URS

COMPLIANCE MONITORING REPORT

(August 2002)

NON-TIME CRITICAL REMOVAL ACTION (NTCRA) GROUNDWATER TREATMENT SYSTEM

LIBERTY INDUSTRIAL FINISHING SITE

FARMINGDALE, NEW YORK

September 27, 2002

URS CORPORATION

WILLOW GROVE, PENNSYLVANIA

PROJECT NO. 20240313.W2000

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1.0 INTRODUCTION

This summary report presents the results of the August 2002 round of groundwater monitoring for the Non-Time Critical Removal Action (NTCRA) groundwater treatment system (GRS) at the Liberty Industrial Finishing Site.

The monitoring well network and groundwater monitoring program was designed to address U.S. Environmental Protection Agency (EPA) concerns as presented by EPA in its letter to Mr. Ralph Golia dated September 15, 1999, regarding the *Draft Report Field- and Bench-Scale Pilot Studies, Non-Time Critical Removal Action* (Draft Report, June 8, 1999) and the *Response Letter and Memorandum, Revision of Draft Report* (August 19, 1999). Specifically, EPA was concerned with the potential presence of 'gaps' within the GRS capture zone. Additionally, EPA was concerned that groundwater mounding near three (3) groundwater circulation wells (GCWs) may cause the flanks of the constituent plumes to be redirected around the outside limits of the GRS capture zone.

As of February 2002, the circulation well system has been discontinued, as requested by the EPA. In its place, the Liberty Group is installing a conventional groundwater recovery system utilizing shallow extraction wells. In April 2002, the Liberty Group installed the first recovery well RW-1 (approximately 8 feet north of circulation well GCW-1) and conducted a constant-rate aquifer pumping test. The results of the aquifer testing were reported to the EPA on May 30, 2002 (*Recovery Well Installation, Aquifer Pumping Test, and Groundwater Modeling*). Subsequent to agency approval of the May 30, 2002 report, the Liberty Group is proceeding to design and construct a full-scale groundwater recovery system. In the interim, the compliance monitoring program continues as specified previously. With the advent of the new groundwater recovery system, the monitoring program may be adjusted, as necessary.

1.1 OBJECTIVES

The purpose of the compliance monitoring well network is to provide groundwater quality data at locations within and outside the GRS capture zone. According to the

EPA-approved scope of work (August 2000), the compliance monitoring well network consists of twenty-three (23) wells (MW-1, MW-2A, MW-2B, MW-7A, MW-7B, MW-18, MW-21, PZ-3A, PZ-3C, PZ-5A, PZ-5C, PZ-6A, PZ-6C, MW-38A, MW-38B, MW-39A, MW-39B, MW-40A, MW-40B, MW-41A, MW-42A, MW-43A, and MW-44A). During this sampling event, additional wells were sampled, based on previous groundwater flow and quality observations (Table 1).

The groundwater quality data collected over time from the compliance wells is being used to determine whether a sufficient reduction in the plume constituent load is being achieved by the GRS. The definition of what constitutes a 'sufficient reduction' may be found in the Articles 27 and 42(a)(vi)(1) and 42(a)(vi)(1-2) of the Administrative Order CERCLA-98-0208. The groundwater monitoring data is being used to evaluate the overall effectiveness of the GRS system and its hydraulic effects on the aquifer, as specified in the Order. As of early February 2002, the groundwater circulation system is no longer operating, and the Liberty Group is replacing it with a conventional system of shallow groundwater recovery wells.

1.2 ORGANIZATION

Section 2.0 presents the site background and hydrogeologic conditions. Section 3.0 presents activities associated with the August 2002 round of groundwater sampling. Section 4.0 presents the results of the August 2002 round of groundwater sampling, and Section 5.0 presents conclusions and recommendations based on the results of the current sampling event.

2.0 SITE BACKGROUND

2.1 SITE LOCATION AND DESCRIPTION

The Site is located approximately one mile south of Bethpage State Park in the Town of Oyster Bay, Nassau County, New York. The Site includes Lots 326 and 327 of Block 518, Section 48, as recorded in the Nassau County Clerk's office. The Site is bordered by the Long Island Railroad to the north, Motor Avenue to the south, Main Street to the east and Ellsworth Allen Park to the west. The surrounding area is primarily residential with several commercial establishments along the major roads.

The Site may be divided into a western portion (generally unpaved and inactive) and an eastern portion (paved and limited activity). Site operations in the western portion have ceased, and only the foundations of some of the former structures and industrial facilities remain visible. The western portion of the Site also includes three excavated former disposal basins that previously received metal finishing wastewaters. The eastern portion of the Site is developed and includes several large warehouses and the remains of past industrial operations, including foundations of former process buildings.

2.2 SITE HISTORY

The initial Site facilities were utilized starting in 1934 by Kirkham Engineering and Manufacturing Company, which manufactured various aircraft-related equipment. In the 1940s, the Defense Plant Corporation (DPC) established operations at the Site for the manufacture of aircraft parts by the lessee, Liberty Aircraft Products Corporation. Liberty Aircraft Products Corporation and its various successors operated the facility as a metal plating operation until 1978. The RI Report (Weston 1994) documented the history of the Liberty Industrial Finishing Site in detail, based on files compiled by the EPA and the NYSDEC. A brief summary of the Site history was also presented in the Final CRI Report (URS, July 20, 2000).

2.3 SITE HYDROGEOLOGY

The principal aquifers beneath the Site are the Upper Glacial aquifer and the Magothy aquifer. On-site groundwater from these aquifers is not used for any purposes. Upgradient and downgradient of the Site, only the deeper portions of the Magothy aquifer are developed for public water supply. The groundwater in the Upper Glacial aquifer exists under unconfined conditions, whereas partially confined conditions exist in the Magothy aquifer where clay deposits are present. Groundwater flow in both aquifers is toward the south-southwest (URS, July 20, 2000). Within each aquifer, groundwater flow is predominantly horizontal. However, vertical hydraulic gradients are known to exist between the Upper Glacial and the Magothy aquifers. In general, the vertical gradient is downward, except in the spring months when upward gradients were observed in the southern portions of the off-site areas (URS, July 20, 2000). Note that the actual groundwater flow between the aquifers is mainly dependent on the vertical hydraulic conductivity between the two formations. The hydraulic connection of the Upper Glacial to the Magothy aquifer is believed to be limited in the Site vicinity, because a low-permeability layer was identified between the Upper Glacial and the Magothy aquifers throughout much of the on-site and off-site areas (URS, July 20, 2000).

3.0 SCOPE OF WORK

Table 1 summarizes the wells sampled and the analysis performed during the August 2002 sampling event. Prior to purging the wells, a round of depth-to-groundwater and total well depth measurements were collected from all the compliance monitoring wells and from other existing wells, as listed in Table 2. The groundwater elevation data is consistent with previous observations of groundwater flow in a south to southwest direction (URS, July 20, 2000).

Low-flow methods were used to purge each well and to collect the groundwater samples. An adjustable submersible pump (Grundfos Redi-Flo 2®) was placed in the center of the well screen, and each well was purged at a steady flow rate that minimized water level drawdown (approximately 1 liter per minute or less). The purge water was brought to the wellhead and from there into a flow-through cell via 0.25-inch inside diameter, dedicated low-density polyethylene (LDPE) tubing. The purge water was contained in a truck-mounted plastic tank and discharged to the Nassau County sanitary sewer, as approved by the NCDPW. Indicator parameters (pH, specific conductivity, temperature, dissolved oxygen, redox conditions, and turbidity) were recorded at constant intervals during well purging. Each well was considered adequately purged and ready for sampling when pH values were stabilized (within three consecutive readings) to $\pm$ 0.1, conductivity values to $\pm$ 3%, redox potential to $\pm$ 10 mV, and $\pm$ 10% for dissolved oxygen and turbidity. The turbidity goal was 50 NTU or less (note that the majority of samples met that turbidity goal). Previous on-site groundwater sampling indicated that these conditions were generally met within 15 to 20 minutes of low-flow purging. If after 45 minutes, one or more of these parameters failed to stabilize within the indicated ranges, a groundwater sample was collected at the discretion of the field geologist. The final field parameters are summarized in Table 3. The groundwater field data sheets for each well are attached in Appendix A.

Laboratory sample containers were filled directly from the discharge line. Volatile organic compound (VOC) vials were filled first (at a reduced flow rate to prevent splashing), followed by the containers for metals (at the original purge rate).

Groundwater samples for metals analyses were collected unfiltered (i.e., total metal analysis). At the completion of well sampling, the pump and tubing were pulled from the well. The tubing was wiped clean, coiled-up, and stored inside a labeled, dedicated plastic bag for reuse during the next sampling event. The pump was decontaminated using a potable water and soap wash and followed by a de-ionized water rinse.

The groundwater samples were analyzed for total cadmium, chromium (total and hexavalent), total iron, and Target Compound List (TCL) VOCs. Laboratory analytical reports are attached in Appendix B. As part of the sampling program, field quality control (QC) samples were collected. The QC samples included one trip blank per sample cooler. In addition, one duplicate sample was collected. The duplicate was analyzed for all compounds. The trip blanks were analyzed for VOCs only.

Twenty-nine (29) wells were sampled during the August 2002 sampling event. These consisted of five (4) wells upgradient to the groundwater recovery wells (MW-1, MW-2B, MW-18, and MW-21), seventeen (17) wells located adjacent or side-gradient to the recovery wells (PZ-3B, PZ-3C, PZ-5B, PZ-5C, PZ-6A, PZ-6C, PZ-7A, PZ-7C, PZ-9A, PZ-10A, MW-6A, MW-6B, MW-7A, MW-7B, MW-41A, MW-42A, and the new recovery well RW-1), and eight (8) wells downgradient to the recovery wells (MW-38A, MW-38B, MW-39A, MW-39B, MW-40A, MW-40B, MW-41A, MW-43A and MW-44A [which is located within the 'Plume B' footprint). During this event, wells MW-2A, PZ-3A, PZ-4A, and PZ-5A were dry and were not sampled.

4.0 GROUNDWATER SAMPLING RESULTS

4.1 FIELD PARAMETERS

Table 3 summarizes the groundwater field parameters that were measured at the end of purging the monitoring wells. The most relevant information may be derived from the oxidation-reduction potential (ORP) measurements. ORP measurements from most of the shallow and intermediate depth wells are in the range between 50 and 350 mV, which indicate thoroughly oxidized conditions and low potential for the occurrence of (reduced) dissolved iron. However, the ORP measurements from one shallow well (MW-42A at –36 mV) and two deeper wells (PZ-5C at –196 mV and PZ-7C at –178 mV) were negative, which indicates the potential for reducing conditions and the potential for elevated dissolved iron.

4.2 ORGANIC RESULTS

Table 4A presents the concentrations of detected VOCs for the August 2002 rounds of well sampling. Figure 1 shows the tetrachloroethene (PCE) concentration data and Figure 2 shows the trichloroethene (TCE) concentration data.

During this sampling event, the following organic constituents were detected in groundwater: 1,1,1-trichloroethane (1,1,1-TCA) (0.6 to 73 µg/L), 1,1-dichlroethane (1,1-DCA) (0.6 to 9.1 µg/L), *cis*-1,2-dichloroethene (*cis*-1,2-DCE) (0.8 to 59 µg/L), chloroform (CF) (0.5 µg/L), trichloroethene (TCE) (0.9 to 66 µg/L), tetrachloroethene (PCE) (0.6 to 7 µg/L), and carbon tetrachloride (6.6 µg/L).

The samples collected downgradient of the former Building B basement had the greatest concentrations of 1,1,1-TCA (up to 73 µg/L) and 1,1-DCA (up to 9.1 µg/L), and the highest ratios of TCE to *cis*-1,2-DCE. In contrast, the groundwater samples collected downgradient of the former disposal basins had low concentrations of 1,1,1-TCA (up to 1.3 µg/L), 1,1-DCA (up to 1.6 µg/L), and lower TCE to *cis*-1,2-DCE ratios. All on-site wells had PCE concentrations of less than 5 µg/L, whereas groundwater from well MW-

44A had the greatest concentration of PCE (7 µg/L). However, this well is located within the footprint of a separate groundwater plume that is not site-related and has an upgradient, off-site source.

Summary of Groundwater Quality (VOCs):

Overall, the groundwater quality data for the organic constituents is consistent with the historic data that implicates two main on-site source areas (former disposal basins and former Building B basement) for the observed on-site VOC concentrations. As is illustrated in Table 4B, the detected VOC concentrations along Motor Avenue (well clusters MW-38 through MW-40) are lower than those concentrations observed on-site. The observed groundwater VOC impacts are limited to the upper portion of the Upper Glacial aquifer (A-level wells), as the wells completed in the middle and lower portion of the aquifer (B-level and C-level wells) did not yield VOC concentrations greater than the MCL or NYSDEC GA standards. The stratification of organic constituents in groundwater is summarized in Table 4B for selected compounds (TCE, *cis*-1,2-DCE, 1,1,1-TCA, and 1,1-DCA).

Although the aquifer is under generally oxidizing conditions, the presence of daughter constituents *cis*-1,2-DCE (the parent is TCE) and 1,1-DCA (the parent is 1,1,1-TCA) strongly suggests that biodegradation or transformation reactions are occurring within the upper portion of the Upper Glacial aquifer.

The concentration trend plots presented in Appendix C indicate that the constituent levels in the wells near the source areas (MW-18, MW-21A) are lower then they have been historically. These decreasing trends in VOC concentrations are either caused by the very low water table elevation (i.e., the groundwater is not completely connected to potential shallow VOC source areas) or by the overall extraction and treatment of groundwater from the upper portion of the Upper Glacial aquifer. The decrease in VOC concentrations downgradient of GCW-1 and the current recovery well RW-1 (e.g., well MW-38A) suggests that the operation of the GRS has been effective in containing a portion of the groundwater plume. The VOC trends in the side-gradient monitoring wells (MW-41A and MW-42A) indicate that concentrations are stable at or slightly above the

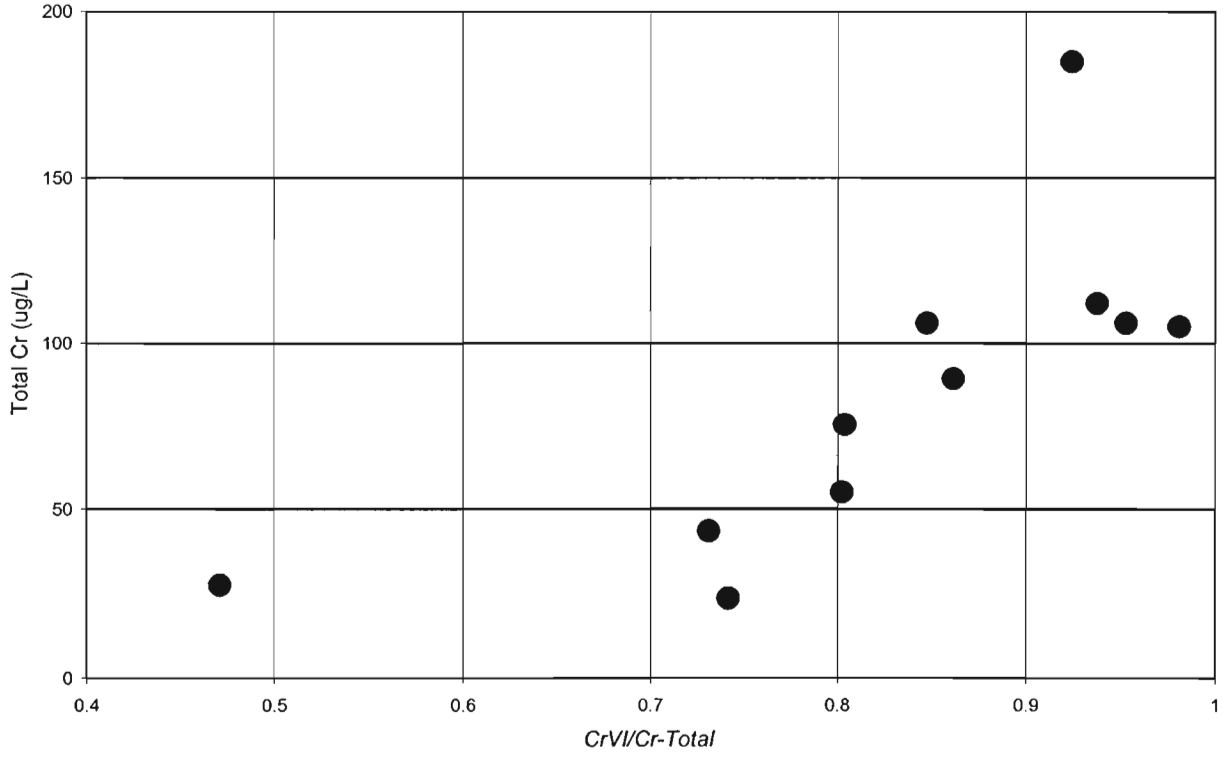
site cleanup criteria, and that the groundwater plume has not circumvented ('gone around') the circulation/recovery wells to the east or west. Note that the capture zone of the conventional groundwater recovery system for the GRS will be inclusive of the locations of wells MW-41A and MW-42A.

4.3 INORGANIC RESULTS

Table 5A presents the concentrations of detected inorganic compounds for the August 2002 round of well sampling. The tabulated concentration data are summarized in Figure 3 (cadmium), Figure 4 (total chromium), and Figure 5 (hexavalent chromium).

Total and Hexavalent Chromium

The average ratio of hexavalent chromium to total chromium (Cr-VI/Cr-tot), displayed at the bottom of Table 5A, was 0.79 for this sampling event (i.e., 79 percent of total chromium is present in the form of hexavalent chromium). The data suggests that there is a dependency between total chromium concentrations and the Cr-VI/Cr-tot ratio (see chart below).



Cadmium was detected in several monitoring wells at concentrations greater than the NYSDEC GA standard of 5 µg/L (especially those near recovery well RW-1). However, numerous wells in the center and the eastern portion of the Site had cadmium concentrations less than 5 µg/L (such as MW-1 (3.5 µg/L), MW-7A (1.2 µg/L), MW-21 (1.7 µg/L), MW-43A (0.52 µg/L), MW-44A (<0.4 µg/L), PZ-3C (2.7 µg/L), PZ-5C (<0.8 µg/L), PZ-6C (4.9 µg/L), PZ-7A (1.5 µg/L), and PZ-7C (<0.4 µg/L). As illustrated in Table 4B, concentrations of cadmium decrease with depth within the Upper Glacial aquifer. The greatest concentrations were detected in the upper portion of the aquifer, downgradient of the former disposal basins (see Figure 3), with concentrations up to 293 µg/L. Cadmium concentrations to the east and west of this 'disposal basin plume' were less than 50 µg/L (yellow symbols in Figure 3). In the middle portion of the aquifer (B-level wells), cadmium concentrations were generally less than 30 µg/L. In the lower portion of the aquifer (C-level wells), cadmium concentrations were always less than 5 µg/L.

Chromium was detected in several monitoring wells at concentrations greater than the NYSDEC GA standard of 50 µg/L, including MW-40A (385 µg/L), PZ-7A (185 µg/L), MW-1 (106 µg/L), MW-41A (105 µg/L), PZ-6 A (75.4 µg/L), MW-6A (106 µg/L), MW-18 (55.1 µg/L), MW-38A (77 µg/L), MW-38B (83.4 µg/L), MW-39A (112 µg/L), and MW-7A (89.3 µg/L). As was the case with cadmium concentrations, chromium concentrations drop significantly with depth in the Upper Glacial aquifer. Of the B-level and C-level wells, only one exceeded a total chromium concentration of 50 µg/L (MW-38B).

Summary of Inorganic Data:

The groundwater quality data for the inorganic constituents is consistent with the historic data that implicates one main on-site source area for cadmium (former disposal basins) and several source areas for chromium (former disposal basins, former sludge drying bed). The observed groundwater impacts are limited to the upper portion of the Upper Glacial aquifer. The middle and lower portions of the aquifer are generally not less

impacted by cadmium and not impacted by chromium. Chromium and cadmium concentrations in the middle portion and the lower portion of the aquifer are significantly less than those observed in the upper portion of the aquifer. The stratification of cadmium, chromium, and iron concentrations are summarized in Table 5B.

The concentration trend plots presented in Appendix C indicate that the constituent levels in the wells near the source areas (MW-1, MW-18, MW-21A) have been steadily decreasing over the last six monitoring events. These decreasing trends in cadmium and chromium concentrations are either caused by the very low water table elevation (i.e., the groundwater is not completely connected to potential shallow source areas) or by the overall extraction and treatment of groundwater from the upper portion of the Upper Glacial aquifer. The decrease in cadmium concentrations downgradient of GCW-1 and the current recovery well RW-1 (e.g., well MW-38A and MW-39A) suggests that the operation of the GRS has been effective in containing a portion of the groundwater plume. The trends in the side-gradient monitoring wells indicate that cadmium is increasing to the west of recovery well RW-1 (well MW-41A), but chromium is decreasing. Both cadmium and chromium concentrations are stable in well MW-42A to the east of the circulation/recovery system. Note that the capture zone of the proposed groundwater extraction system will be inclusive of the locations of wells MW-41A and MW-42A.

5.0 CONCLUSIONS

The groundwater quality data indicates that the upper portion of the Upper Glacial aquifer has concentrations of VOCs, cadmium, and chromium that are greater than the MCLs. The middle and lower portions of the aquifer are not or only slightly (cadmium) impacted. The historic distribution of VOC and inorganic concentrations suggests that these impacts are related to separate source areas:

- VOCs in groundwater are clearly related to two sources upgradient of the Site boundary: the former disposal basin and the basement of former Building B. Historically the maximum TCE concentrations were observed at MW-21A. However, the overall VOC concentrations have decreased significantly, which may be caused by very low water table elevations or by the extraction and treatment of groundwater from the aquifer.
- Cadmium in groundwater is clearly related to a single main source (former disposal basins) upgradient of current recovery well RW-1. The maximum cadmium concentrations were observed in a narrow corridor between MW-2A (not sampled during this period) to PZ-9A/PZ-10A to MW-38A/MW-39A, which is within the capture zone of the conventional recovery system for the GRS.
- Chromium in groundwater appears to be related to a greater variety of on-site sources that include the former disposal basins and the former sludge drying bed, as concentrations are distributed more uniformly throughout the upper portion of the Upper Glacial aquifer. Chromium concentrations appear to increase toward the eastern portion of the Site (the greatest concentrations were detected in PZ-7A and MW-40A).

Recovery Well RW-1 and Groundwater Quality

Recovery Well RW-1 was installed in late March – early April 2002. The recovery well is screened from 10 ft to 40 ft bgs, thereby spanning the upper portion of the Upper Glacial aquifer. During the constant-rate aquifer test (April 2002), analytical samples of

the effluent were collected and analyzed for VOCs, metals, and general chemistry parameters (reported May 30, 2002). The well was also sampled during the present round of sampling. The chart below summarizes the currently available data for recovery well RW-1:

Date	TCE µg/L	cis-1,2-DCE µg/L	Cadmium µg/L	Chromium µg/L
4/2/2002	8.2	3.5	122	10.0
4/2/2002	6.7	3.0	115	13.0
4/3/2002	5.3	3.0	108	22.2
4/3/2002	5.5	3.0	104	24.2
4/3/2002	5.0	2.6	105	27.2
5/15/2002	18	6.6	119	8.9
7/23/2002	12.7	ND	110	27.0
7/25/2002	12.5	ND	110	32.2
8/7/2002	5.2	2.1	112	11.6
8/15/2002	14	5.2	107	31.9
8/21/2002	12.1	ND	92.0	26.0
9/12/2002	NA	NA	102	30.6
9/16/2002	8.3	ND	85.9	29.9

As described in the IRM Compliance Report for the May 2002 Event, the groundwater quality for RW-1 may be described simply as a mixture of approximately 60% groundwater derived from the upper (A) portion if the aquifer and 40% derived from the middle (B) portion of the aquifer. The field (ORP and D.O) and analytical data (iron) indicate that the contribution of the lower aquifer water is negligible. The cadmium data (e.g., MW-6A at 168 µg Cd/L and MW-6B and 11.9 µg Cd/L) for the current sampling event is consistent with such simple mixing considerations. The current data also

suggests that cadmium is probably distributed homogeneously in the upper and middle portion of the aquifer, respectively. In contrast, the wells adjacent to RW-1 have elevated TCE concentrations (e.g., MW-6A at 40 µg TCE/L, PZ-9A at 66 µg TCE/L) compared to the relatively low VOC concentrations in RW-1 (less than 14 µg TCE/L). This observation implies that (a) TCE is distributed non-homogenously in the upper and middle portion of the aquifer, and/or (b) that the extracted groundwater from RW-1 is also representative of upgradient and side-gradient areas that have lesser VOC concentrations.

Table 1
Compliance Monitoring Well Network: Sampling and Analysis Plan
Non-Time Critical Removal Action
Liberty Industrial Finishing Site, Farmingdale, New York

Well ID	Required per August 2000 Workplan	August 2002 Sampling Event					
		Sampled	TCL VOCs	Cd (total)	Cr (total)	Cr-VI (total)	Iron (total)
MW-1	X	YES	X	X	X	X	X
MW-2A	X	DRY					
MW-2B	X	YES	X	X	X	X	X
MW-2C							
MW-3							
MW-4							
MW-5							
MW-6A		YES	X	X	X	X	X
MW-6B		YES	X	X	X	X	X
MW-6D							
MW-7A	X	YES	X	X	X	X	X
MW-7B	X	YES	X	X	X	X	X
MW-13							
MW-18	X	YES	X	X	X	X	X
MW-20							
MW-21	X	YES	X	X	X	X	X
MW-22A							
MW-22B							
MW-33B							
MW-34B							
MW-38A	X	YES	X	X	X	X	X
MW-38B	X	YES	X	X	X	X	X
MW-39A	X	YES	X	X	X	X	X
MW-39B	X	YES	X	X	X	X	X
MW-40A	X	YES	X	X	X	X	X
MW-40B	X	YES	X	X	X	X	X
MW-41A	X	YES	X	X	X	X	X
MW-42A	X	YES	X	X	X	X	X
MW-43A	X	YES	X	X	X	X	X
MW-44A	X	YES	X	X	X	X	X
PZ-3A	X	DRY					
PZ-3B		YES	X	X	X	X	X
PZ-3C	X	YES	X	X	X	X	X
PZ-4A		DRY					
PZ-4B							

Table 1
Compliance Monitoring Well Network: Sampling and Analysis Plan
Non-Time Critical Removal Action
Liberty Industrial Finishing Site, Farmingdale, New York

Well ID	Required per August 2000 Workplan	August 2002 Sampling Event					
		Sampled	TCL VOCs	Cd (total)	Cr (total)	Cr-VI (total)	Iron (total)
PZ-4C							
PZ-5A	X	DRY					
PZ-5B		YES	X	X	X	X	X
PZ-5C	X	YES	X	X	X	X	X
PZ-6A	X	YES	X	X	X	X	X
PZ-6C	X	YES	X	X	X	X	X
PZ-7A		YES	X	X	X	X	X
PZ-7C		YES	X	X	X	X	X
PZ-8A		DRY					
PZ-9A		YES	X	X	X	X	X
PZ-10A		YES	X	X	X	X	X
RW-1		YES	X	X	X	X	X

Notes:

TCL VOCs = target compound list volatile organic compounds
Cd = Cadmium
Cr = Chromium
Cr-VI = Hexavalent Chromium

Table 2
Compliance Monitoring Well Network: Groundwater Elevations
Non-Time Critical Removal Action
Liberty Industrial Finishing Site, Farmingdale, New York

WELL LOCATION	TOC ELEVATION	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)
	(ft msl)	Sep-00	Oct-00	Jul-01	Nov-01	Feb-02	May-02	Aug-02
MW-1	64.62	45.37	45.60	45.97	42.90	41.40	41.44	40.22
MW-2A	64.44	45.46	45.69	46.08	43.01	41.49	41.53	DRY
MW-2B	65.06	45.46	45.67	46.06	42.99	41.47	41.53	40.34
MW-2C	65.28	45.22	45.58	45.87	41.74	41.30	41.47	40.09
MW-3	67.63	46.22	46.47	46.86	43.69	42.20	42.19	41.05
MW-4	67.33	46.53	46.78	47.17	43.97	42.46	42.47	41.30
MW-5	66.89	45.42	45.74	46.00	42.96	41.51	41.51	50.26
MW-6A	65.99	NM	NM	45.74	42.78	41.20	41.26	40.06
MW-6B	66.31	45.48	45.71	45.71	42.47	41.18	41.23	40.08
MW-6D	66.14	45.00	45.37	45.64	42.64	41.14	41.31	39.91
MW-7A	66.03	45.33	46.06	46.00	42.85	41.24	41.35	40.21
MW-7B	65.43	45.28	44.90	44.89	41.80	41.26	41.33	40.17
MW-13	60.75	NM	44.80	45.17	42.27	40.83	40.84	39.50
MW-18	66.04	45.55	45.81	46.19	43.10	41.59	41.61	40.44
MW-20	65.47	46.28	46.43	46.90	43.77	42.16	42.22	41.16
MW-21	64.32	45.51	45.70	46.15	43.03	41.47	41.56	40.42
MW-22A	68.29	47.46	47.51	48.08	44.85	45.19	43.22	42.25
MW-22B	67.67	47.42	47.49	48.06	44.81	43.18	43.19	42.24
MW-33B	64.33	46.78	46.90	NM	NM	NM	42.68	41.64
MW-34B	63.14	45.77	45.94	46.40	43.30	41.70	41.81	40.74
MW-38A	62.37	45.02	45.22	45.66	42.59	41.05	41.13	39.91
MW-38B	62.26	44.98	45.20	45.58	42.55	38.07	41.09	39.90
MW-39A	63.08	45.11	45.28	45.70	42.66	41.12	41.17	39.98
MW-39B	62.85	45.15	45.36	45.75	42.67	41.17	41.26	40.07
MW-40A	63.14	45.18	45.37	45.79	42.72	41.18	41.27	40.09
MW-40B	63.36	45.21	45.39	45.84	42.44	41.30	41.29	40.12
MW-41A	62.82	45.11	45.32	45.68	42.67	41.17	41.23	39.99
MW-42A	64.11	45.34	45.50	45.99	42.91	41.38	41.40	40.25
MW-43A	62.2			45.30	42.34	40.85	40.90	39.64
MW-44A	63.31			45.60	42.53	40.93	41.06	40.03
PZ-3A	65.81	45.17	45.39	45.75	42.76	DRY	DRY	DRY
PZ-3B	65.85	45.16	45.38	45.77	42.66	41.21	41.28	40.05
PZ-3C	65.81	45.14	45.39	45.76	42.68	41.20	41.29	40.02
PZ-4A	65.98	45.18	45.40	45.76	42.89	DRY	DRY	DRY
PZ-4B	66.03	45.21	45.44	45.80	42.55	41.21	41.35	40.11
PZ-4C	66.04	45.19	45.42	45.80	42.66	41.22	41.31	40.08
PZ-5A	66.34	45.14	45.36	45.73	DRY	DRY	DRY	DRY
PZ-5B	66.33	45.17	45.35	45.72	42.54	41.18	41.25	40.04
PZ-5C	66.32	45.11	45.35	45.74	42.52	41.13	41.21	39.97
PZ-6A	66.74	45.27	45.47	45.90	42.81	41.32	41.36	40.18
PZ-6C	66.69	45.22	45.46	46.28	42.96	41.28	41.36	40.13
PZ-7A	66.37	45.82	45.51	46.06	42.87	41.42	41.42	40.25

Table 2
Compliance Monitoring Well Network: Groundwater Elevations
Non-Time Critical Removal Action
Liberty Industrial Finishing Site, Farmingdale, New York

WELL LOCATION	TOC ELEVATION	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)	GW_ELEV (ft MSL)
	(ft msl)	Sep-00	Oct-00	Jul-01	Nov-01	Feb-02	May-02	Aug-02
PZ-7C	66.35	45.25	45.51	45.39	42.89	41.35	41.39	40.18
PZ-8A	64.38				NM	41.38	DRY	DRY
PZ-9A	66.04				42.76	41.30	41.35	40.15
PZ-10A	66.85				42.74	41.33	41.36	40.16
RW-1	65.74						41.29	40.11

Notes:

NM = not measured

= wells not installed until after these sampling rounds

TOC = top of casing

ft msl = feet above mean sea level

DTW = depth to water

ft TOC = feet below top of casing

GW_ELEV = groundwater elevation

TCL VOCs = target compound list volatile organic compounds

Cd = Cadmium

Cr = Chromium

Cr-VI = Hexavalent Chromium

Table 3
Groundwater Sampling Field Parameters
August 2002 Sampling Event
Liberty Industrial Finishing Site, Farmingdale, New York

Sample Location	Sample Date	Sampling DTW (ft)	pH (s.u.)	ORP (mV)	Temp (deg. C)	S.C. (mS/cm)	D.O. (mg/L)	Turb (NTU)
MW-1	8/7/2002	24.46	5.98	217	14.9	0.179	5.37	1.9
MW-2B	8/7/2002	24.81	5.73	135	17.0	0.413	1.60	1.5
MW-6A	8/7/2002	26.05	6.09	163	19.2	0.316	7.14	1.7
MW-6B	8/7/2002	26.38	5.63	181	17.6	0.397	3.26	4.7
MW-7A	8/6/2002	25.87	5.44	342	17.7	0.334	5.54	7.3
MW-7B	8/6/2002	25.31	5.79	187	17.7	0.500	0.48	0.0
MW-18	8/7/2002	25.63	5.93	216	17.4	0.294	6.54	1.4
MW-21	8/7/2002	23.98	6.29	199	18.0	0.324	5.48	1.7
MW-38A	8/8/2002	22.63	5.98	204	17.6	0.395	2.94	9.8
MW-38B	8/8/2002	22.57	5.18	228	17.2	0.348	4.46	93.6
MW-39A	8/8/2002	23.22	5.88	247	17.9	0.338	5.42	21.4
MW-39B	8/8/2002	22.91	5.86	239	18.5	0.442	2.75	98.0
MW-40A	8/8/2002	23.11	6.22	178	18.3	0.347	3.74	11.0
MW-40B	8/8/2002	23.34	6.29	50	18.9	0.533	0.35	23.5
MW-41A	8/7/2002	22.88	5.58	237	15.6	0.188	4.53	3.8
MW-42A	8/8/2002	23.92	6.50	-36	16.8	0.299	0.39	8.8
MW-43A	8/8/2002	22.67	5.54	257	16.7	0.258	8.11	2.3
MW-44A	8/8/2002	23.47	5.71	142	20.4	0.246	3.45	11.2
PZ-3B	8/7/2002	26.02	5.28	278	16.8	0.408	4.16	40.1
PZ-3C	8/7/2002	25.88	5.15	263	16.4	0.276	2.53	3.6
PZ-5B	8/6/2002	26.35	6.36	55	17.1	0.421	1.68	5.6
PZ-5C	8/6/2002	26.55	7.29	-196	16.6	0.825	3.87	11
PZ-6A	8/6/2002	26.63	5.80	231	17.4	0.267	4.45	8.8
PZ-6C	8/6/2002	26.69	5.63	229	17.5	0.345	3.09	15.0
PZ-7A	8/6/2002	26.18	5.88	210	16.7	0.290	4.99	30.1
PZ-7C	8/6/2002	26.29	5.62	-178	17.2	0.447	0.68	48
PZ-9A	8/6/2002	25.93	5.84	238	17.1	0.276	3.87	3.1
PZ-10A	8/6/2002	26.74	5.85	227	17.5	0.289	3.39	4.8
RW-1	8/7/2002		5.85	250	17.9	0.347	3.02	4.8

Notes:
DTW = Depth to Water
s.u. = standard units
ORP = Oxidation - Reduction Potential, milliVolts
Temp. = Temperature, degrees Celcius
S.C. = Specific Conductance, microSiemens per centimeter
D.O. = Dissolved Oxygen, milligrams per liter
Turb. = Turbidity, nephelometric turbidity units (0.0 indicates negative reading)

Table 4A
Summary of Organic Analytical Results (August 2002)
Non-Time Critical Removal Action
Liberty Industrial Finishing Site, Farmingdale, New York

Sample Location	Parameter (mg/L)							Dilution Factor
	1,1,1-TCA	1,1-DCA	cis-1, 2-DCE	CF	TCE	PCE	Carbon Tetrachloride	
MW-1	<5 U	<5 U	7.6	<5 U	22	1	<2 U	1
MW-2B	<5 U	<5 U	<5 U	<5 U	<1 U	<1 U	<2 U	1
MW-6A	<5 U	<5 U	24	<5 U	40	3.2	<2 U	1
MW-6B	<5 U	<5 U	<5 U	<5 U	<1 U	<1 U	<2 U	1
MW-7A	35	7.3	19	<5 U	6.5	1.6	<2 U	1
MW-7B	<5 U	<5 U	<5 U	<5 U	<1 U	1 J	<2 U	1
MW-18	<5 U	<5 U	<5 U	<5 U	25	1 J	<2 U	1
MW-21	34	4.7 J	20	<5 U	5.4	1.8	<2 U	1
MW-38A	<5 U	<5 U	2.6 J	<5 U	3.9	0.6 J	<2 U	1
MW-38B	1.3 J	1.3 J	<5 U	0.5 J	0.9 J	<1 U	<2 U	1
MW-39A	<5 U	<5 U	<5 U	<5 U	4.6	<1 U	<2 U	1
MW-39B	<5 U	<5 U	<5 U	<5 U	<1 U	<1 U	<2 U	1
MW-40A	38	5.8	49	<5 U	14	1.7	6.6	1
MW-40B	<5 U	<5 U	<5 U	<5 U	<1 U	1	<2 U	1
MW-41A	<5 U	<5 U	5.3	<5 U	13	0.8 J	<2 U	1
MW-42A	0.7 J	<5 U	1.2 J	<5 U	8.1	1.1	<2 U	1
MW-43A	<5 U	<5 U	<5 U	<5 U	<1 U	<1 U	<2 U	1
MW-44A	1.1 J	<5 U	0.8 J	<5 U	7.4	7	<2 U	1
PZ-3B	0.6 J	0.6 J	<5 U	<5 U	3.6	0.6 J	<2 U	1
PZ-3C	1.1 J	1.6 J	<5 U	<5 U	1.3	<1 U	<2 U	1
PZ-5B	<5 U	<5 U	<5 U	<5 U	<1 U	<1 U	<2 U	1
PZ-5C	<5 U	<5 U	<5 U	<5 U	<1 U	<1 U	<2 U	1
PZ-6A	0.6 J	<5 U	<5 U	<5 U	5.2	1.9	<2 U	1
PZ-6C	<5 U	<5 U	<5 U	<5 U	<1 U	<1 U	<2 U	1
PZ-7A	73	9.1	59	<5 U	5.1	3.1	<2 U	1
PZ-7C	<5 U	<5 U	<5 U	<5 U	<1 U	0.8 J	<2 U	1
PZ-9A	<5 U	<5 U	8.9	<5 U	66	3.4	<2 U	1
PZ-10A	<5 U	<5 U	1.8 J	<5 U	7.9	3.1	<2 U	1
RW-1	<5 U	<5 U	2.1 J	<5 U	5.2	0.8 J	<2 U	1

Notes:
mg/L = micrograms per liter
1,1,1-TCA = 1,1,1-Trichloroethane
1,1-DCA = 1,1-Dichloroethane
cis-1 2-DCE = cis-1 2-Dichloroethene
CF = Chloroform
TCE = Trichloroethene
PCE = Tetrachloroethene
J = estimated value
U = not detected above the laboratory limit of quantification

Table 4B
Summary of Organic Analytical Results by Depth (August 2002)
Non-time Critical Removal Action
Liberty Industrial Finishing Site, Farmingdale, New York

Aquifer Interval	Parameter (ug/l)	Upgradient Wells (West to East)			
		MW-1	MW-2	MW-18	MW-21
A (0-30 feet)	TCE	22		25	5.4
	cis-1,2-DCE	7.6		<5 U	20
	1,1,1-TCA	<5 U		<5 U	34
	1,1-DCA	<5 U		<5 U	4.7 J
B (30-60 feet)	TCE		< 1U		
	cis-1,2-DCE		<5 U		
	1,1,1-TCA		<5 U		
	1,1-DCA		<5 U		
C (60-90 feet)	TCE				
	cis-1,2-DCE				
	1,1,1-TCA				
	1,1-DCA				

Aquifer Interval	Parameter (ug/l)	Site Boundary Wells (West to East)									
		MW-41	PZ-3	MW-6	RW-1	PZ-5/9	PZ-10	PZ-6	PZ-7	MW-7	MW-42
A (0-30 feet)	TCE	13		40	5.2	66	7.9	5.2	5.1	6.5	8.1
	cis-1,2-DCE	5.3		24	2.1 J	8.9	1.8 J	<5 U	59	19	1.2 J
	1,1,1-TCA	<5 U		<5 U	<5 U	<5 U	<5 U	0.6 J	73	35	0.7 J
	1,1-DCA	<5 U		<5 U	<5 U	<5 U	<5 U	<5 U	9.1	7.3	<5 U
B (30-60 feet)	TCE		3.6	<1 U		<1 U				<1 U	
	cis-1,2-DCE		<5 U	<5 U		<5 U				<5 U	
	1,1,1-TCA		0.6 J	<5 U		<5 U				<5 U	
	1,1-DCA		0.6 J	<5 U		<5 U				<5 U	
C (60-90 feet)	TCE		1.3			<1 U		<1 U	<1 U		
	cis-1,2-DCE		<5 U			<5 U		<5 U	<5 U		
	1,1,1-TCA		1.1 J			<5 U		<5 U	<5 U		
	1,1-DCA		1.6 J			<5 U		<5 U	<5 U		

Aquifer Interval	Parameter (ug/l)	Downgradient Wells (West to East)				
		MW-43	MW-38	MW-39	MW-40	MW-44
A (0-30 feet)	TCE	<1 U	3.9	4.6	14	7.4
	cis-1,2-DCE	<5 U	2.6 J	<5 U	49	0.8 J
	1,1,1-TCA	<5 U	<5 U	<5 U	38	1.1 J
	1,1-DCA	<5 U	<5 U	<5 U	5.8	<5 U
B (30-60 feet)	TCE		0.9 J	<1 U	<1 U	
	cis-1,2-DCE		<5 U	<5 U	<5 U	
	1,1,1-TCA		1.3 J	<5 U	<5 U	
	1,1-DCA		1.3 J	<5 U	<5 U	
C (60-90 feet)	TCE					
	cis-1,2-DCE					
	1,1,1-TCA					
	1,1-DCA					

Notes:
ug/L = micrograms per liter
TCE = Trichloroethene
cis-1 2-DCE = cis-1 2-Dichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1-DCA = 1,1-Dichloroethane
J = estimated value
U = not detected above the laboratory limit of quantification

Table 5A
Summary of Inorganic Analytical Results (August 2002)
Non-Time Critical Removal Action
Liberty Industrial Finishing Site, Farmingdale, New York

Sample Location	Parameter (mg/L)				Turbidity (NTU)	Cr VI/Cr -tot. Ratio
	Cadmium	Chromium	Chromium VI	Iron		
MW-1	**3.5 J**	**106**	**101**	<37.1 U	1.9	0.95
MW-2B	**11.7**	**8.7 J**	<10 U	**323**	1.5	---
MW-6A	**168**	**106**	**89.8**	**140 J**	1.7	0.85
MW-6B	**11.9**	**3.5 J**	<10 U	**609**	4.7	---
MW-7A	**1.2 J**	**89.3**	**76.9**	**90.3 J**	7.3	0.86
MW-7B	**5**	**4.2 J**	<10 U	**94.6 J**	0.0	---
MW-18	**15.7**	**55.1**	**44.2**	<37.1 U	1.4	0.80
MW-21	**1.7 J**	**23.6**	**17.5**	**76.5 J**	1.7	0.74
MW-38A	**110**	**77**	**13.2**	**815**	9.8	0.17
MW-38B	**20.6**	**83.4**	<10 U	**4830**	93.6	---
MW-39A	**293**	**112**	**105**	<37.1 U	21.4	0.94
MW-39B	**15**	**12.9**	<10 U	**377**	98.0	---
MW-40A	**9.9**	**385**	**410**	**58.7 J**	11.0	1.06
MW-40B	**21.6**	**13**	<10 U	**1520**	23.5	---
MW-41A	**34.6**	**105**	**103**	<37.1 U	3.8	0.98
MW-42A	**38.3**	**1.7 J**	<10 U	**22200**	8.8	---
MW-43A	**0.52 J**	**2.9 J**	<10 U	**111 J**	2.3	---
MW-44A	<0.4 U	**6.1 J**	<10 U	**522**	11.2	---
PZ-3B	**30.1**	**23.8**	<10 U	**2150**	40.1	---
PZ-3C	**2.7 J**	**3.5 J**	<10 U	**56.5 J**	3.6	---
PZ-5B	**7.6**	<2.8 U	<10 U	**2930**	5.6	---
PZ-5C	<0.8 U	<5.6 U	<10 U	**180000**	11.0	---
PZ-6A	**40.3**	**75.4**	**60.6**	**148 J**	8.8	0.80
PZ-6C	**4.9**	**9.4 J**	<10 U	**614**	15.0	---
PZ-7A	**1.5 J**	**185**	**171**	**114 J**	30.1	0.92
PZ-7C	<0.4 U	**14.6**	<10 U	**11200**	48.0	---
PZ-9A	**243**	**43.5**	**31.8**	<39.7 U	3.1	0.73
PZ-10A	**119**	**27.6**	**13**	**50.4 J**	4.8	0.47
RW-1	**112**	**11.6**	<10 U	<37.1 U	4.8	---
					Average	0.79

Notes:
U = not detected above the laboratory limit of quantification
--- = Hexavalent Chromium not detected
mg/L = micrograms per liter
NTU = nephelometric turbidity units (0.0 indicates negative reading)

Table 5B
Summary of Inorganic Analytical Results by Depth (August 2002)
Non-Time Critical Removal Action
Liberty Industrial Finishing Site, Farmingdale, New York

Aquifer Interval	Parameter (ug/l)	Upgradient Wells (West to East)			
		MW-1	MW-2	MW-18	MW-21
A (0-30 feet)	Cd	3.5 B		15.7	1.7 B
	Cr	106		55.1	23.6
	Cr VI	101		44.2	17.5
	Fe	<37.1 U		<37.1 U	76.5 B
B (30-60 feet)	Cd		11.7		
	Cr		8.7 B		
	Cr VI		<10 U		
	Fe		323		
C (60-90 feet)	Cd				
	Cr				
	Cr VI				
	Fe				

Aquifer Interval	Parameter (ug/l)	Site Boundary Wells (West to East)									
		MW-41	PZ-3	MW-6	RW-1	PZ-5/9	PZ-10	PZ-6	PZ-7	MW-7	MW-42
A (0-30 feet)	Cd	34.6		168	112	243	119	40.3	1.5 B	1.2 B	38.3
	Cr	105		106	11.6	43.5	27.6	75.4	185	89.3	1.7 B
	Cr VI	103		89.8	<10 U	31.8	13	60.6	171	76.9	<10 U
	Fe	<37.1 U		140 B	<37.1 U	<39.7 U	50.4 B	148 B	114 B	90.3 B	22200
B (30-60 feet)	Cd		30.1	11.9		7.6				5	
	Cr		23.8	3.5 B		<2.8 U				4.2 B	
	Cr VI		<10 U	<10 U		<10 U				<10 U	
	Fe		2150	609		2930				94.6 B	
C (60-90 feet)	Cd		2.7 B			<0.8 U		4.9	<0.4 U		
	Cr		3.5 B			<5.6 U		9.4 B	14.6		
	Cr VI		<10 U			<10 U		<10 U	<10 U		
	Fe		56.5 B			180000		614	11200		

Aquifer Interval	Parameter (ug/l)	Downgradient Wells (West to East)				
		MW-43	MW-38	MW-39	MW-40	MW-44
A (0-30 feet)	Cd	0.52 B	110	293	9.9	<0.4 U
	Cr	2.9 B	77	112	385	6.1 B
	Cr VI	<10 U	13.2	105	410	<10 U
	Fe	111 B	815	<37.1 U	58.7 B	522
B (30-60 feet)	Cd		20.6	15	21.6	
	Cr		83.4	12.9	13	
	Cr VI		<10 U	<10 U	<10 U	
	Fe		4830	377	1520	
C (60-90 feet)	Cd					
	Cr					
	Cr VI					
	Fe					

Notes:
ug/L = micrograms per liter
Cd = Cadmium
Cr = Chromium
Cr VI = Hexavalent Chromium
Fe = Iron
J = estimated value
U = not detected above the laboratory limit of quantification

