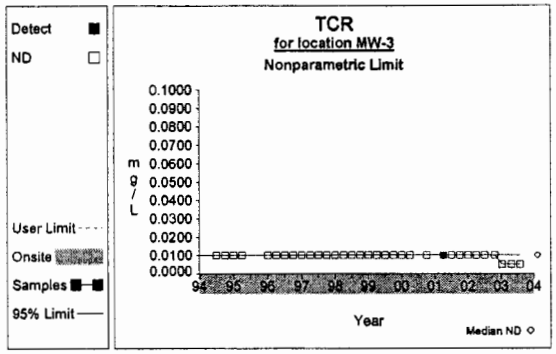

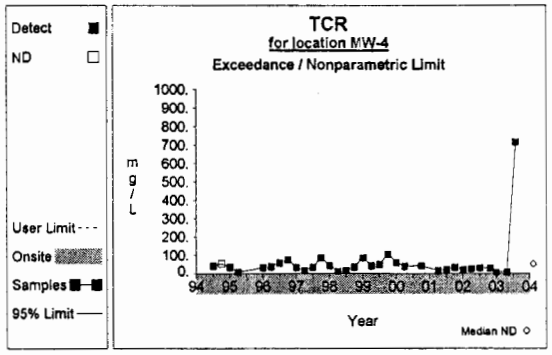

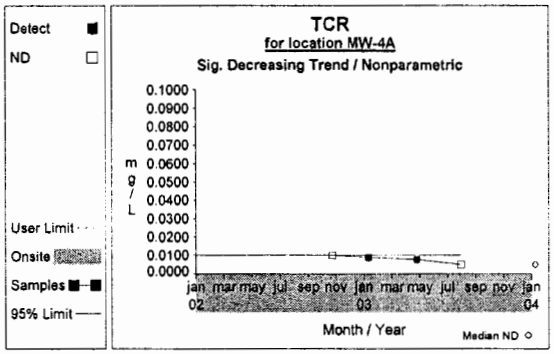

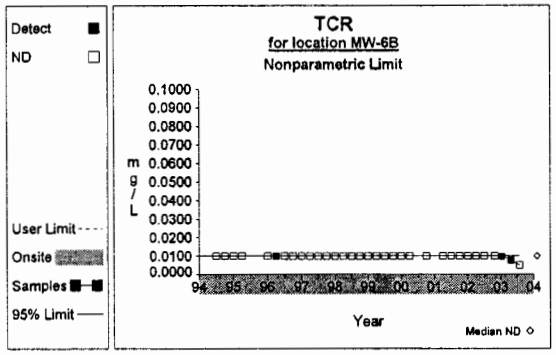

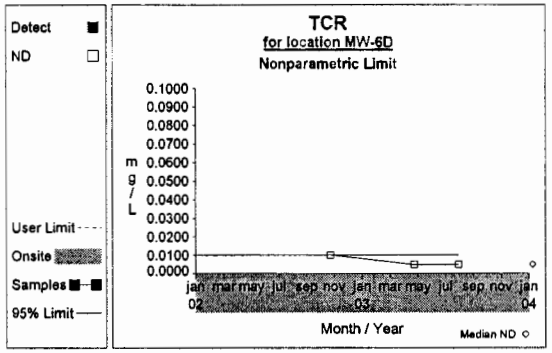

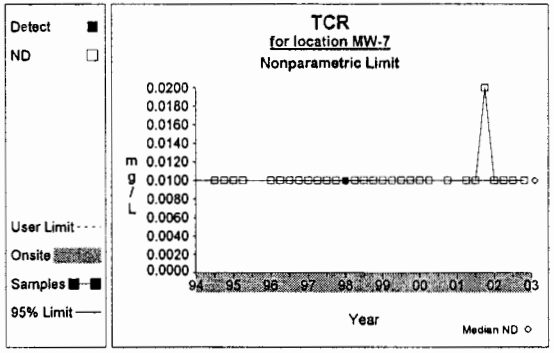