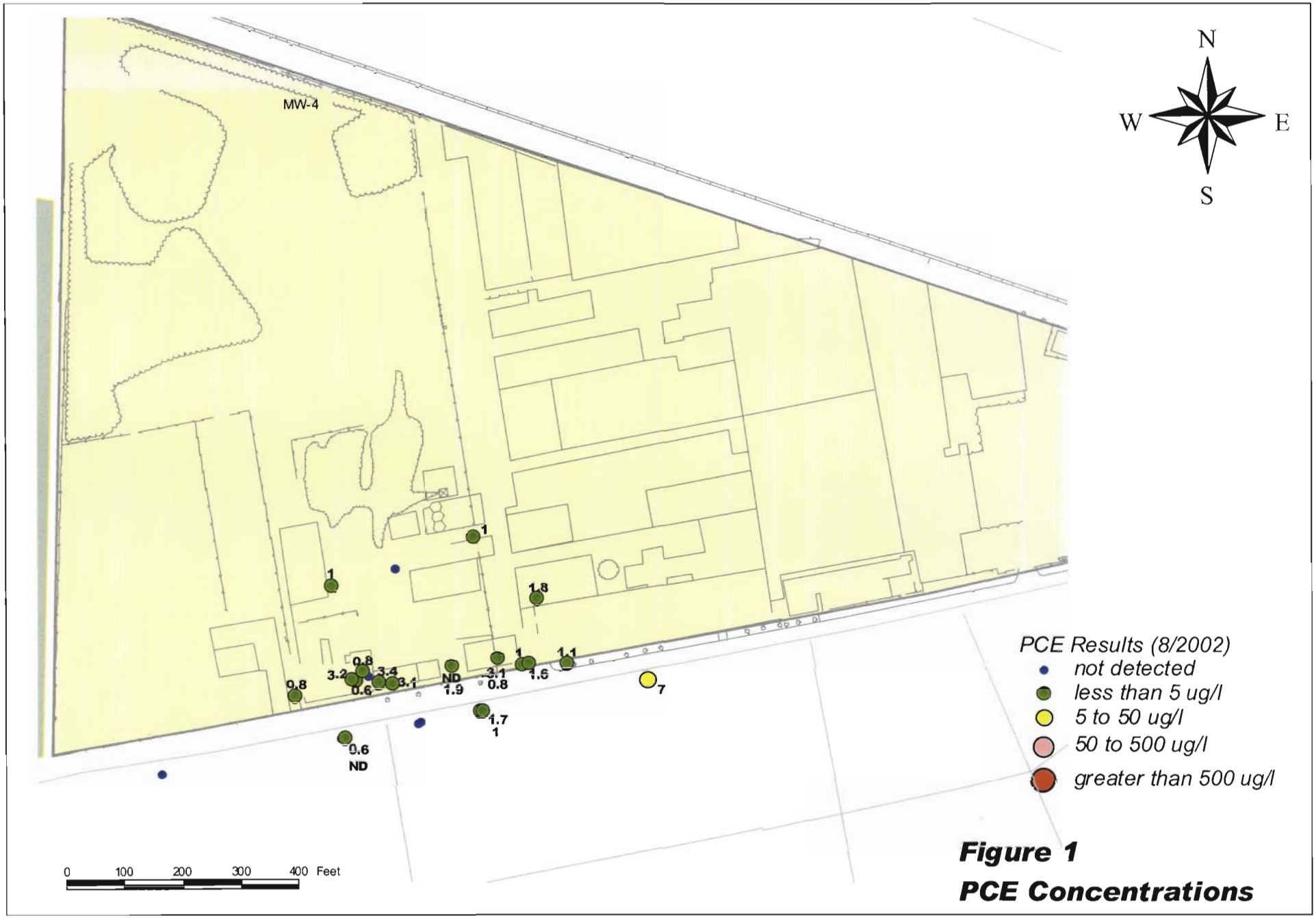


Figure 1
PCE Concentrations

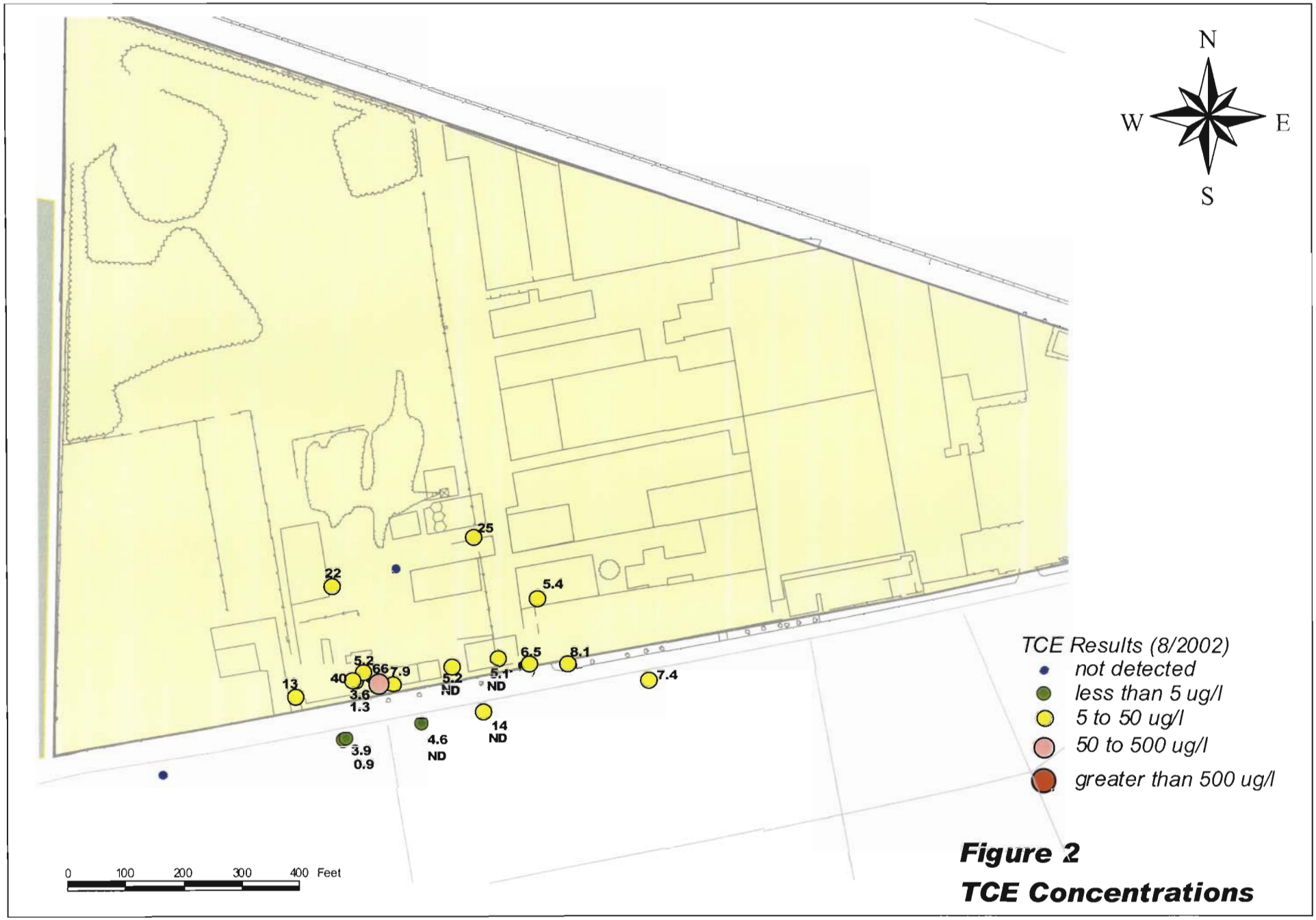


Figure 2
TCE Concentrations

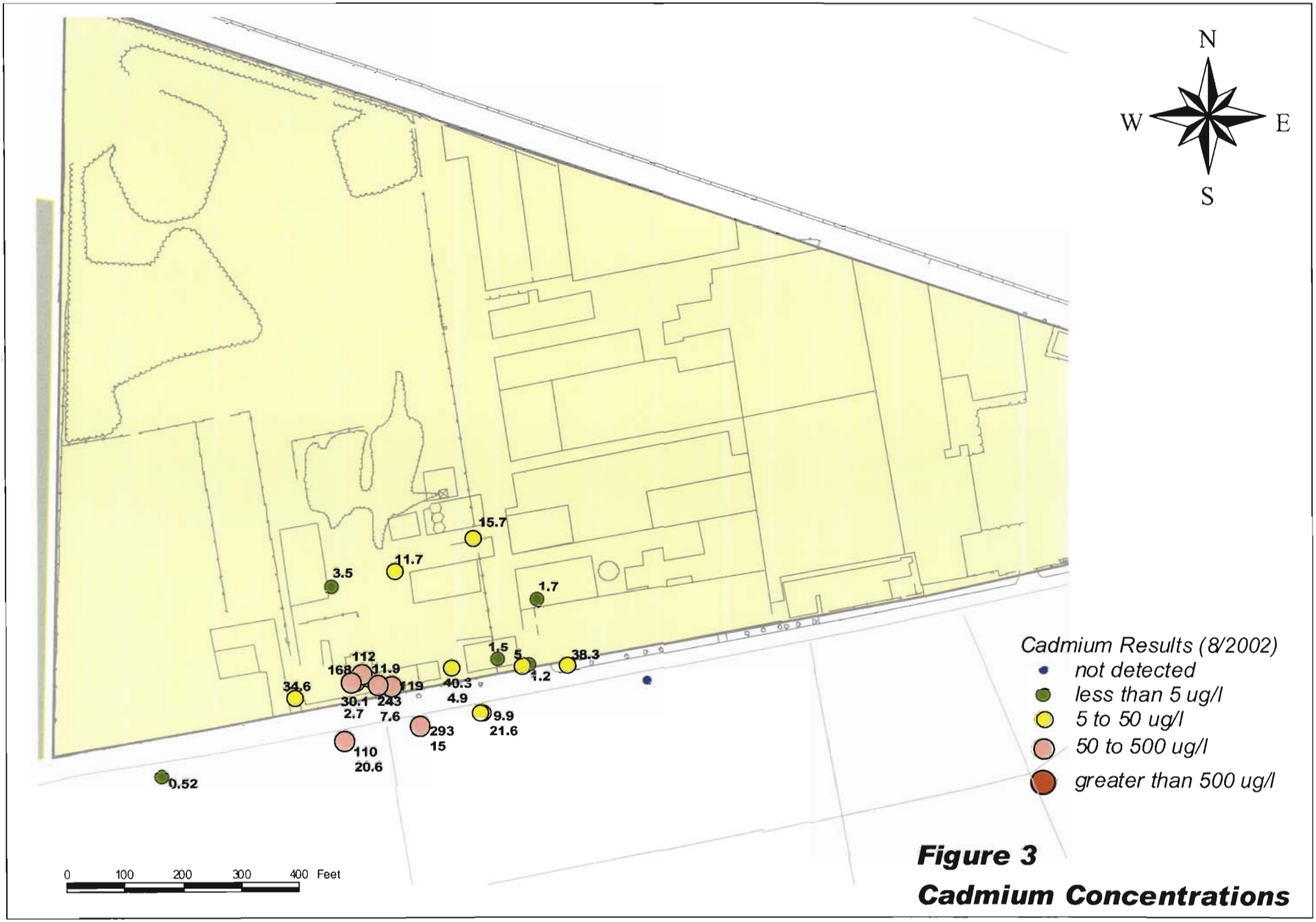


Figure 3
Cadmium Concentrations

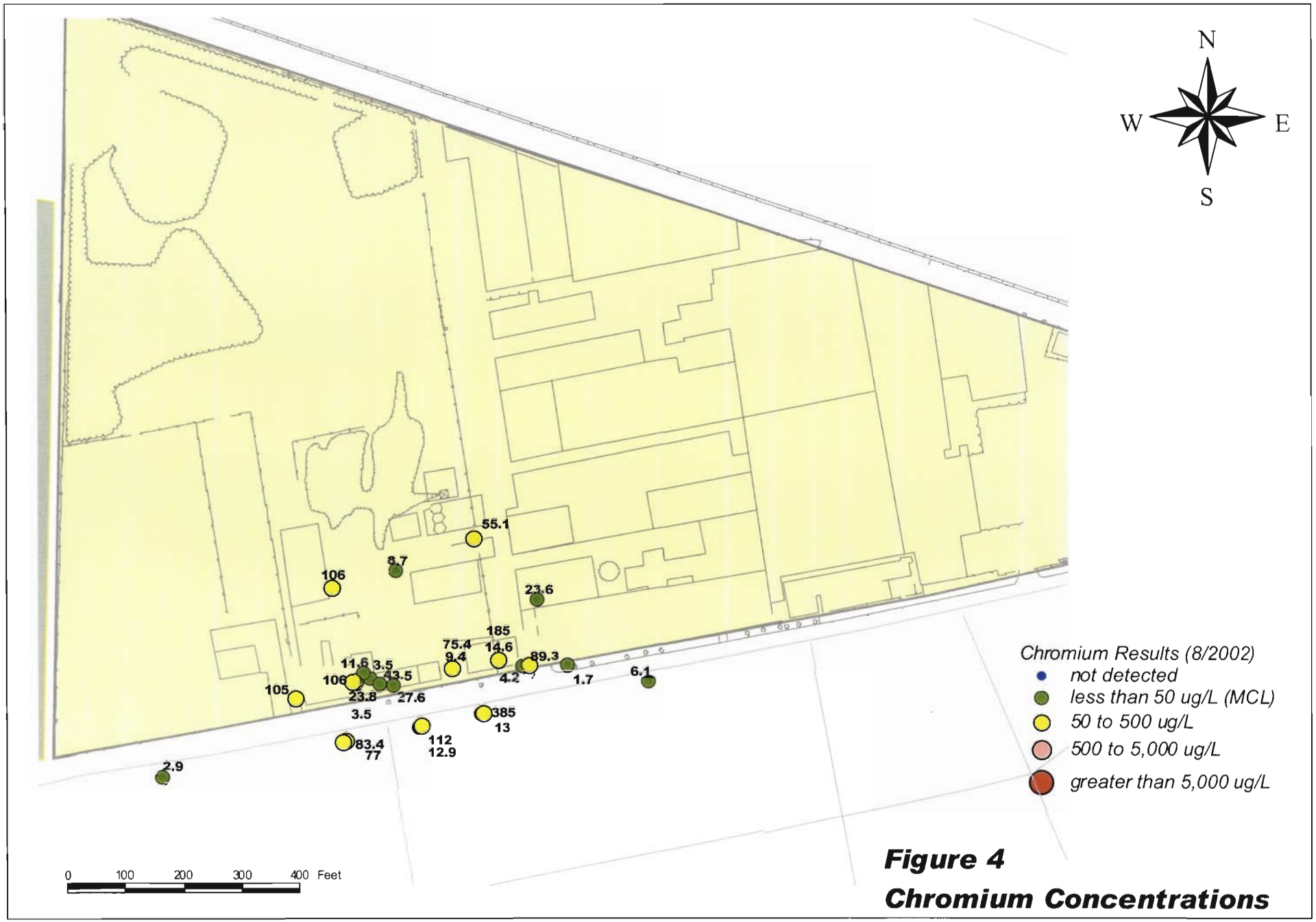


Figure 4
Chromium Concentrations

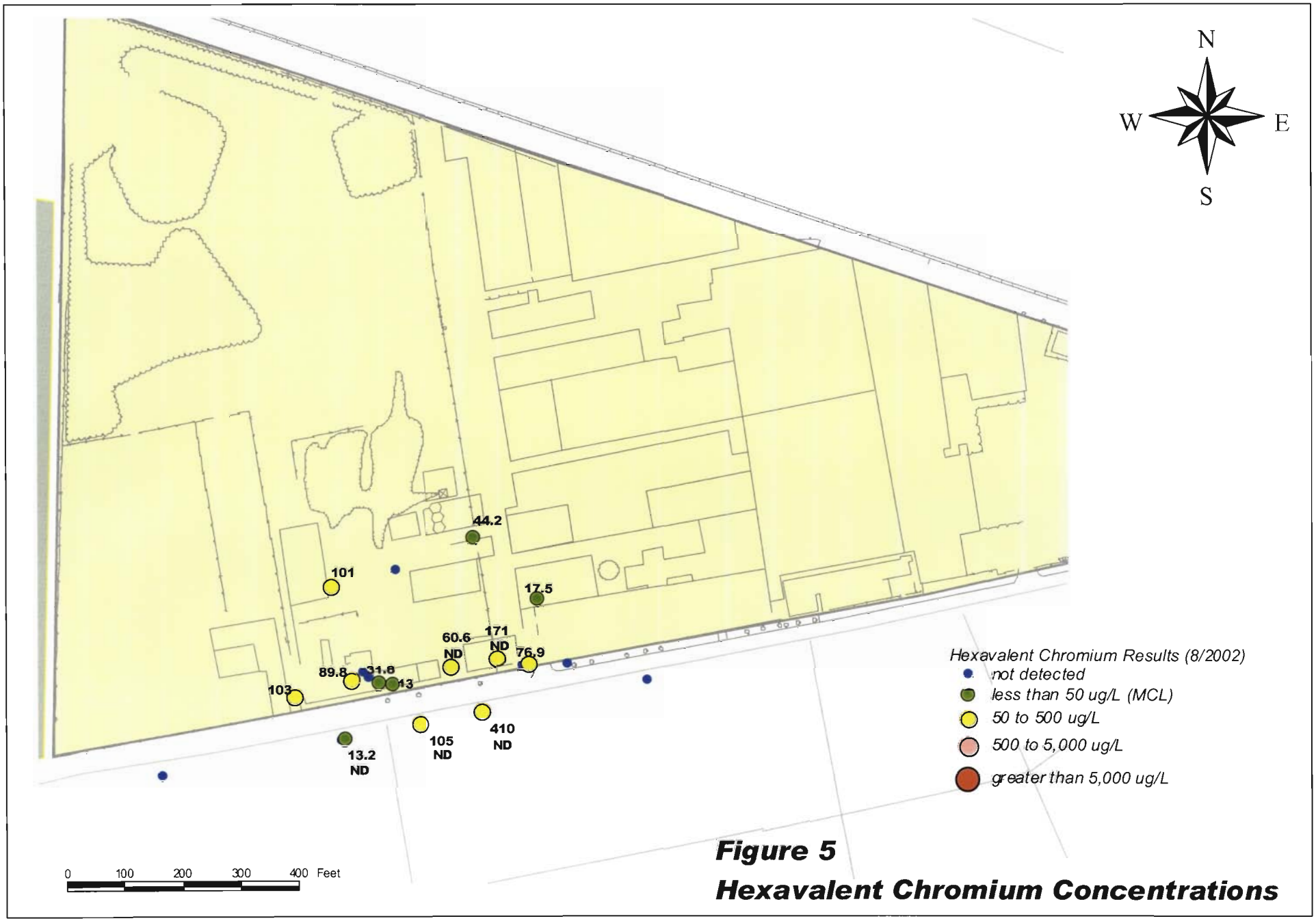


Figure 5

Hexavalent Chromium Concentrations

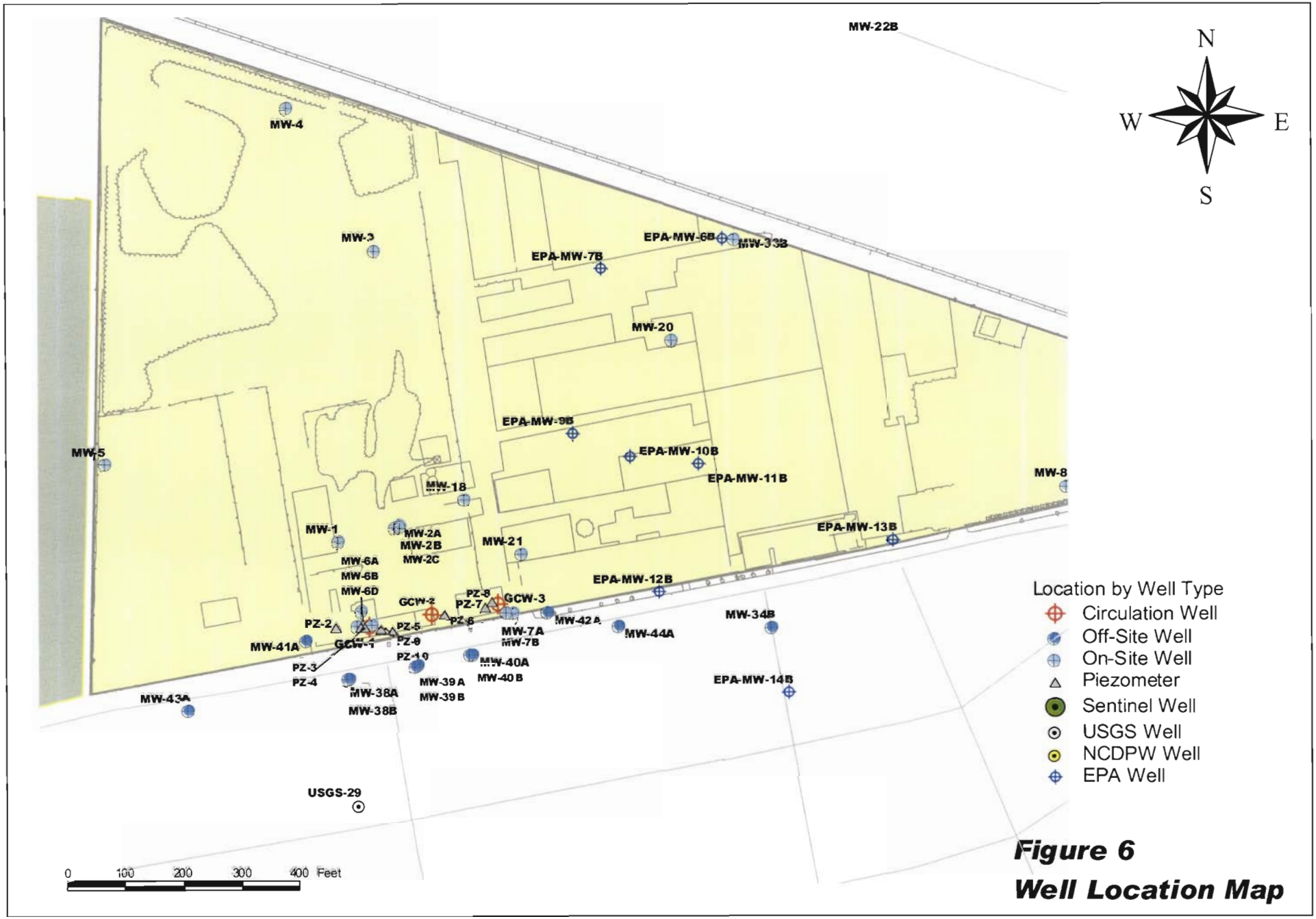


Figure 6

Well Location Map

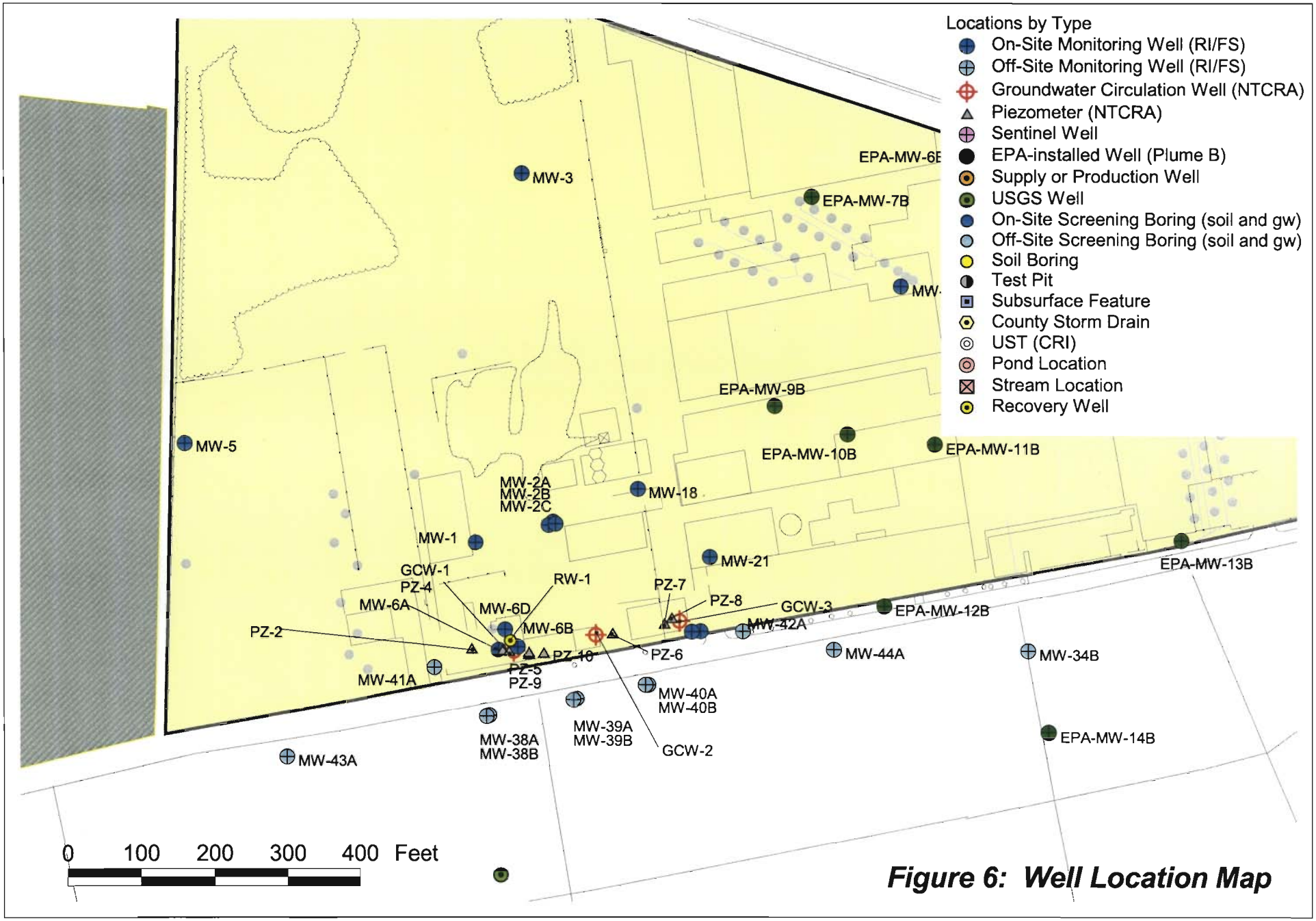


Figure 6: Well Location Map

Well ID	MW-1	Start	855	Team	KM, DC	
Date	8/7/2002	Finish	930	Diameter	4 inches	

Depth to Water	24.44 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	31.59 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	30 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.90 L/min	Comments	Sample collected @ 930		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

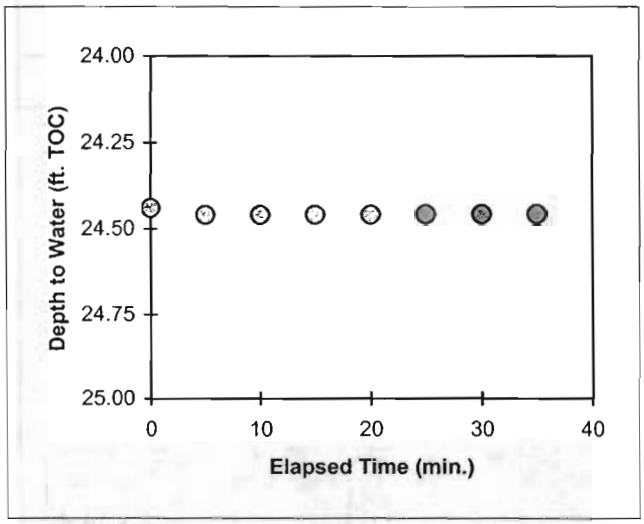
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	24.44						
5	24.46	5.83	217	15.00	0.171	6.76	2.8
10	24.46	5.89	215	15.09	0.168	5.83	2.3
15	24.46	5.92	215	14.98	0.168	5.70	2.3
20	24.46	5.94	216	14.91	0.172	5.56	2.0
25	24.46	5.96	216	14.98	0.176	5.38	2.0
30	24.46	5.97	216	14.93	0.177	5.34	1.9
35	24.46	5.98	217	14.94	0.179	5.37	1.9

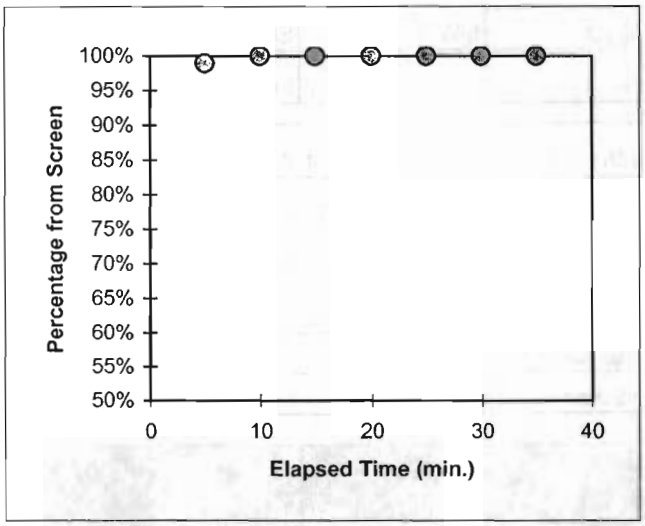
Analyses		
	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

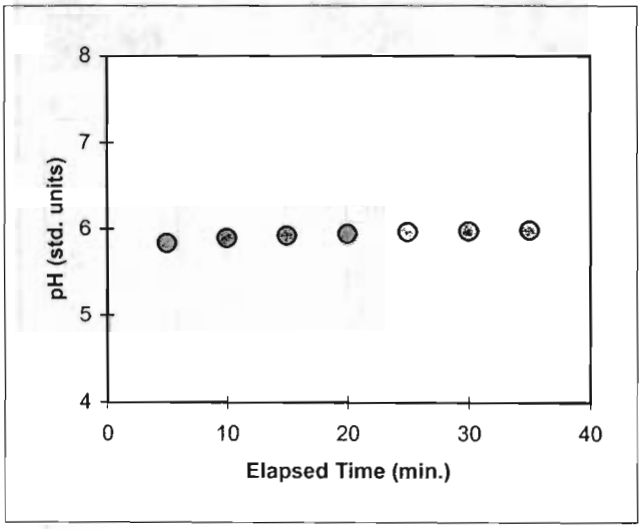
	clear	cloudy	turbid
Water Quality	X		

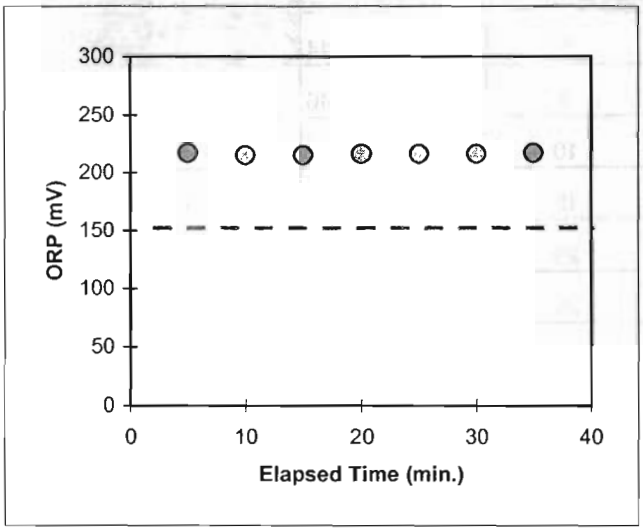
Post-sampling			
	CO_2		pct
	CH_4		pct
	O_2		pct

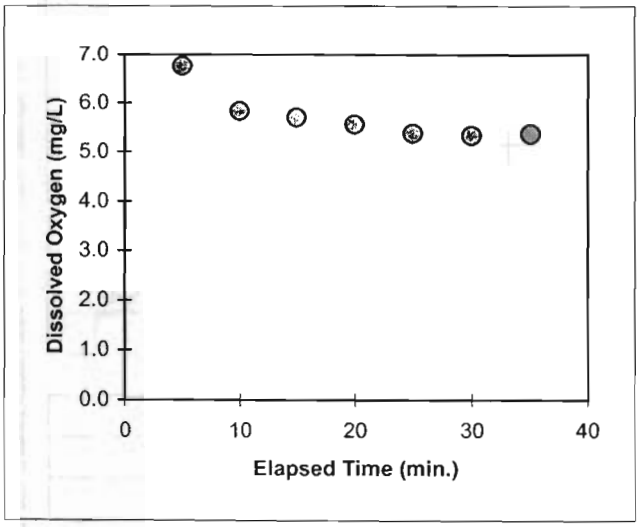
Duplicate		Shipped	8/7/2002	SDG	

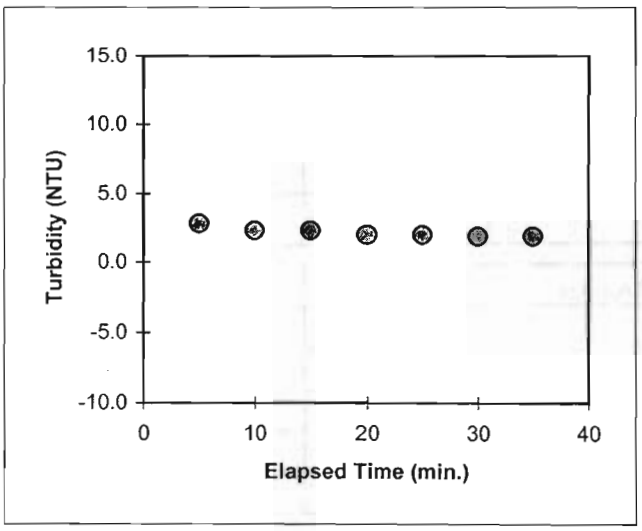

Depth to Water (ft. TOC)
24.00
24.25
24.50
24.75
25.00
0
10
20
30
40
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
70%
65%
60%
55%
50%
0
10
20
30
40
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
40
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
10
20
30
40
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0
10
20
30
40
Elapsed Time (min.)


Turbidity (NTU)
15.0
10.0
5.0
0.0
-5.0
-10.0
0
10
20
30
40
Elapsed Time (min.)

Well ID	MW-2B	Start	945	Team	KM DC	
Date	8/7/2002	Finish	1025	Diameter	4 inches	

Depth to Water	24.77 ft TOC		2-inch pump	X	Duplicate?	
Total Depth	62.73 ft TOC		Whale Pump		MS/MSD?	
Depth to Pump	58 ft TOC		Bailer		Split-Sample?	
Pump Rate	0.80 L/min		Comments	Sample Collected @ 1025		
adjusted to:	L/min	at	minutes			
adjusted to:	L/min	at	minutes			

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	24.77						
5	24.79	5.64	177	16.35	0.416	0.88	3.0
10	24.80	5.66	170	16.67	0.414	0.66	3.0
15	24.81	5.70	167	17.17	0.416	1.08	3.8
20	24.81	5.71	152	17.24	0.416	0.70	3.1
25	24.81	5.71	148	17.12	0.413	0.86	3.2
30	24.81	5.72	144	16.99	0.413	1.23	4.2
35	24.81	5.72	139	16.87	0.413	1.49	1.6
40	24.81	5.73	135	16.95	0.413	1.60	1.5

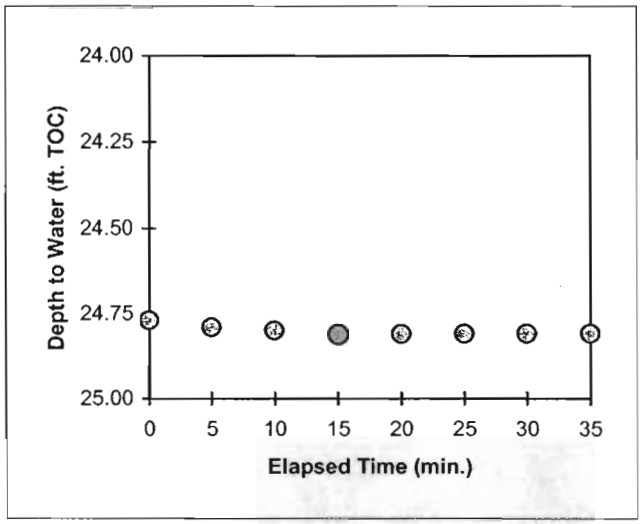
Analyses		
	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

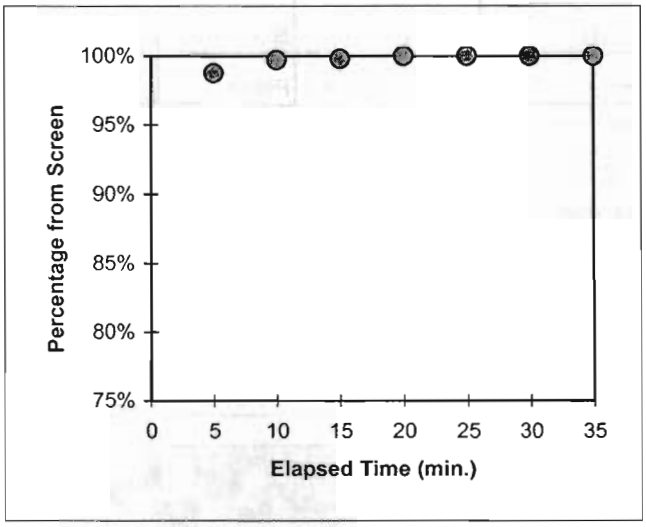
	clear	cloudy	turbid
Water Quality	X		

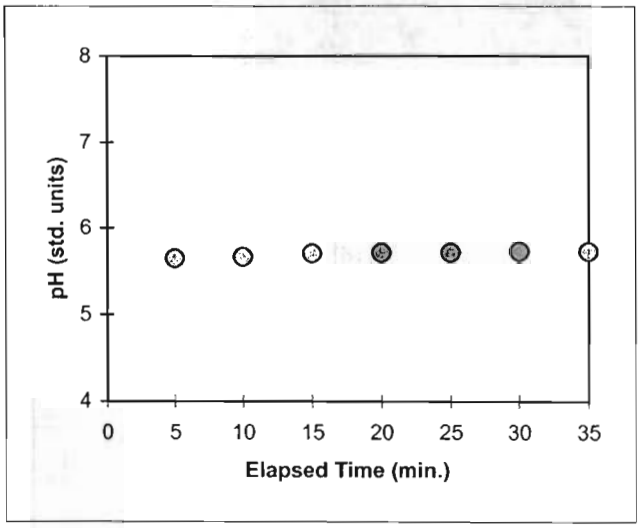
Post-sampling			
	CO_2		pct
	CH_4		pct
	O_2		pct

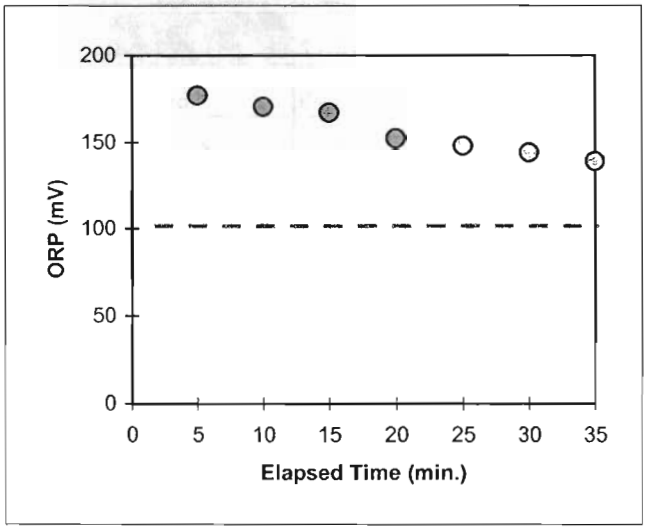
Duplicate	

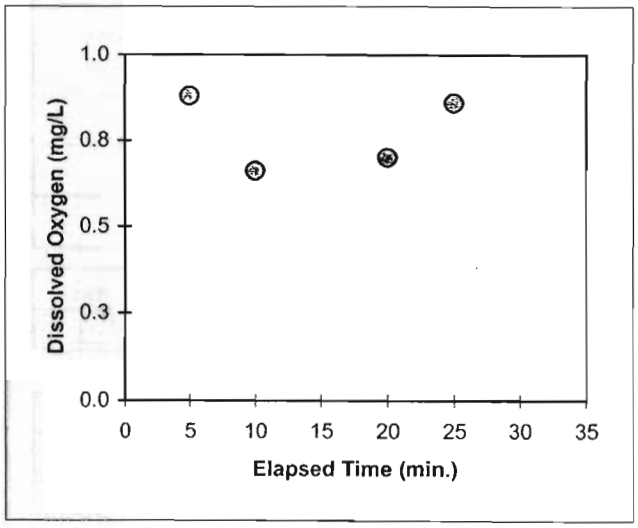
Shipped	8/7/2002	SDG	

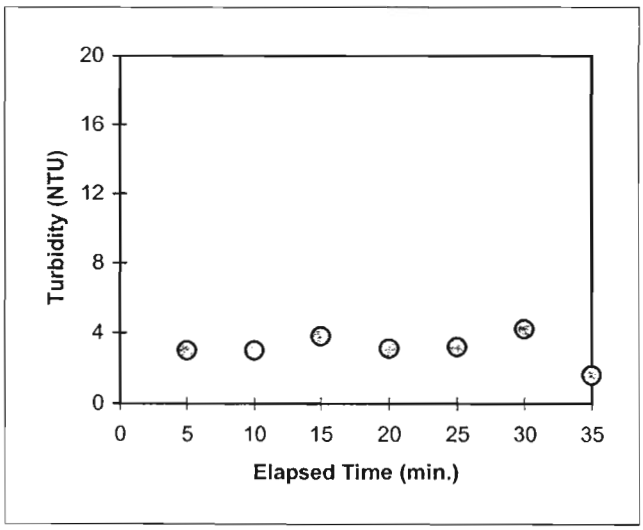

Depth to Water (ft. TOC)
24.00
24.25
24.50
24.75
25.00
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
5
10
15
20
25
30
35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
5
10
15
20
25
30
35
Elapsed Time (min.)


ORP (mV)
200
150
100
50
0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
1.0
0.8
0.5
0.3
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Turbidity (NTU)
20
16
12
8
4
0
0
5
10
15
20
25
30
35
Elapsed Time (min.)

Well ID	MW-6A	Start	1410	Team	KM DC	
Date	8/7/2002	Finish	1445	Diameter	4 inches	

Depth to Water	25.99 ft TOC		2-inch pump	X	Duplicate?
Total Depth	27.73 ft TOC		Whale Pump		MS/MSD?
Depth to Pump	26.5 ft TOC		Bailer		Split-Sample?
Pump Rate	0.90 L/min		Comments	Sample collected @ 1445	
adjusted to:	0.4 L/min	at 10	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	25.99						
5	26.02	6.00	221	17.01	0.317	2.36	3.9
10	26.21	6.01	205	17.37	0.316	6.32	3.7
15	26.23	6.04	170	20.48	0.316	7.63	9.0
20	26.11	6.07	168	19.24	0.316	7.62	4.2
25	26.06	6.09	165	19.00	0.315	7.08	4.2
30	26.05	6.09	163	19.19	0.316	7.14	1.7

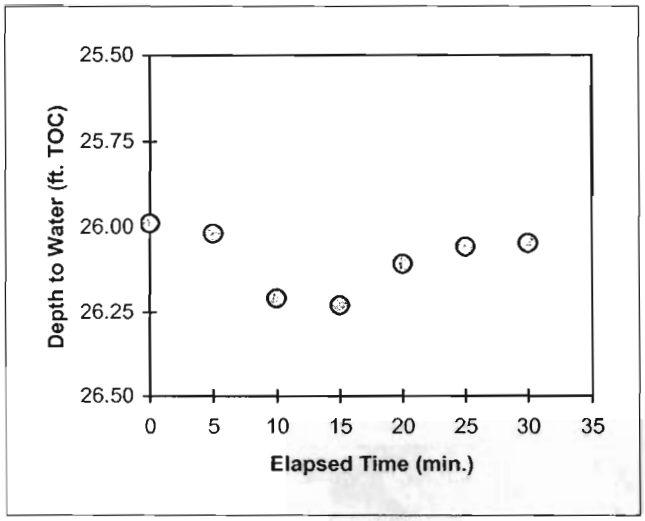
Analyses		
	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

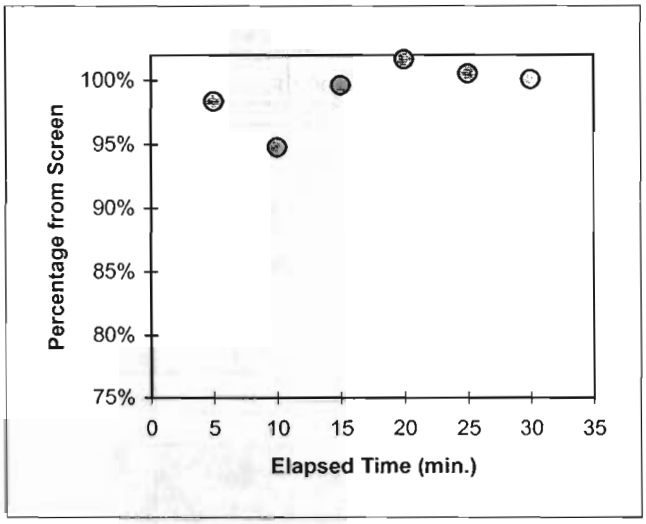
	clear	cloudy	turbid
Water Quality	X		

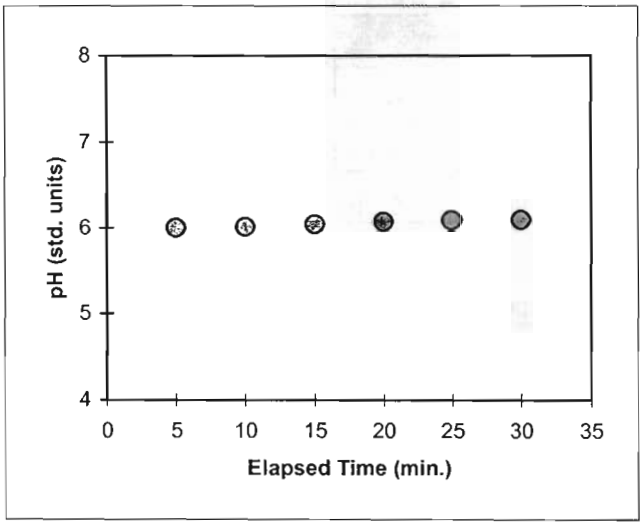
Post-sampling			
	CO_2		pct
	CH_4		pct
	O_2		pct

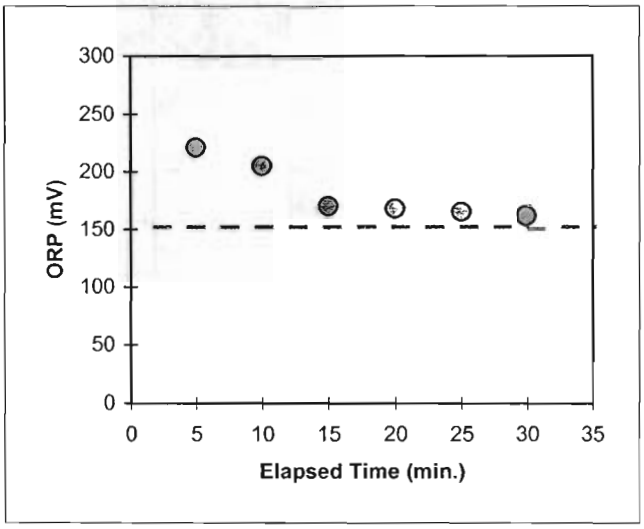
Duplicate	

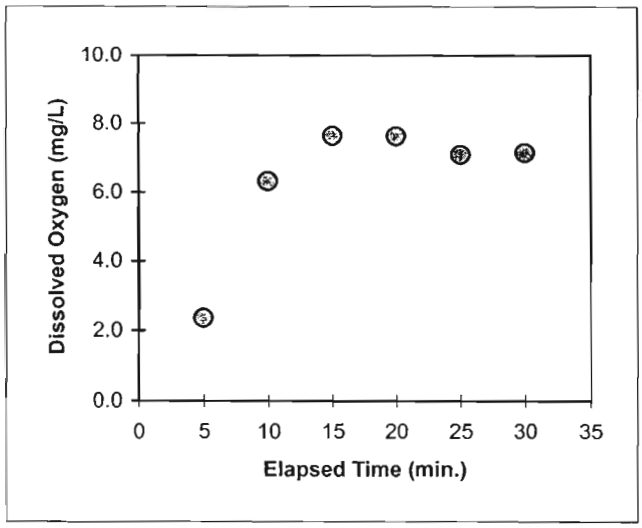
Shipped	8/7/2002	SDG	

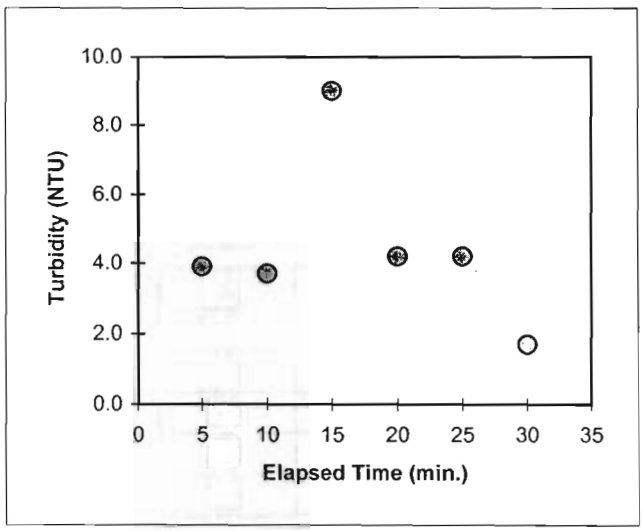

Depth to Water (ft. TOC)
25.50
25.75
26.00
26.25
26.50
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0 5 10 15 20 25 30 35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0 5 10 15 20 25 30 35
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Turbidity (NTU)
10.0
8.0
6.0
4.0
2.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)

Well ID	MW-6B	Start	1500	Team	KM DC	
Date	8/7/2002	Finish	1535	Diameter	4 inches	

Depth to Water	26.36 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	59.56 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	54.0 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.70 L/min	Comments	Sample collected @ 1535		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

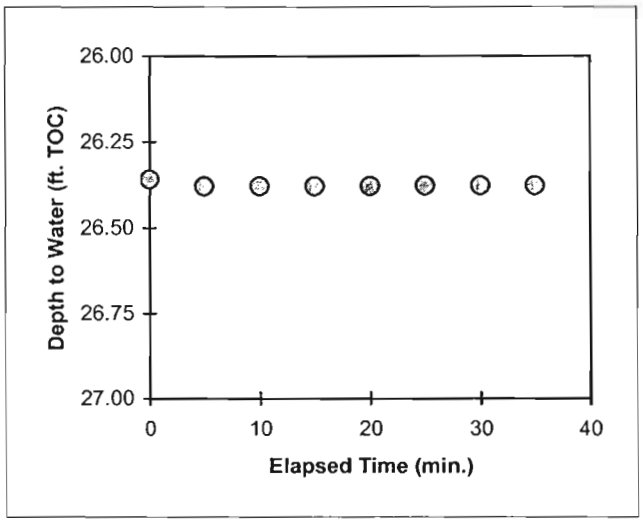
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	26.36						
5	26.38	5.56	202	17.10	0.404	3.03	10.8
10	26.38	5.59	197	17.31	0.403	3.22	8.3
15	26.38	5.60	190	17.55	0.401	3.26	6.7
20	26.38	5.60	187	17.32	0.400	3.26	7.3
25	26.38	5.62	184	17.38	0.398	3.22	4.7
30	26.38	5.64	181	17.54	0.396	3.22	5.8
35	26.38	5.63	181	17.55	0.397	3.26	4.7

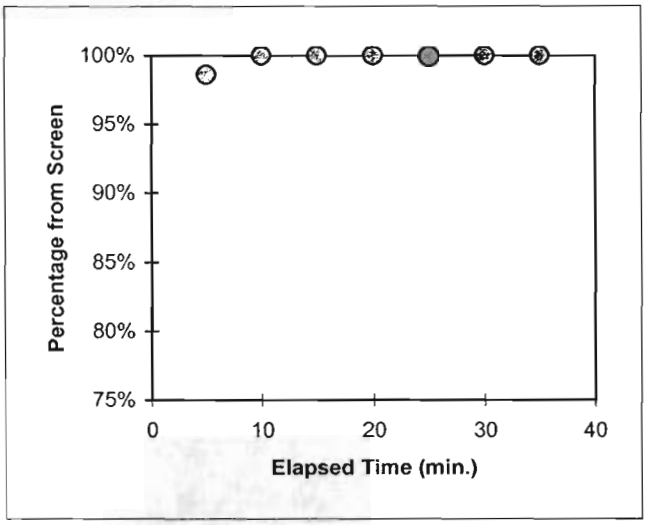
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

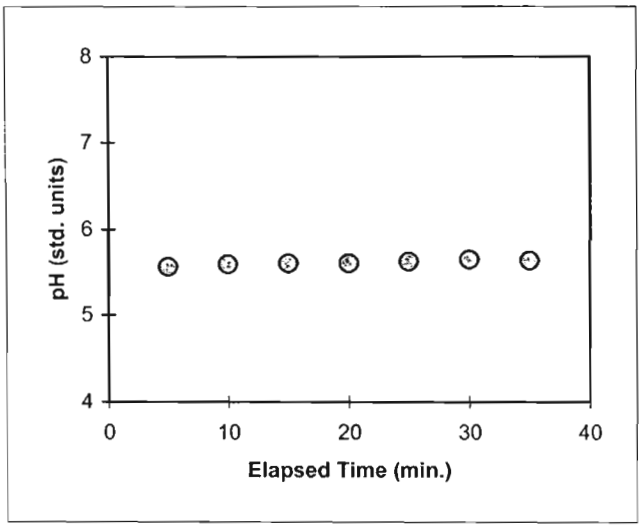
	clear	cloudy	turbid
Water Quality	X		

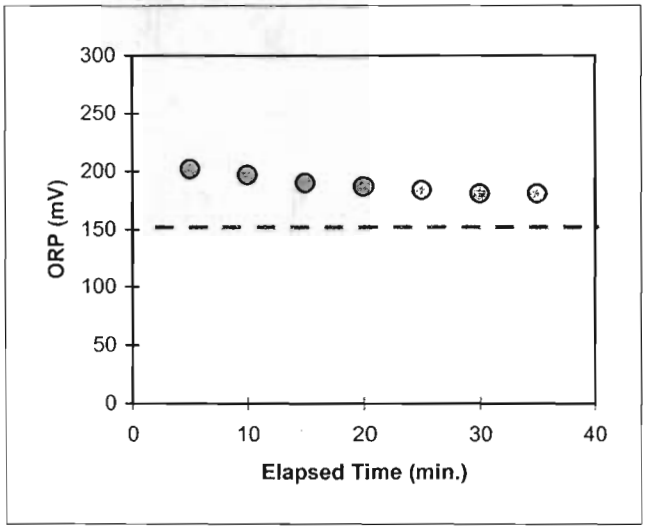
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

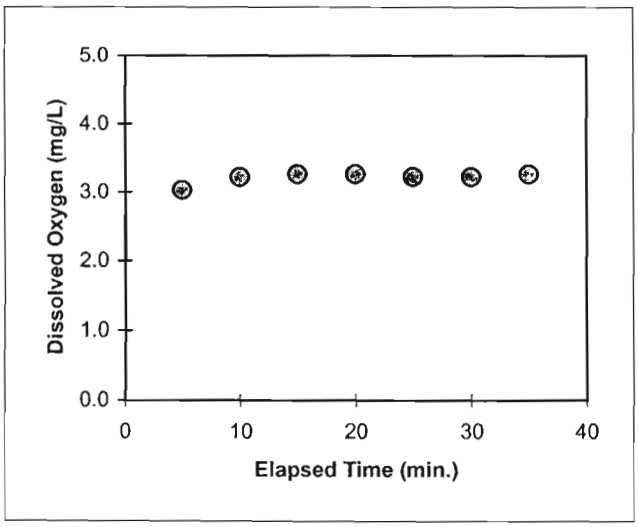
Duplicate			
Shipped	8/7/2002	SDG	

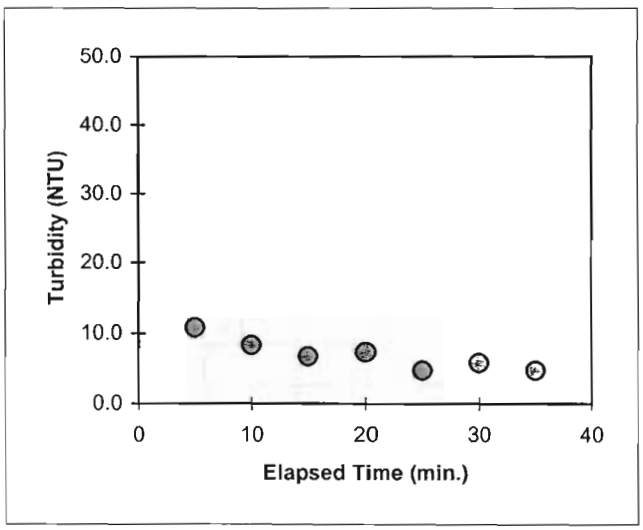

Depth to Water (ft. TOC)
26.00
26.25
26.50
26.75
27.00
0
10
20
30
40
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
40
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
40
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
10
20
30
40
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0
10
20
30
40
Elapsed Time (min.)


Turbidity (NTU)
50.0
40.0
30.0
20.0
10.0
0.0
0
10
20
30
40
Elapsed Time (min.)

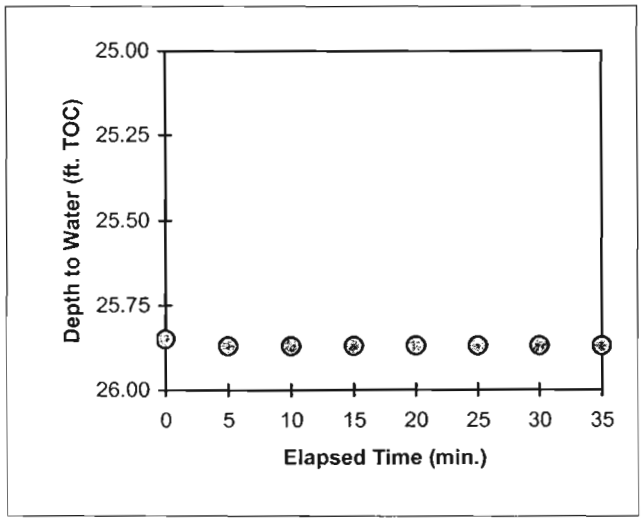
Well ID	MW-7A	Start	805	Team	KM	DC	DM
Date	8/6/2002	Finish	840	Diameter	4 inches		

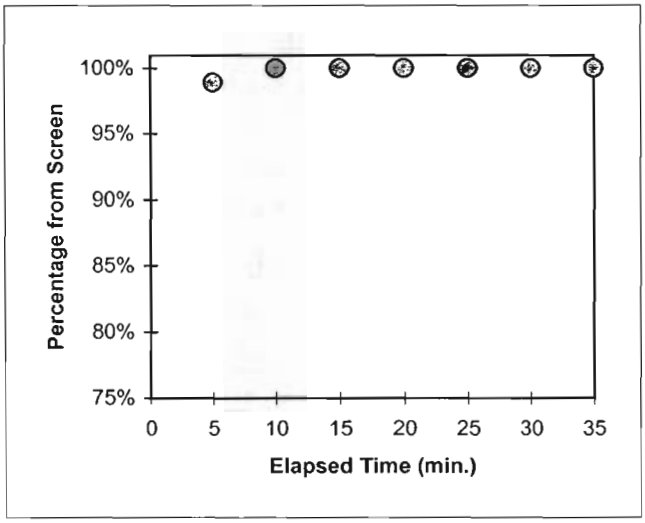
Depth to Water	25.85 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	27.82 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	26.8 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.90 L/min	Comments	Sample collected @ 0845		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

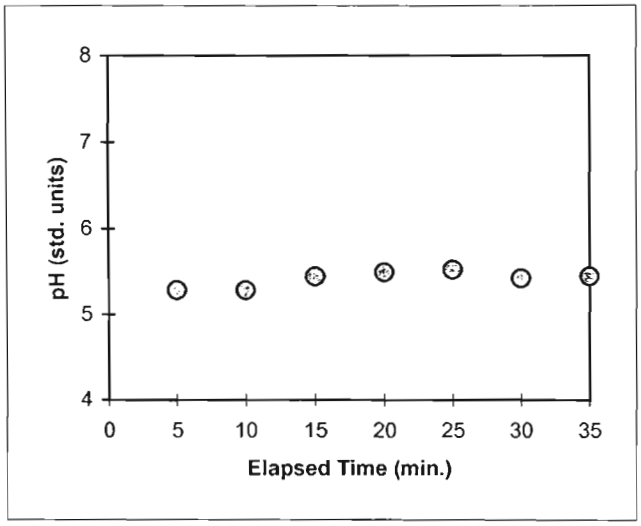
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	25.85						
5	25.87	5.28	324	17.40	0.339	5.82	4.1
10	25.87	5.28	332	17.46	0.337	5.68	3.8
15	25.87	5.44	333	17.43	0.334	5.52	3.6
20	25.87	5.49	333	17.54	0.336	5.50	3.6
25	25.87	5.52	334	17.62	0.334	5.45	3.7
30	25.87	5.42	341	17.54	0.335	5.55	6.8
35	25.87	5.44	342	17.74	0.334	5.54	7.3

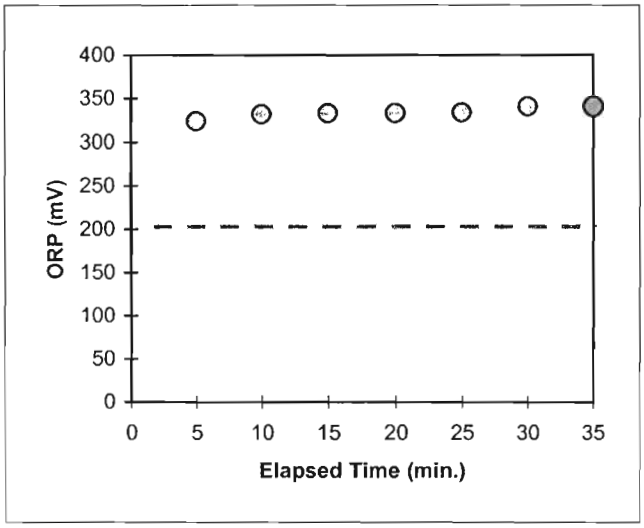
Analyses	TCL VOCs	X		clear	cloudy	turbid
	Cd, Cr, Fe	X	Water Quality	X		
	Cr-VI	X				
			Post-sampling	CO_2		pct
				CH_4		pct
				O_2		pct

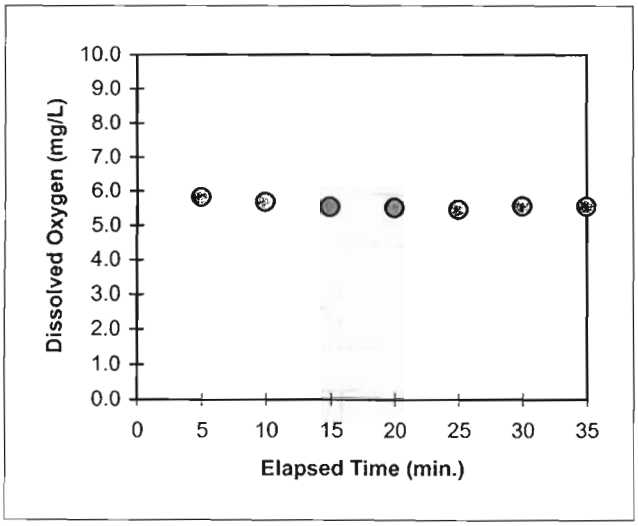
Duplicate		Shipped	8/6/2002	SDG	

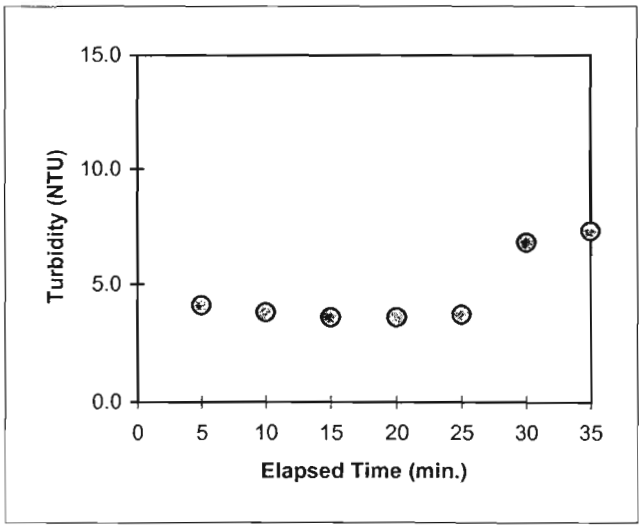

Depth to Water (ft. TOC)
25.00
25.25
25.50
25.75
26.00
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
5
10
15
20
25
30
35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
5
10
15
20
25
30
35
Elapsed Time (min.)


ORP (mV)
400
350
300
250
200
150
100
50
0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Turbidity (NTU)
15.0
10.0
5.0
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)

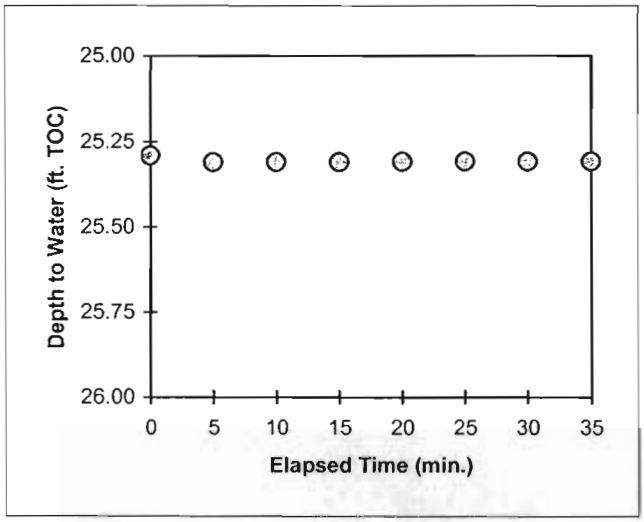
Well ID	MW-7B	Start	855	Team	KM DC DM
Date	8/6/2002	Finish	935	Diameter	4 inches

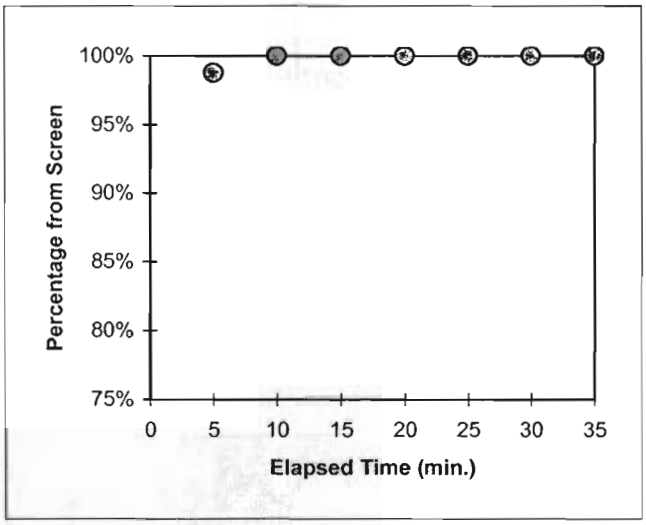
Depth to Water	25.29 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	61.73 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	58 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.80 L/min	Comments	Sample collected @ 0930		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

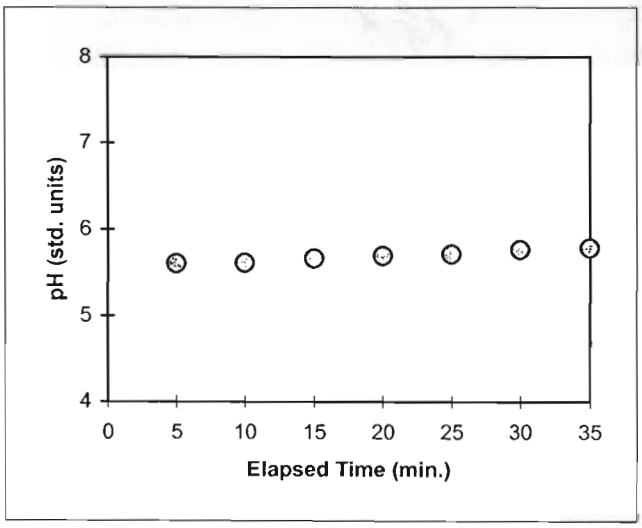
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	25.29						
5	25.31	5.60	186	17.33	0.496	0.71	8.6
10	25.31	5.61	194	17.40	0.499	0.6	5.8
15	25.31	5.66	196	17.45	0.501	0.55	4.2
20	25.31	5.69	197	17.57	0.502	0.5	2.8
25	25.31	5.71	198	17.60	0.502	0.47	2.6
30	25.31	5.76	193	17.62	0.502	0.47	1.3
35	25.31	5.78	191	17.58	0.501	0.47	2.0
40	25.31	5.79	187	17.66	0.500	0.48	0.0

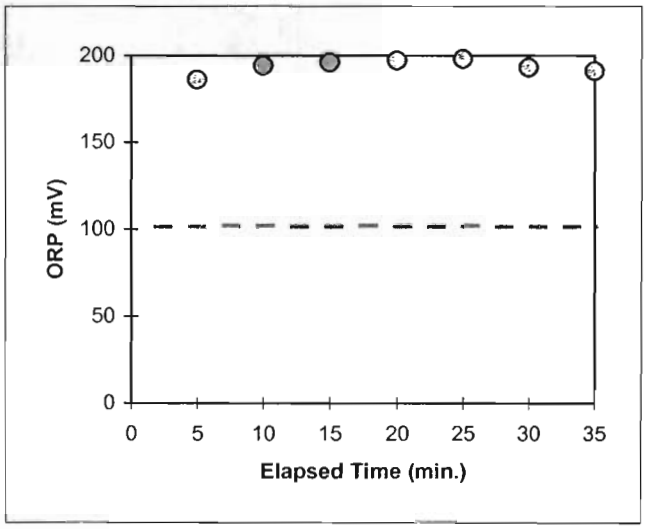
Analyses	TCL VOCs	X		clear	cloudy	turbid
	Cd, Cr, Fe	X	Water Quality	X		
	Cr-VI	X				
			Post-sampling	CO_2		pct
				CH_4		pct
				O_2		pct

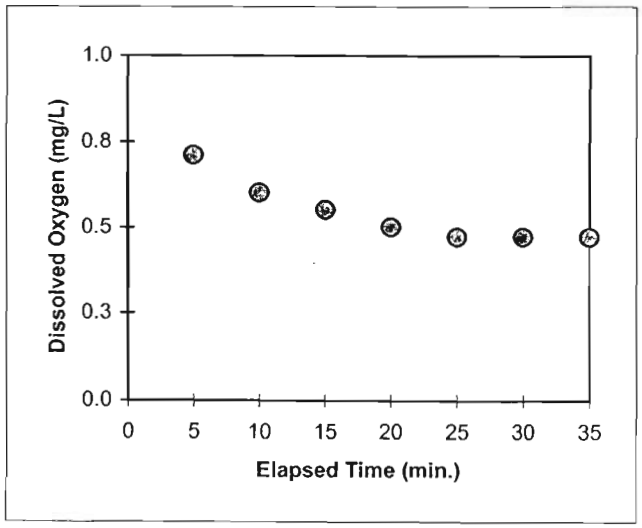
Duplicate		Shipped	8/6/2002	SDG	

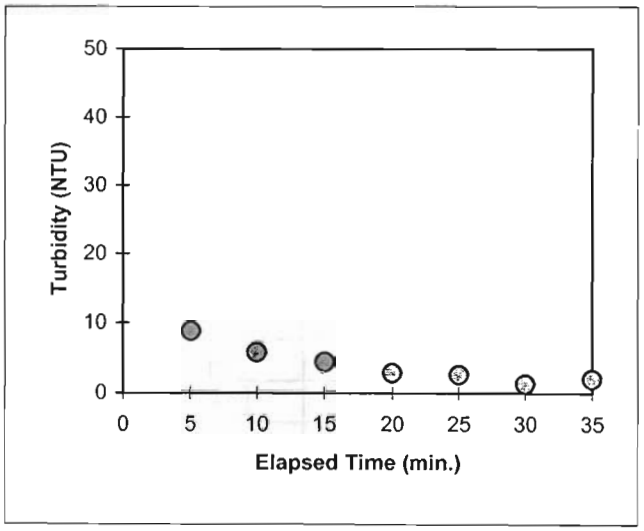

Depth to Water (ft. TOC)
25.00
25.25
25.50
25.75
26.00
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
5
10
15
20
25
30
35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
5
10
15
20
25
30
35
Elapsed Time (min.)


ORP (mV)
200
150
100
50
0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
1.0
0.8
0.5
0.3
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Turbidity (NTU)
50
40
30
20
10
0
0
5
10
15
20
25
30
35
Elapsed Time (min.)

Well ID	MW-18	Start	1040	Team	KM DC	
Date	8/7/2002	Finish	1115	Diameter	4 inches	

Depth to Water	25.60 ft TOC		2-inch pump	X	Duplicate?	
Total Depth	27.79 ft TOC		Whale Pump		MS/MSD?	
Depth to Pump	26 ft TOC		Bailer		Split-Sample?	
Pump Rate	0.90 L/min		Comments	Sample Collected @ 1115		
adjusted to:	L/min	at	minutes			
adjusted to:	L/min	at	minutes			

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	25.60						
5	25.62	5.91	197	17.29	0.296	6.63	8.2
10	25.62	5.91	202	17.47	0.296	6.57	4.9
15	25.62	5.91	205	17.37	0.295	6.55	3.3
20	25.63	5.91	210	17.34	0.295	6.53	2.5
25	25.63	5.92	212	17.40	0.295	6.51	2.0
30	25.63	5.92	214	17.55	0.294	6.58	1.6
35	25.63	5.93	216	17.36	0.294	6.54	1.4

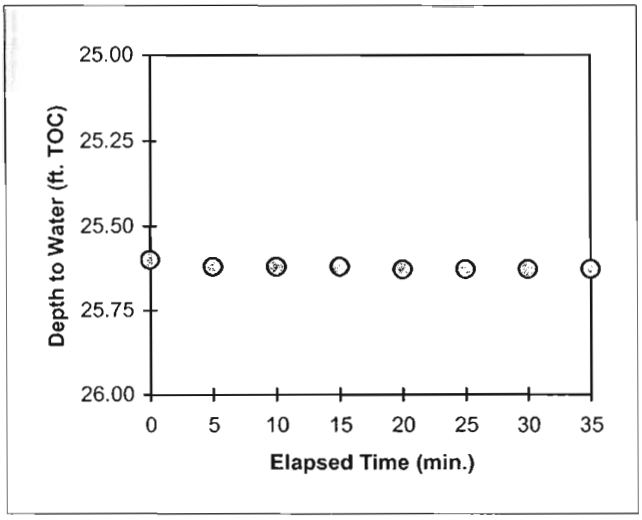
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

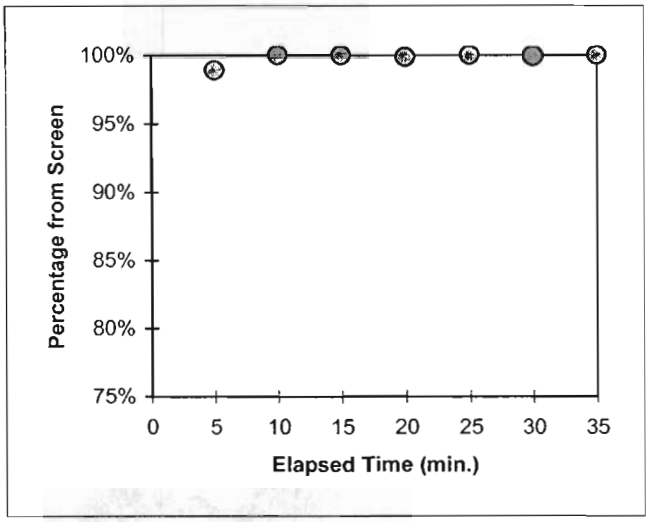
	clear	cloudy	turbid
Water Quality	X		

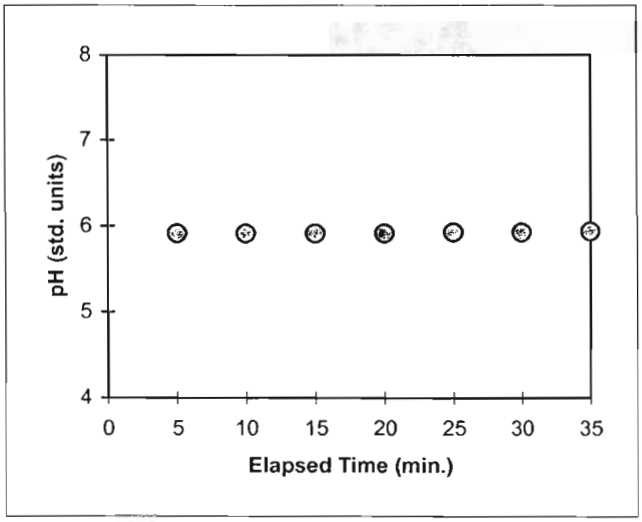
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

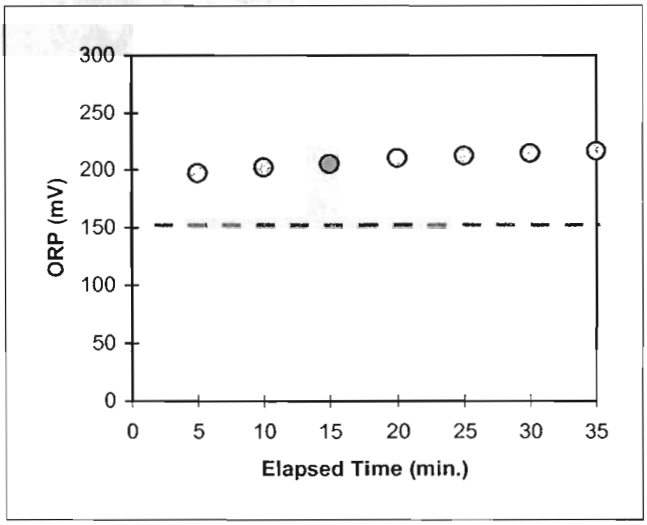
Duplicate			

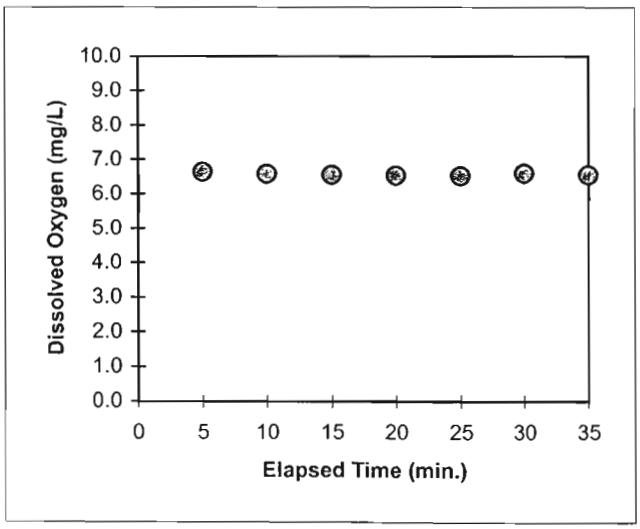
Shipped	8/7/2002	SDG	

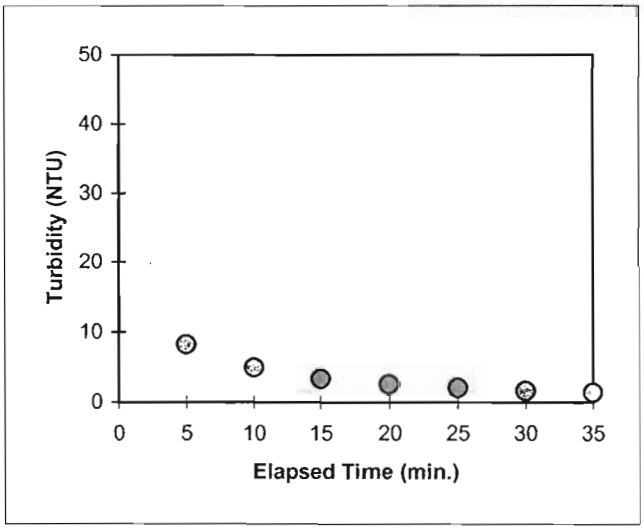

Depth to Water (ft. TOC)
25.00
25.25
25.50
25.75
26.00
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0 5 10 15 20 25 30 35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0 5 10 15 20 25 30 35
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Turbidity (NTU)
50
40
30
20
10
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)

Well ID	MW-21	Start	1130	Team	KM DC	
Date	8/7/2002	Finish	1210	Diameter	4 inches	

Depth to Water	23.96 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	28.44 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	27 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.70 L/min	Comments	Sample Collected @ 1210		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	23.96						
5	23.98	6.25	184	17.47	0.320	5.57	2.7
10	23.98	6.27	190	17.73	0.319	5.51	2.1
15	23.98	6.27	192	17.86	0.320	5.51	2.0
20	23.98	6.28	193	17.90	0.321	5.53	2.0
25	23.98	6.28	199	17.73	0.321	5.39	1.9
30	23.98	6.29	200	17.84	0.324	5.43	1.8
35	23.98	6.28	200	17.87	0.323	5.44	1.6
40	23.98	6.29	199	17.98	0.324	5.48	1.7

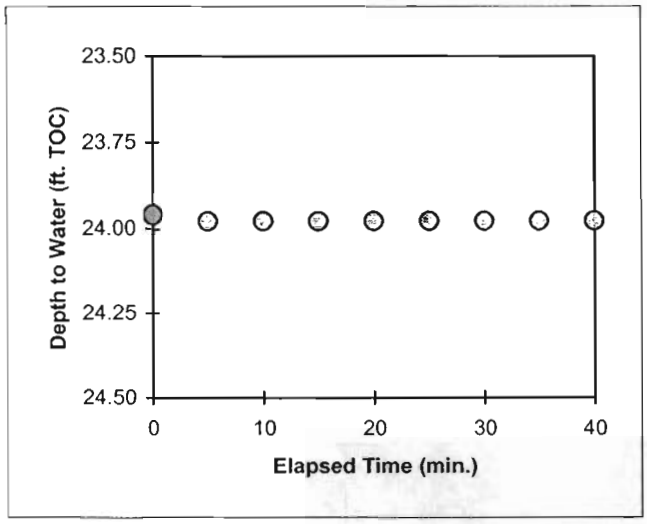
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

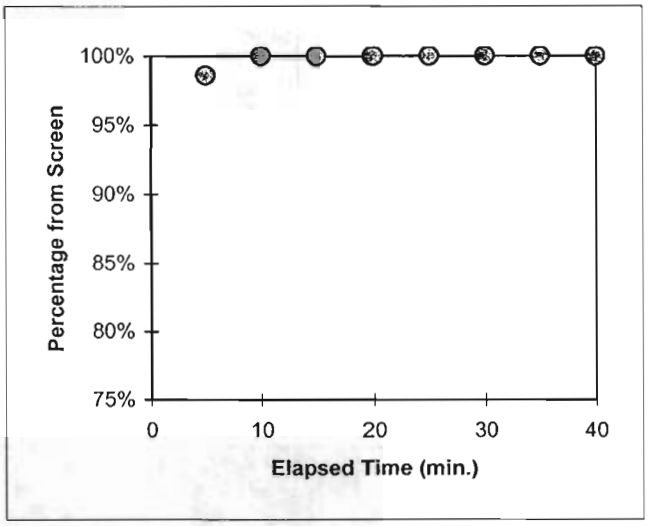
	clear	cloudy	turbid
Water Quality	X		

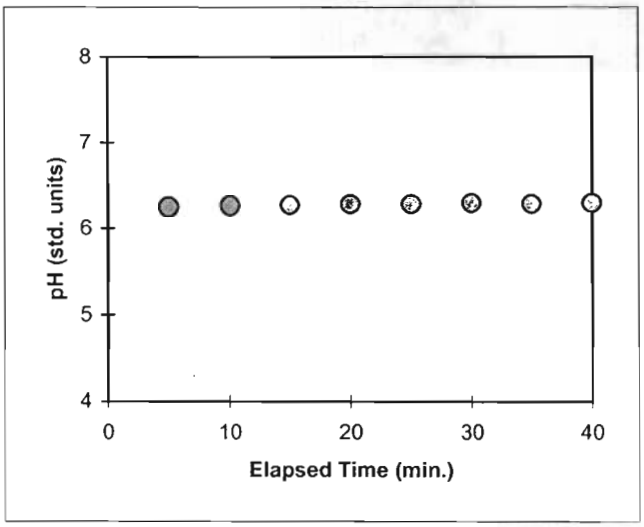
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

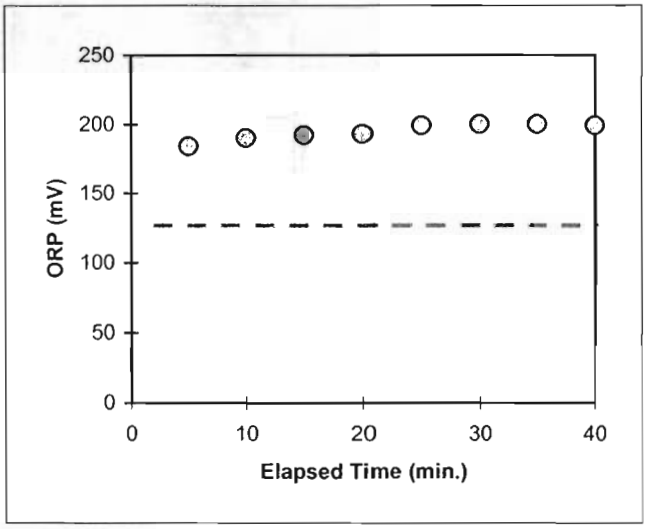
Duplicate	

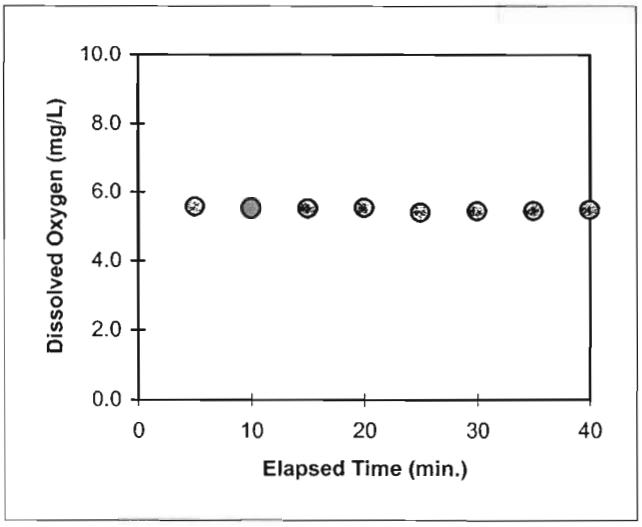
Shipped	8/7/2002	SDG	

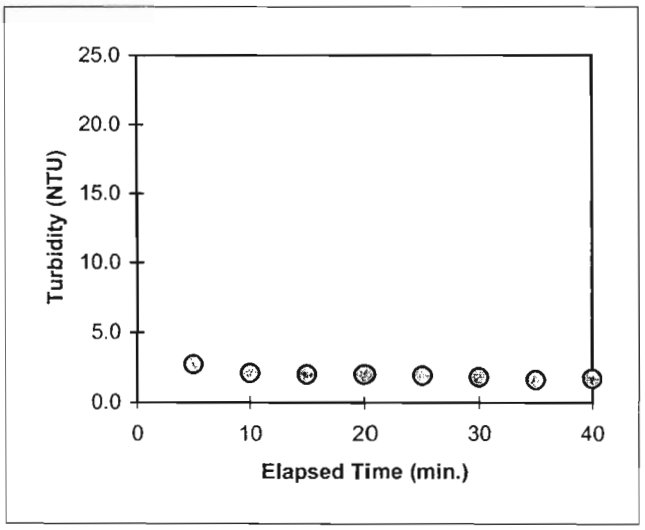

Depth to Water (ft. TOC)
23.50
23.75
24.00
24.25
24.50
0
10
20
30
40
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
40
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
40
Elapsed Time (min.)


ORP (mV)
250
200
150
100
50
0
0
10
20
30
40
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
0
10
20
30
40
Elapsed Time (min.)


Turbidity (NTU)
25.0
20.0
15.0
10.0
5.0
0.0
0
10
20
30
40
Elapsed Time (min.)

Well ID	MW-38A	Start	945	Team	KM DC	
Date	8/8/2002	Finish	1010	Diameter	2 inches	

Depth to Water	22.61 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	29.45 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	28.0 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.60 L/min	Comments	Sample collected @ 1010		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	22.61						
5	22.63	5.92	208	17.03	0.399	2.62	46.4
10	22.63	5.95	204	17.45	0.391	2.35	25.5
15	22.63	5.96	204	17.59	0.387	2.41	11.8
20	22.63	5.97	204	17.49	0.393	2.7	9.6
25	22.63	5.98	204	17.58	0.395	2.94	9.8

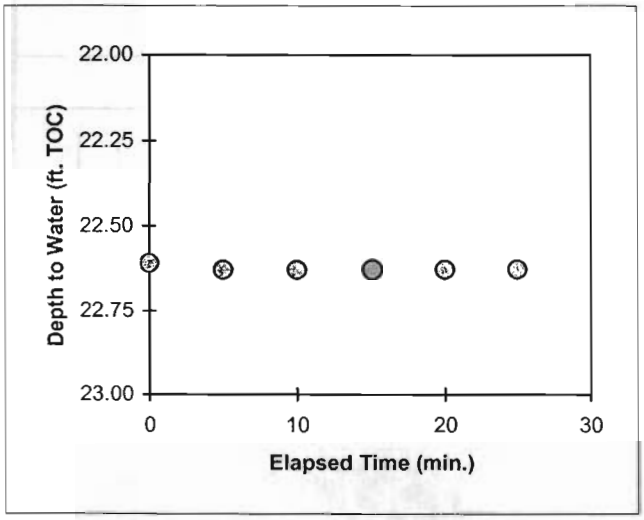
Analyses		
	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

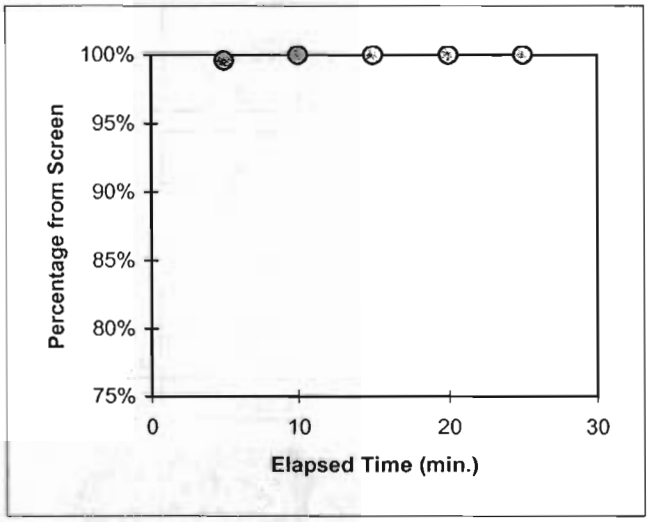
	clear	cloudy	turbid
Water Quality	X		

Post-sampling			
	CO_2		pct
	CH_4		pct
	O_2		pct

Duplicate	

Shipped	8/8/2002	SDG	


Depth to Water (ft. TOC)
22.00
22.25
22.50
22.75
23.00
0
10
20
30
Elapsed Time (min.)


Percentage from Screen
100%
95%
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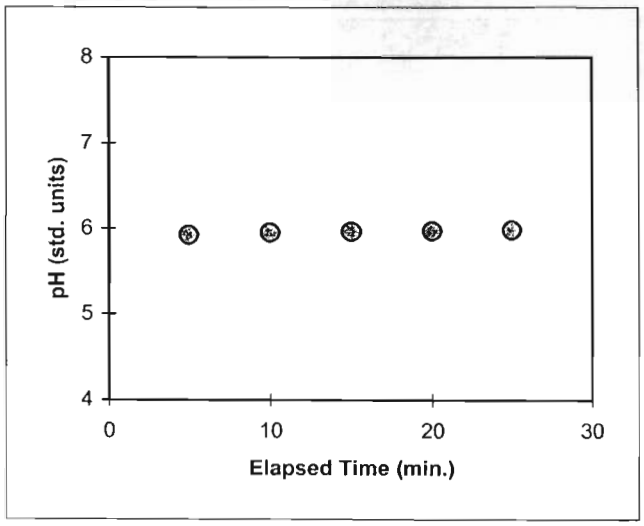
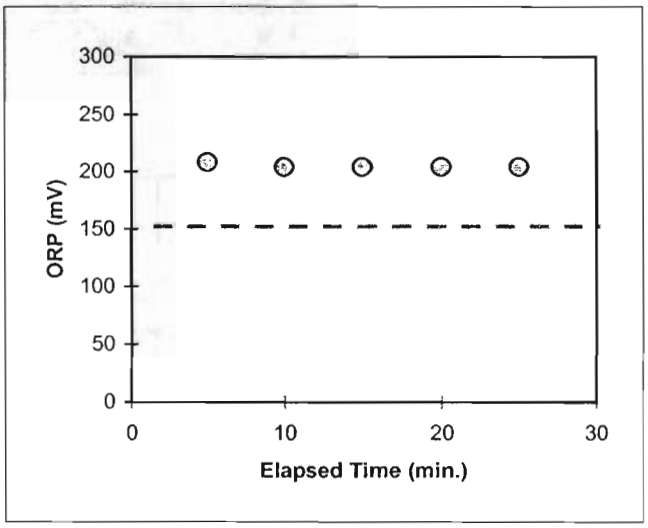
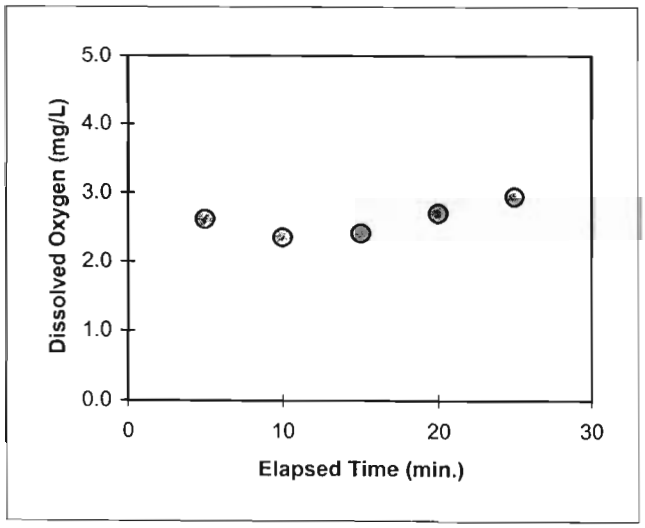
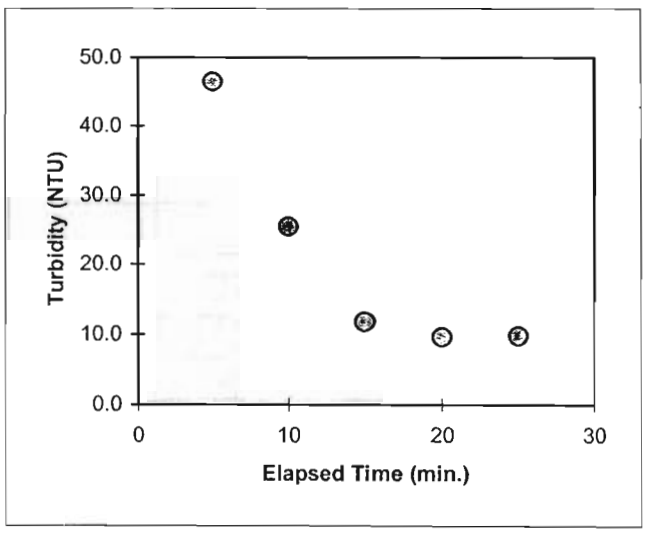
85%
80%
75%
0
10
20
30
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
10
20
30
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0
10
20
30
Elapsed Time (min.)


Turbidity (NTU)
50.0
40.0
30.0
20.0
10.0
0.0
0
10
20
30
Elapsed Time (min.)

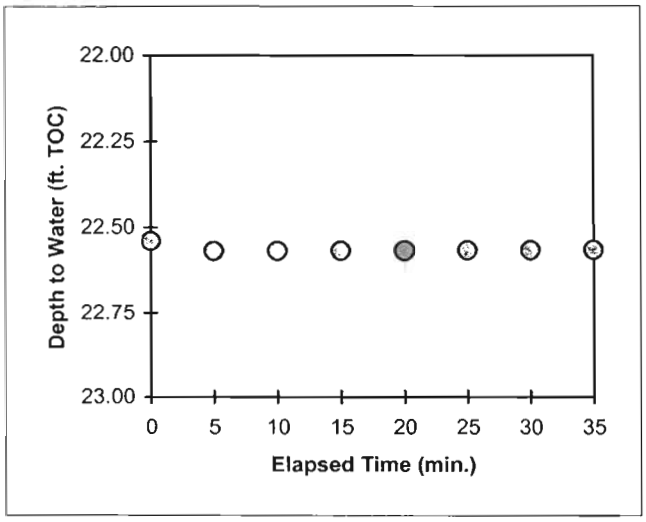
Well ID	MW-38B	Start	905	Team	KM DC	
Date	8/8/2002	Finish	940	Diameter	2 inches	

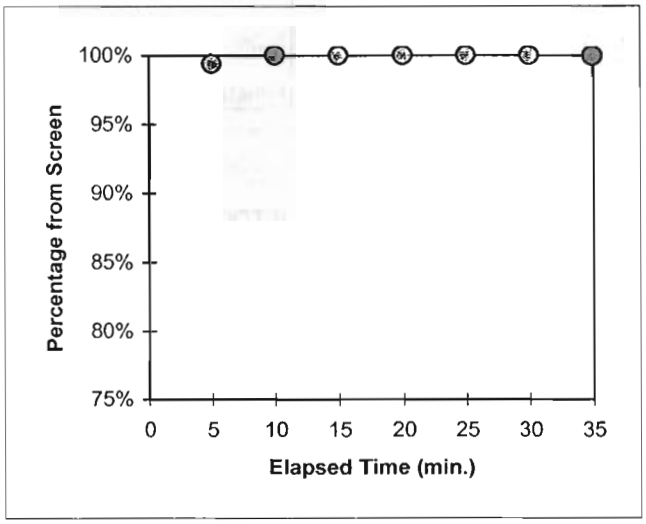
Depth to Water	22.54 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	58.68 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	54 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.60 L/min	Comments	Sample collected @ 940		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

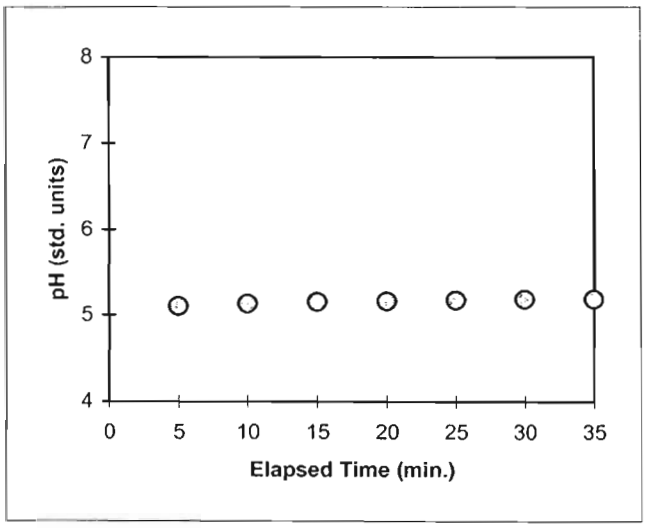
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	22.54						
5	22.57	5.10	220	16.47	0.298	3.08	381.0
10	22.57	5.13	204	16.67	0.319	3.71	717.0
15	22.57	5.15	204	16.88	0.330	3.92	435.0
20	22.57	5.16	209	16.99	0.338	4.21	271.0
25	22.57	5.17	216	17.08	0.343	4.34	176.0
30	22.57	5.18	222	17.24	0.346	4.41	132.0
35	22.57	5.18	228	17.17	0.348	4.46	93.6

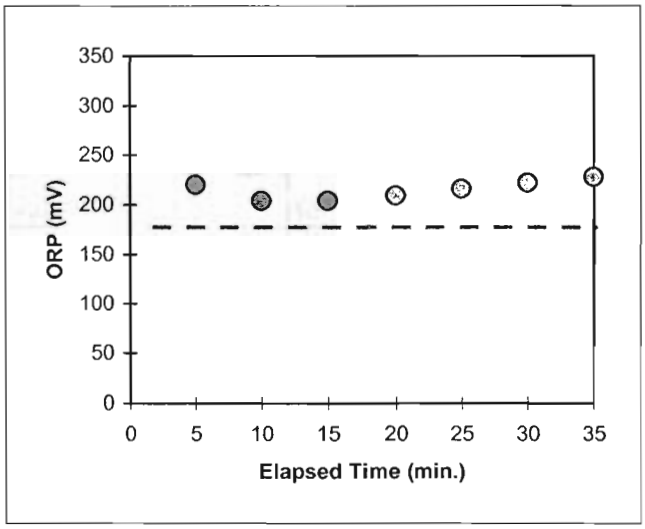
Analyses	TCL VOCs	X		clear	cloudy	turbid
	Cd, Cr, Fe	X	Water Quality		X	
	Cr-VI	X				
			Post-sampling	CO_2		pct
				CH_4		pct
				O_2		pct

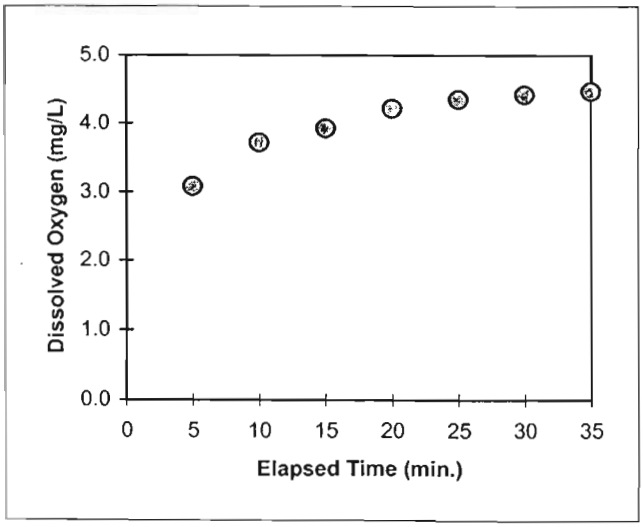
Duplicate		Shipped	8/8/2002 SDG

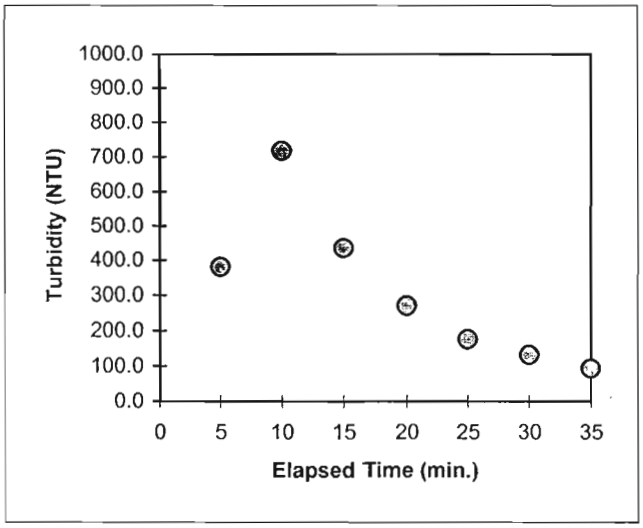

Depth to Water (ft. TOC)
22.00
22.25
22.50
22.75
23.00
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0 5 10 15 20 25 30 35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0 5 10 15 20 25 30 35
Elapsed Time (min.)