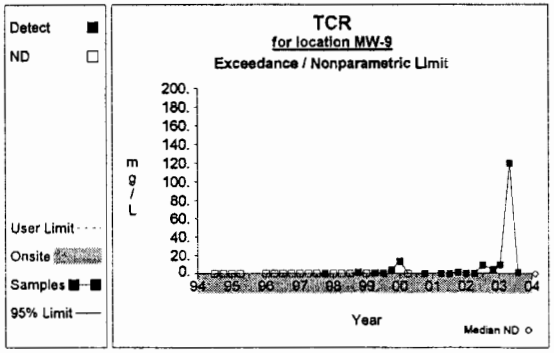

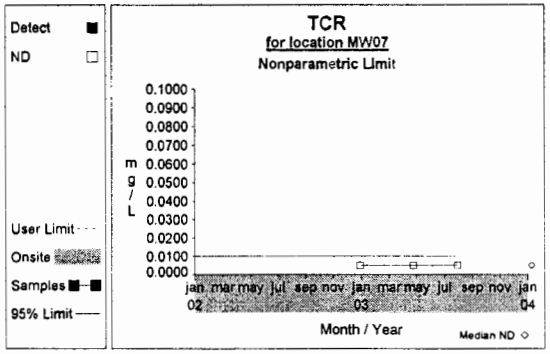

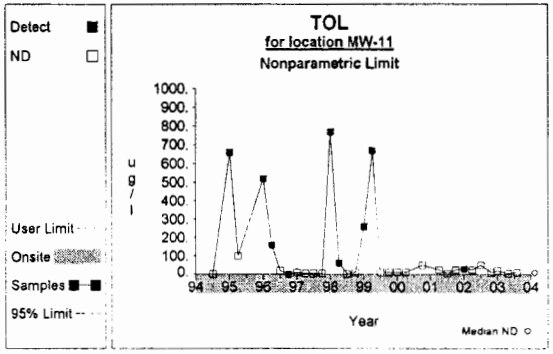

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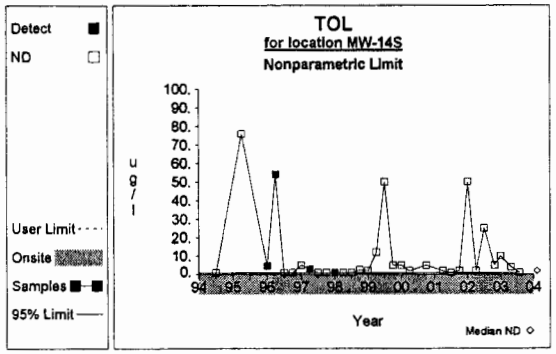