ORP (mV)
350
300
250
200
150
100
50
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Turbidity (NTU)
1000.0
900.0
800.0
700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)

Well ID	MW-39A	Start	1110	Team	KM DC	
Date	8/8/2002	Finish	1135	Diameter	2 inches	

Depth to Water	23.20 ft TOC	2-inch pump	X	Duplicate?	X
Total Depth	29.44 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	28 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.90 L/min	Comments	Sample collected @ 1135 DUP080802		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	23.20						
5	23.22	5.84	247	17.66	0.335	5.59	27.3
10	23.22	5.86	248	17.94	0.336	5.49	22.3
15	23.22	5.87	248	17.94	0.336	5.47	23.0
20	23.22	5.87	248	17.91	0.339	5.41	21.9
25	23.22	5.88	247	17.93	0.338	5.42	21.4

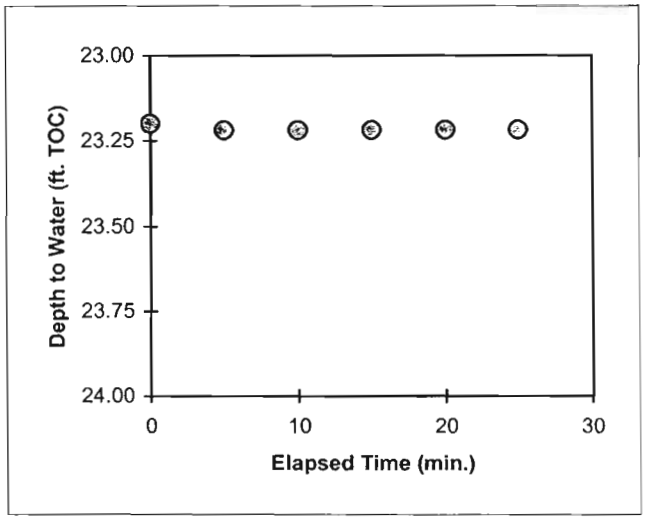
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

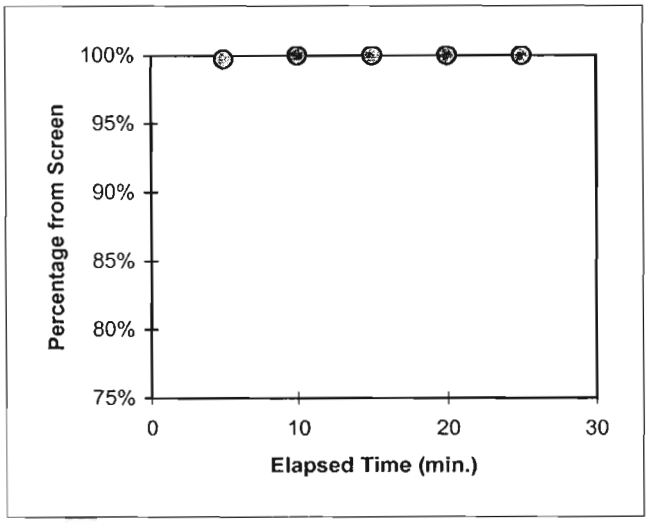
	clear	cloudy	turbid
Water Quality	X		

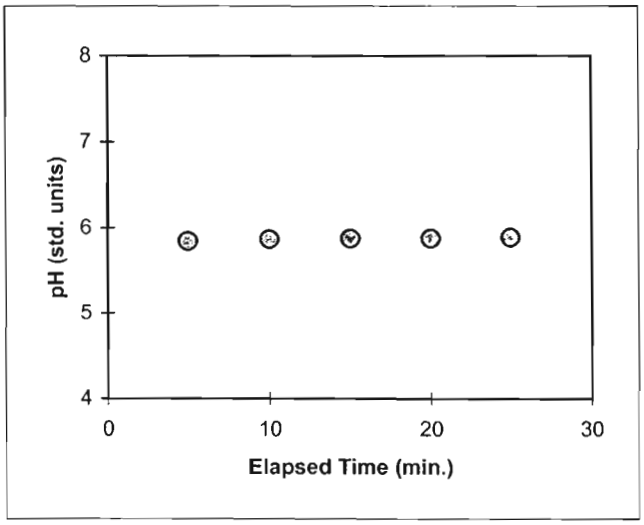
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

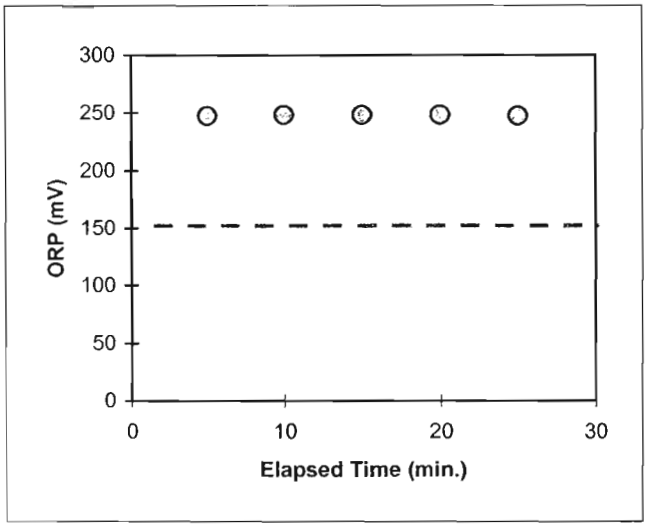
Duplicate	DUP080802

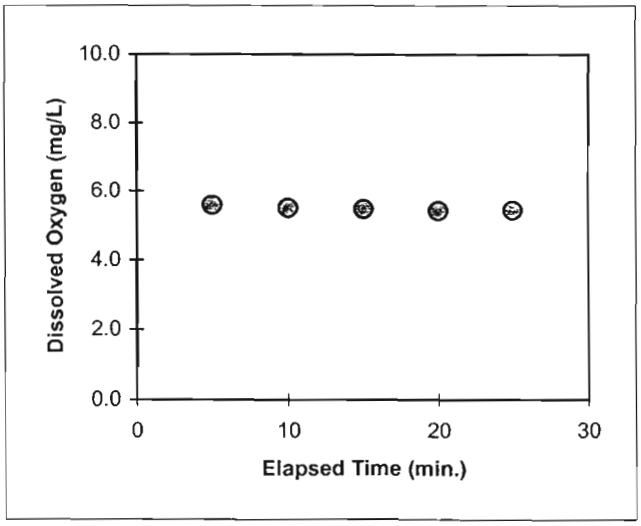
Shipped	8/8/2002	SDG	

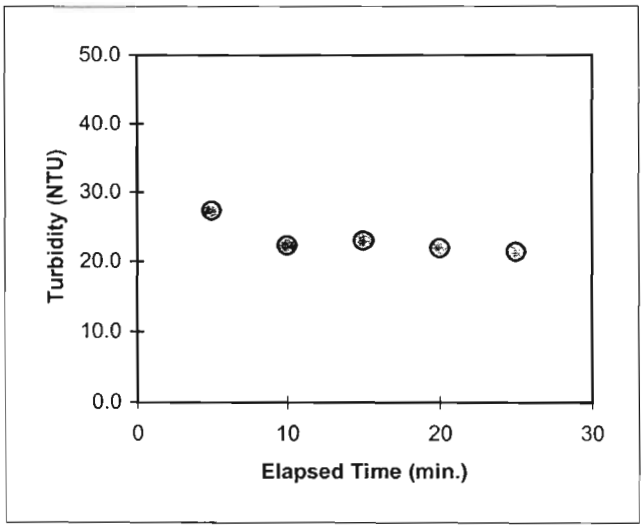

Depth to Water (ft. TOC)
23.00
23.25
23.50
23.75
24.00
0
10
20
30
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
10
20
30
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
0
10
20
30
Elapsed Time (min.)


Turbidity (NTU)
50.0
40.0
30.0
20.0
10.0
0.0
0
10
20
30
Elapsed Time (min.)

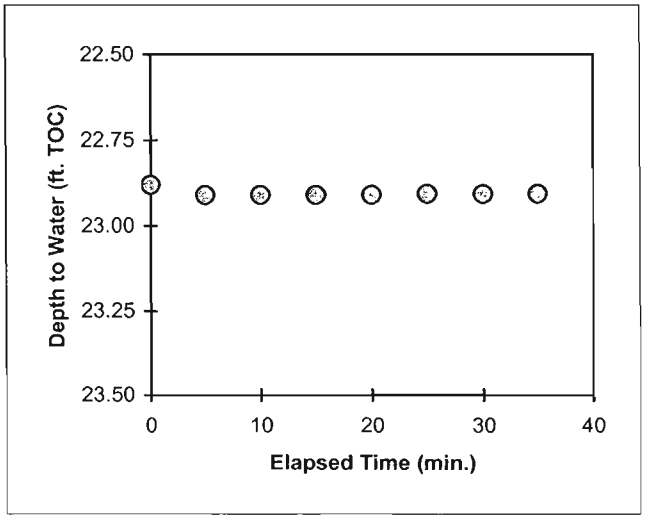
Well ID	MW-39B	Start	1030	Team	KM DC	
Date	8/8/2002	Finish	1105	Diameter	2 inches	

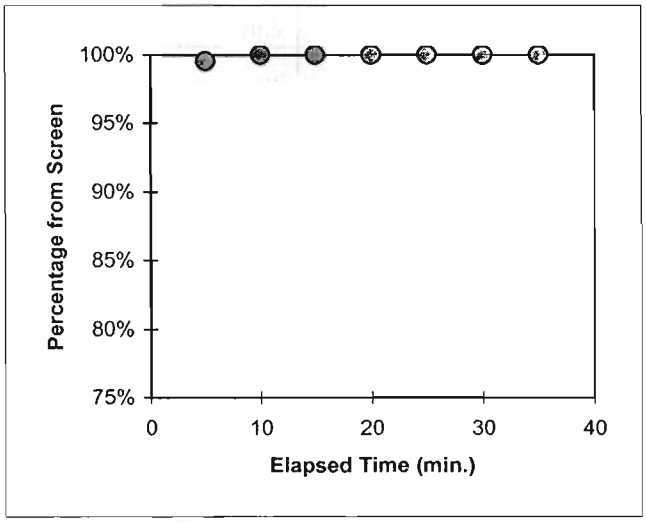
Depth to Water	22.88 ft TOC	2-inch pump	[X]	Duplicate?	[ ]
Total Depth	59.05 ft TOC	Whale Pump	[ ]	MS/MSD?	[ ]
Depth to Pump	54 ft TOC	Bailer	[ ]	Split-Sample?	[ ]
Pump Rate	0.80 L/min	Comments	Sample collected @ 1105		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

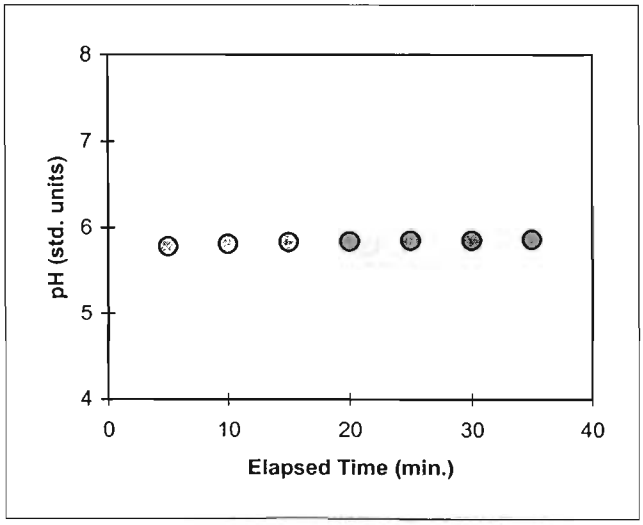
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	22.88						
5	22.91	5.78	224	18.07	0.433	2.28	999.0
10	22.91	5.81	224	18.50	0.429	2.52	390.0
15	22.91	5.83	229	18.53	0.435	2.72	218.0
20	22.91	5.84	232	18.70	0.439	2.73	119.0
25	22.91	5.85	235	18.47	0.439	2.73	146.0
30	22.91	5.85	237	18.64	0.444	2.77	117.0
35	22.91	5.86	239	18.54	0.442	2.75	98.0

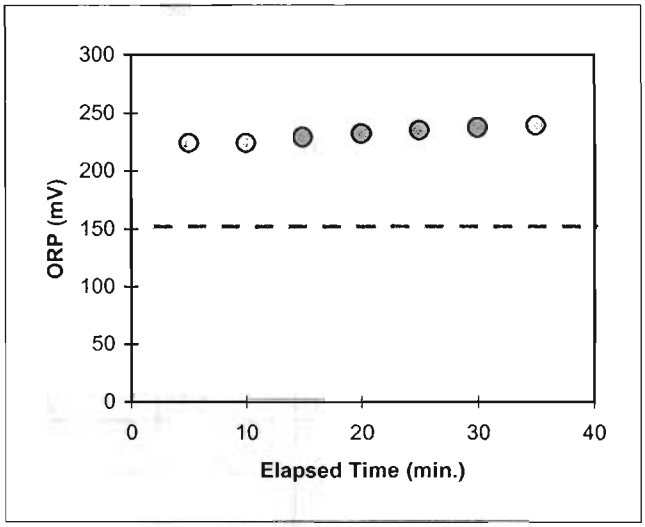
Analyses	TCL VOCs	[X]		clear	cloudy	turbid
	Cd, Cr, Fe	[X]	Water Quality	[ ]	[ ]	[X]
	Cr-VI	[X]				
		[ ]	Post-sampling	CO_2		pct
		[ ]		CH_4		pct
		[ ]		O_2		pct

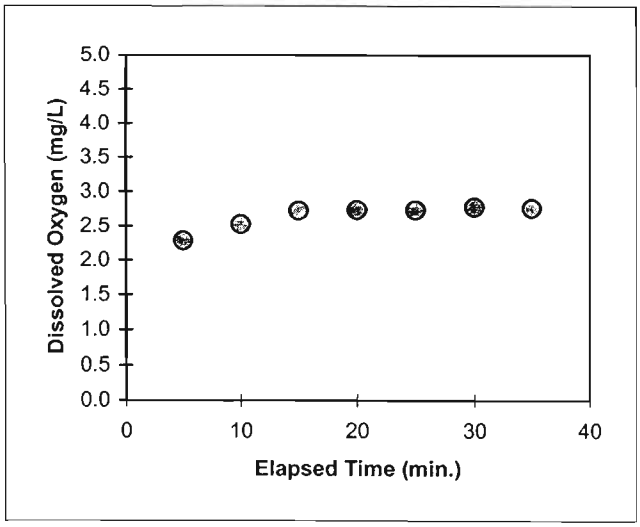
Duplicate		Shipped	8/8/2002 SDG

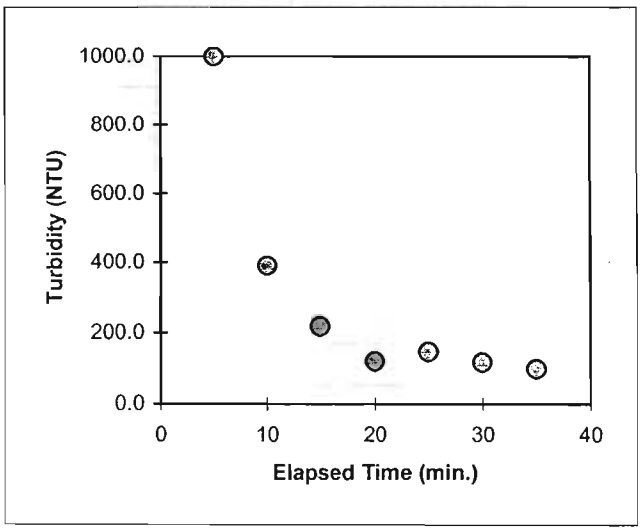

Depth to Water (ft. TOC)
22.50
22.75
23.00
23.25
23.50
0
10
20
30
40
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
40
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
40
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
10
20
30
40
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
10
20
30
40
Elapsed Time (min.)


Turbidity (NTU)
1000.0
800.0
600.0
400.0
200.0
0.0
0
10
20
30
40
Elapsed Time (min.)

Well ID	MW-40A	Start	1245	Team	KM	DC
Date	8/8/2002	Finish	1315	Diameter	2 inches	

Depth to Water	23.11 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	29.98 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	28 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.70 L/min	Comments	Sample collected @ 1315		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	23.11						
5	23.11	6.15	152	17.79	0.355	3.97	41.2
10	23.11	6.15	160	18.22	0.348	3.75	23.2
15	23.11	6.18	167	18.30	0.348	3.74	20.1
20	23.11	6.20	171	18.31	0.352	3.76	11.9
25	23.11	6.21	176	18.29	0.353	3.71	11.7
30	23.11	6.22	178	18.28	0.347	3.74	11.0

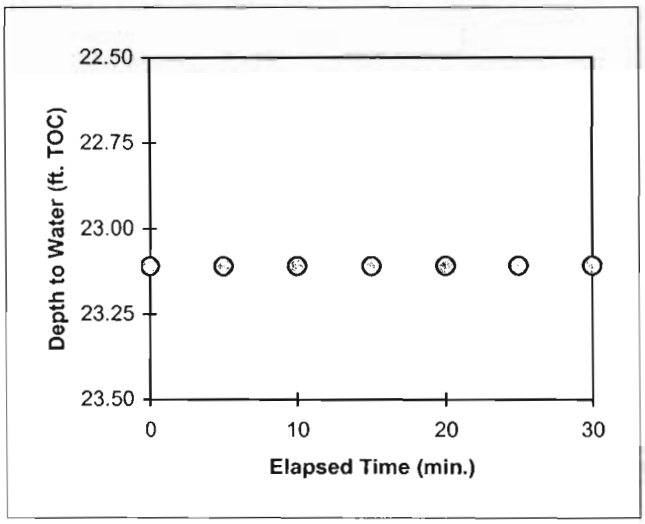
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

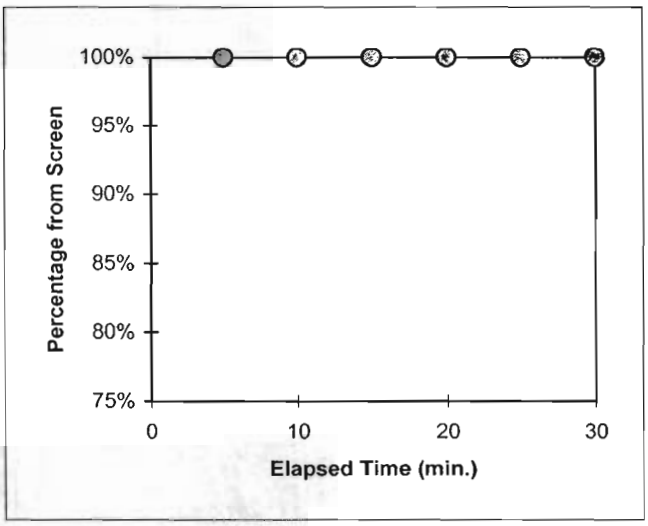
	clear	cloudy	turbid
Water Quality	X		

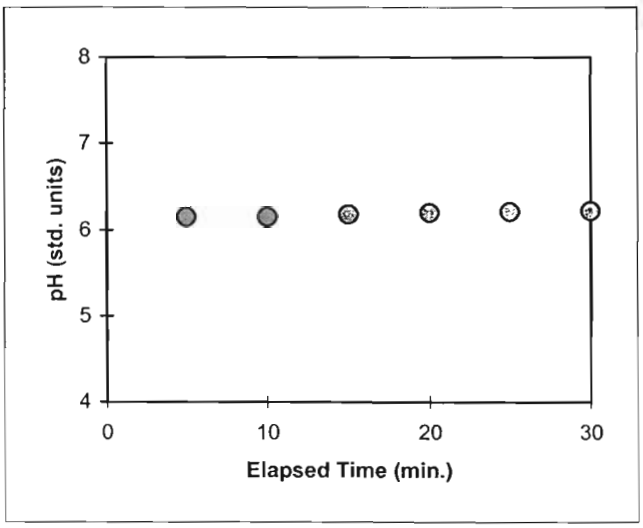
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

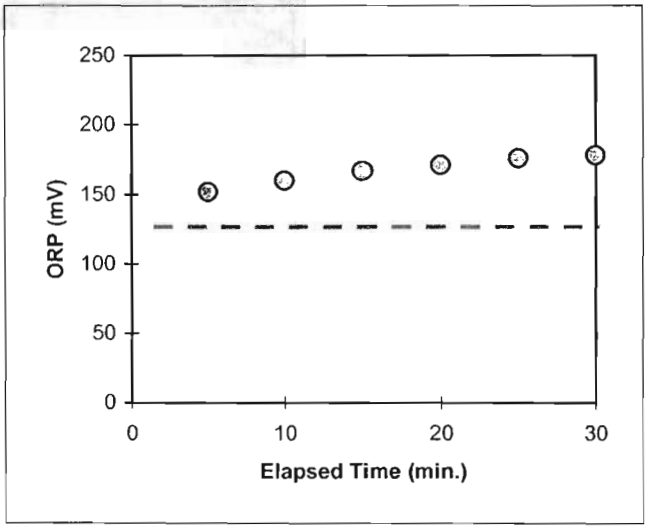
Duplicate	DM-1		

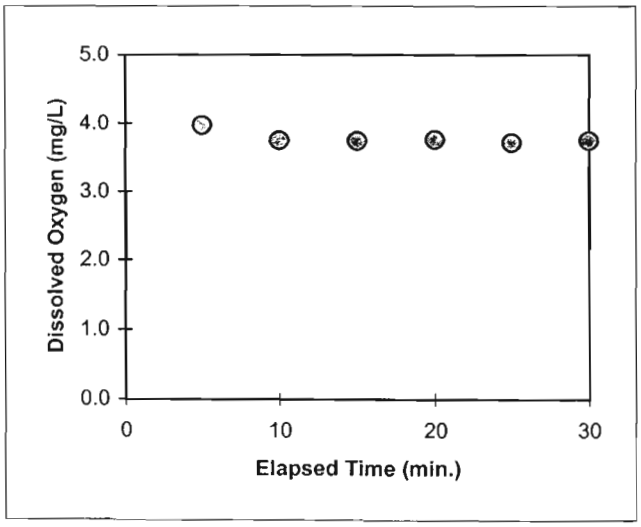
Shipped	8/8/2002	SDG	

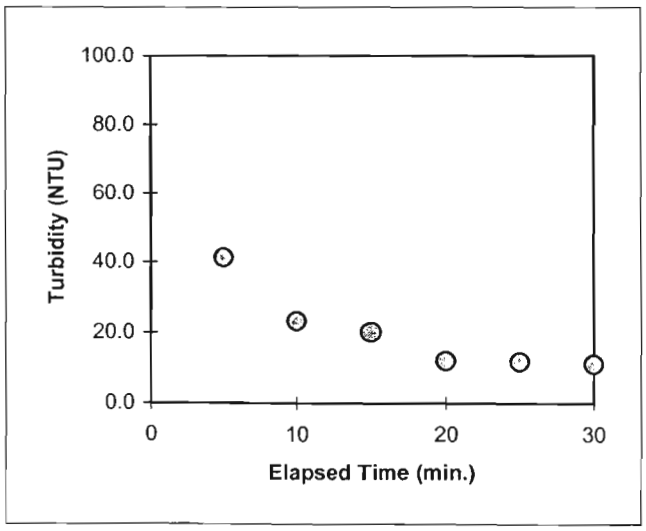

Depth to Water (ft. TOC)
22.50
22.75
23.00
23.25
23.50
0
10
20
30
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
Elapsed Time (min.)


ORP (mV)
250
200
150
100
50
0
0
10
20
30
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0
10
20
30
Elapsed Time (min.)


Turbidity (NTU)
100.0
80.0
60.0
40.0
20.0
0.0
0
10
20
30
Elapsed Time (min.)

Well ID	MW-40B	Start	1155	Team	KM DC	
Date	8/8/2002	Finish	1240	Diameter	2 inches	

Depth to Water	23.28 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	58.75 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	53.0 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.70 L/min	Comments	Sample collected @ 1240		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	23.28						
5	23.33	6.21	-28	18.99	0.409	0.78	988.0
10	23.33	6.23	-19	19.08	0.484	0.52	265.0
15	23.34	6.25	-18	19.09	0.497	0.38	89.6
20	23.34	6.25	7	19.18	0.520	0.35	72.9
25	23.34	6.27	25	19.18	0.530	0.38	52.1
30	23.34	6.28	32	19.19	0.531	0.37	48.3
35	23.34	6.29	43	19.41	0.533	0.37	40.5
40	23.34	6.29	50	18.88		0.35	23.5

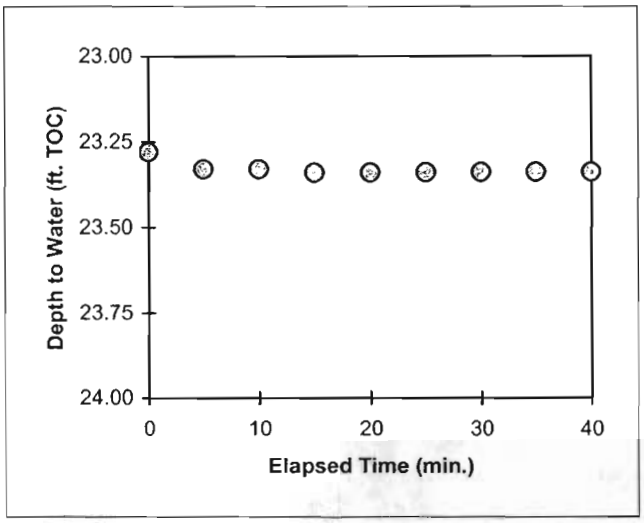
Analyses		
	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

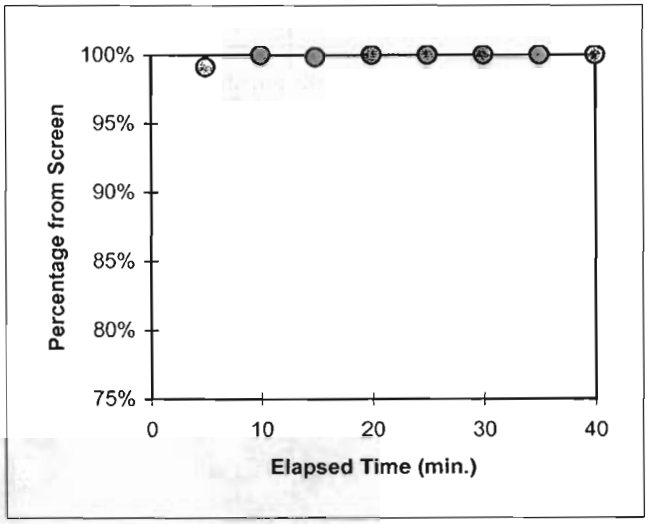
	clear	cloudy	turbid
Water Quality	X		

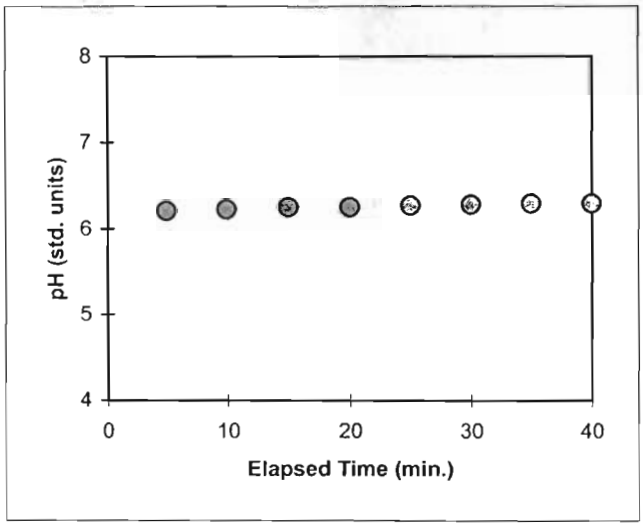
Post-sampling			
	CO_2		pct
	CH_4		pct
	O_2		pct

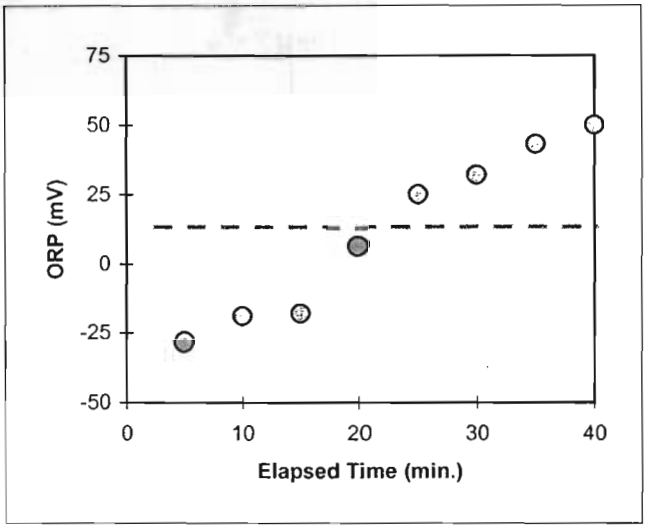
Duplicate	

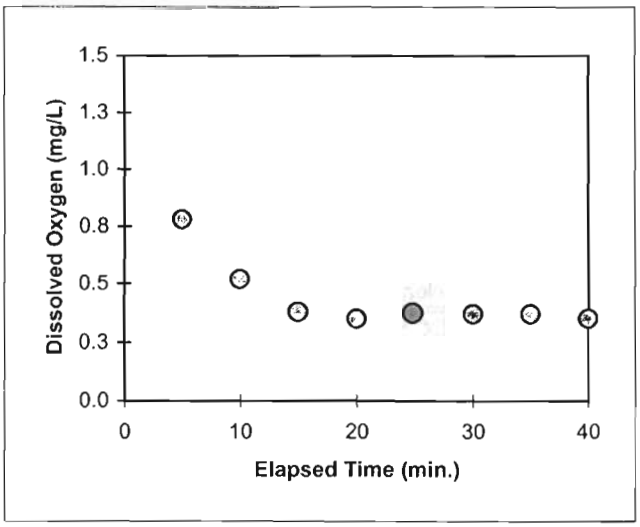
Shipped	8/8/2002	SDG	

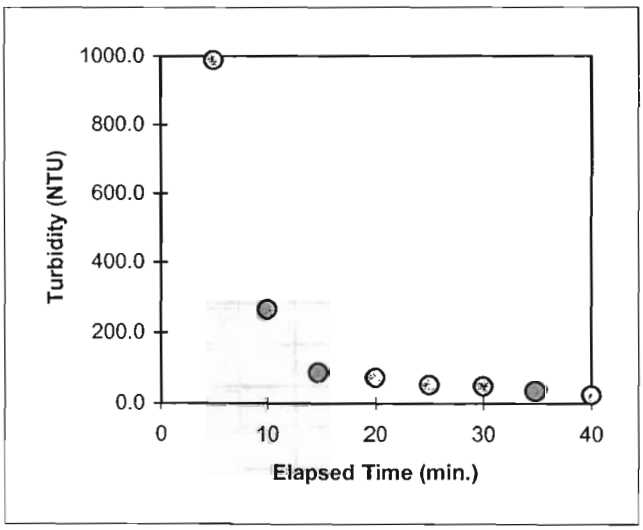

Depth to Water (ft. TOC)
23.00
23.25
23.50
23.75
24.00
0
10
20
30
40
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
40
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
40
Elapsed Time (min.)


ORP (mV)
75
50
25
0
-25
-50
0
10
20
30
40
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
1.5
1.3
1.0
0.8
0.5
0.3
0.0
0
10
20
30
40
Elapsed Time (min.)


Turbidity (NTU)
1000.0
800.0
600.0
400.0
200.0
0.0
0
10
20
30
40
Elapsed Time (min.)

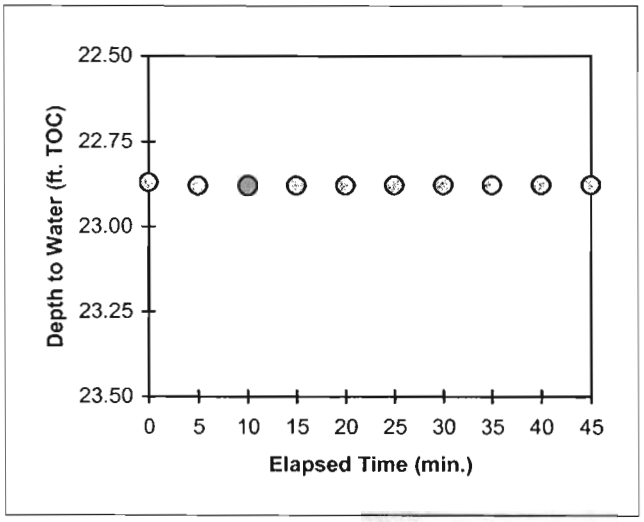
Well ID	MW-41A	Start	755	Team	KM DC	
Date	8/7/2002	Finish	840	Diameter	2 inches	

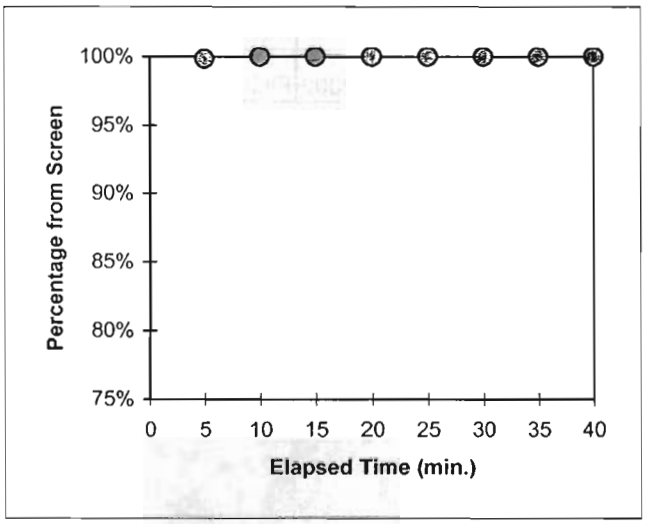
Depth to Water	22.87 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	28.67 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	27.00 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.80 L/min	Comments	Sample collected @ 0840		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

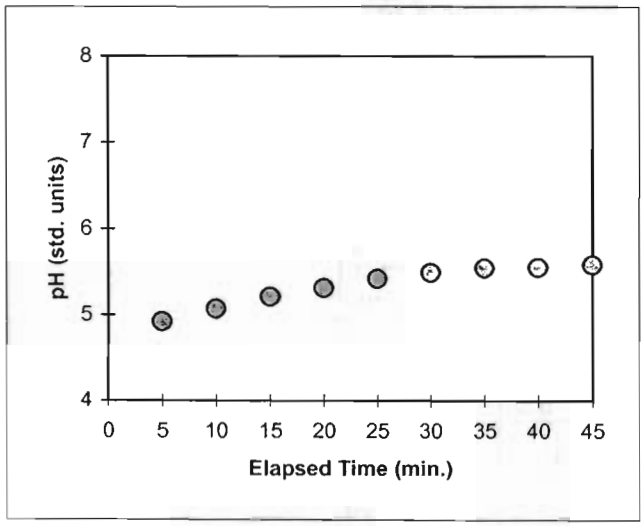
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	22.87						
5	22.88	4.92	250	15.39	0.193	4.61	16.8
10	22.88	5.07	252	15.52	0.190	4.61	7.0
15	22.88	5.21	248	15.46	0.189	4.62	5.5
20	22.88	5.31	244	15.50	0.189	4.6	4.9
25	22.88	5.42	239	15.54	0.189	4.57	4.6
30	22.88	5.49	236	15.61	0.188	4.53	4.3
35	22.88	5.54	235	15.56	0.188	4.53	4.1
40	22.88	5.55	236	15.51	0.188	4.49	3.9
45	22.88	5.58	237	15.59	0.188	4.53	3.8

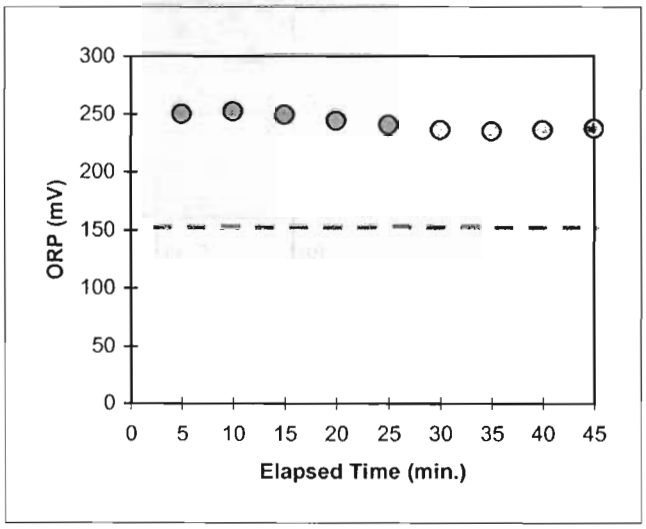
Analyses	TCL VOCs	X		clear	cloudy	turbid
	Cd, Cr, Fe	X	Water Quality	X		
	Cr-VI	X				
			Post-sampling	CO_2		pct
				CH_4		pct
				O_2		pct

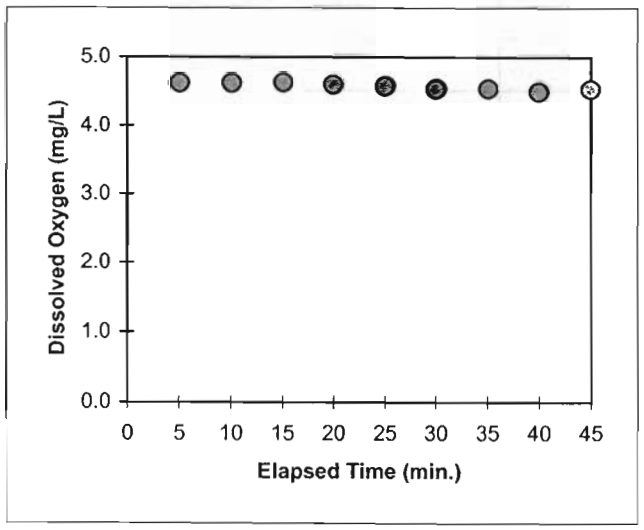
Duplicate		Shipped	8/7/2002 SDG

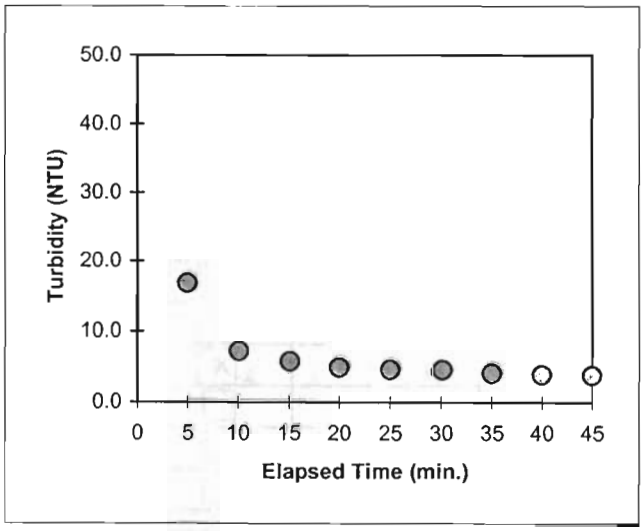

Depth to Water (ft. TOC)
22.50
22.75
23.00
23.25
23.50
0 5 10 15 20 25 30 35 40 45
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0 5 10 15 20 25 30 35 40
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0 5 10 15 20 25 30 35 40 45
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0 5 10 15 20 25 30 35 40 45
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0 5 10 15 20 25 30 35 40 45
Elapsed Time (min.)


Turbidity (NTU)
50.0
40.0
30.0
20.0
10.0
0.0
0 5 10 15 20 25 30 35 40 45
Elapsed Time (min.)

Well ID	MW-42A	Start	1425	Team	KM DC	
Date	8/8/2002	Finish	1455	Diameter	2 inches	

Depth to Water	23.90 ft TOC		2-inch pump	[X]	Duplicate? [ ]
Total Depth	28.73 ft TOC		Whale Pump	[ ]	MS/MSD? [ ]
Depth to Pump	28 ft TOC		Bailer	[ ]	Split-Sample? [ ]
Pump Rate	0.90 L/min		Comments	Sample collected @ 1455	
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	23.90						
5	23.92	6.38	-14	17.18	0.296	0.75	39.5
10	23.92	6.42	-20	17.23	0.298	0.46	15.3
15	23.92	6.43	-24	17.02	0.298	0.44	11.9
20	23.92	6.46	-28	17.16	0.299	0.44	10.1
25	23.92	6.50	-31	17.15	0.298	0.42	9.2
30	23.92	6.50	-36	16.82	0.299	0.39	8.8

Analyses	TCL VOCs	[X]		clear	cloudy	turbid
	Cd, Cr, Fe	[X]	Water Quality	[X]	[ ]	[ ]
	Cr-VI	[X]				
		[ ]	Post-sampling	CO_2		pct
		[ ]		CH_4		pct
		[ ]		O_2		pct

Duplicate		Shipped	8/8/2002 SDG

Well ID	MW-43A	Start	810	Team	KM DC	
Date	8/8/2002	Finish	845	Diameter	4 inches	

Depth to Water	22.65 ft TOC		2-inch pump	X	Duplicate?	
Total Depth	29.42 ft TOC		Whale Pump		MS/MSD?	
Depth to Pump	28 ft TOC		Bailer		Split-Sample?	
Pump Rate	0.90 L/min		Comments	Sample collected @ 845		
adjusted to:	L/min	at	minutes			
adjusted to:	L/min	at	minutes			

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	22.65						
5	22.67	5.18	285	16.06	0.286	7.88	14.0
10	22.67	5.27	277	16.34	0.277	7.63	5.5
15	22.67	5.33	272	16.46	0.273	7.69	4.4
20	22.67	5.40	267	16.40	0.267	7.78	2.4
25	22.67	5.46	263	16.50	0.262	7.8	3.2
30	22.67	5.52	258	16.59	0.259	7.81	2.8
35	22.67	5.54	257	16.66	0.258	8.11	2.3

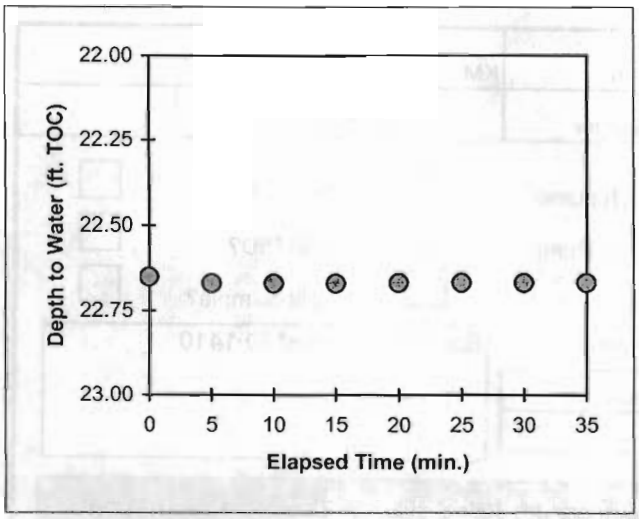
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

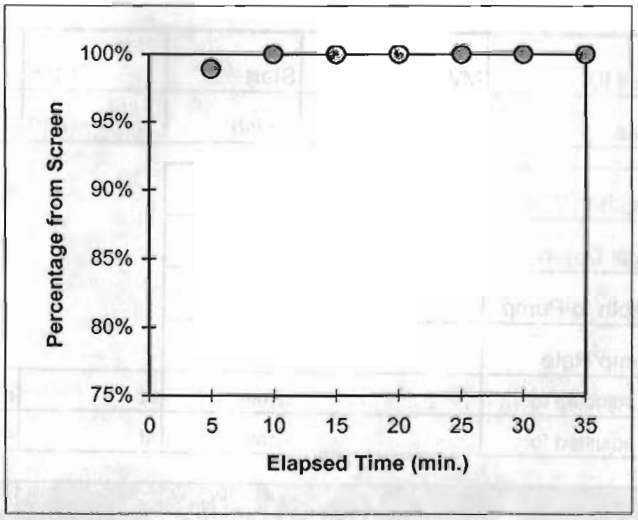
	clear	cloudy	turbid
Water Quality	X		

Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

Duplicate	

Shipped	8/8/2002	SDG	


Depth to Water (ft. TOC)
22.00
22.25
22.50
22.75
23.00
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Percentage from Screen
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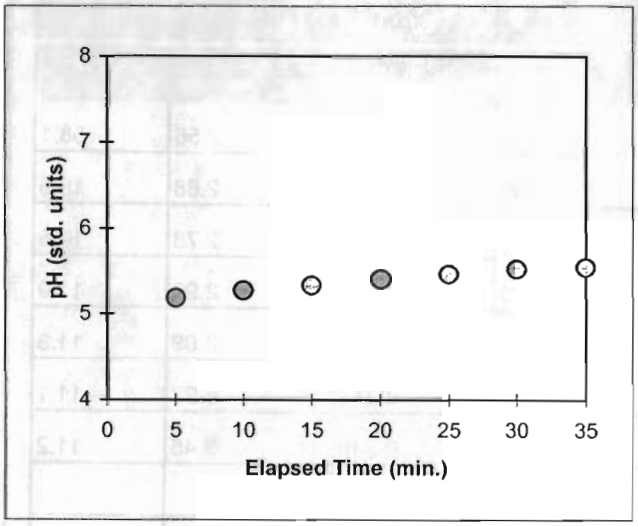
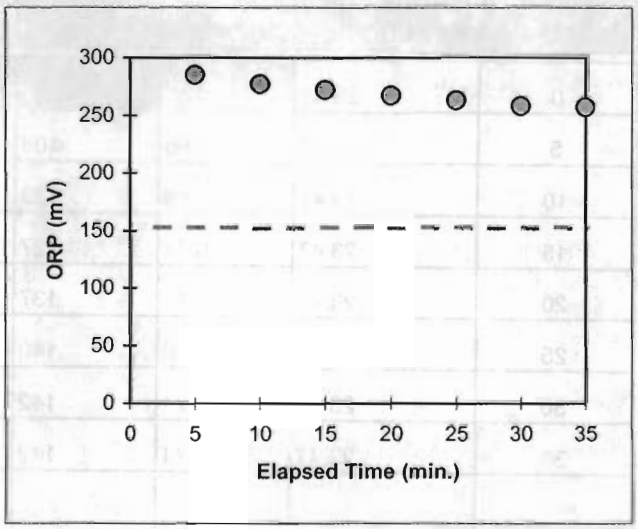
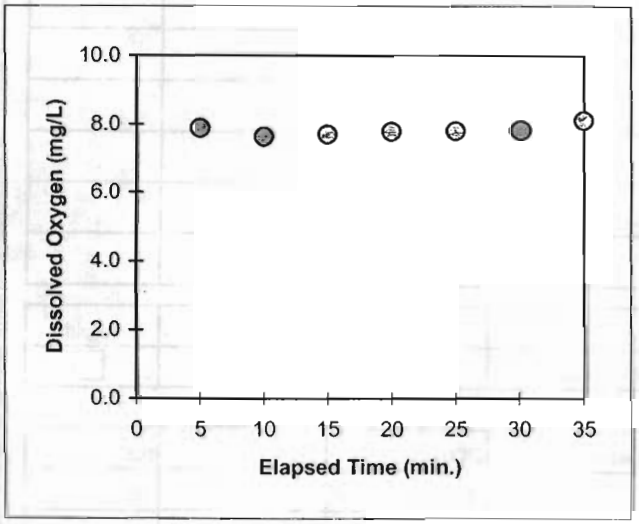
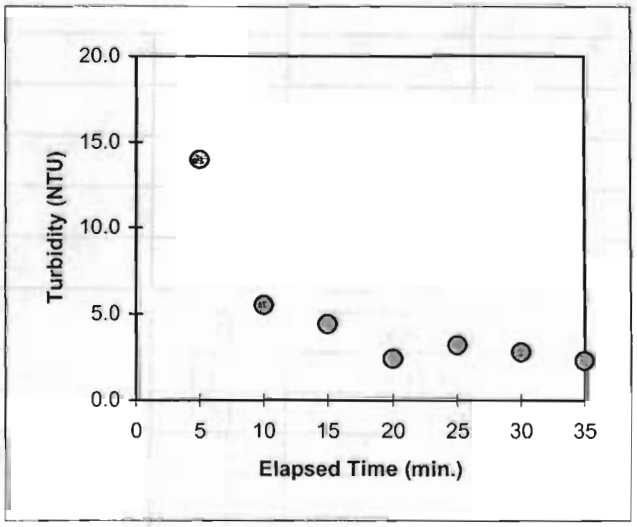
95%
90%
85%
80%
75%
0 5 10 15 20 25 30 35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0 5 10 15 20 25 30 35
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Turbidity (NTU)
20.0
15.0
10.0
5.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)

Well ID	MW-44A	Start	1335	Team	KM DC	
Date	8/8/2002	Finish	1410	Diameter	2 inches	

Depth to Water	23.45 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	29.43 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	28 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.60 L/min	Comments	Sample collected @ 1410		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

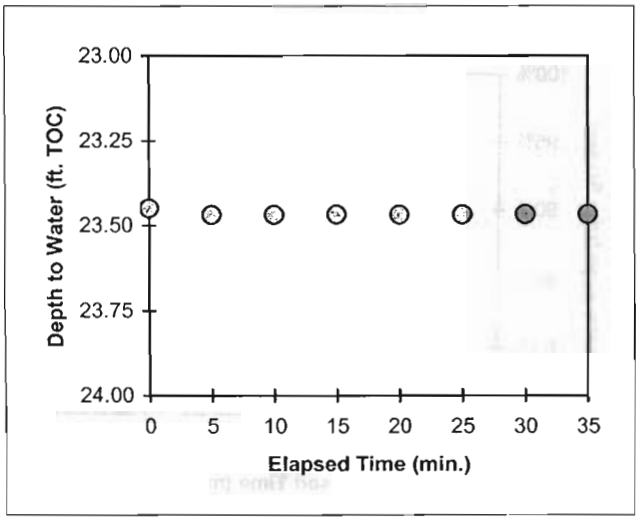
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	23.45						
5	23.47	5.66	108	19.41	0.232	2.56	58.1
10	23.47	5.69	123	19.95	0.239	2.68	18.5
15	23.47	5.71	127	20.10	0.243	2.78	14.5
20	23.47	5.71	137	19.83	0.245	2.98	11.9
25	23.47	5.70	140	19.82	0.245	3.09	11.3
30	23.47	5.71	142	20.08	0.246	3.27	11.1
35	23.47	5.71	142	20.24	0.246	3.45	11.2

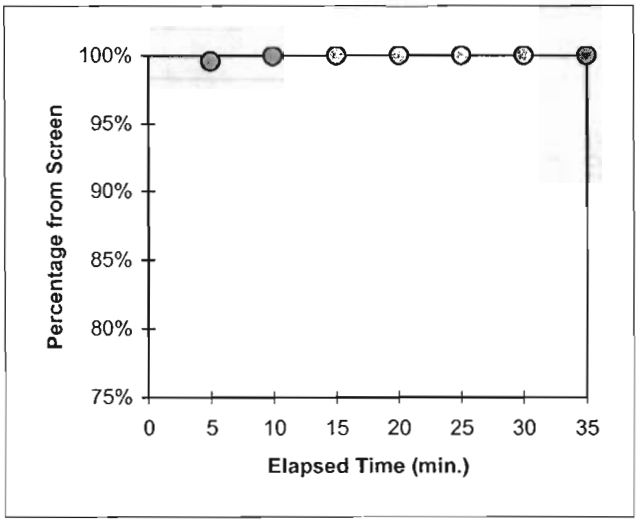
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

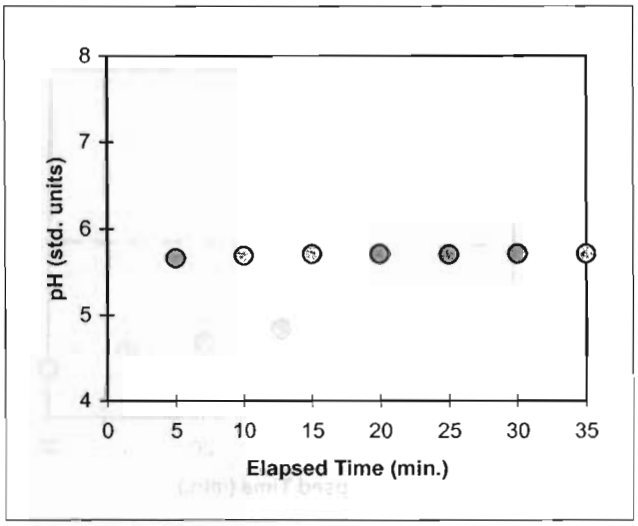
	clear	cloudy	turbid
Water Quality	X		

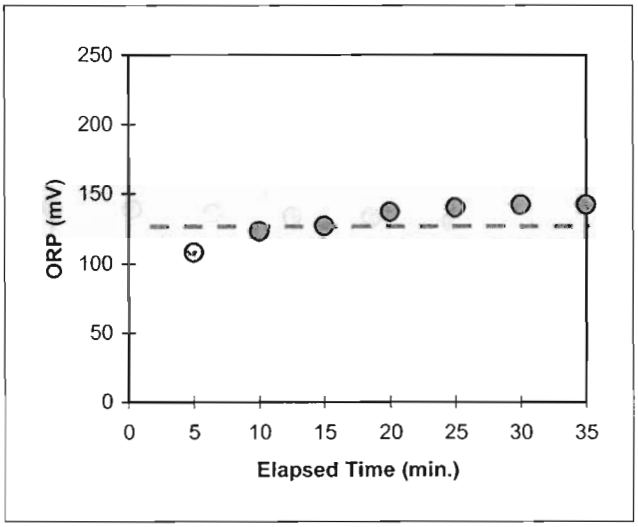
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

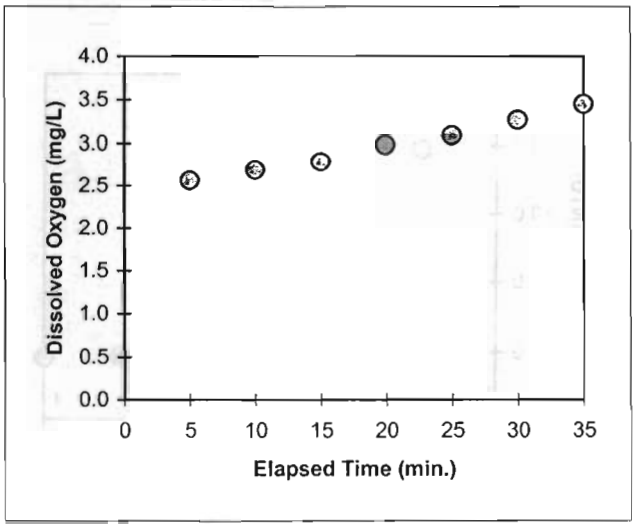
Duplicate					
Shipped	8/8/2002	SDG			

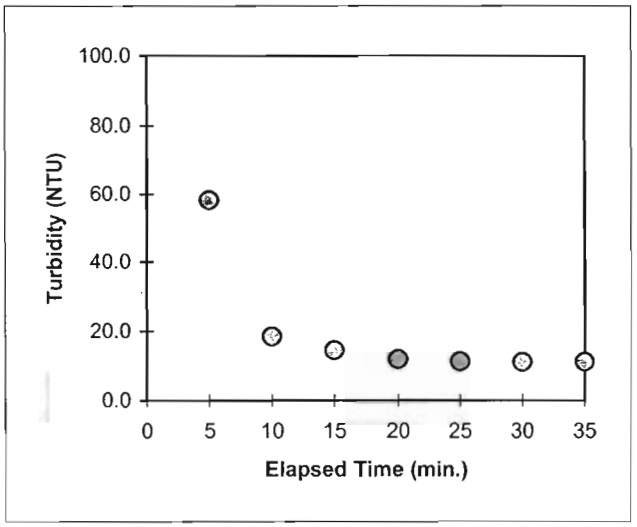

Depth to Water (ft. TOC)
23.00
23.25
23.50
23.75
24.00
0
5
10
15
20
25
30
35
Elapsed Time (min.)