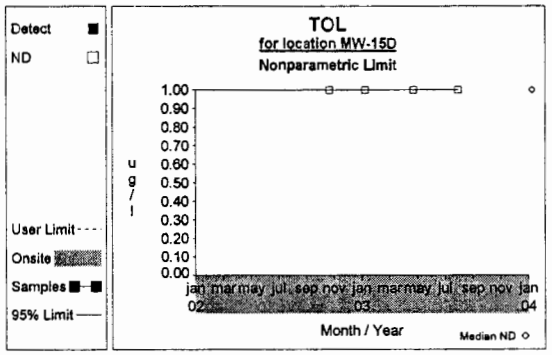

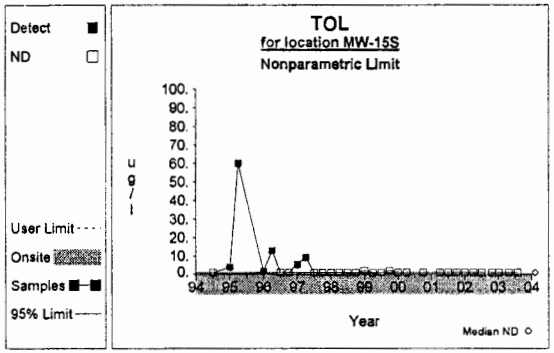

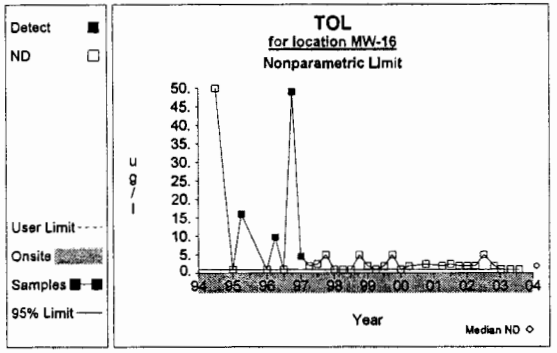

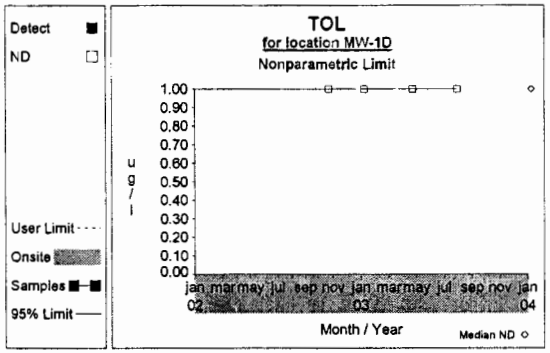

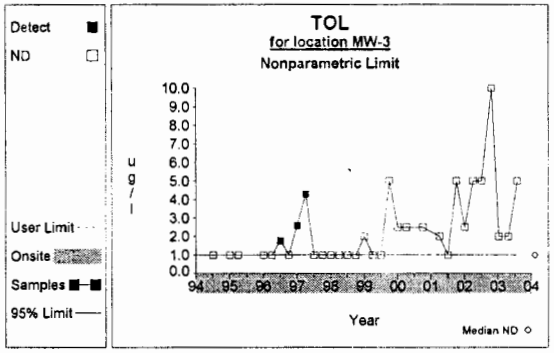

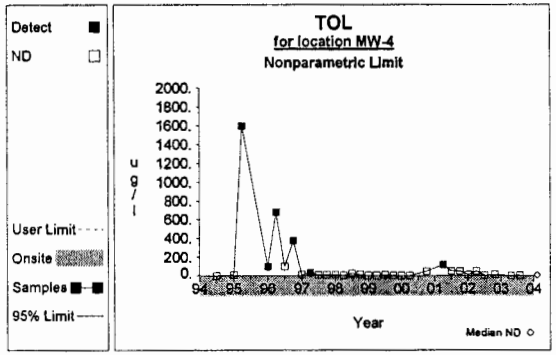

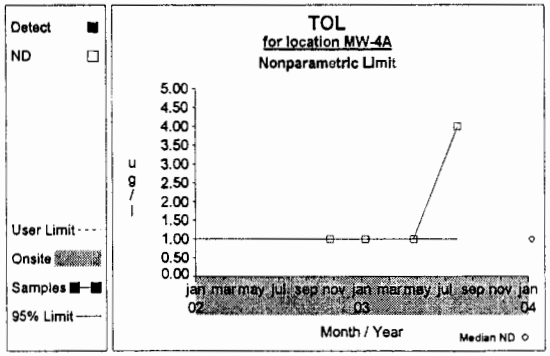

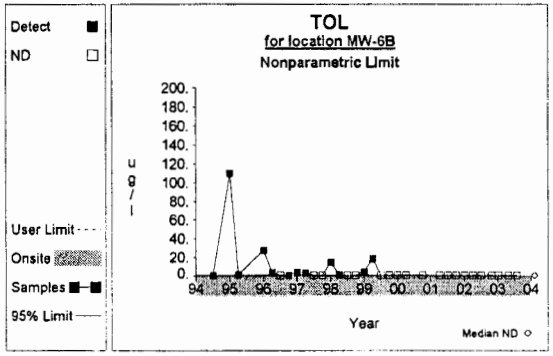

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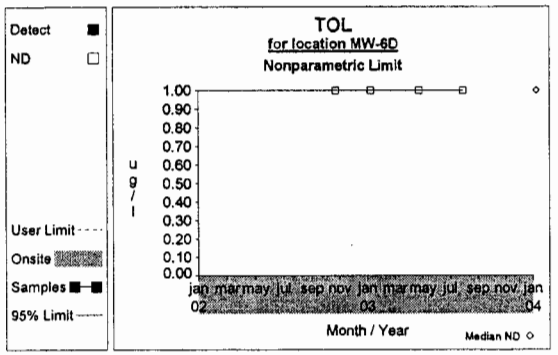

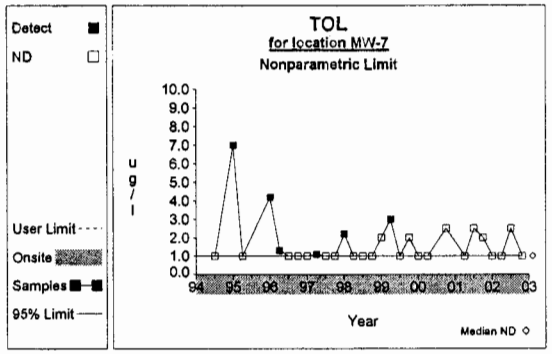

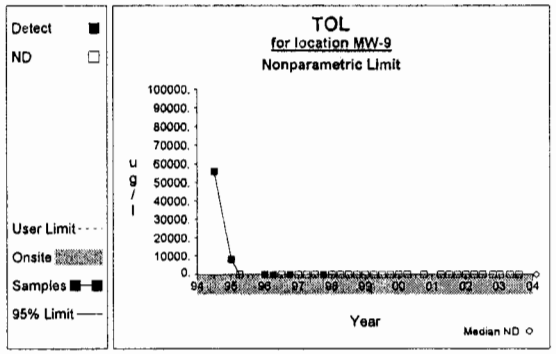

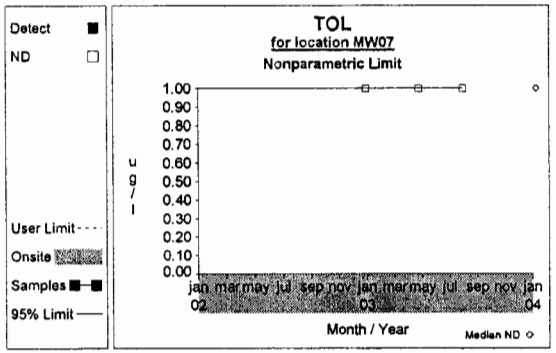

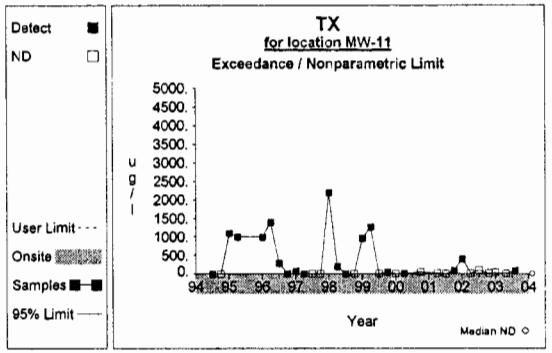

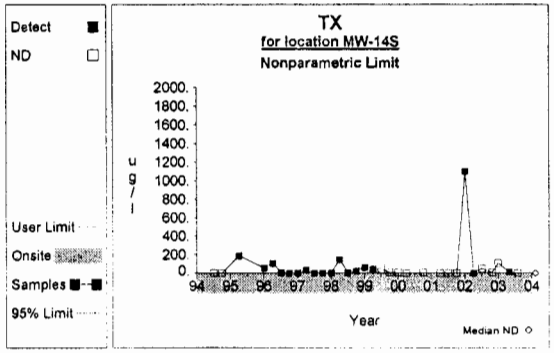

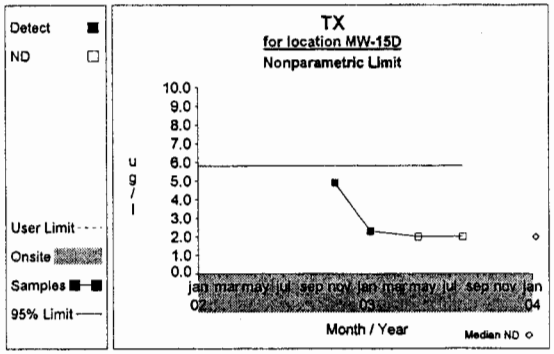