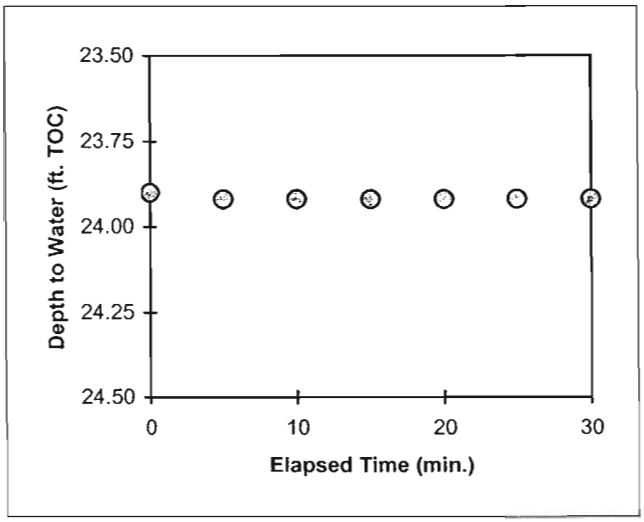

Percentage from Screen
100%
95%
90%
85%
80%
75%
0
5
10
15
20
25
30
35
Elapsed Time (min.)

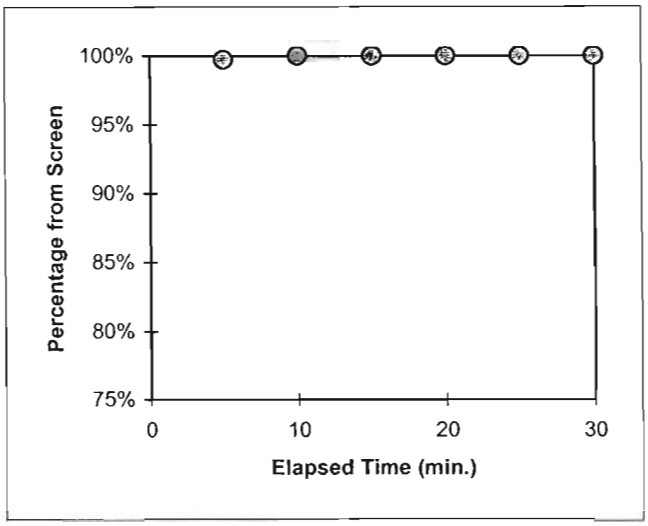

pH (std. units)
8
7
6
5
4
0
5
10
15
20
25
30
35
Elapsed Time (min.)

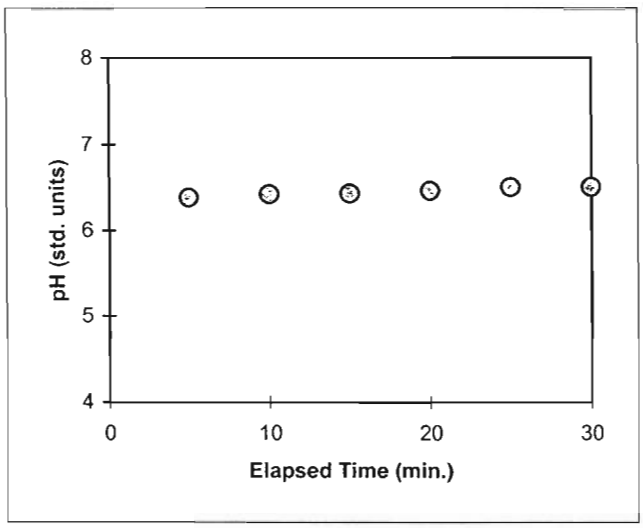

ORP (mV)
250
200
150
100
50
0
0
5
10
15
20
25
30
35
Elapsed Time (min.)

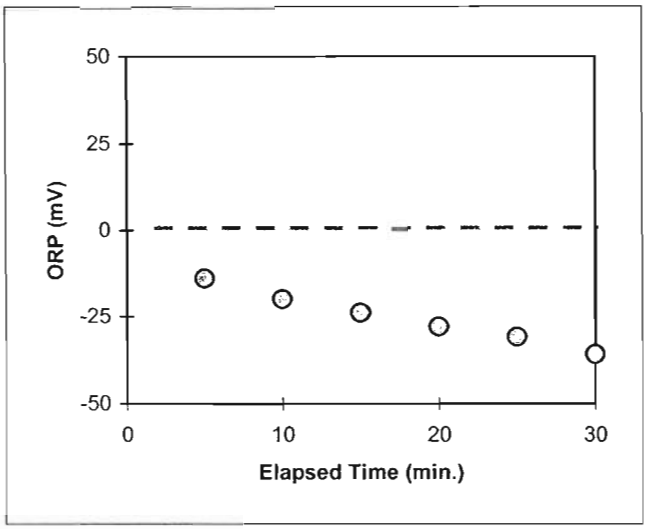

Dissolved Oxygen (mg/L)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)

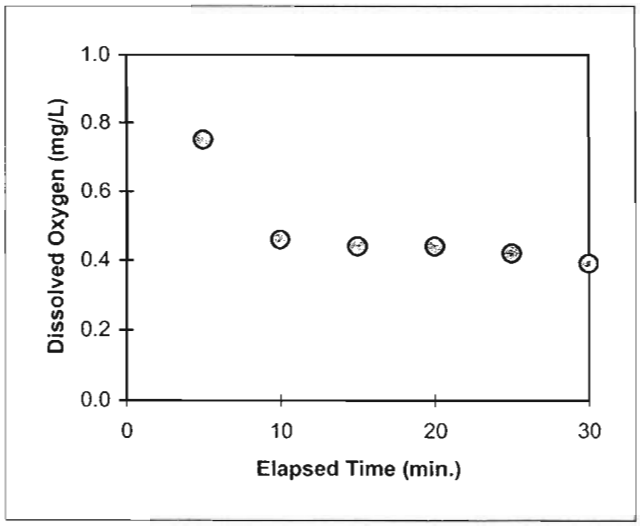

Turbidity (NTU)
100.0
80.0
60.0
40.0
20.0
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)

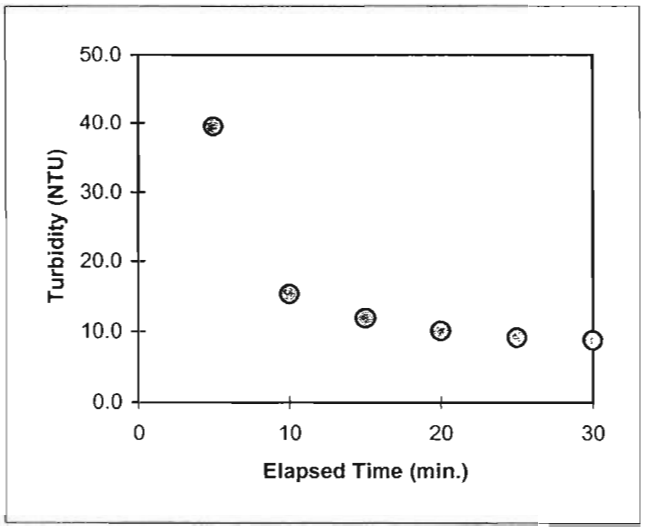

Depth to Water (ft. TOC)
23.50
23.75
24.00
24.25
24.50
0
10
20
30
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
Elapsed Time (min.)


ORP (mV)
50
25
0
-25
-50
0
10
20
30
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
Elapsed Time (min.)


Turbidity (NTU)
50.0
40.0
30.0
20.0
10.0
0.0
0
10
20
30
Elapsed Time (min.)

Well ID	PZ-3B	Start	1235	Team	KM DC	
Date	5/7/2002	Finish	1305	Diameter	2 inches	

Depth to Water	25.84 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	67.67 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	62 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.80 L/min	Comments	Sample collected @ 1305		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

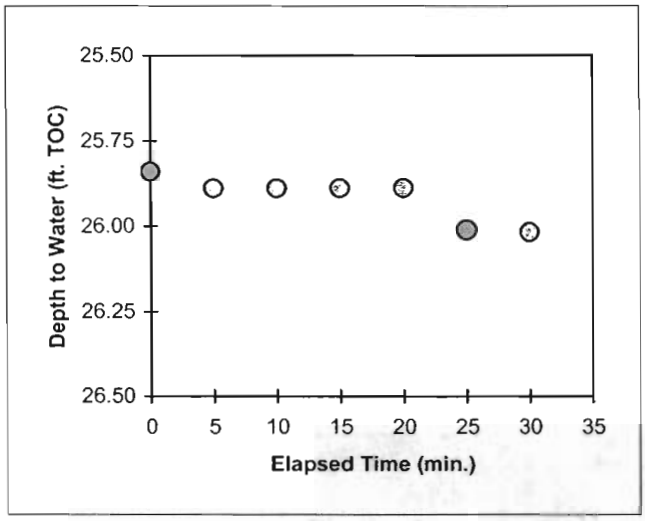
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	25.84						
5	25.89	5.25	264	16.10	0.402	5.23	88.3
10	25.89	5.28	268	16.56	0.388	4.4	44.2
15	25.89	5.25	277	16.68	0.401	4.21	16.4
20	25.89	5.27	281	16.83	0.403	4.27	9.6
25	26.01	5.28	283	16.46	0.405	4.21	8.5
30	26.02	5.28	278	16.84	0.408	4.16	40.1

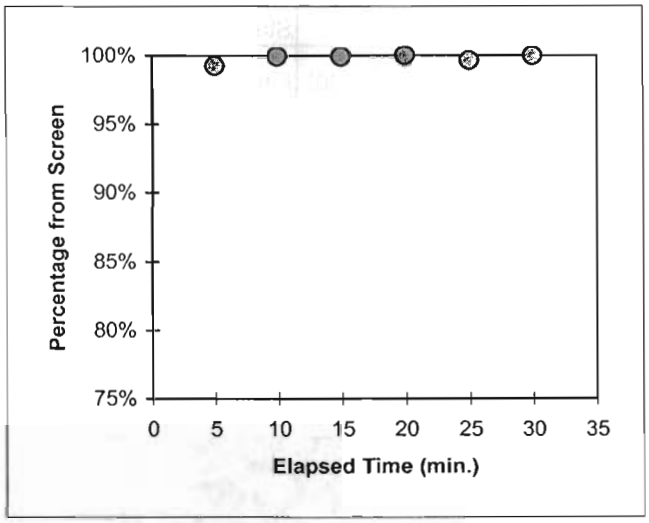
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

	clear	cloudy	turbid
Water Quality	X		

Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

Duplicate		Shipped	5/7/2002	SDG	


Depth to Water (ft. TOC)
25.50
25.75
26.00
26.25
26.50
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Percentage from Screen
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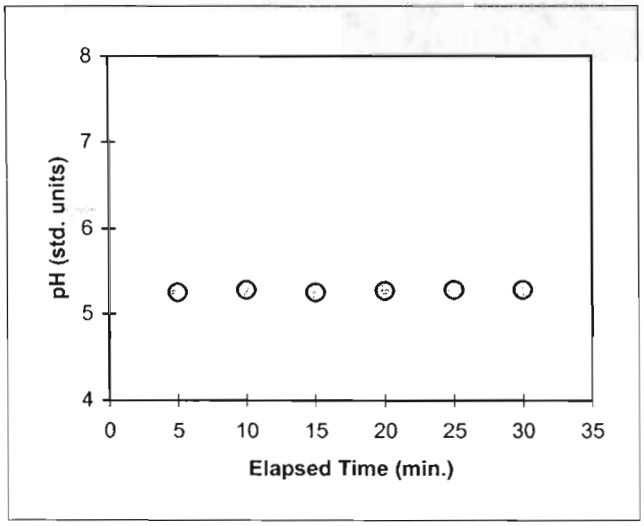
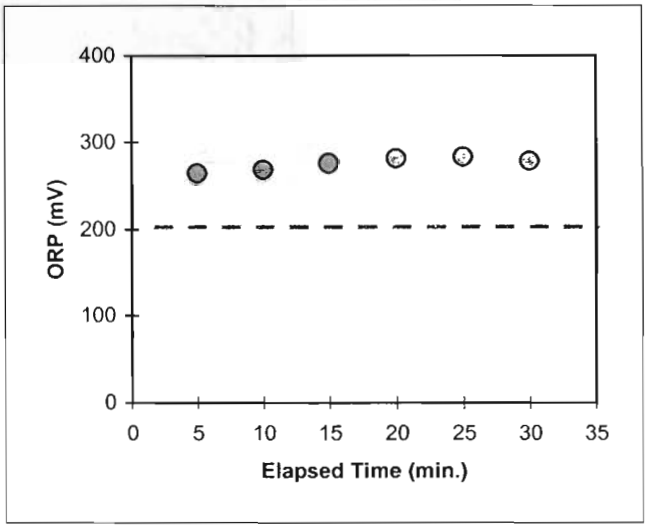
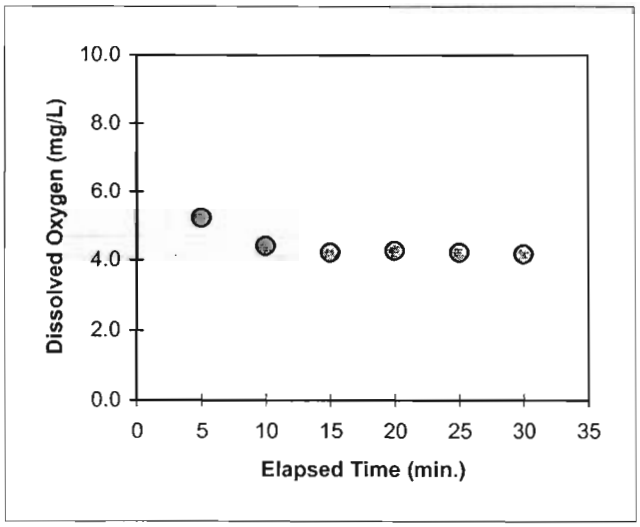
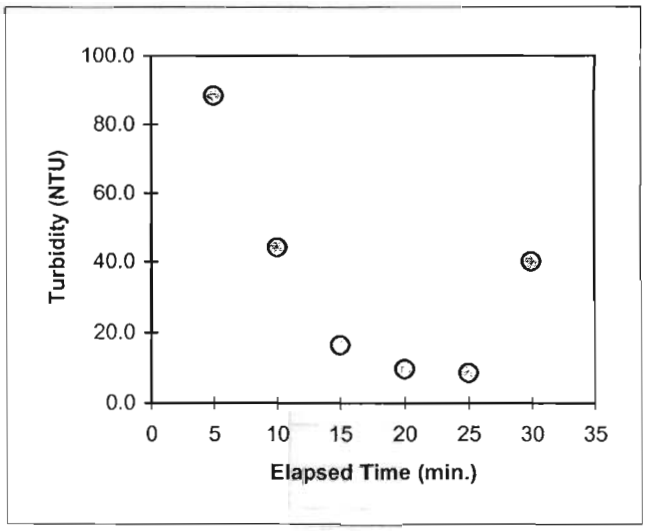
85%
80%
75%
0 5 10 15 20 25 30 35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0 5 10 15 20 25 30 35
Elapsed Time (min.)


ORP (mV)
400
300
200
100
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Turbidity (NTU)
100.0
80.0
60.0
40.0
20.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)

Well ID	PZ-5C	Start	1430	Team	KM	DC
Date	8/6/2002	Finish	1505	Diameter	2 inches	

Depth to Water	26.36 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	91.25 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	86 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.90 L/min	Comments	Sample collected @ 1505		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

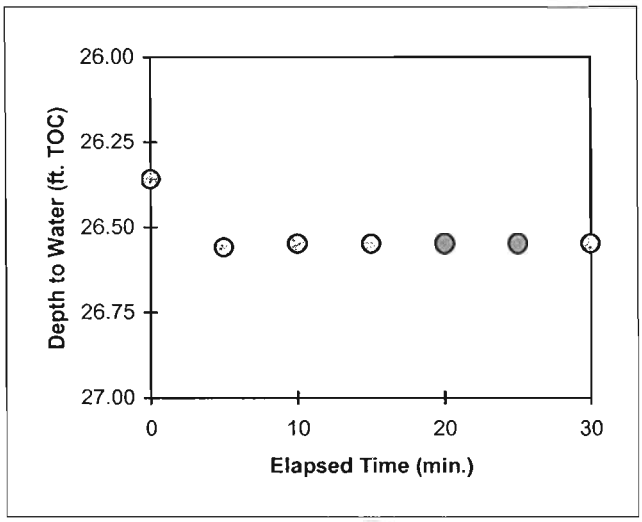
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	26.36						
5	26.56	6.95	-159	16.34	0.672	0.91	21.1
10	26.55	7.02	-169	16.50	0.714	1.52	14.3
15	26.55	7.12	-180	16.45	0.775	2.66	7.1
20	26.55	7.18	-187	16.40	0.805	3.27	6.0
25	26.55	7.22	-192	16.61	0.824	3.56	8.0
30	26.55	7.27	-195	16.58	0.823	3.76	9.2
35	26.55	7.29	-196	16.63	0.825	3.87	11.3

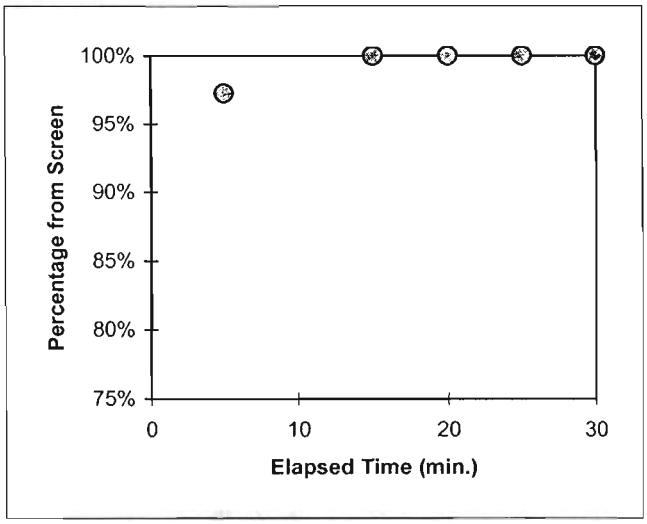
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

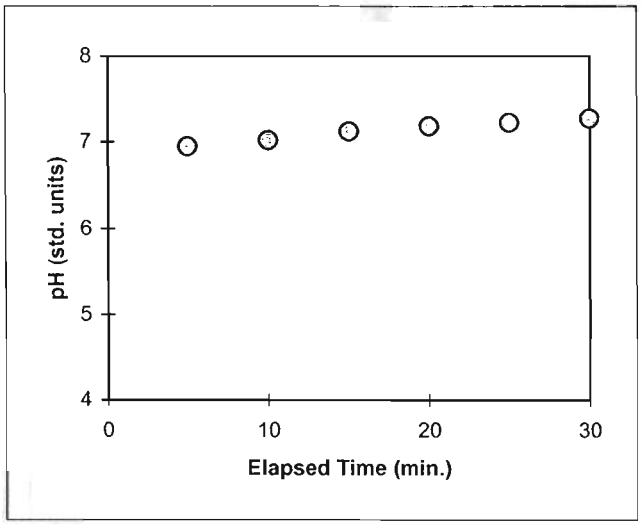
	clear	cloudy	turbid
Water Quality	X		

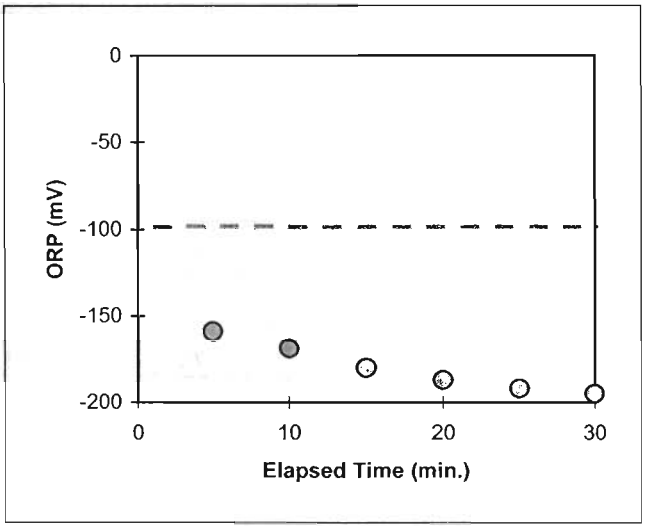
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

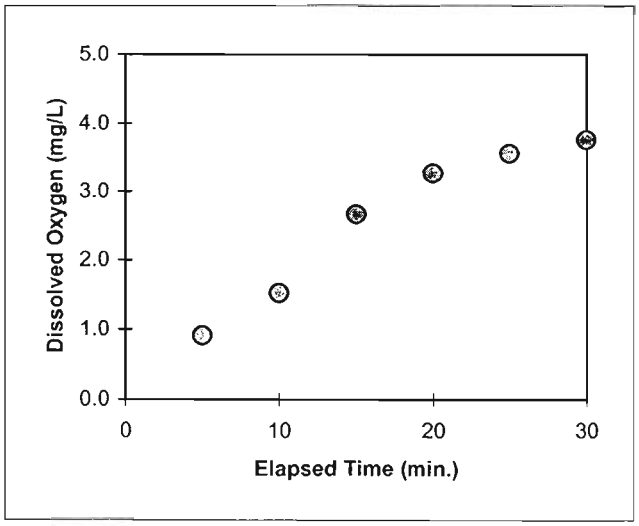
Duplicate		Shipped	8/6/2002	SDG	

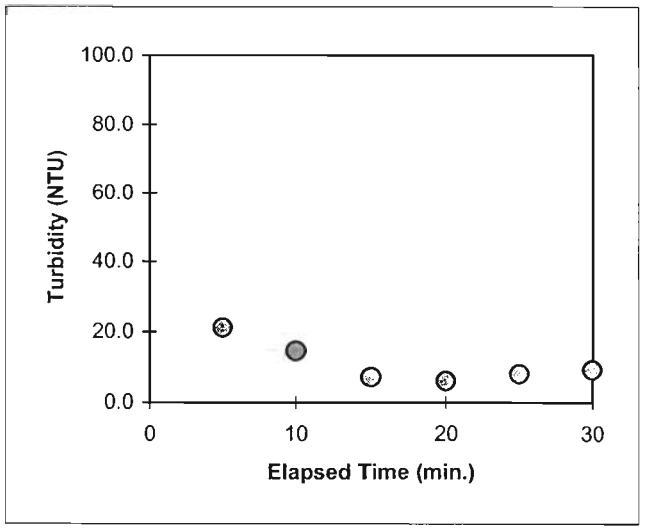

Depth to Water (ft. TOC)
26.00
26.25
26.50
26.75
27.00
0
10
20
30
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
Elapsed Time (min.)


ORP (mV)
0
-50
-100
-150
-200
0
10
20
30
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0
10
20
30
Elapsed Time (min.)


Turbidity (NTU)
100.0
80.0
60.0
40.0
20.0
0.0
0
10
20
30
Elapsed Time (min.)

Well ID	PZ-5B	Start	1515	Team	KM DC	
Date	8/6/2002	Finish	1545	Diameter	2 inches	

Depth to Water	26.31 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	66.76 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	62 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.90 L/min	Comments	Sample collected @ 1545		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	26.31						
5	26.35	6.30	67	16.43	0.402	1.63	42.4
10	26.35	6.32	64	16.64	0.414	1.71	16.8
15	26.35	6.34	60	16.53	0.418	1.72	10.1
20	26.35	6.33	58	16.62	0.419	1.71	7.5
25	26.35	6.35	58	16.97	0.420	1.71	6.9
30	26.35	6.36	55	17.05	0.421	1.68	5.6

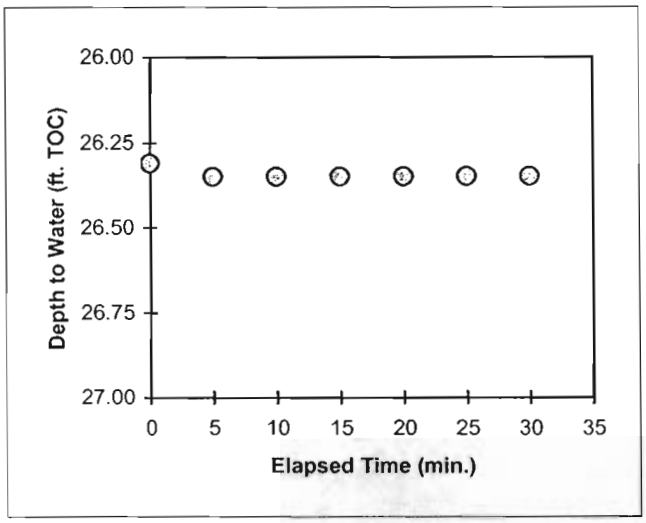
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

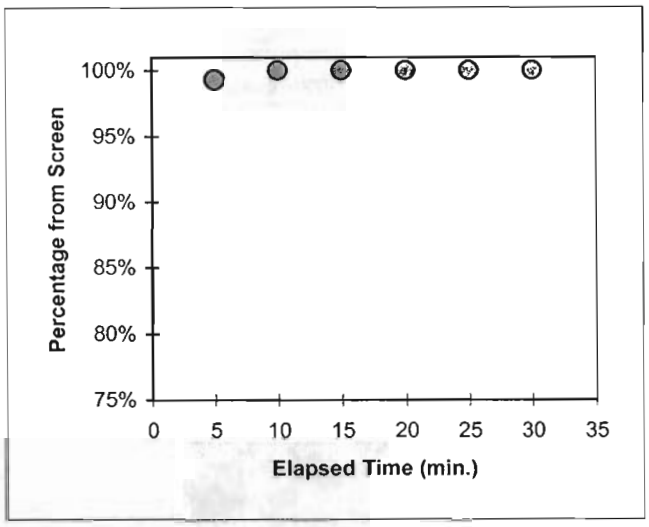
	clear	cloudy	turbid
Water Quality	X		

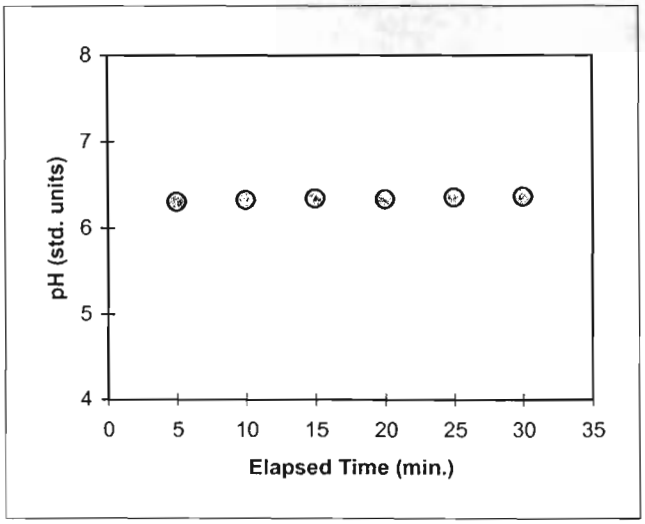
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

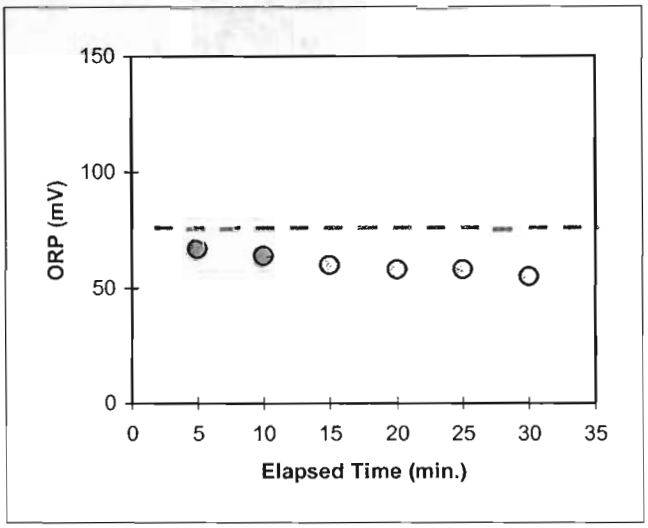
Duplicate			

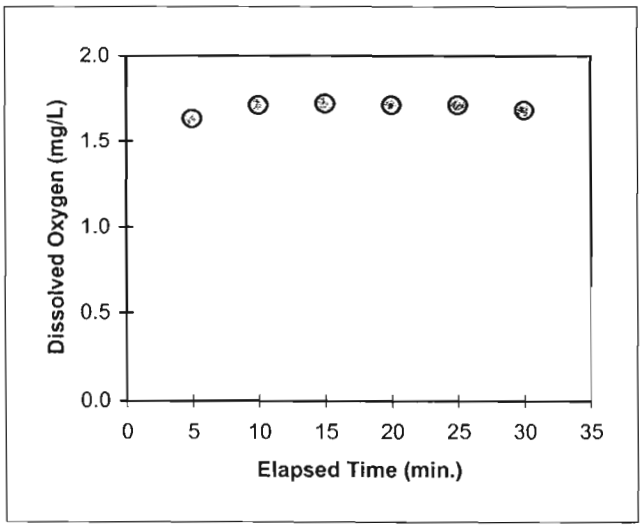
Shipped	8/6/2002	SDG	

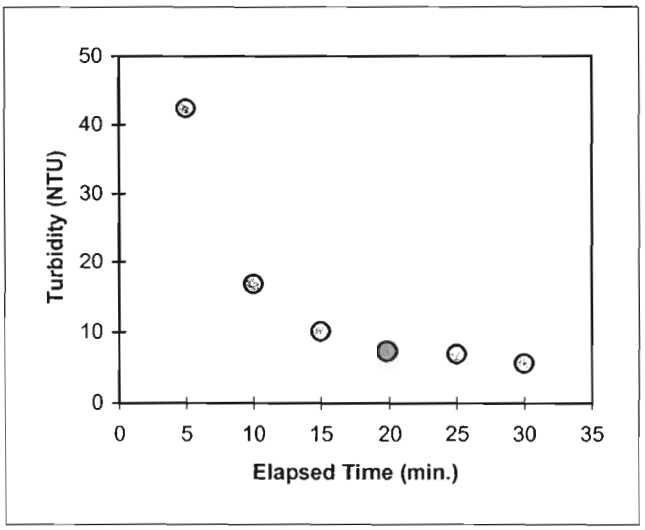

Depth to Water (ft. TOC)
26.00
26.25
26.50
26.75
27.00
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0 5 10 15 20 25 30 35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0 5 10 15 20 25 30 35
Elapsed Time (min.)


ORP (mV)
150
100
50
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Turbidity (NTU)
50
40
30
20
10
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)

Well ID	PZ-6A	Start	1220	Team	KM	DC	DM
Date	8/6/2002	Finish	1255	Diameter	2 inches		

Depth to Water	26.62 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	31.55 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	30 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.90 L/min	Comments	Sample collected @ 1255		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

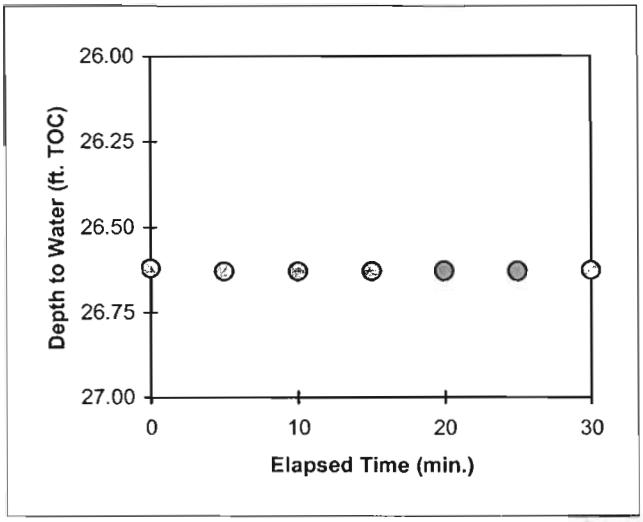
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	26.62						
5	26.63	5.70	211	16.75	0.267	4.54	567.0
10	26.63	5.69	218	17.43	0.267	4.50	112.0
15	26.63	5.74	221	17.45	0.267	4.52	33.0
20	26.63	5.73	226	17.46	0.267	4.49	21.9
25	26.63	5.74	230	17.51	0.267	4.49	12.0
30	26.63	5.75	230	17.29	0.267	4.47	10.1
35	26.63	5.80	231	17.38	0.267	4.45	8.8

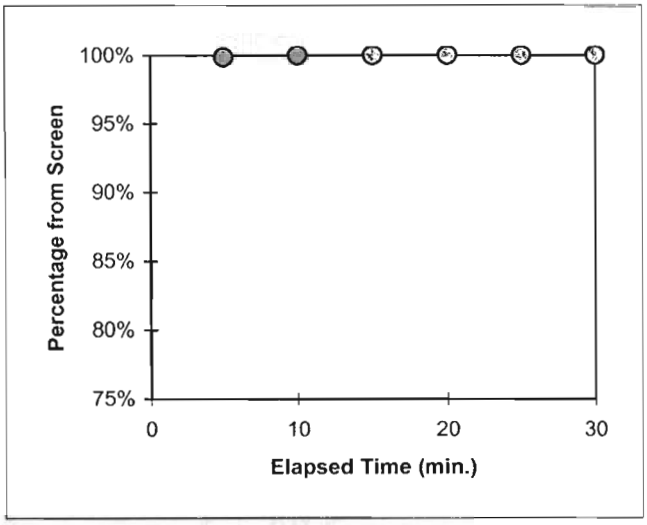
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

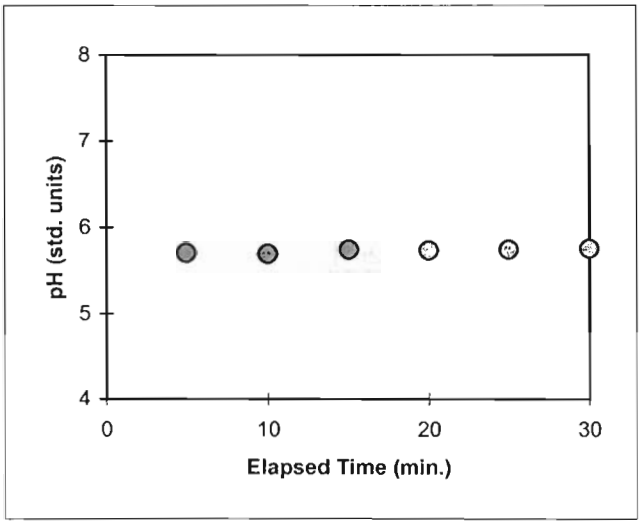
	clear	cloudy	turbid
Water Quality		X	

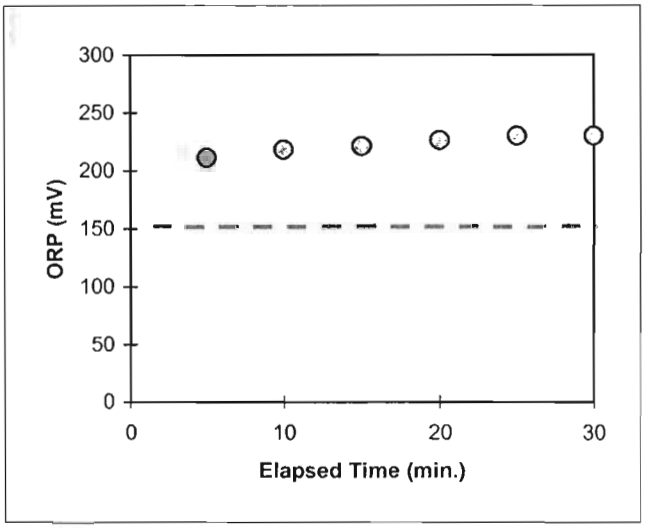
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

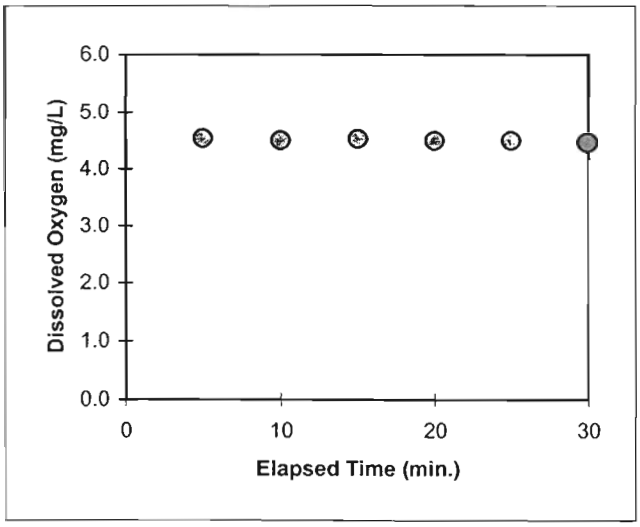
Duplicate		Shipped	8/6/2002
		SDG	

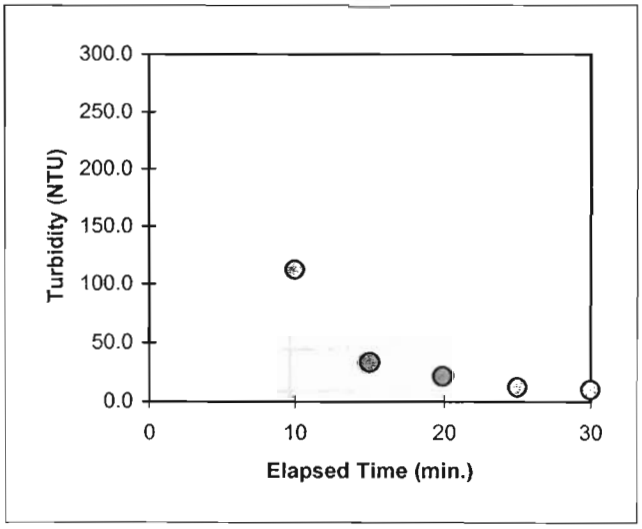

Depth to Water (ft. TOC)
26.00
26.25
26.50
26.75
27.00
0
10
20
30
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
10
20
30
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0
10
20
30
Elapsed Time (min.)


Turbidity (NTU)
300.0
250.0
200.0
150.0
100.0
50.0
0.0
0
10
20
30
Elapsed Time (min.)

Well ID	PZ-6C	Start	1130	Team	KM DC	
Date	8/6/2002	Finish	1205	Diameter	2 inches	

Depth to Water	26.61 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	89.34 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	84 ft TOC	Bailer		Split-Sample?	
Pump Rate	0.80 L/min	Comments	Sample collected @ 1210		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

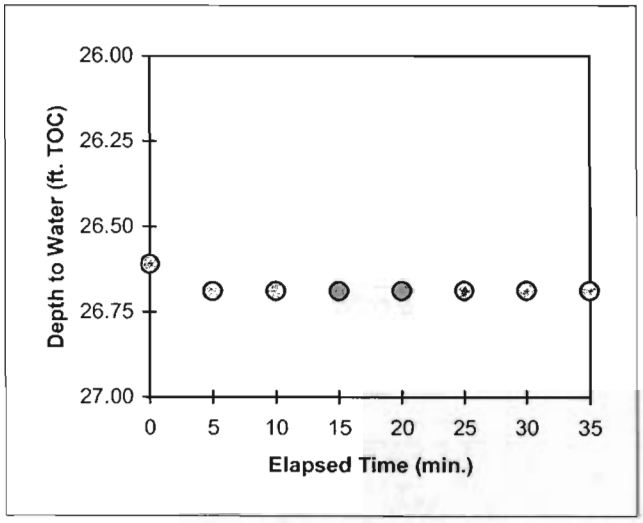
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	26.61						
5	26.69	5.64	195	17.38	0.343	3.19	999.0
10	26.69	5.67	206	17.40		3.07	428.0
15	26.69	5.52	220	17.46	0.348	3.06	154.0
20	26.69	5.56	220	17.38	0.347	3.10	70.2
25	26.69	5.63	221	17.52	0.348	3.01	40.1
30	26.69	5.64	223	17.43	0.347	3.05	14.1
35	26.69	5.63	229	17.49	0.345	3.09	15.0

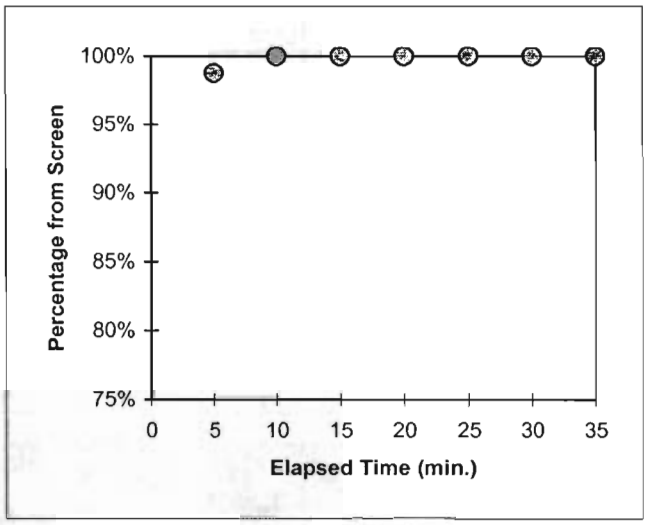
Analyses		
	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

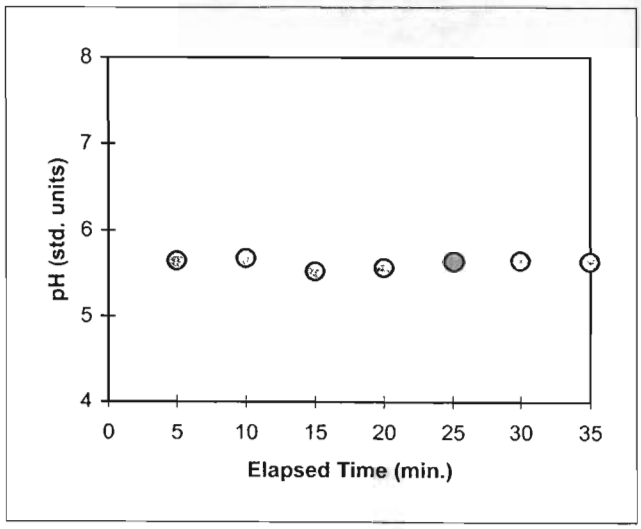
	clear	cloudy	turbid
Water Quality		X	

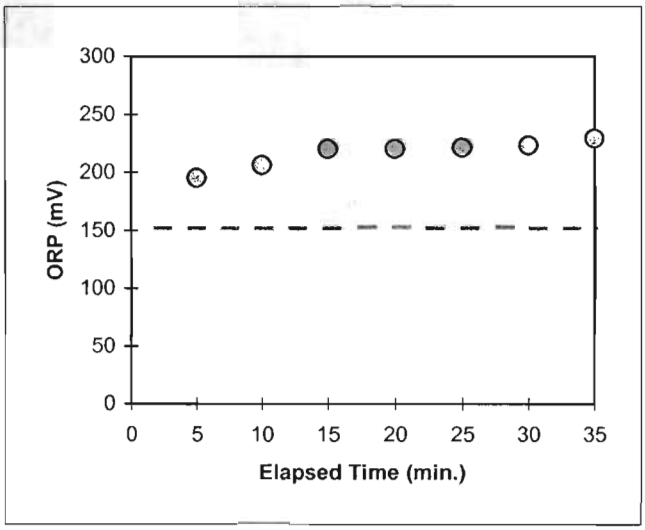
Post-sampling			
	CO_2		pct
	CH_4		pct
	O_2		pct

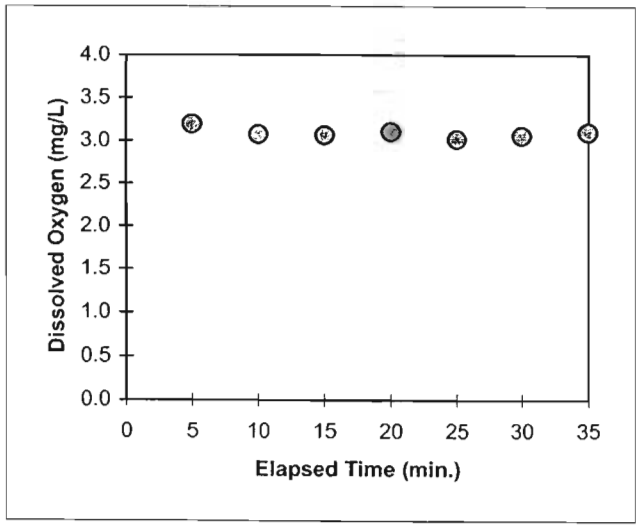
Duplicate			
Shipped	8/6/2002	SDG	

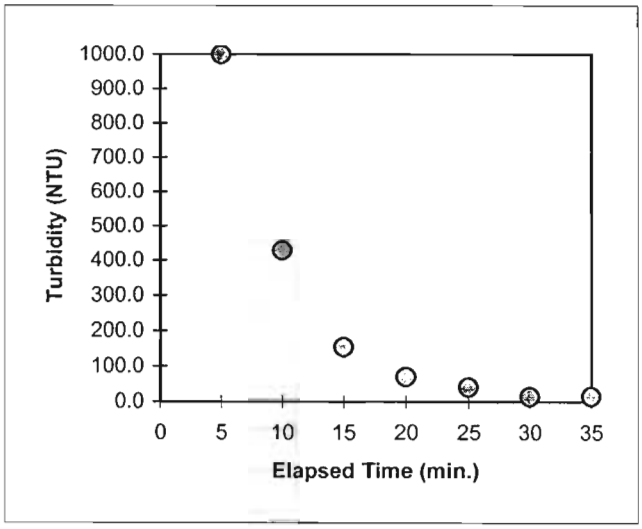

Depth to Water (ft. TOC)
26.00
26.25
26.50
26.75
27.00
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0 5 10 15 20 25 30 35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0 5 10 15 20 25 30 35
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)


Turbidity (NTU)
1000.0
900.0
800.0
700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
0 5 10 15 20 25 30 35
Elapsed Time (min.)

Well ID	PZ-7A	Start	1040	Team	KM DC	
Date	8/6/2002	Finish	1110	Diameter	2 inches	

Depth to Water	26.16 ft TOC		2-inch pump	X	Duplicate?	
Total Depth	29.56 ft TOC		Whale Pump		MS/MSD?	
Depth to Pump	28.00 ft TOC		Bailer		Split-Sample?	
Pump Rate	0.90 L/min		Comments	Sample collected @ 1115		
adjusted to:	L/min	at	minutes			
adjusted to:	L/min	at	minutes			

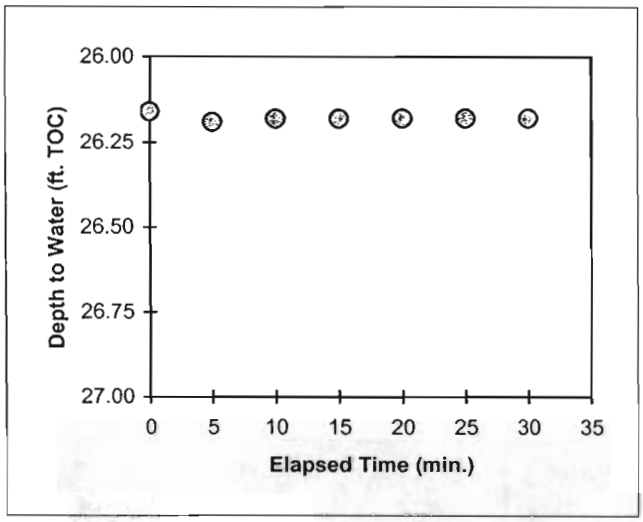
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	26.16						
5	26.19	5.81	176	17.17	0.291	5.16	162.0
10	26.18	5.82	193	16.80	0.289	5.05	54.4
15	26.18	5.84	199	16.79	0.290	4.99	40.4
20	26.18	5.87	205	16.70	0.290	5.01	34.1
25	26.18	5.87	209	16.65	0.290	4.98	34.0
30	26.18	5.88	210	16.70	0.290	4.99	30.1

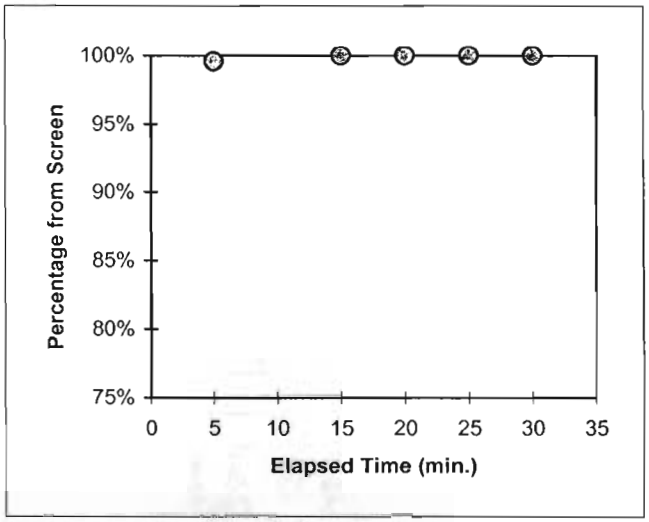
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

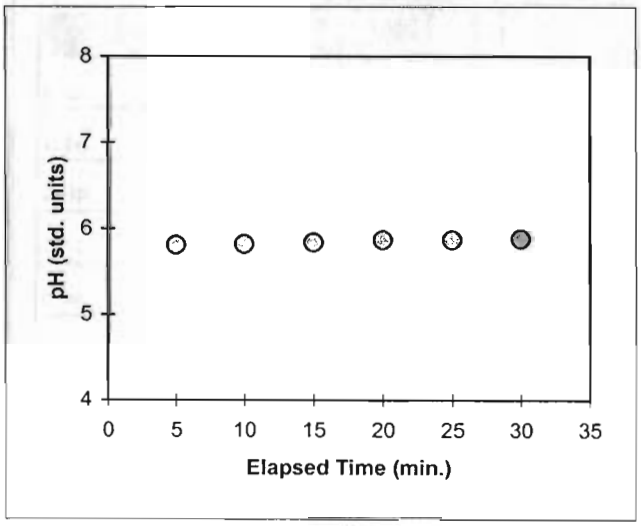
	clear	cloudy	turbid
Water Quality	X		

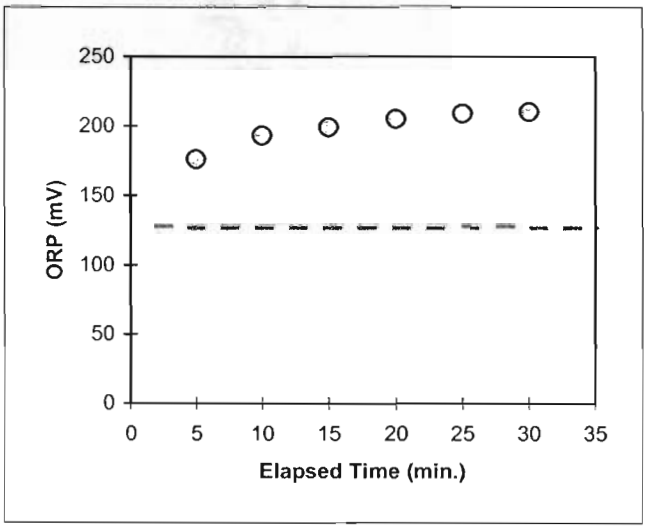
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

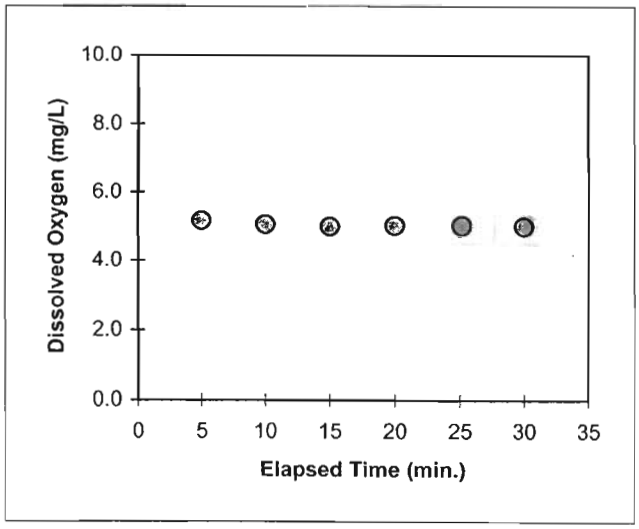
Duplicate		Shipped	8/6/2002	SDG	

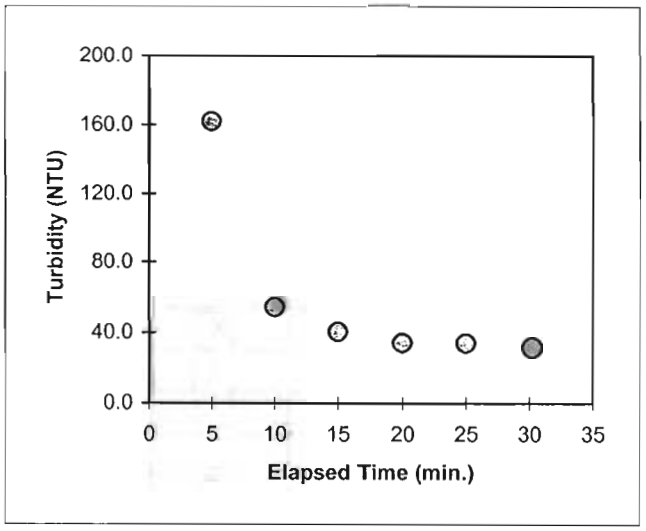

Depth to Water (ft. TOC)
26.00
26.25
26.50
26.75
27.00
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
5
10
15
20
25
30
35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
5
10
15
20
25
30
35
Elapsed Time (min.)


ORP (mV)
250
200
150
100
50
0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Turbidity (NTU)
200.0
160.0
120.0
80.0
40.0
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)

Well ID	PZ-7C	Start	955	Team	KM	DC	DM
Date	8/6/2002	Finish	1025	Diameter	2 inches		

Depth to Water	26.21 ft TOC	2-inch pump	X	Duplicate?	
Total Depth	90.41 ft TOC	Whale Pump		MS/MSD?	
Depth to Pump	85 ft TOC	Bailer		Split-Sample?	
Pump Rate	1.00 L/min	Comments	Sample collected @ 1115		
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	26.21						
5	26.29	5.43	-49	16.82	0.435	0.47	533.0
10	26.29	5.55	-147	17.06	0.442	0.41	213.0
15	26.29	5.56	-174	17.05	0.445	0.43	110.0
20	26.29	5.58	-178	17.15	0.447	0.49	73.8
25	26.29	5.62	-178	17.16	0.447	0.68	47.8

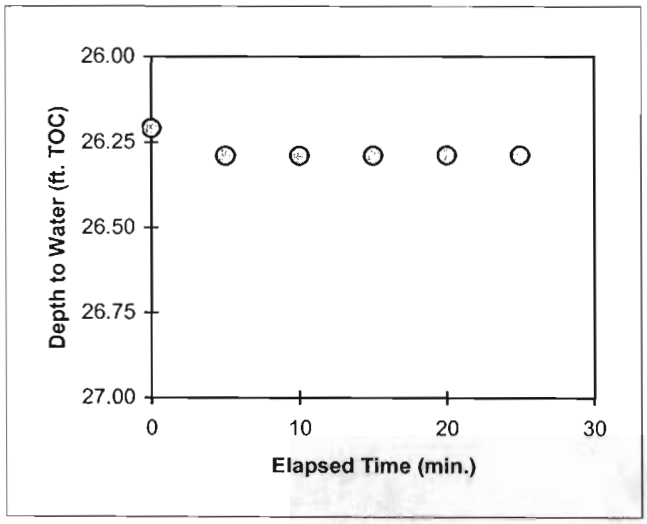
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

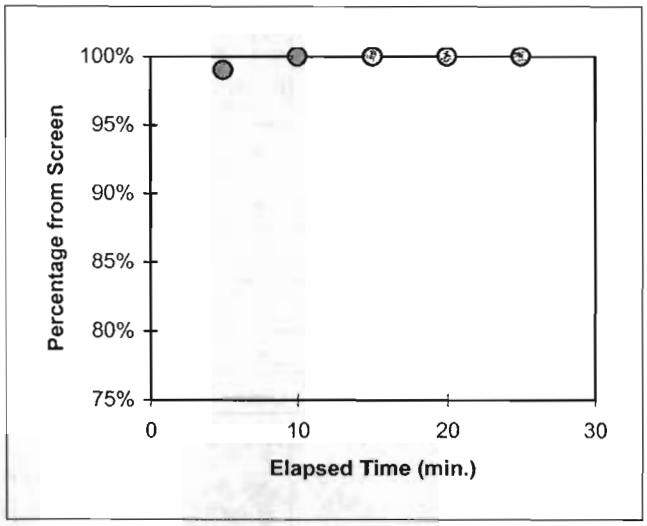
	clear	cloudy	turbid
Water Quality	X		

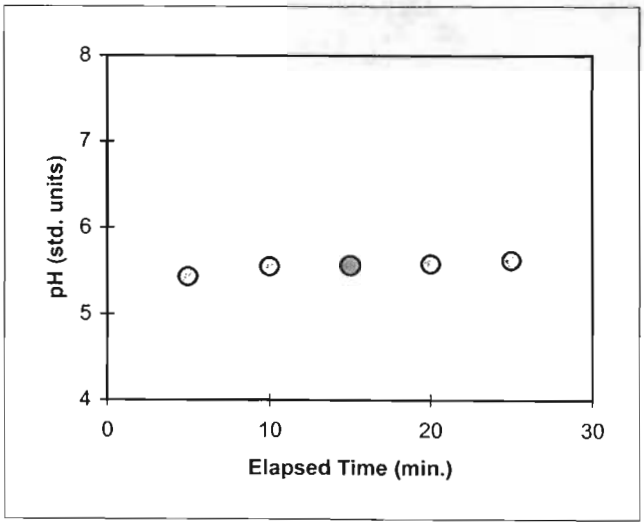
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

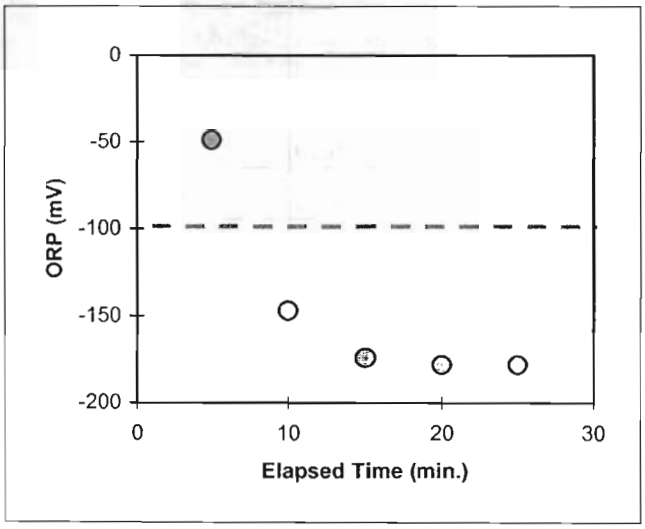
Duplicate	

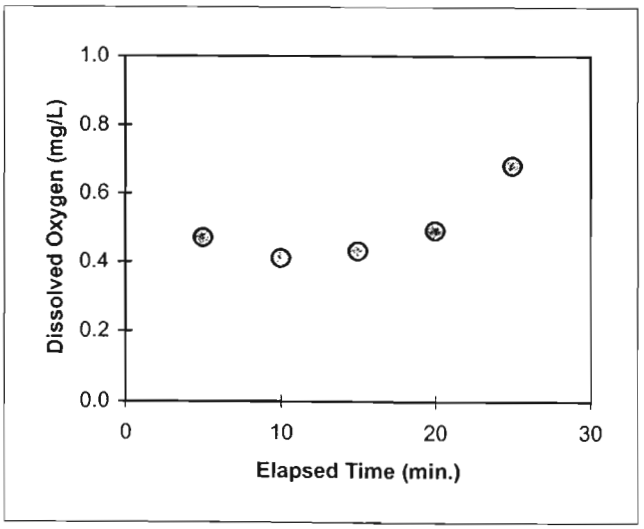
Shipped	8/6/2002	SDG	

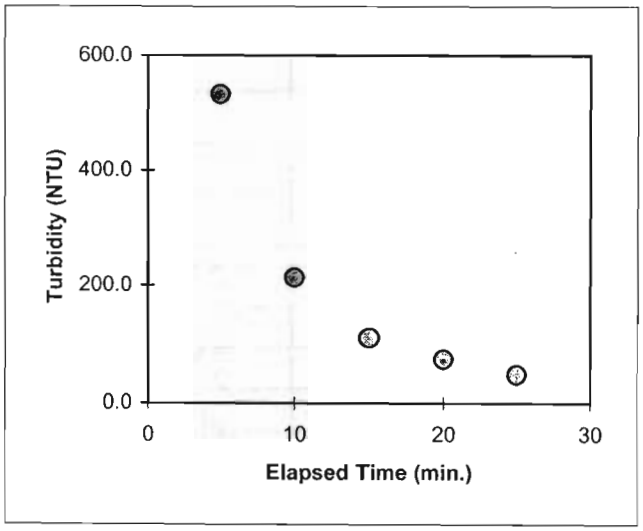

Depth to Water (ft. TOC)
26.00
26.25
26.50
26.75
27.00
0
10
20
30
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
Elapsed Time (min.)


ORP (mV)
0
-50
-100
-150
-200
0
10
20
30
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
Elapsed Time (min.)


Turbidity (NTU)
600.0
400.0
200.0
0.0
0
10
20
30
Elapsed Time (min.)

Well ID	PZ-9A	Start	1350	Team	KM DC
Date	8/6/2002	Finish	1425	Diameter	2 inches

Depth to Water	25.92 ft TOC		2-inch pump	X	Duplicate?
Total Depth	30.10 ft TOC		Whale Pump		MS/MSD?
Depth to Pump	29 ft TOC		Bailer		Split-Sample?
Pump Rate	0.80 L/min		Comments	Sample collected @ 1425	
adjusted to:	L/min	at	minutes		
adjusted to:	L/min	at	minutes		

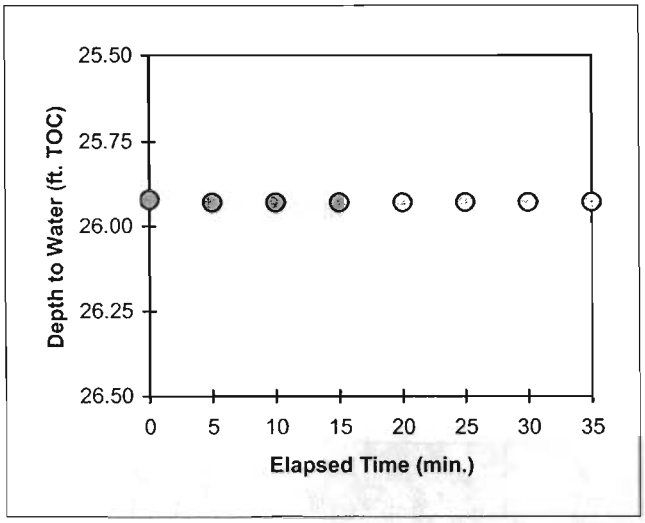
Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	25.92						
5	25.93	5.75	226	16.83	0.276	3.73	8.2
10	25.93	5.79	230	17.12	0.276	3.61	3.2
15	25.93	5.80	231	17.16	0.276	3.57	3.2
20	25.93	5.82	233	17.32	0.276	3.57	3.8
25	25.93	5.82	236	17.01	0.276	3.66	3.0
30	25.93	5.83	236	17.06	0.276	3.77	3.0
35	25.93	5.84	238	17.07	0.276	3.87	3.1

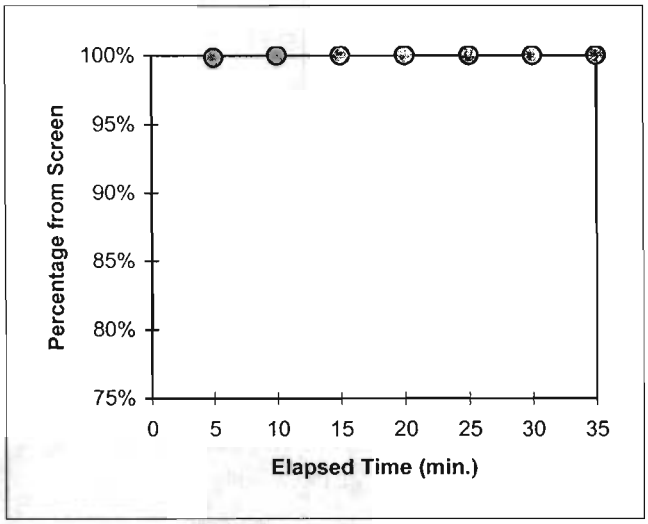
Analyses		
	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

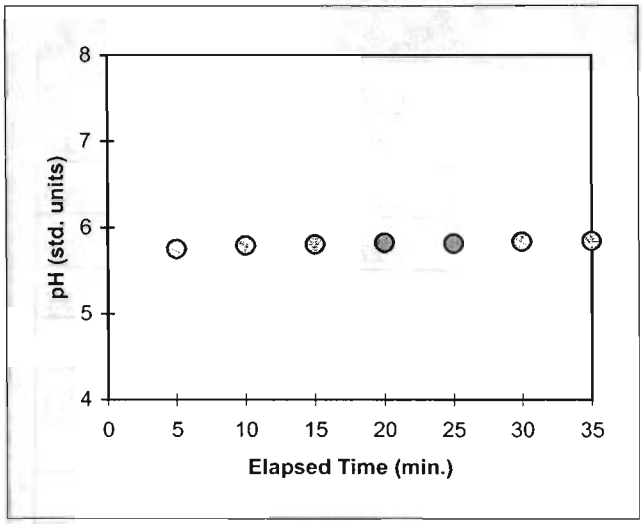
	clear	cloudy	turbid
Water Quality	X		

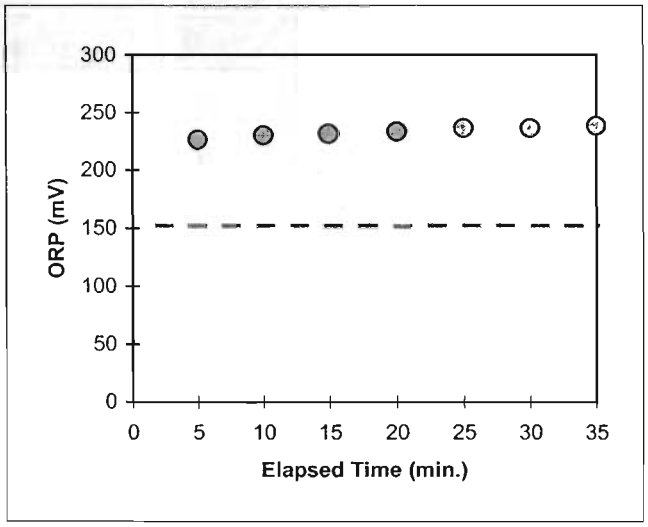
Post-sampling			
	CO_2		pct
	CH_4		pct
	O_2		pct

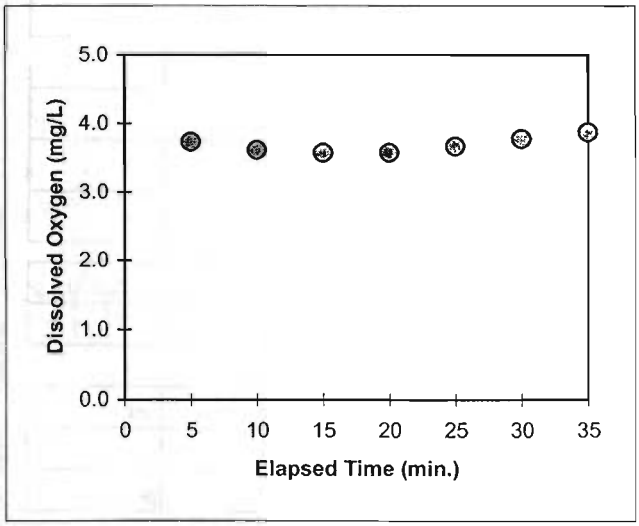
Duplicate		Shipped	8/6/2002	SDG	

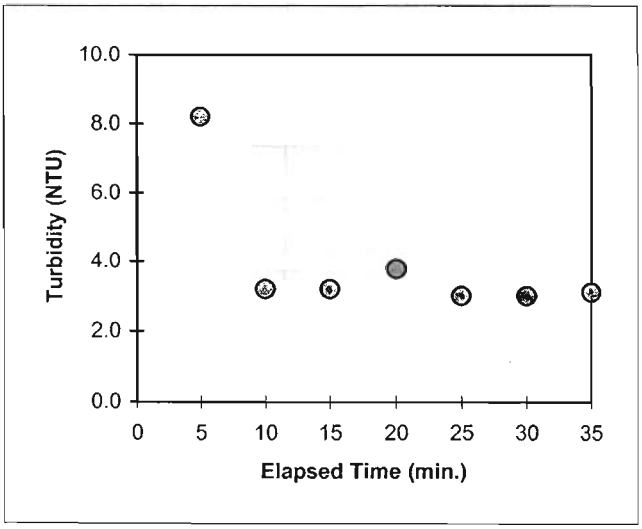

Depth to Water (ft. TOC)
25.50
25.75
26.00
26.25
26.50
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
5
10
15
20
25
30
35
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
5
10
15
20
25
30
35
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)


Turbidity (NTU)
10.0
8.0
6.0
4.0
2.0
0.0
0
5
10
15
20
25
30
35
Elapsed Time (min.)

Well ID	PZ-10A	Start	1315	Team	KM DC	
Date	8/6/2002	Finish	1345	Diameter	2 inches	

Depth to Water	26.70 ft TOC		2-inch pump	X	Duplicate?	
Total Depth	29.96 ft TOC		Whale Pump		MS/MSD?	
Depth to Pump	28.5 ft TOC		Bailer		Split-Sample?	
Pump Rate	0.90 L/min		Comments	Sample collected @ 1345		
adjusted to:	L/min	at	minutes			
adjusted to:	L/min	at	minutes			

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	26.70						
5	26.74	5.75	208	17.47	0.290	3.47	54.4
10	26.74	5.83	217	17.50	0.290	3.36	13.0
15	26.74	5.76	228	17.28	0.288	3.36	6.1
20	26.74	5.84	227	17.35	0.288	3.36	5.2
25	26.74	5.84	226	17.42	0.288	3.39	5.0
30	26.74	5.85	227	17.51	0.289	3.39	4.8

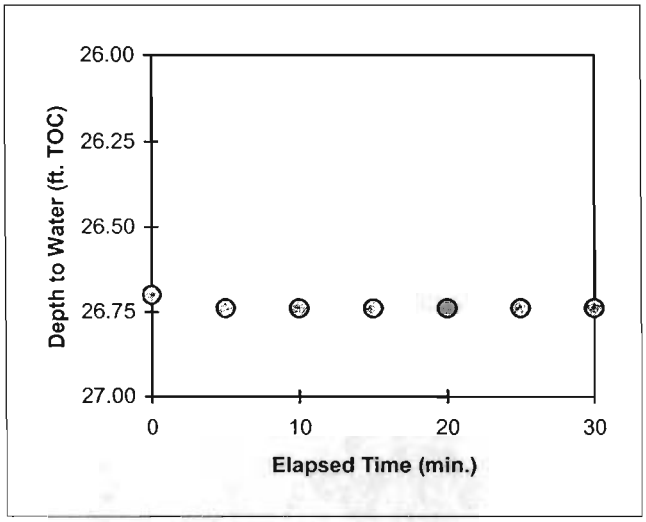
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

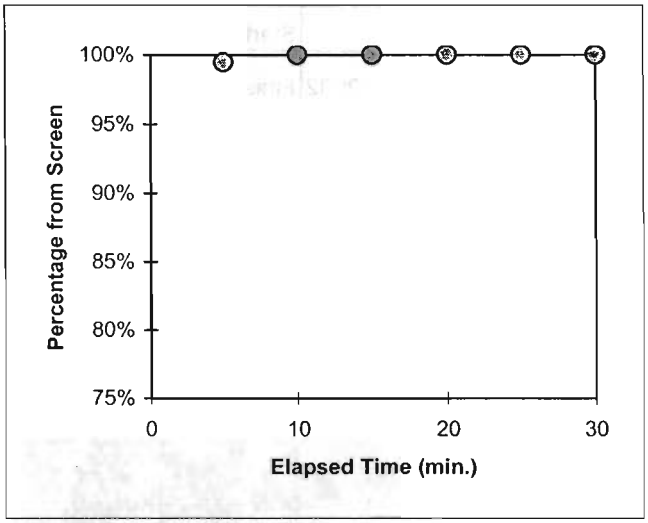
	clear	cloudy	turbid
Water Quality	X		

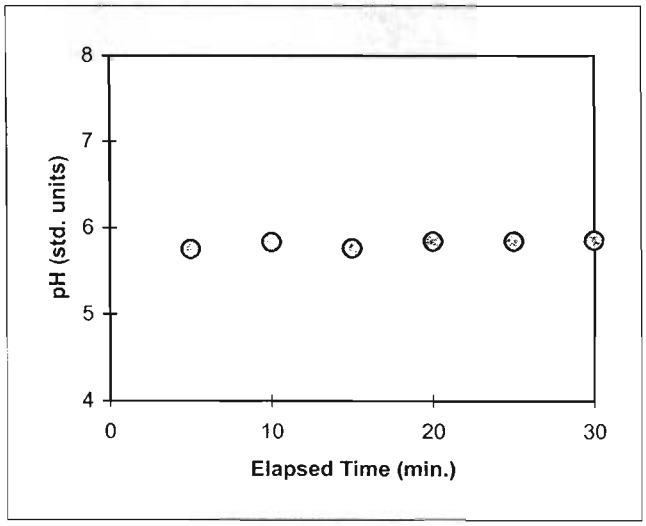
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

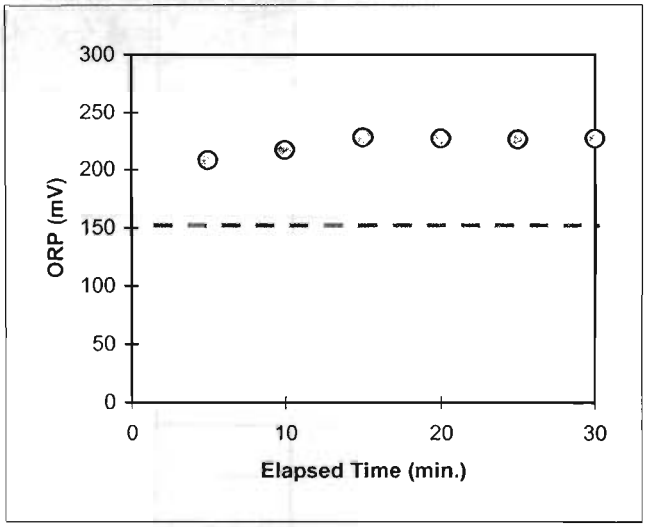
Duplicate			

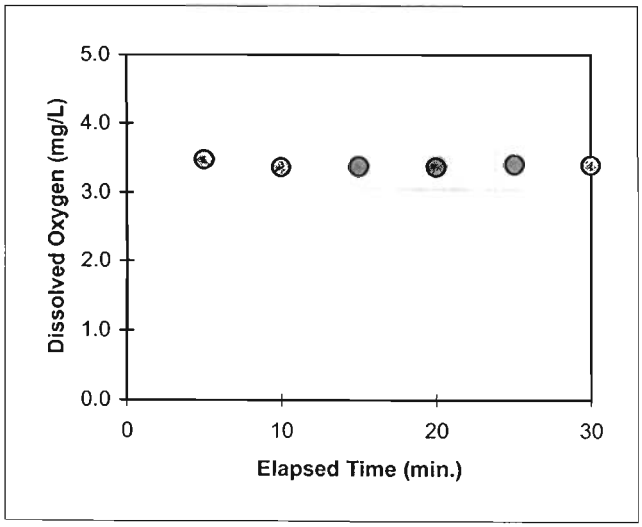
Shipped	8/6/2002	SDG	

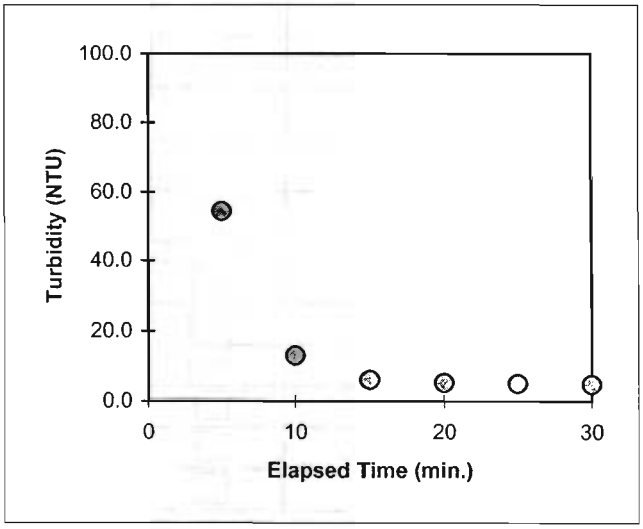

Depth to Water (ft. TOC)
26.00
26.25
26.50
26.75
27.00
0
10
20
30
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
10
20
30
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
10
20
30
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
10
20
30
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0
10
20
30
Elapsed Time (min.)


Turbidity (NTU)
100.0
80.0
60.0
40.0
20.0
0.0
0
10
20
30
Elapsed Time (min.)

Well ID	RW-1	Start	1600	Team	KM DC	
Date	8/7/2002	Finish	1610	Diameter	8 inches	

Depth to Water	ft TOC		6-inch pump	X	Duplicate?	
Total Depth	ft TOC		Whale Pump		MS/MSD?	
Depth to Pump	35.0 ft TOC		Bailer		Split-Sample?	
Pump Rate	49.00 gal/min		Comments	Sample collected @ 1610		
adjusted to:	L/min	at	minutes			
adjusted to:	L/min	at	minutes			

Time (minutes)	Depth to Water (ft TOC)	pH (std units)	ORP (mV)	Temperature (deg C)	Spec. Cond. (mS/cm)	Diss. Oxygen (mg/L)	Turbidity (NTU)
0	0.00						
5		5.86	248	14.93	0.347	2.82	8.1
6		5.86	250	14.93	0.347	2.92	4.3
7		5.85	250	14.94	0.347	3.02	4.8

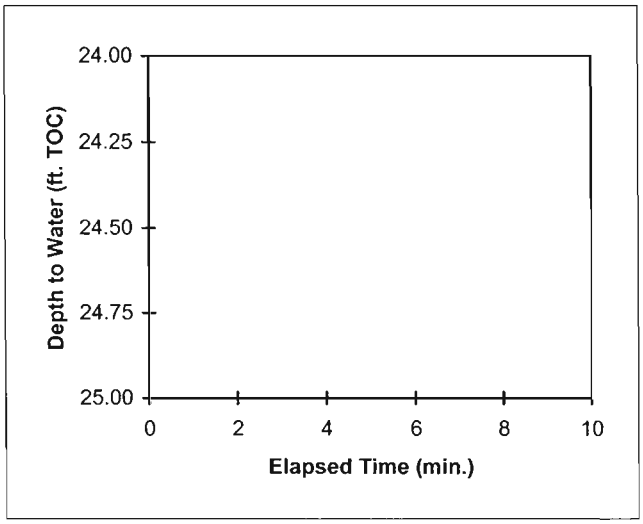
Analyses	TCL VOCs	X
	Cd, Cr, Fe	X
	Cr-VI	X

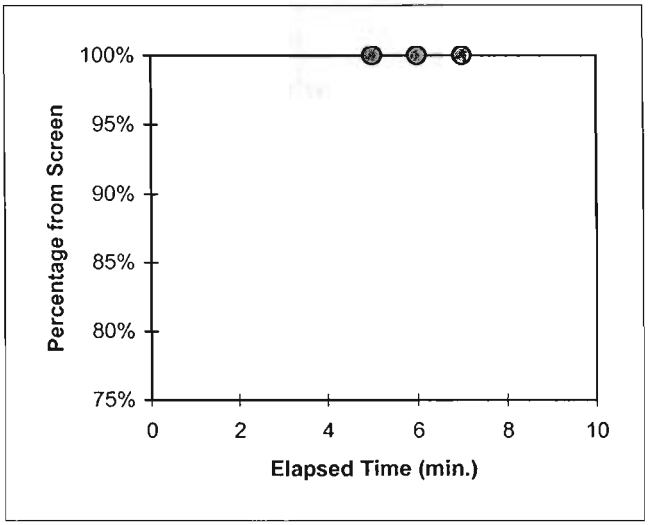
	clear	cloudy	turbid
Water Quality	X		

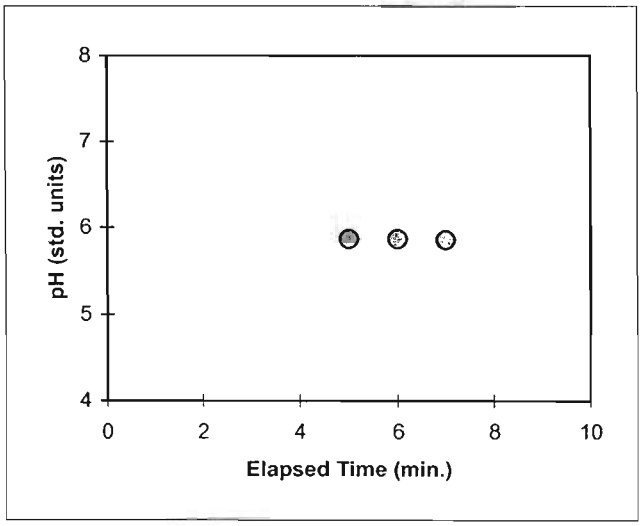
Post-sampling	CO_2		pct
	CH_4		pct
	O_2		pct

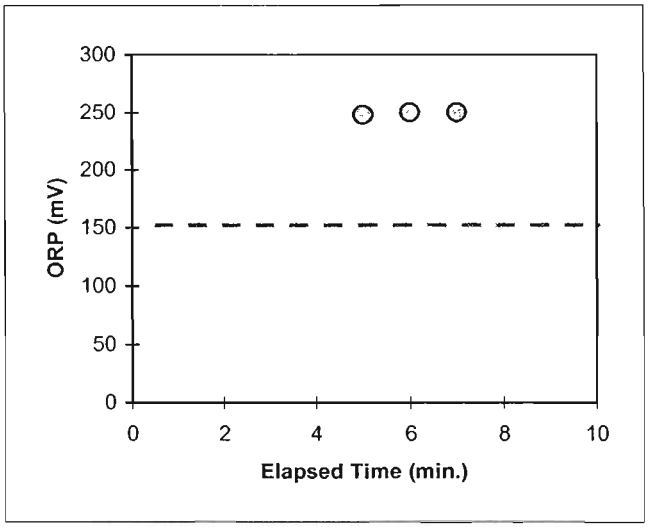
Duplicate	

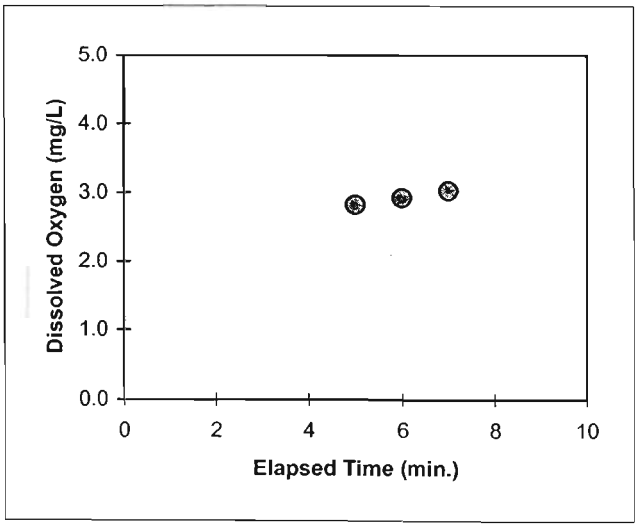
Shipped	8/7/2002	SDG	

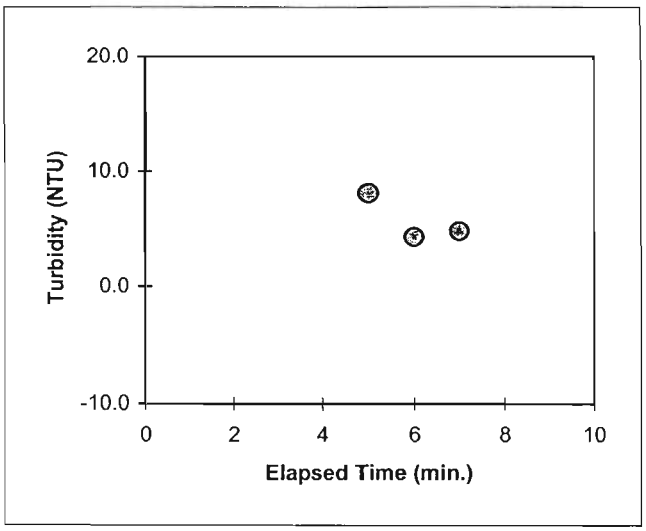

Depth to Water (ft. TOC)
24.00
24.25
24.50
24.75
25.00
0
2
4
6
8
10
Elapsed Time (min.)


Percentage from Screen
100%
95%
90%
85%
80%
75%
0
2
4
6
8
10
Elapsed Time (min.)


pH (std. units)
8
7
6
5
4
0
2
4
6
8
10
Elapsed Time (min.)


ORP (mV)
300
250
200
150
100
50
0
0
2
4
6
8
10
Elapsed Time (min.)


Dissolved Oxygen (mg/L)
5.0
4.0
3.0
2.0
1.0
0.0
0
2
4
6
8
10
Elapsed Time (min.)


Turbidity (NTU)
20.0
10.0
0.0
-10.0
0
2
4
6
8
10
Elapsed Time (min.)

Client ID: **PZ-10A**
Site: Liberty Industrial

Lab Sample No: **367667**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/09/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28448.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	1.8J	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	7.9	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	3.1	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-10A**
Site: **Liberty Industrial**

Lab Sample No: **367667**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/09/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28448.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **PZ-6C**
Site: Liberty Industrial

Lab Sample No: **367668**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/09/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28449.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-6C**
Site: Liberty Industrial

Lab Sample No: **367668**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/09/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28449.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **PZ-7A**
Site: Liberty Industrial

Lab Sample No: **367669**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/09/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28450.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	9.1	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	59	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	73	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	5.1	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	3.1	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-7A**
Site: Liberty Industrial

Lab Sample No: **367669**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/09/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28450.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-7B**
Site: Liberty Industrial

Lab Sample No: **367670**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/09/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28451.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.0J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-7B**
Site: Liberty Industrial

Lab Sample No: **367670**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/09/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28451.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
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27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-7A**
Site: Liberty Industrial

Lab Sample No: **367671**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28462.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	7.3	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	19	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	35	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	6.5	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.6	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-7A**
Site: Liberty Industrial

Lab Sample No: **367671**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28462.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
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28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **PZ-7C**
Site: Liberty Industrial

Lab Sample No: **367672**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28463.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	0.8J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-7C**
Site: Liberty Industrial

Lab Sample No: **367672**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28463.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **PZ-6A**
Site: Liberty Industrial

Lab Sample No: **367673**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28464.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	0.6J	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	5.2	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.9	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-6A**
Site: Liberty Industrial

Lab Sample No: **367673**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28464.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
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28.			
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30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **PZ-9A**
Site: Liberty Industrial

Lab Sample No: **367674**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28465.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	8.9	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	66	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	3.4	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-9A**
Site: Liberty Industrial

Lab Sample No: **367674**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28465.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **PZ-5C**
Site: Liberty Industrial

Lab Sample No: **367675**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28466.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-5C**
Site: Liberty Industrial

Lab Sample No: **367675**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28466.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	Propane, 2-methoxy-2-methyl-	6.35	12	
2.				
3.				
4.				
5.				
6.				
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26.				
27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION 12

Client ID: **PZ-5B**
Site: Liberty Industrial

Lab Sample No: **367676**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28467.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-5B**
Site: Liberty Industrial

Lab Sample No: **367676**
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d28467.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
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28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **PZ-10A**
Site: **Liberty Industrial**

Lab Sample No: 367667
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	119	0.40		P
Chromium	27.6	2.8		P
Iron	50.4	39.7	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-6C**
Site: **Liberty Industrial**

Lab Sample No: 367668
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	4.9	0.40		P
Chromium	9.4	2.8	B	P
Iron	614	39.7		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-7A**
Site: **Liberty Industrial**

Lab Sample No: 367669
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	1.5	0.40	B	P
Chromium	185	2.8		P
Iron	114	39.7	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-7B**
Site: **Liberty Industrial**

Lab Sample No: 367670
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	5.0	0.40		P
Chromium	4.2	2.8	B	P
Iron	94.6	39.7	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-7A**
Site: **Liberty Industrial**

Lab Sample No: 367671
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: uq/l	Instrument Detection Limit	Qual	M
Cadmium	1.2	0.40	B	P
Chromium	89.3	2.8		P
Iron	90.3	39.7	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-7C**
Site: **Liberty Industrial**

Lab Sample No: 367672
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	ND	0.40		P
Chromium	14.6	2.8		P
Iron	11200	39.7		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-6A**
Site: **Liberty Industrial**

Lab Sample No: 367673
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	40.3	0.40		P
Chromium	75.4	2.8		P
Iron	148	39.7	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-9A**
Site: **Liberty Industrial**

Lab Sample No: 367674
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	243	0.40		P
Chromium	43.5	2.8		P
Iron	ND	39.7		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-5C**
Site: **Liberty Industrial**

Lab Sample No: 367675
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	ND	0.80		P
Chromium	ND	5.6		P
Iron	180000	79.4		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-5B**
Site: **Liberty Industrial**

Lab Sample No: 367676
Lab Job No: Z200

Date Sampled: 08/06/02
Date Received: 08/07/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	7.6	0.40		P
Chromium	ND	2.8		P
Iron	2930	39.7		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Site: Liberty Industrial

Lab Job No: Z200

Date Received: 08/07/2002

Date Extracted: 08/07/2002

Date Analyzed: 08/07/2002

Matrix: WATER

QA Batch: 1358

Chromium VI

STL Edison Sample #	Client ID	Sample Date	Dilution Factor	Analytical Result Units: ug/l
367667	PZ-10A	08/06/2002	1.0	13.0
367668	PZ-6C	08/06/2002	1.0	ND
367669	PZ-7A	08/06/2002	1.0	171
367670	MW-7B	08/06/2002	1.0	ND
367671	MW-7A	08/06/2002	1.0	76.9
367672	PZ-7C	08/06/2002	1.0	ND
367673	PZ-6A	08/06/2002	1.0	60.6
367674	PZ-9A	08/06/2002	1.0	31.8
367675	PZ-5C	08/06/2002	1.0	ND
367676	PZ-5B	08/06/2002	1.0	ND

Quantitation Limit for Chromium VI is 10.0 ug/l.

Client ID: **MW-41A**
Site: Liberty Industrial

Lab Sample No: **367885**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52432.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	5.3	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	13	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	0.8J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-41A**
Site: Liberty Industrial

Lab Sample No: **367885**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52432.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-1**
Site: Liberty Industrial

Lab Sample No: **367886**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52433.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	7.6	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	22	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.0	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-1**
Site: Liberty Industrial

Lab Sample No: **367886**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52433.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-2B**
Site: Liberty Industrial

Lab Sample No: **367887**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52434.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-2B**
Site: Liberty Industrial

Lab Sample No: **367887**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52434.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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27.			
28.			
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30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-18**
Site: Liberty Industrial

Lab Sample No: **367888**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52435.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	25	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.0J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-18**
Site: Liberty Industrial

Lab Sample No: **367888**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52435.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
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30.			

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-21**
Site: Liberty Industrial

Lab Sample No: **367889**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52436.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	4.7J	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	20	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	34	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	5.4	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.8	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-21**
Site: Liberty Industrial

Lab Sample No: **367889**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52436.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
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TOTAL ESTIMATED CONCENTRATION 0.0

Client ID: **PZ-3B**
Site: Liberty Industrial

Lab Sample No: **367890**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52437.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	0.6J	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	0.6J	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	3.6	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	0.6J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-3B**
Site: Liberty Industrial

Lab Sample No: **367890**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52437.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
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27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **PZ-3C**
Site: Liberty Industrial

Lab Sample No: **367891**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52438.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	1.6J	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	1.1J	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	1.3	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **PZ-3C**
Site: Liberty Industrial

Lab Sample No: **367891**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52438.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-6A**
Site: Liberty Industrial

Lab Sample No: **367892**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52439.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	24	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	40	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	3.2	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-6A**
Site: Liberty Industrial

Lab Sample No: **367892**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52439.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-6B**
Site: Liberty Industrial

Lab Sample No: **367893**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52440.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-6B**
Site: Liberty Industrial

Lab Sample No: **367893**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52440.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
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30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **RW-1**
Site: Liberty Industrial

Lab Sample No: **367894**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52441.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	2.1J	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	5.2	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	0.8J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **RW-1**
Site: Liberty Industrial

Lab Sample No: **367894**
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02
Date Analyzed: 08/10/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb52441.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-41A**
Site: **Liberty Industrial**

Lab Sample No: 367885
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	34.6	0.40		P
Chromium	105	1.1		P
Iron	ND	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-1**
Site: **Liberty Industrial**

Lab Sample No: 367886
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	3.5	0.40	B	P
Chromium	106	1.1		P
Iron	ND	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-2B**
Site: **Liberty Industrial**

Lab Sample No: 367887
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	11.7	0.40		P
Chromium	8.7	1.1	B	P
Iron	323	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-18**
Site: **Liberty Industrial**

Lab Sample No: 367888
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	15.7	0.40		P
Chromium	55.1	1.1		P
Iron	ND	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-21**
Site: **Liberty Industrial**

Lab Sample No: 367889
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	1.7	0.40	B	P
Chromium	23.6	1.1		P
Iron	76.5	37.1	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-3B**
Site: **Liberty Industrial**

Lab Sample No: 367890
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	30.1	0.40		P
Chromium	23.8	1.1		P
Iron	2150	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **PZ-3C**
Site: **Liberty Industrial**

Lab Sample No: 367891
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	2.7	0.40	B	P
Chromium	3.5	1.1	B	P
Iron	56.5	37.1	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-6A**
Site: **Liberty Industrial**

Lab Sample No: 367892
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	168	0.40		P
Chromium	106	1.1		P
Iron	140	37.1	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-6B**
Site: **Liberty Industrial**

Lab Sample No: 367893
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	11.9	0.40		P
Chromium	3.5	1.1	B	P
Iron	609	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **RW-1**
Site: **Liberty Industrial**

Lab Sample No: 367894
Lab Job No: Z255

Date Sampled: 08/07/02
Date Received: 08/08/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	112	0.40		P
Chromium	11.6	1.1		P
Iron	ND	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Site: Liberty Industrial

Lab Job No: Z255

Date Received: 08/08/2002
Matrix: WATER

Date Extracted: 08/08/2002
Date Analyzed: 08/08/2002
QA Batch: 1359

Chromium VI

STL Edison Sample #	Client ID	Sample Date	Dilution Factor	Analytical Result Units: ug/l
367885	MW-41A	08/07/2002	1.0	103
367886	MW-1	08/07/2002	1.0	101
367887	MW-2B	08/07/2002	1.0	ND
367888	MW-18	08/07/2002	1.0	44.2
367889	MW-21	08/07/2002	1.0	17.5
367890	PZ-3B	08/07/2002	1.0	ND
367891	PZ-3C	08/07/2002	1.0	ND
367892	MW-6A	08/07/2002	1.0	89.8
367893	MW-6B	08/07/2002	1.0	ND
367894	RW-1	08/07/2002	1.0	ND

Quantitation Limit for Chromium VI is 10.0 ug/l.