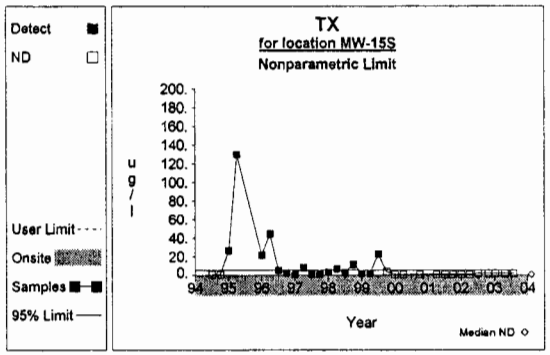

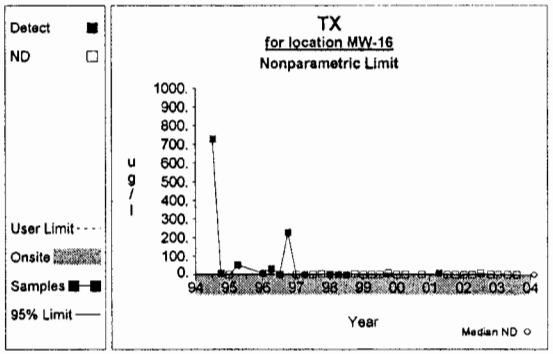
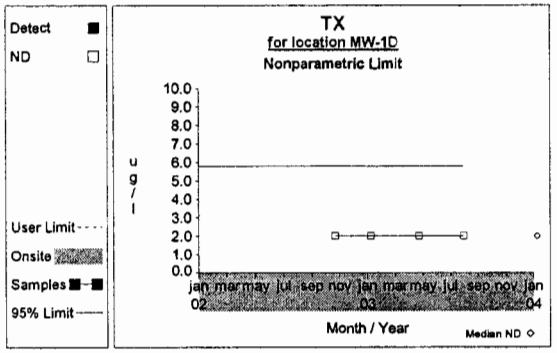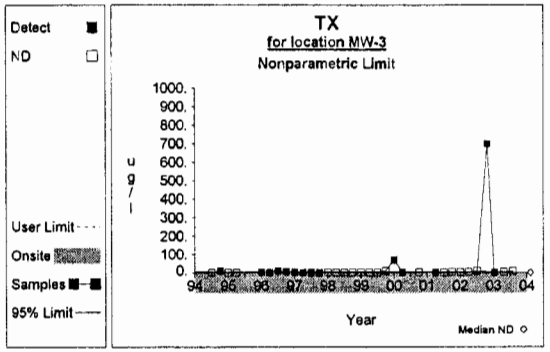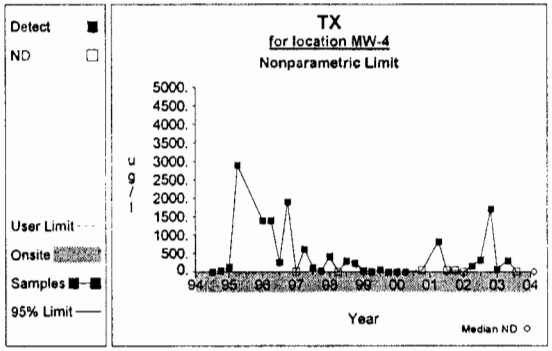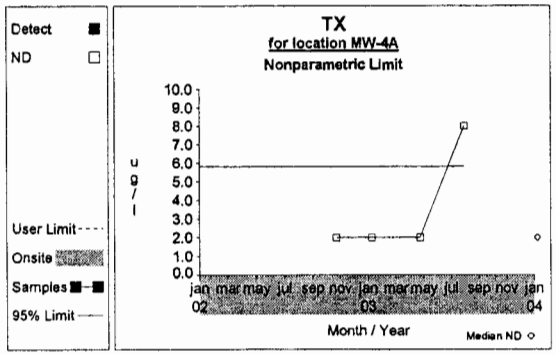