Client ID: **MW-38A**
Site: Liberty Industrial

Lab Sample No: **368124**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20816.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	2.6J	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	3.9	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	0.6J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-38A**
Site: Liberty Industrial

Lab Sample No: **368124**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20816.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
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27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-38B**
Site: Liberty Industrial

Lab Sample No: **368125**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20817.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	1.3J	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	0.5J	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	1.3J	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	0.9J	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-38B**
Site: Liberty Industrial

Lab Sample No: **368125**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20817.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
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27.				
28.				
29.				
30.				

TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-39A**
Site: Liberty Industrial

Lab Sample No: **368126**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20818.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	4.6	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-39A**
Site: Liberty Industrial

Lab Sample No: **368126**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20818.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-39B**
Site: Liberty Industrial

Lab Sample No: **368127**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20819.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-39B**
Site: Liberty Industrial

Lab Sample No: **368127**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20819.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-40A**
Site: Liberty Industrial

Lab Sample No: **368128**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20820.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	5.8	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	49	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	38	5.0
Carbon Tetrachloride	6.6	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	14	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.7	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-40A**
Site: Liberty Industrial

Lab Sample No: **368128**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20820.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-40B**
Site: Liberty Industrial

Lab Sample No: **368129**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20821.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.0	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-40B**
Site: Liberty Industrial

Lab Sample No: **368129**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20821.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-42A**
Site: Liberty Industrial

Lab Sample No: **368130**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/13/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20837.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	1.2J	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	0.7J	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	8.1	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	1.1	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-42A**
Site: Liberty Industrial

Lab Sample No: **368130**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/13/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20837.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
4.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-43A**
Site: Liberty Industrial

Lab Sample No: **368131**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20823.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-43A**
Site: Liberty Industrial

Lab Sample No: **368131**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20823.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-44A**
Site: Liberty Industrial

Lab Sample No: **368132**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20824.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	0.8J	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	1.1J	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	7.4	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	7.0	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-44A**
Site: Liberty Industrial

Lab Sample No: **368132**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20824.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **Dup-080802**
Site: Liberty Industrial

Lab Sample No: **368134**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20826.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	5.2	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **Dup-080802**
Site: Liberty Industrial

Lab Sample No: **368134**
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02
Date Analyzed: 08/12/02
GC Column: DB624
Instrument ID: VOAMS3.i
Lab File ID: c20826.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

	COMPOUND NAME	RT	EST. CONC. ug/l	Q
1.	NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.				
3.				
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TOTAL ESTIMATED CONCENTRATION	0.0

Client ID: **MW-38A**
Site: **Liberty Industrial**

Lab Sample No: 368124
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	110	0.40		P
Chromium	77.0	1.1		P
Iron	815	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-38B**
Site: **Liberty Industrial**

Lab Sample No: 368125
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	20.6	0.40		P
Chromium	83.4	1.1		P
Iron	4830	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-39A**
Site: **Liberty Industrial**

Lab Sample No: 368126
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	293	0.40		P
Chromium	112	1.1		P
Iron	ND	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-39B**
Site: **Liberty Industrial**

Lab Sample No: 368127
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	15.0	0.40		P
Chromium	12.9	1.1		P
Iron	377	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-40A**
Site: **Liberty Industrial**

Lab Sample No: 368128
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	9.9	0.40		P
Chromium	385	1.1		P
Iron	58.7	37.1	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-40B**
Site: **Liberty Industrial**

Lab Sample No: 368129
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	21.6	0.40		P
Chromium	13.0	1.1		P
Iron	1520	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-42A**
Site: **Liberty Industrial**

Lab Sample No: 368130
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	38.3	0.40		P
Chromium	1.7	1.1	B	P
Iron	22200	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-43A**
Site: **Liberty Industrial**

Lab Sample No: 368131
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	0.52	0.40	B	P
Chromium	2.9	1.1	B	P
Iron	111	37.1	B	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **MW-44A**
Site: **Liberty Industrial**

Lab Sample No: 368132
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	ND	0.40		P
Chromium	6.1	1.1	B	P
Iron	522	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **Dup-080802**
Site: **Liberty Industrial**

Lab Sample No: 368134
Lab Job No: Z299

Date Sampled: 08/08/02
Date Received: 08/09/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

Analyte	Analytical Result Units: ug/l	Instrument Detection Limit	Qual	M
Cadmium	304	0.40		P
Chromium	114	1.1		P
Iron	ND	37.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Site: Liberty Industrial

Lab Job No: Z299

Date Extracted: 08/09/2002

Date Received: 08/09/2002

Date Analyzed: 08/09/2002

Matrix: WATER

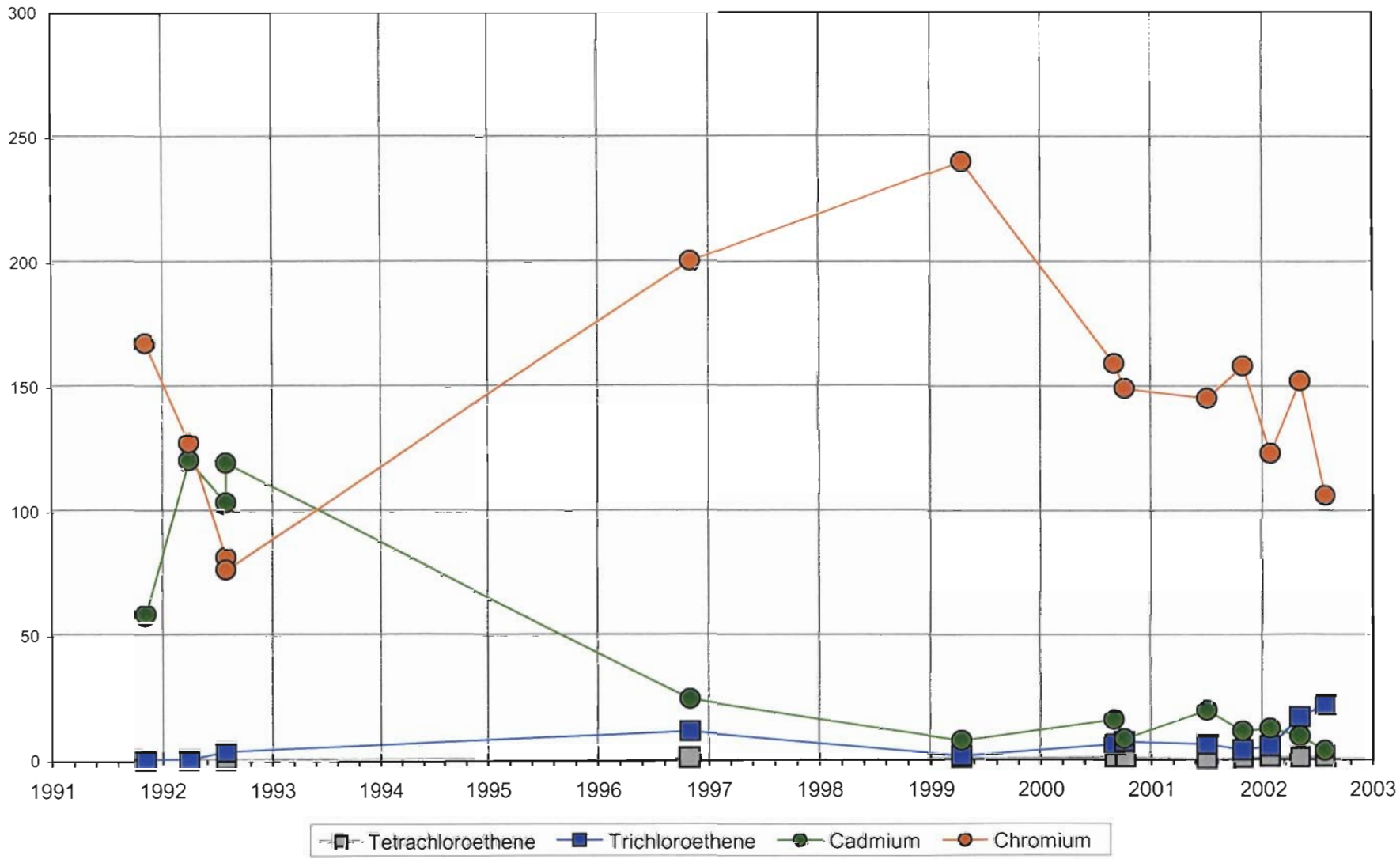
QA Batch: 1360

Chromium VI

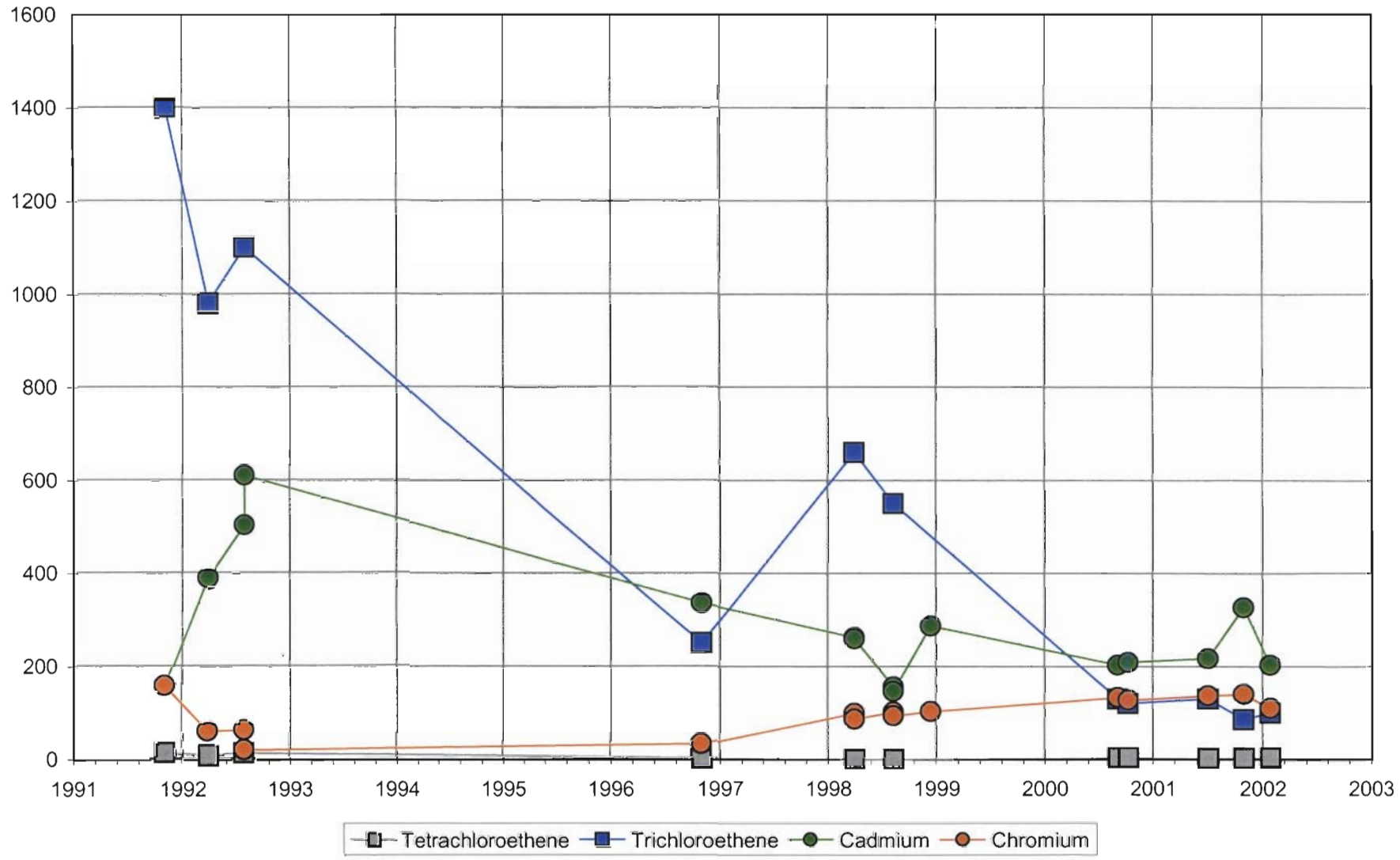
STL Edison Sample #	Client ID	Sample Date	Dilution Factor	Analytical Result Units: ug/l
368124	MW-38A	08/08/2002	1.0	13.2
368125	MW-38B	08/08/2002	1.0	ND
368126	MW-39A	08/08/2002	1.0	105
368127	MW-39B	08/08/2002	1.0	ND
368128	MW-40A	08/08/2002	5.0	410
368129	MW-40B	08/08/2002	1.0	ND
368130	MW-42A	08/08/2002	1.0	ND
368131	MW-43A	08/08/2002	1.0	ND
368132	MW-44A	08/08/2002	1.0	ND
368134	Dup-080802	08/08/2002	1.0	101

Quantitation Limit for Chromium VI is 10.0 ug/l.

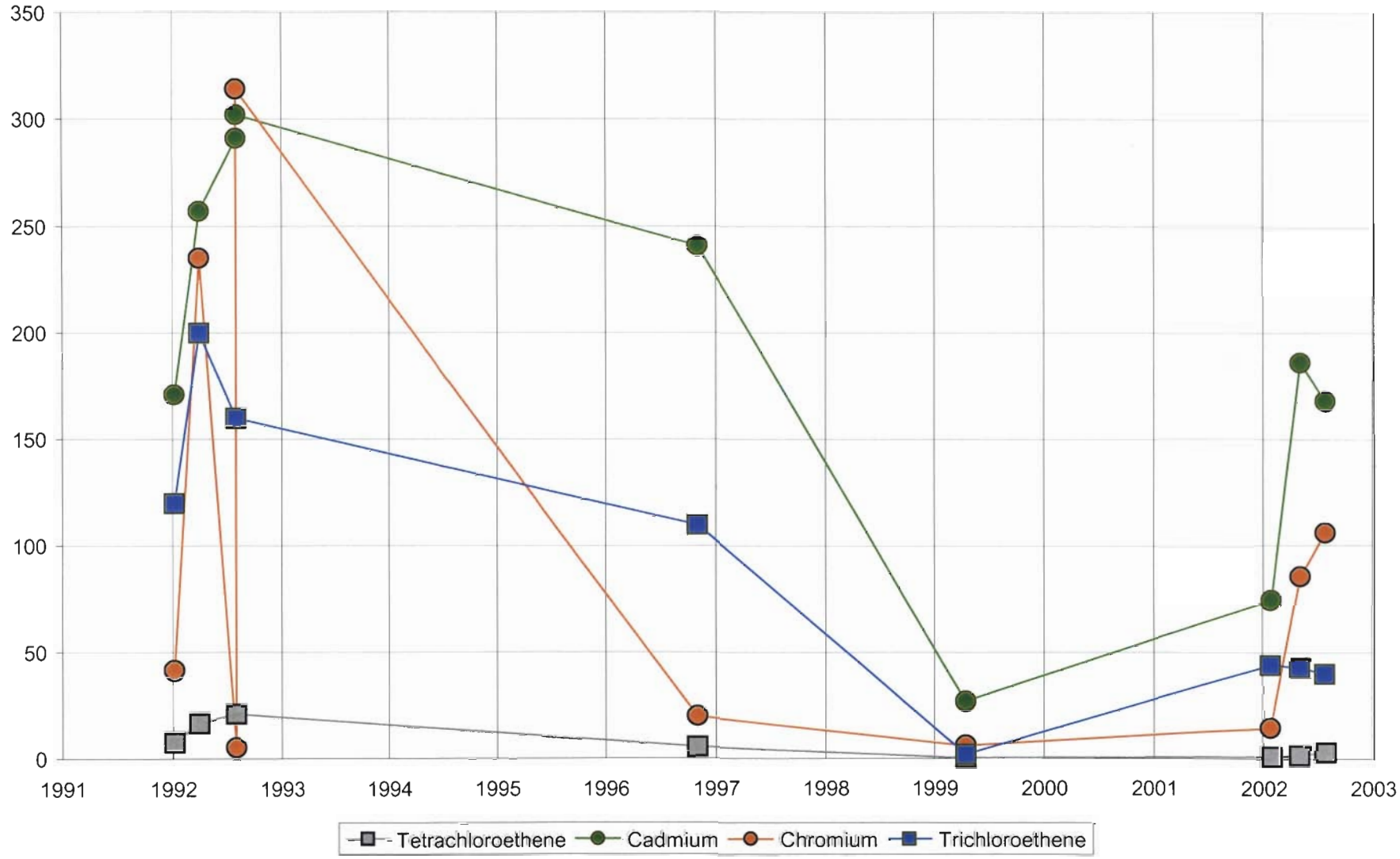
Analytical Concentration: MW-1 in ug/l



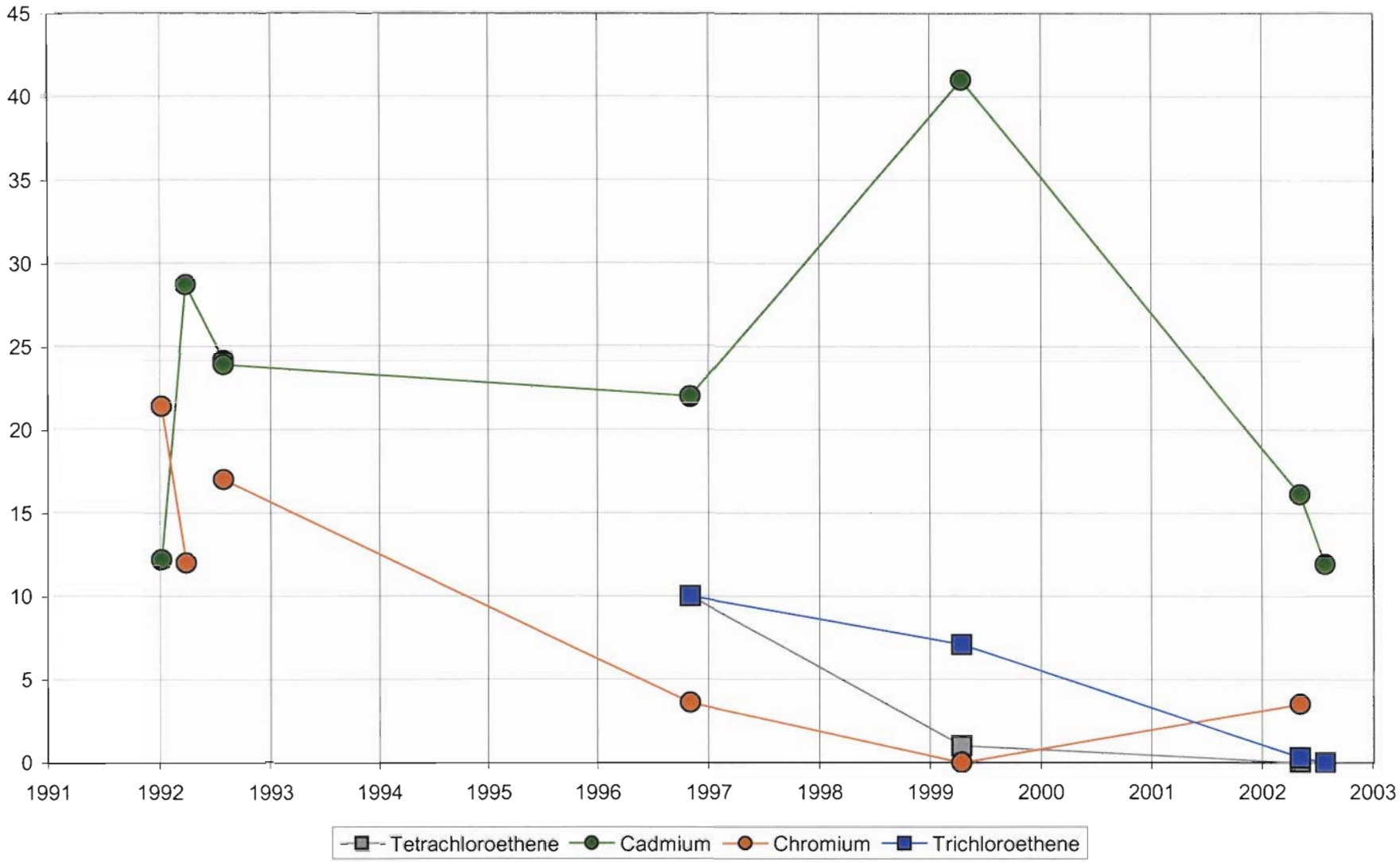
Analytical Concentration: MW-2A in ug/l



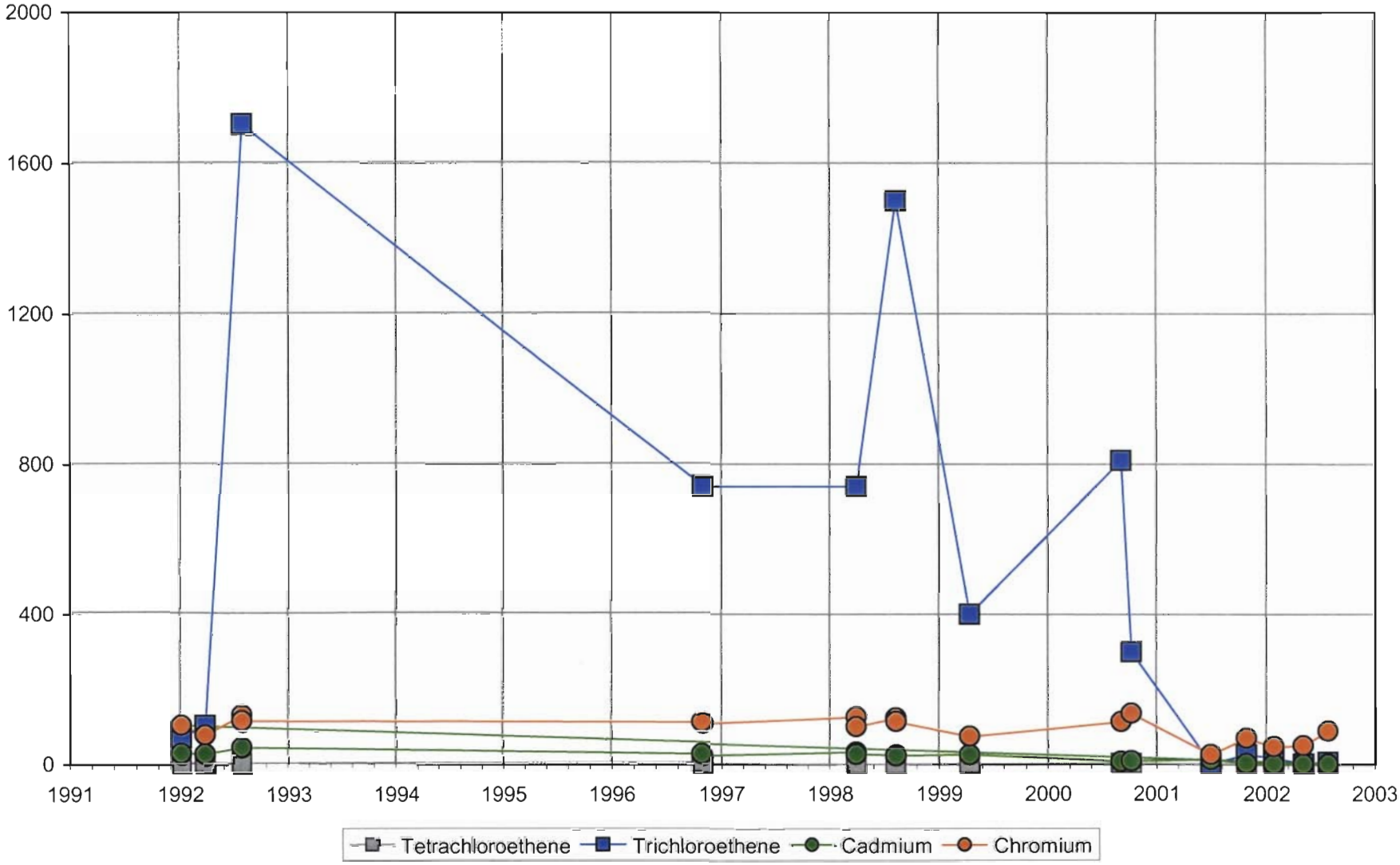
Analytical Concentration: MW-6A in ug/l

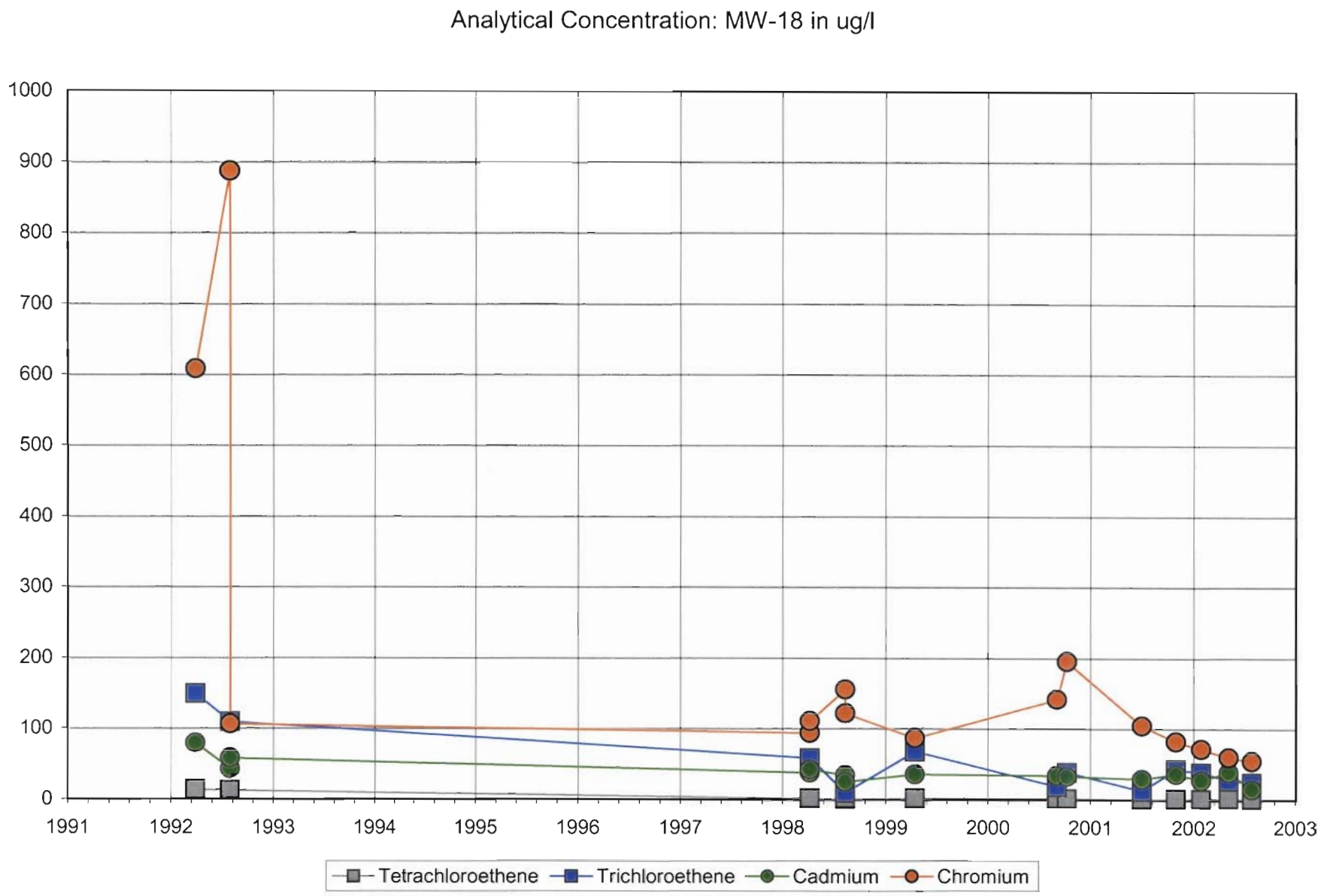


Analytical Concentrations: MW-6B in ug/L

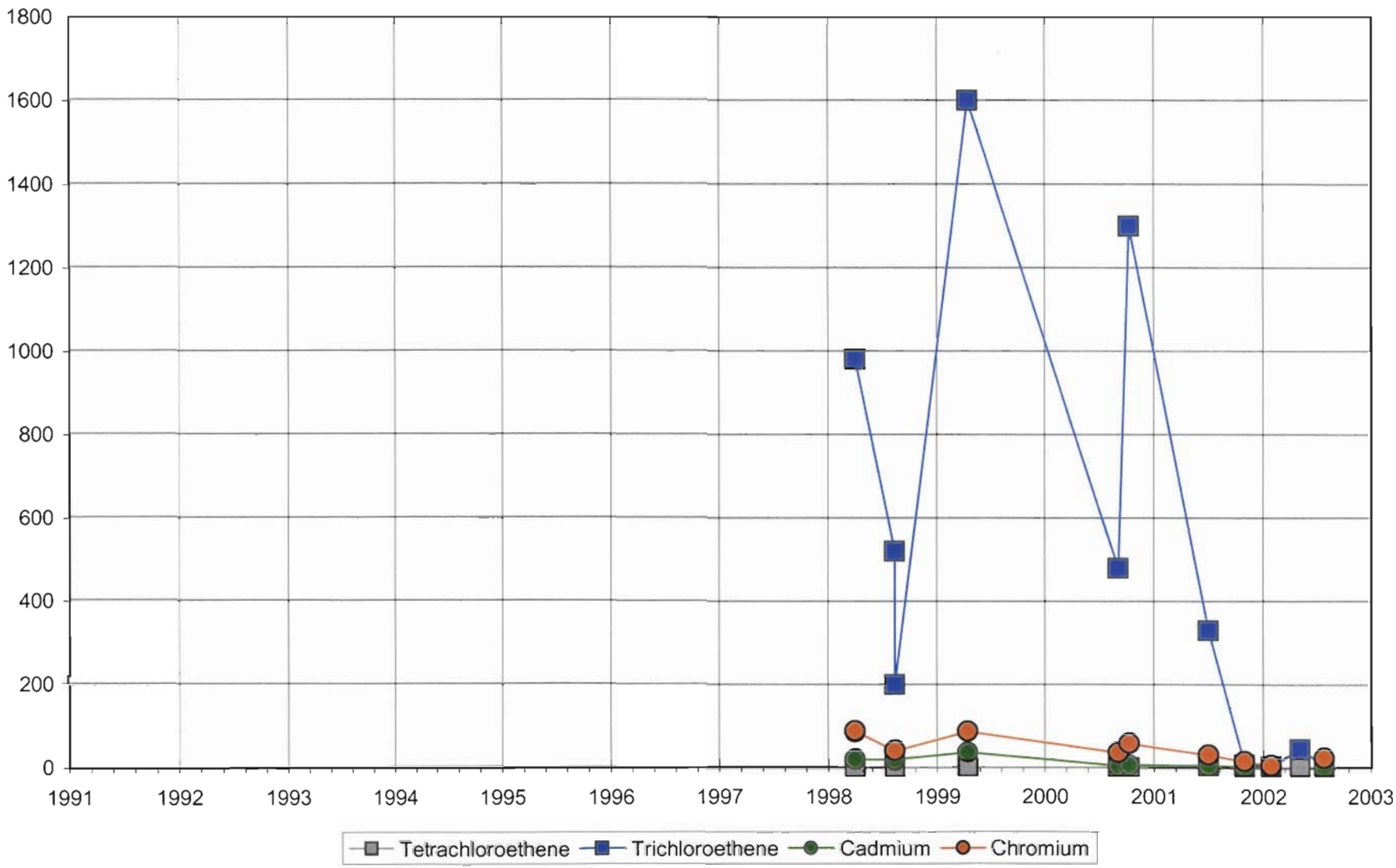


Analytical Concentration: MW-7A in ug/l

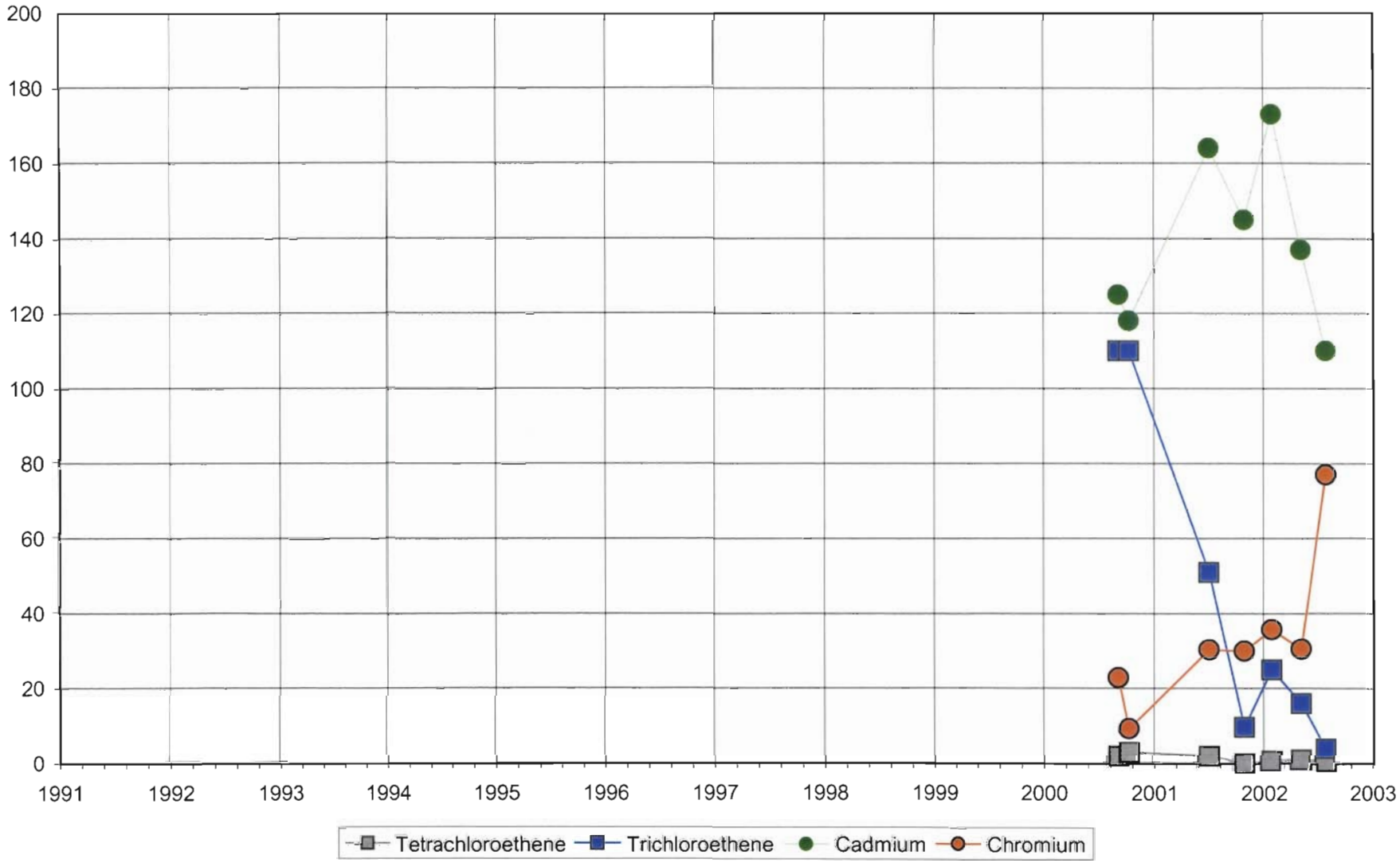



Analytical Concentration: MW-18 in ug/l
1000
900
800
700
600
500
400
300
200
100
0
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
Tetrachloroethene
Trichloroethene
Cadmium
Chromium

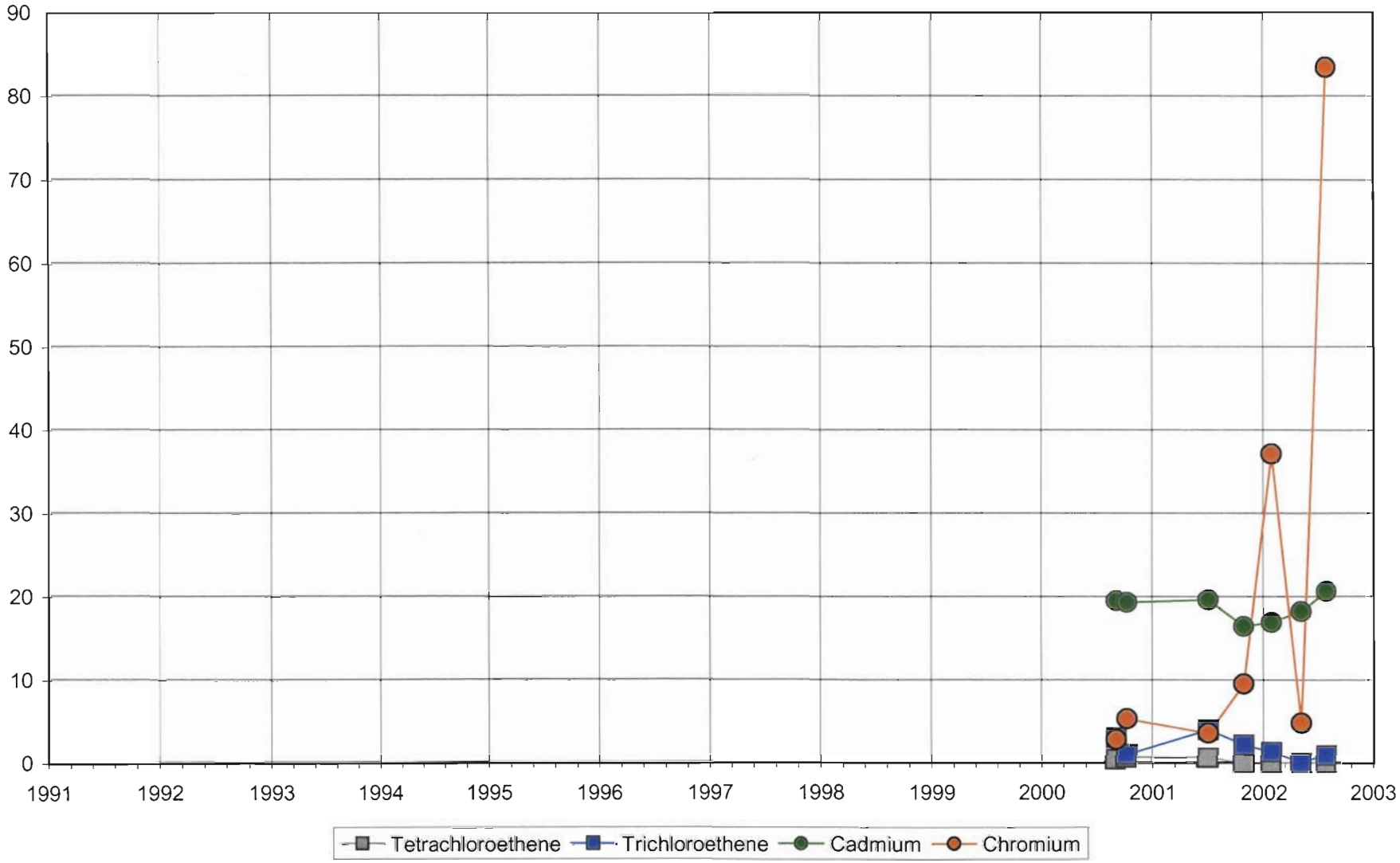
Analytical Concentration: MW-21 in ug/l



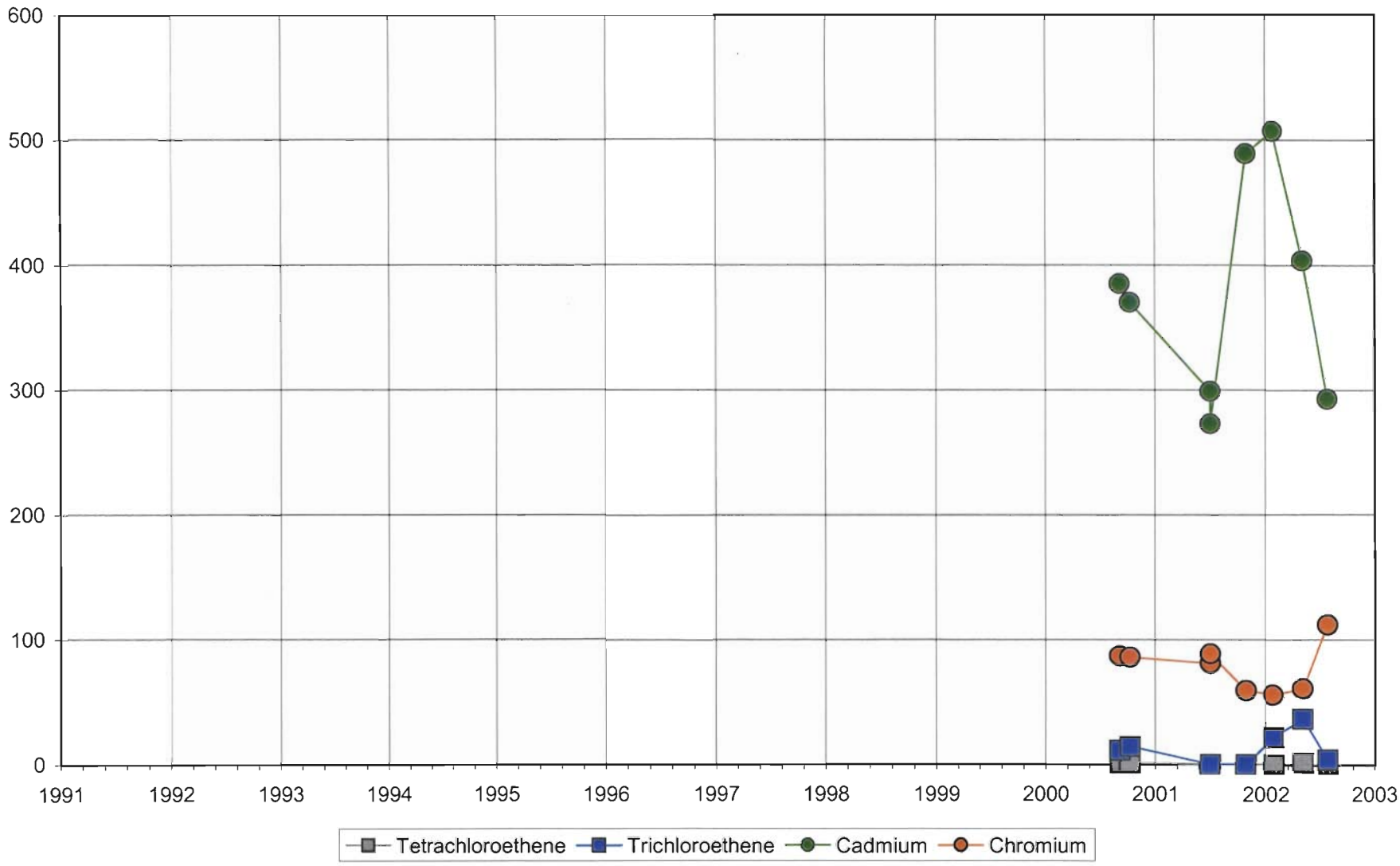
Analytical Concentration: MW-38A in ug/l



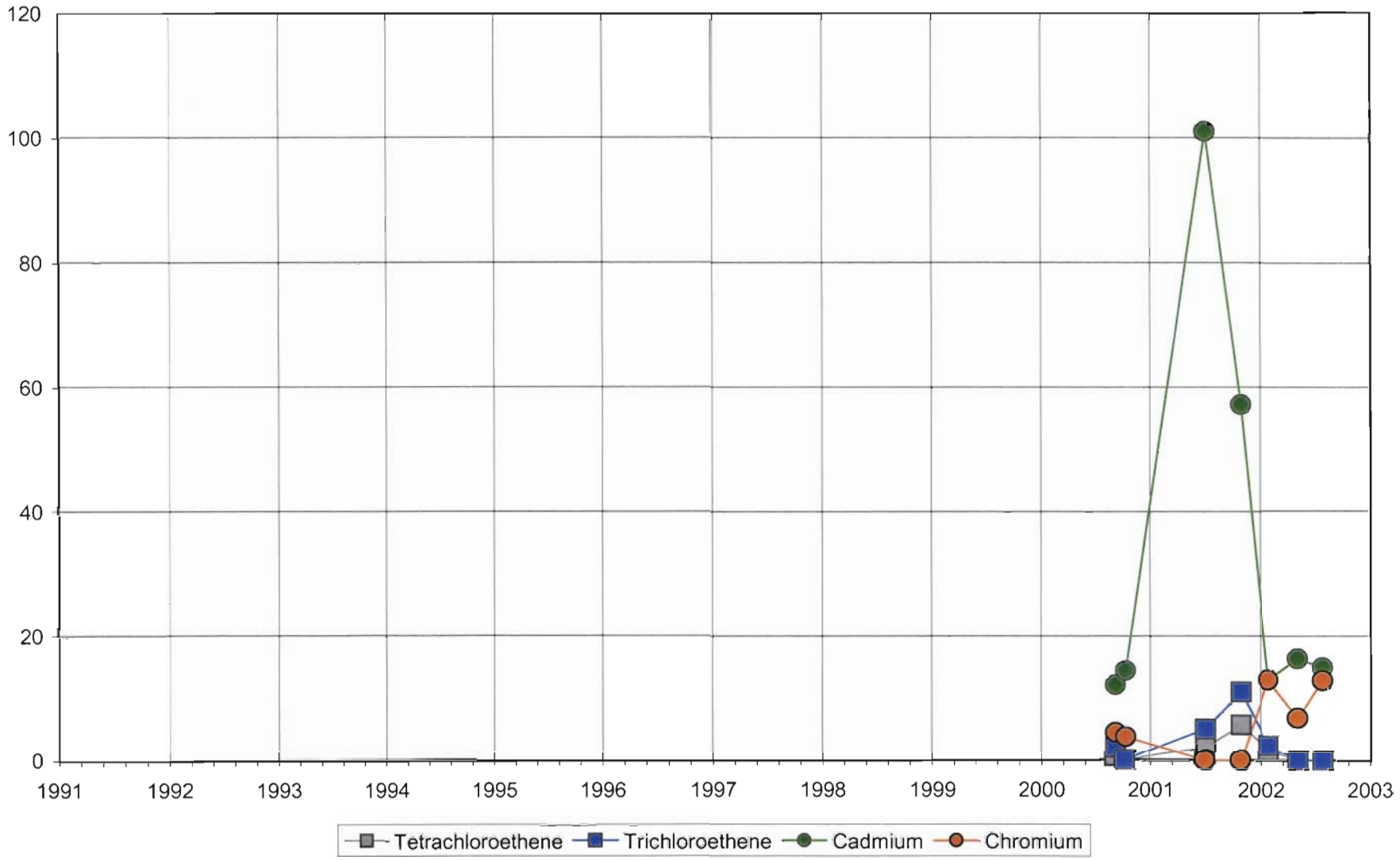
Analytical Concentration: MW-38B in ug/l



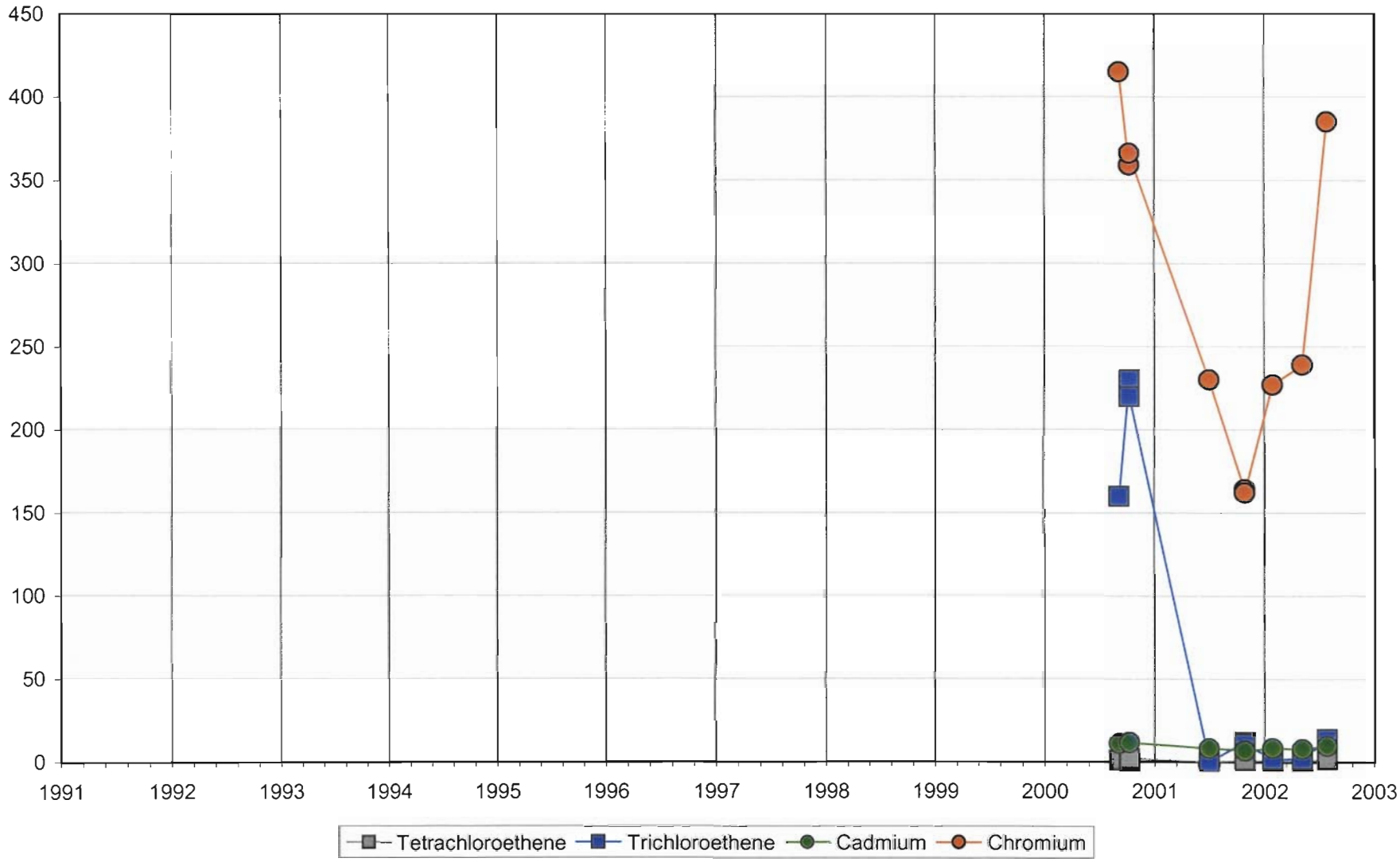
Analytical Concentration: MW-39A in ug/l