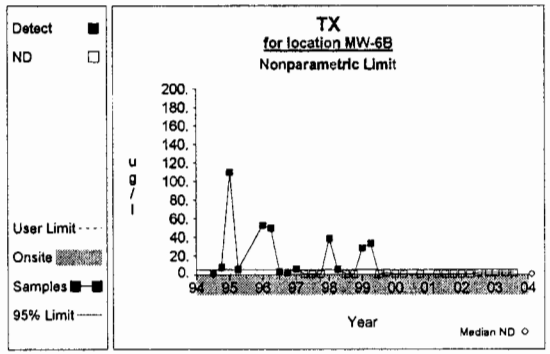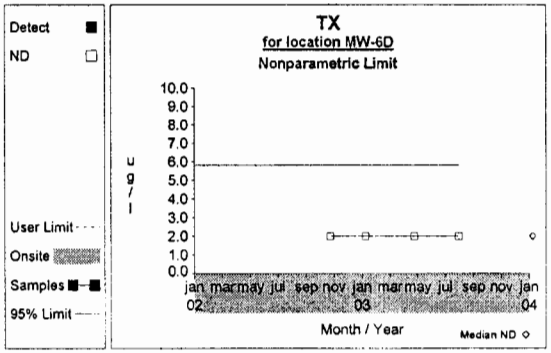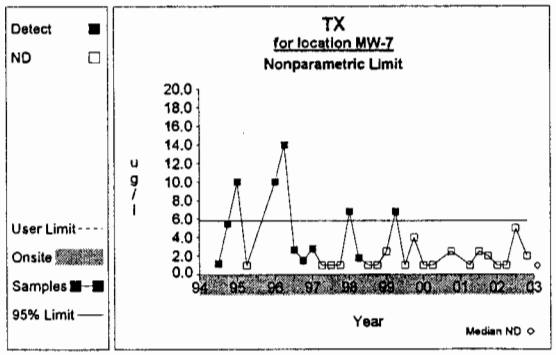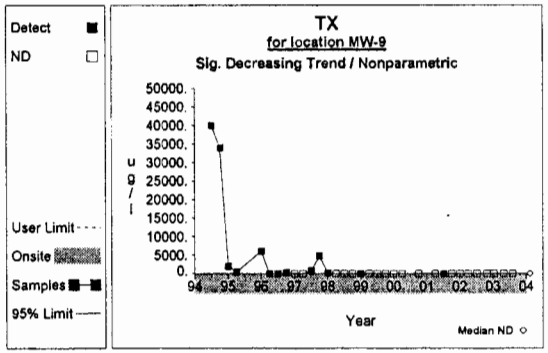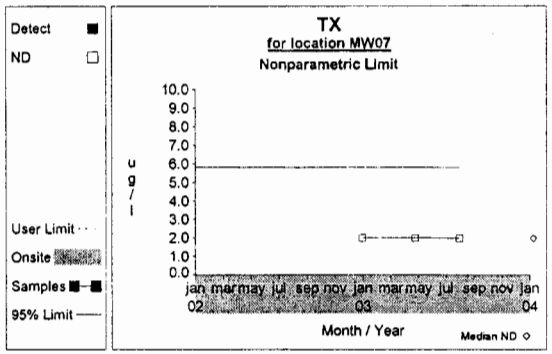
Comparison to Background