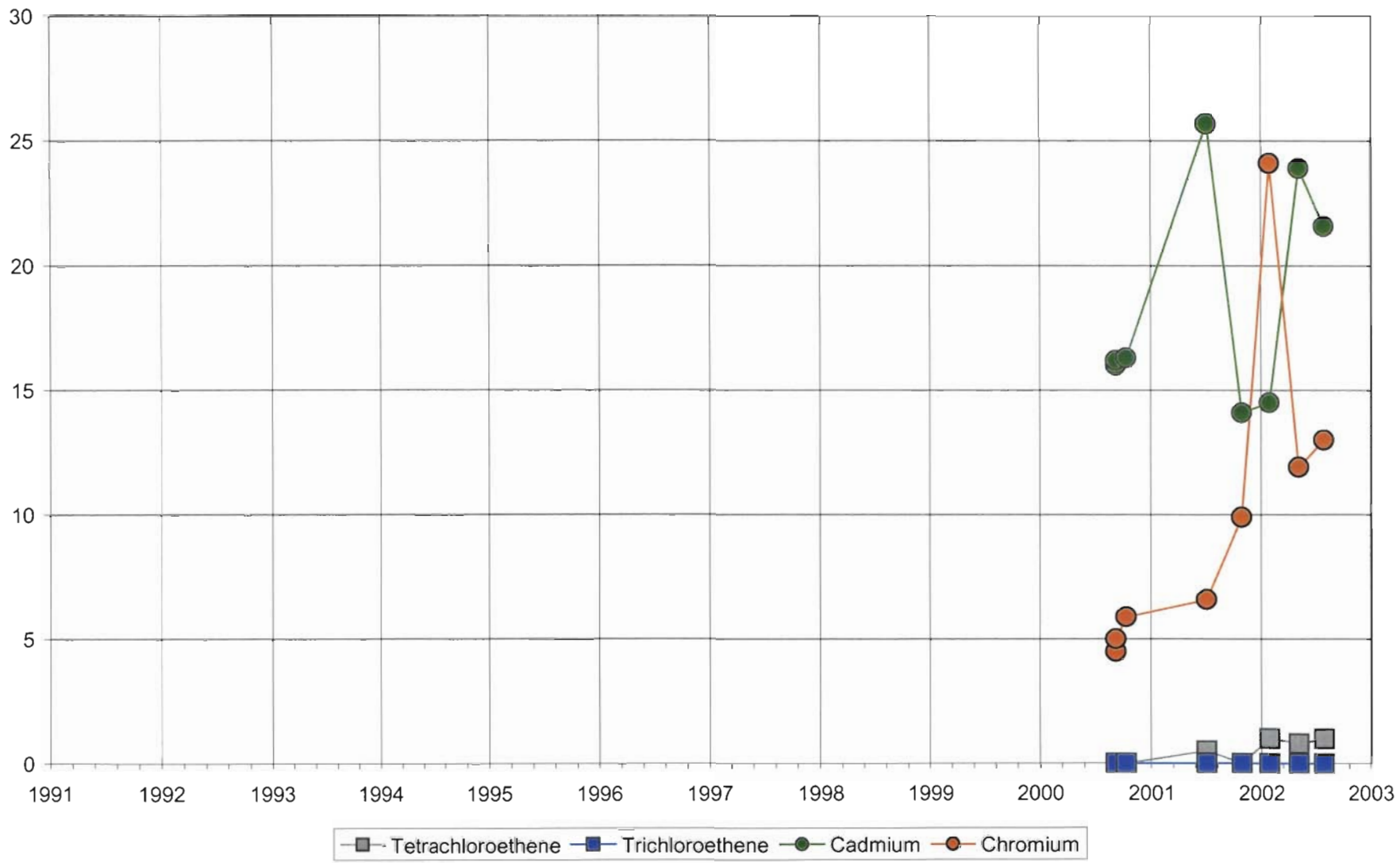
Analytical Concentration: MW-39B in ug/l



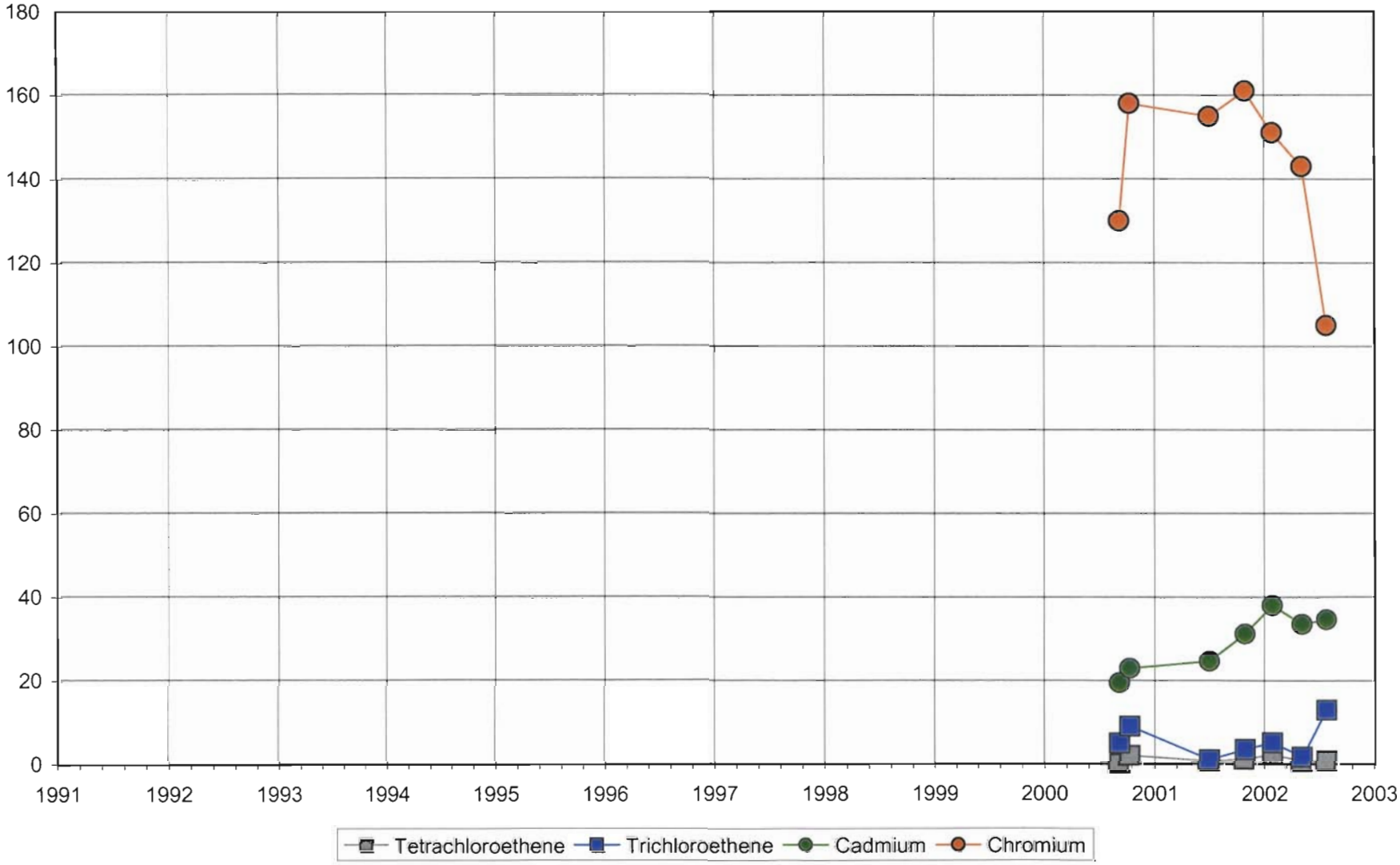
Analytical Concentration: MW-40A in ug/l



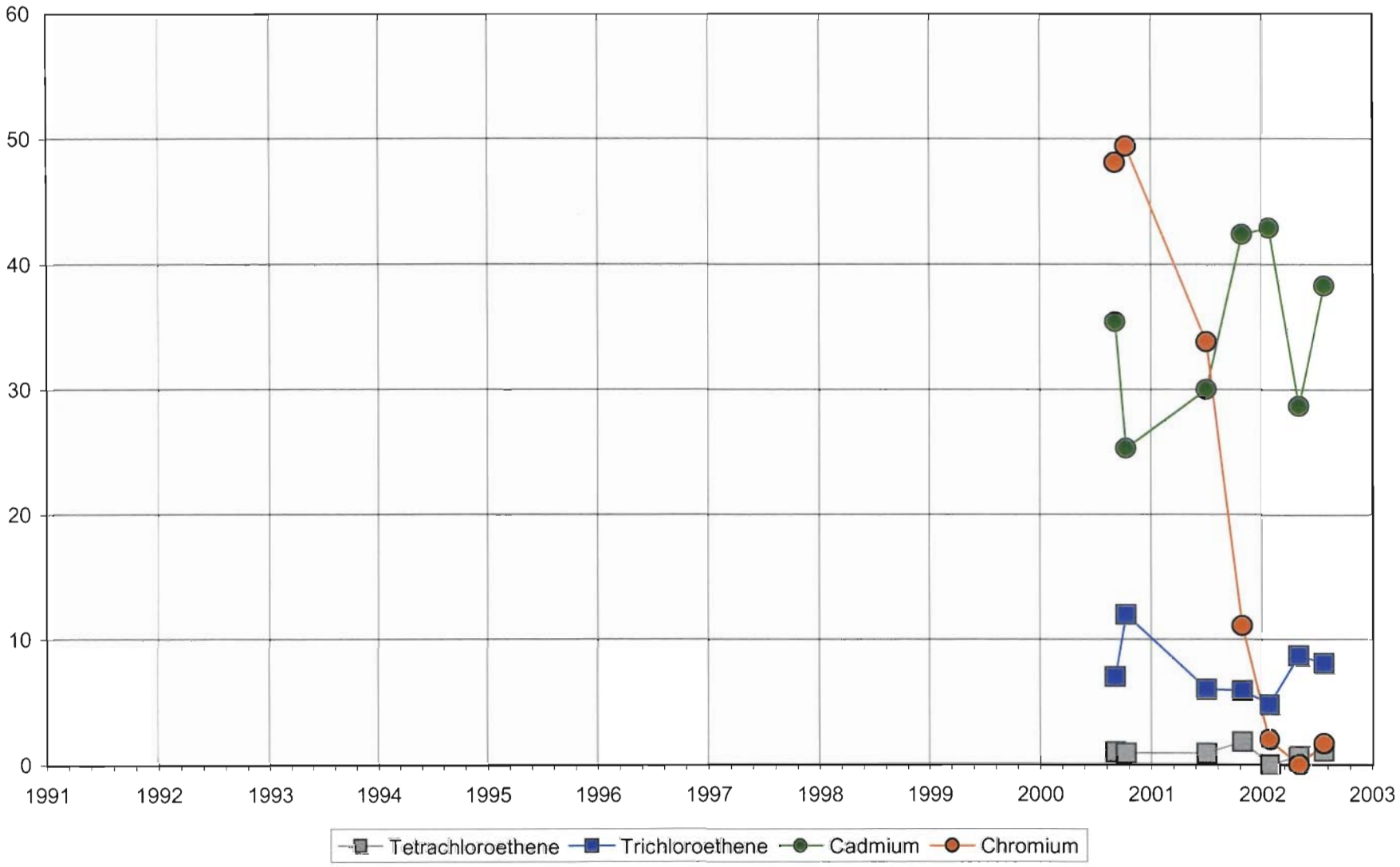
Analytical Concentration: MW-40B in ug/l



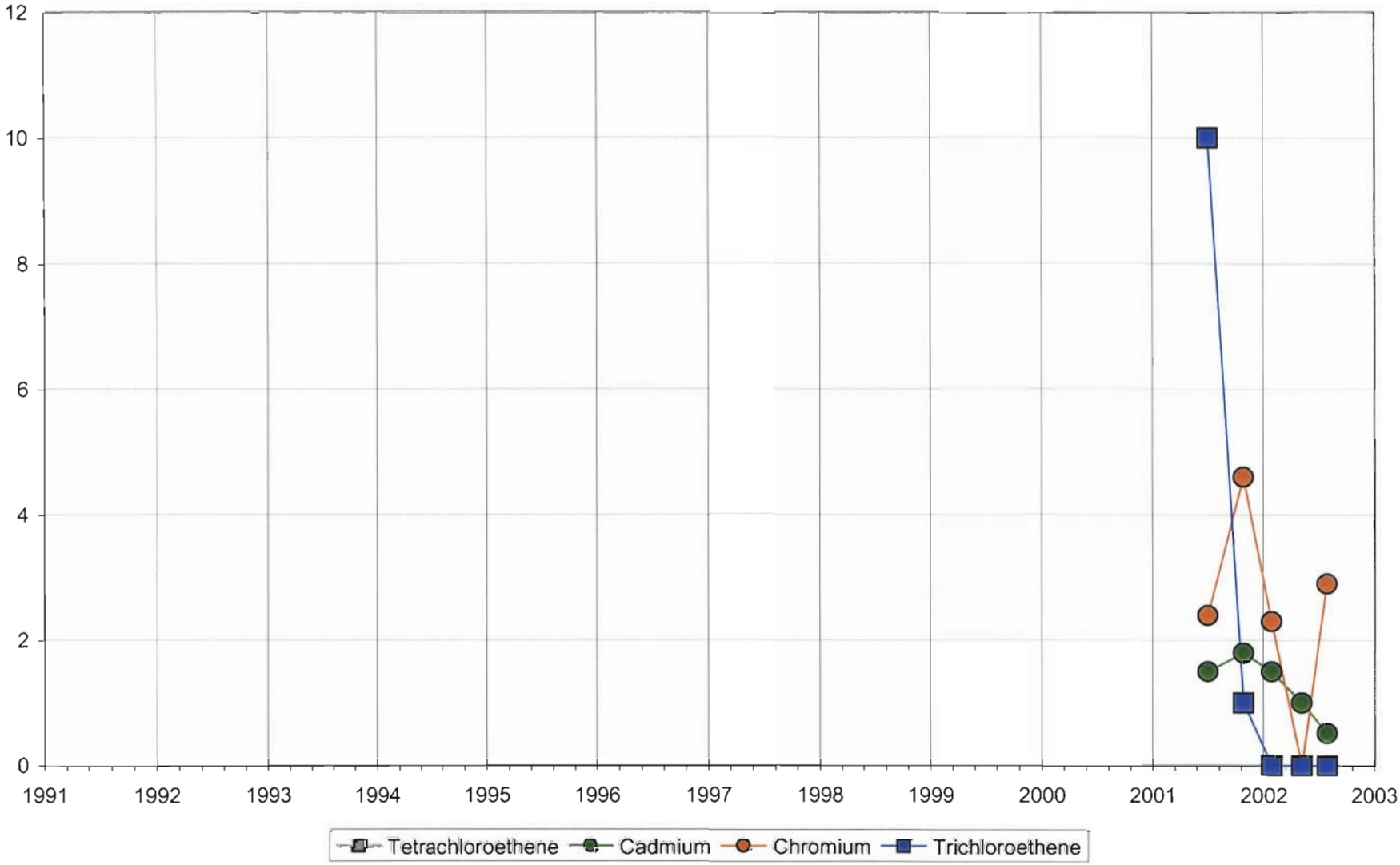
Analytical Concentration: MW-41A in ug/l



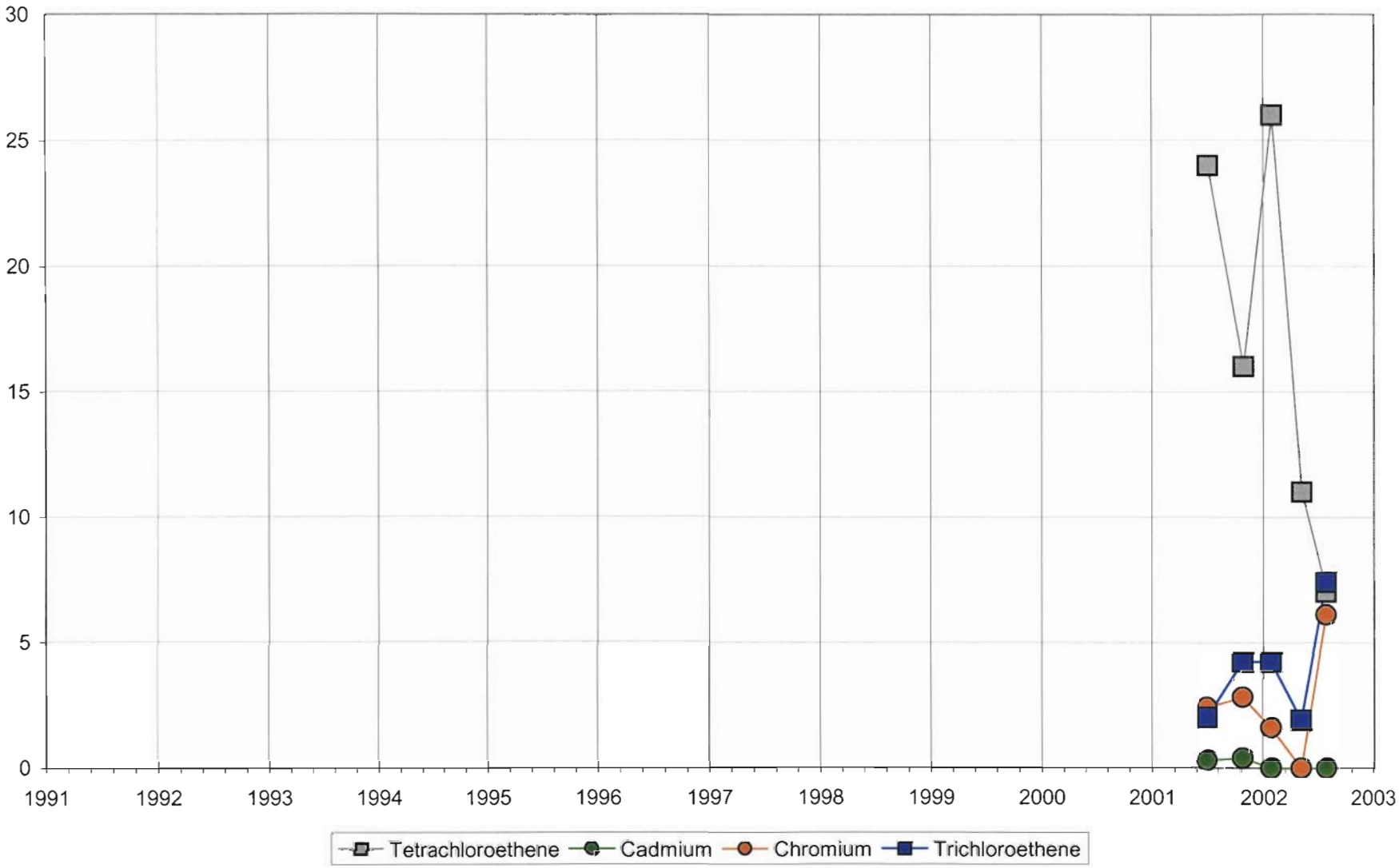
Analytical Concentration: MW-42A in ug/l

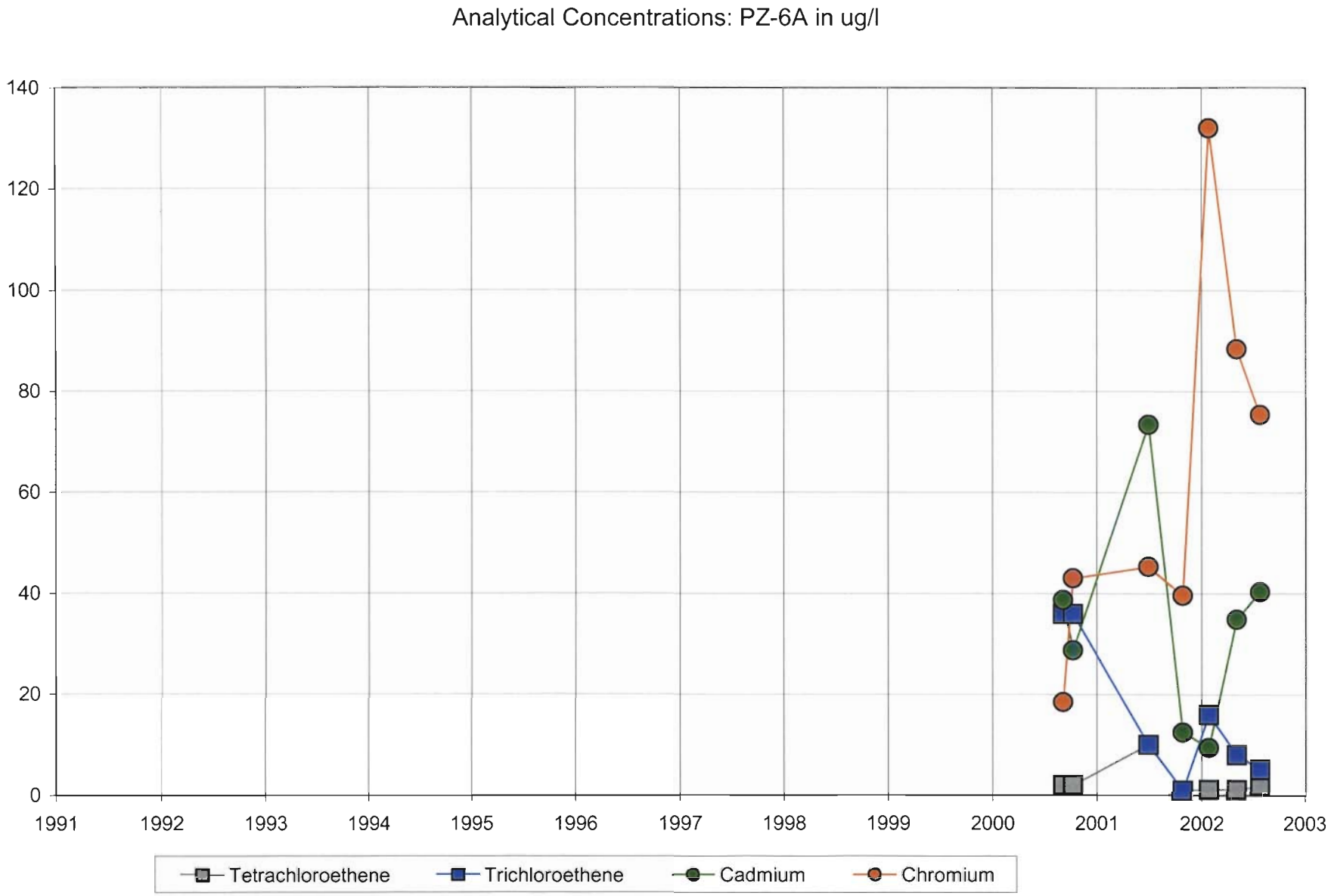


Analytical Concentration: MW-43A in ug/l

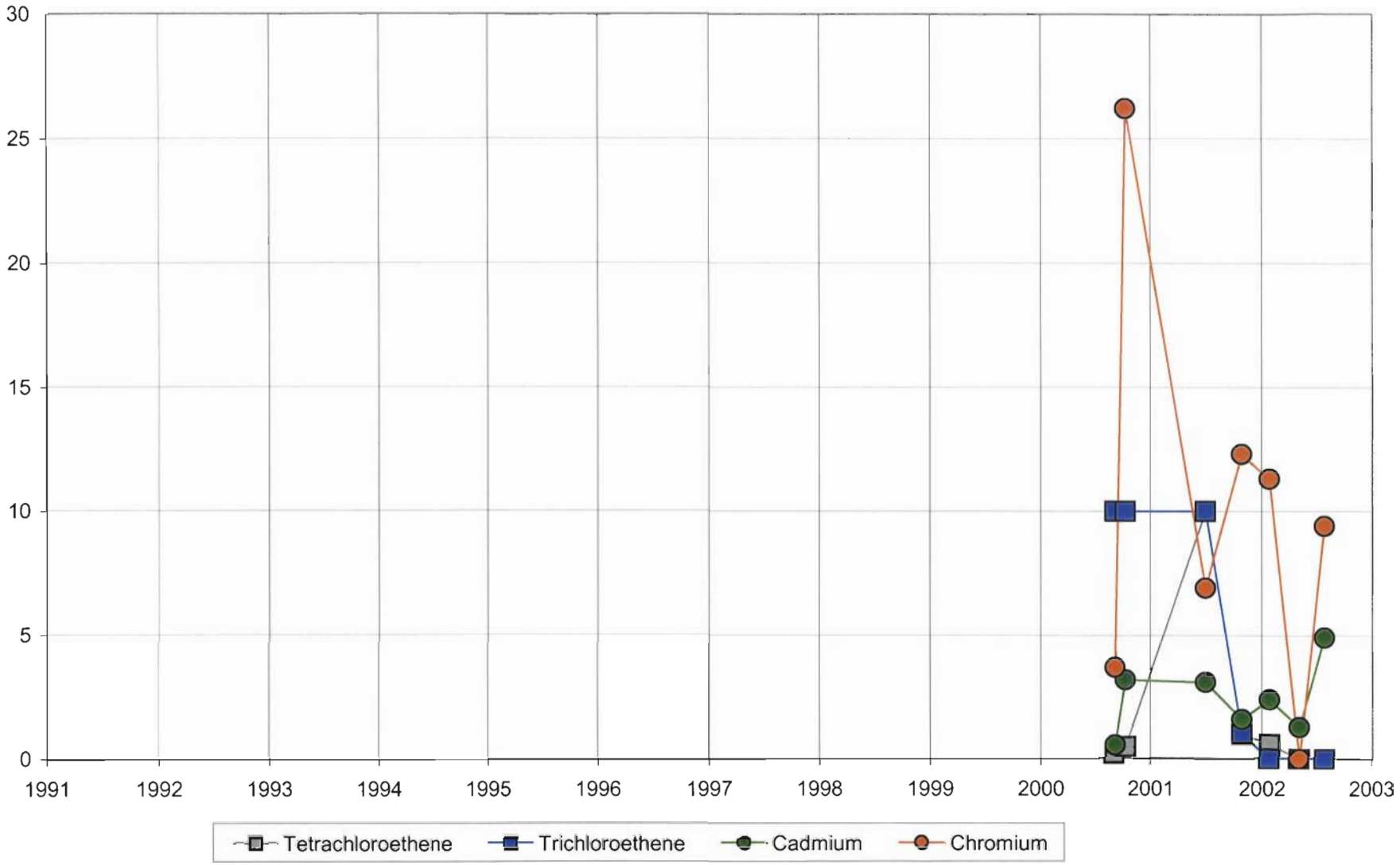


Analytical Concentration: MW-44A in ug/l

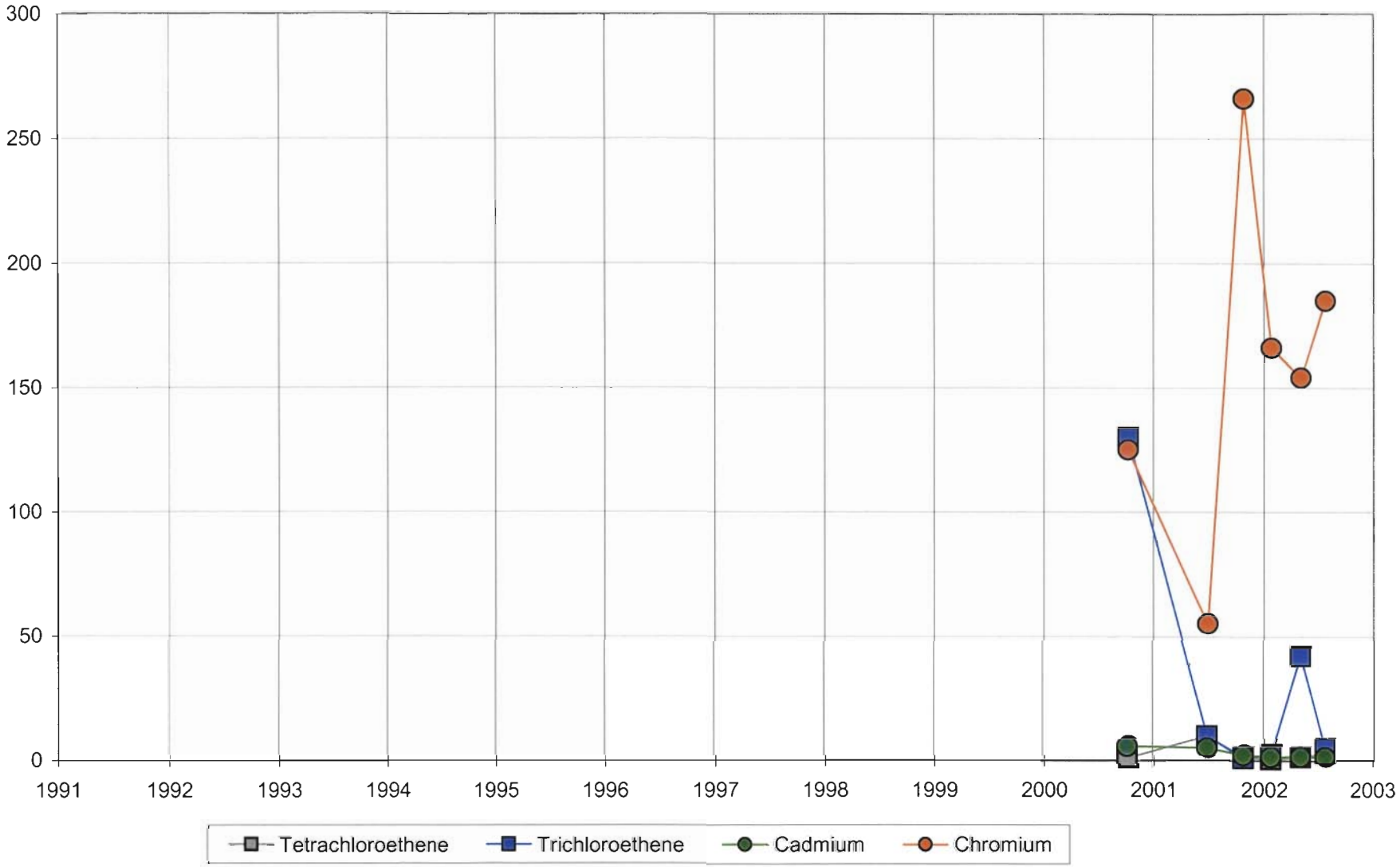



Analytical Concentrations: PZ-6A in ug/l
140
120
100
80
60
40
20
0
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
Tetrachloroethene
Trichloroethene
Cadmium
Chromium

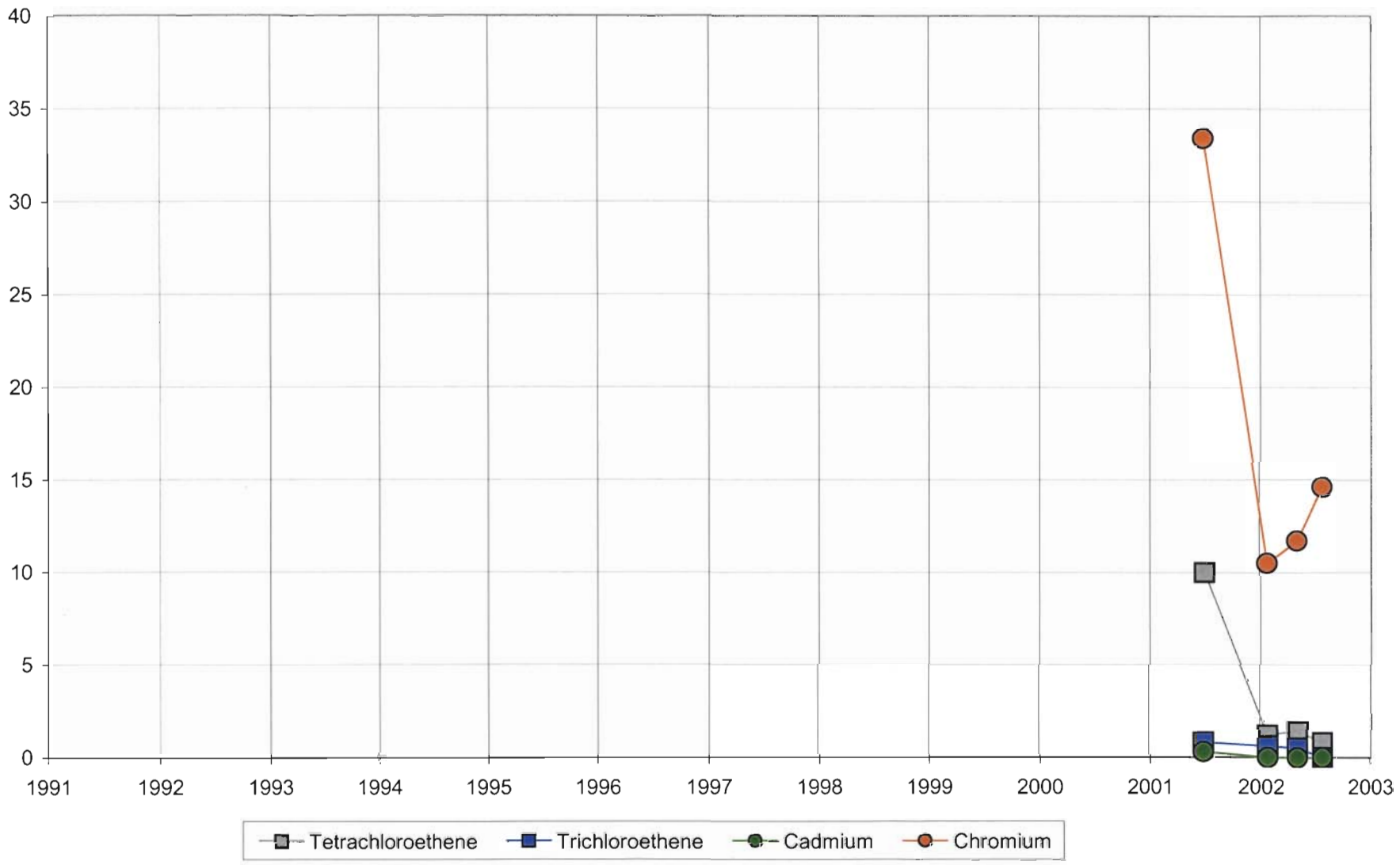
Analytical Concentrations: PZ-6C in ug/l



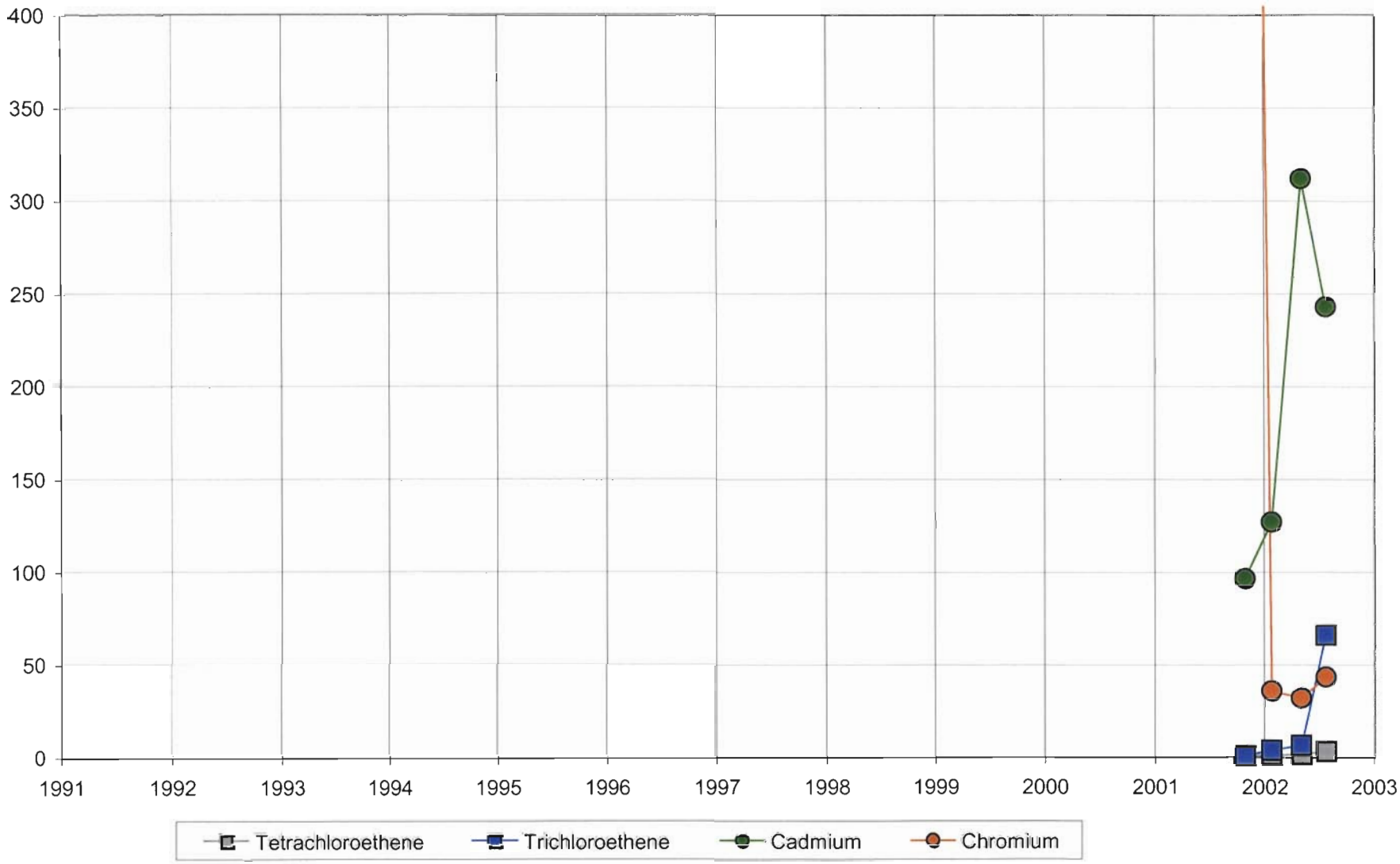
Analytical Concentrations: PZ-7A in ug/l



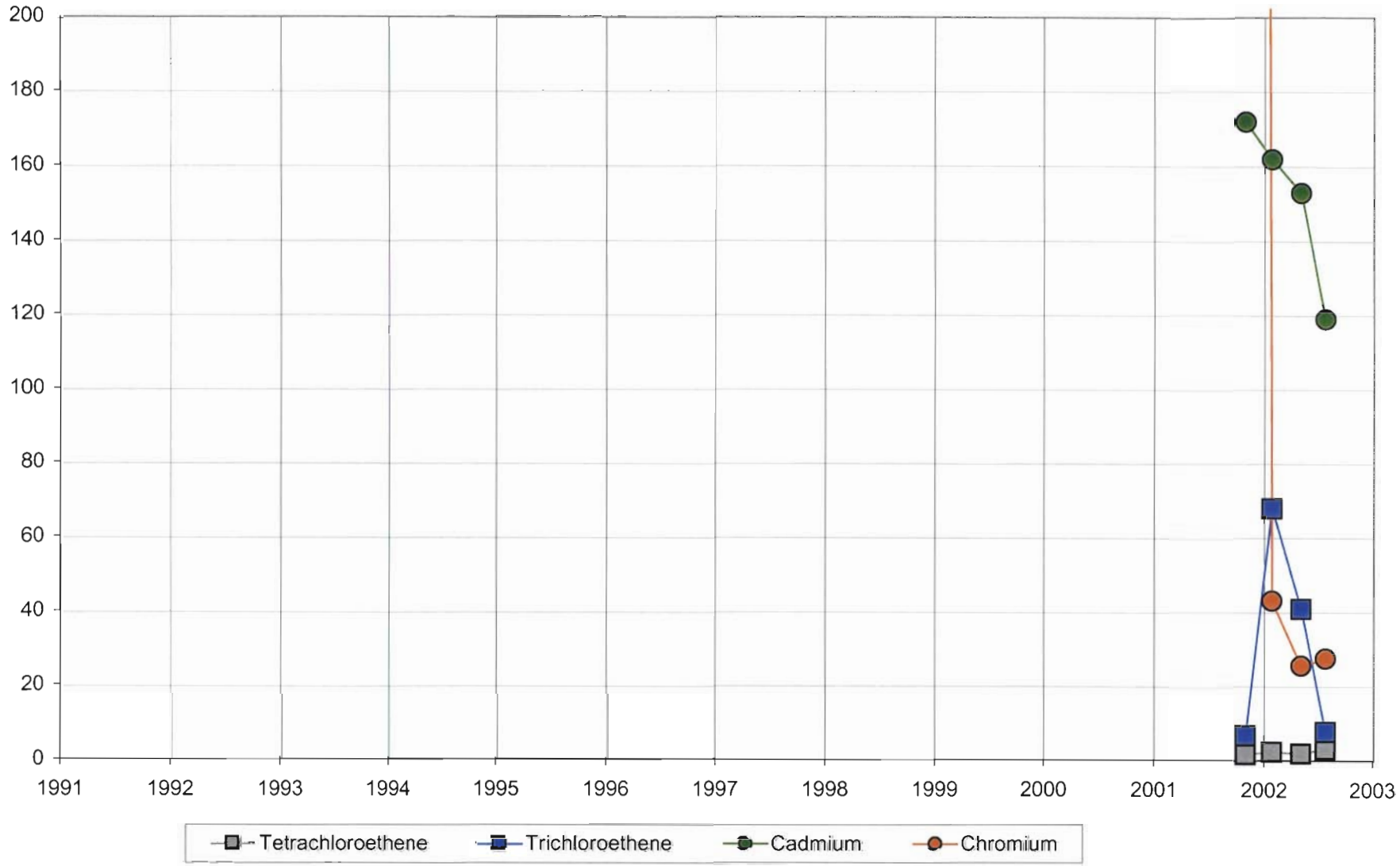
Analytical Concentrations: PZ-7C in ug/l



Analytical Concnetrations: PZ-9A in ug/l



Analytical Concentrations: PZ-10A in ug/l



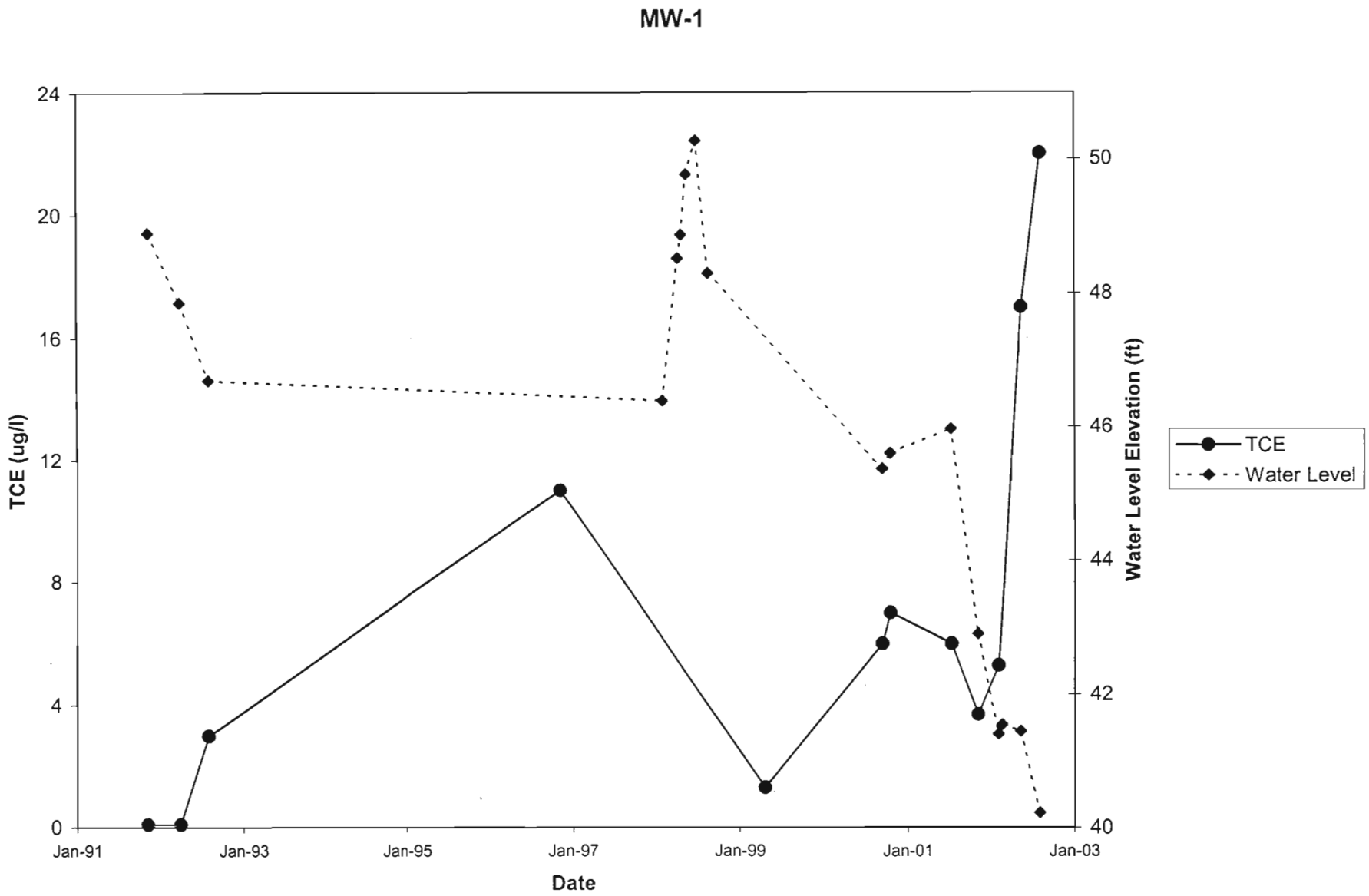

MW-1
TCE (ug/l)
Water Level Elevation (ft)
Date
TCE
Water Level
0
4
8
12
16
20
24
40
42
44
46
48
50
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-1A

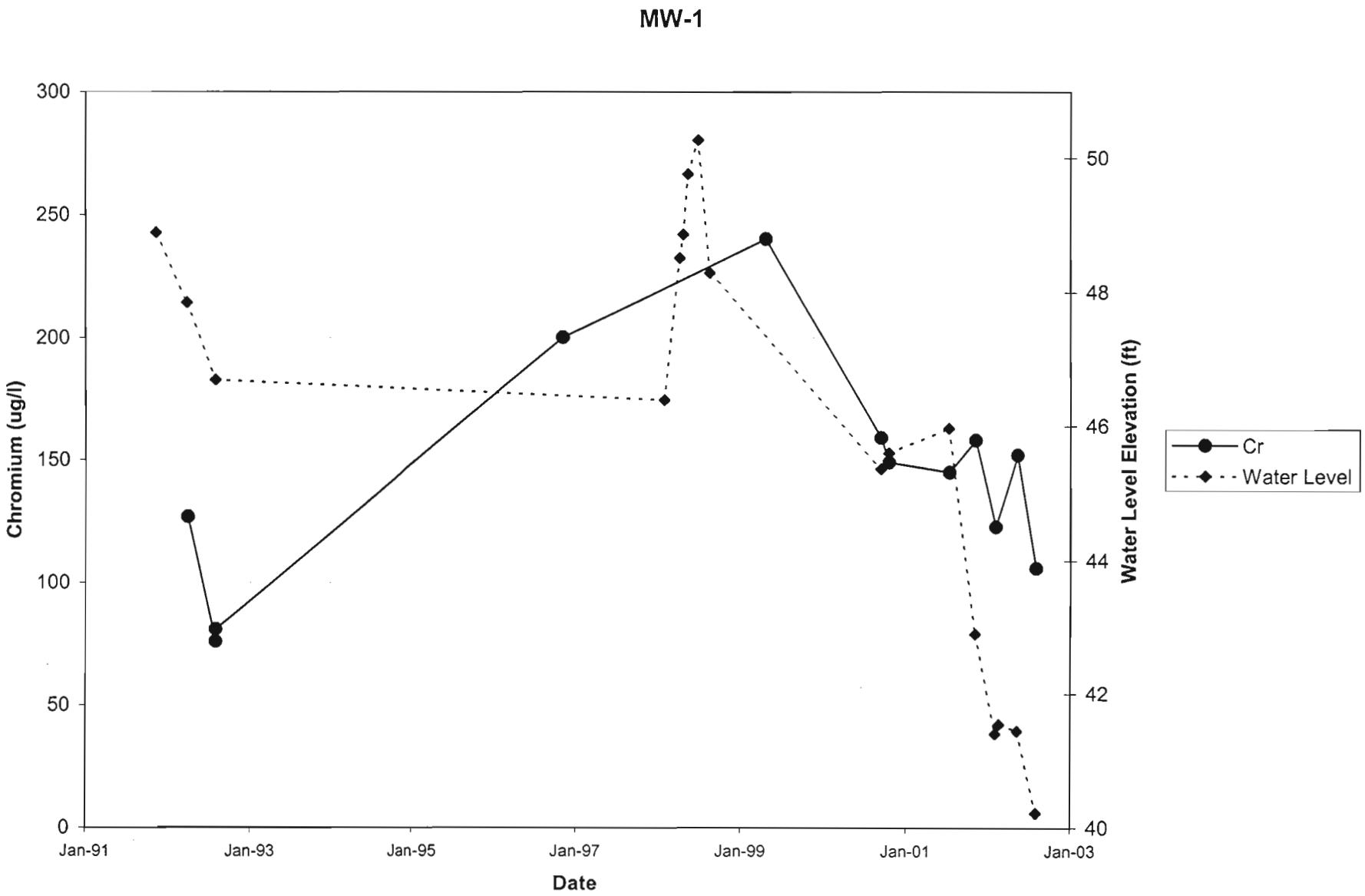

MW-1
Chromium (ug/l)
Water Level Elevation (ft)
Date
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03
0
50
100
150
200
250
300
40
42
44
46
48
50
Cr
Water Level

Fig. D-1B

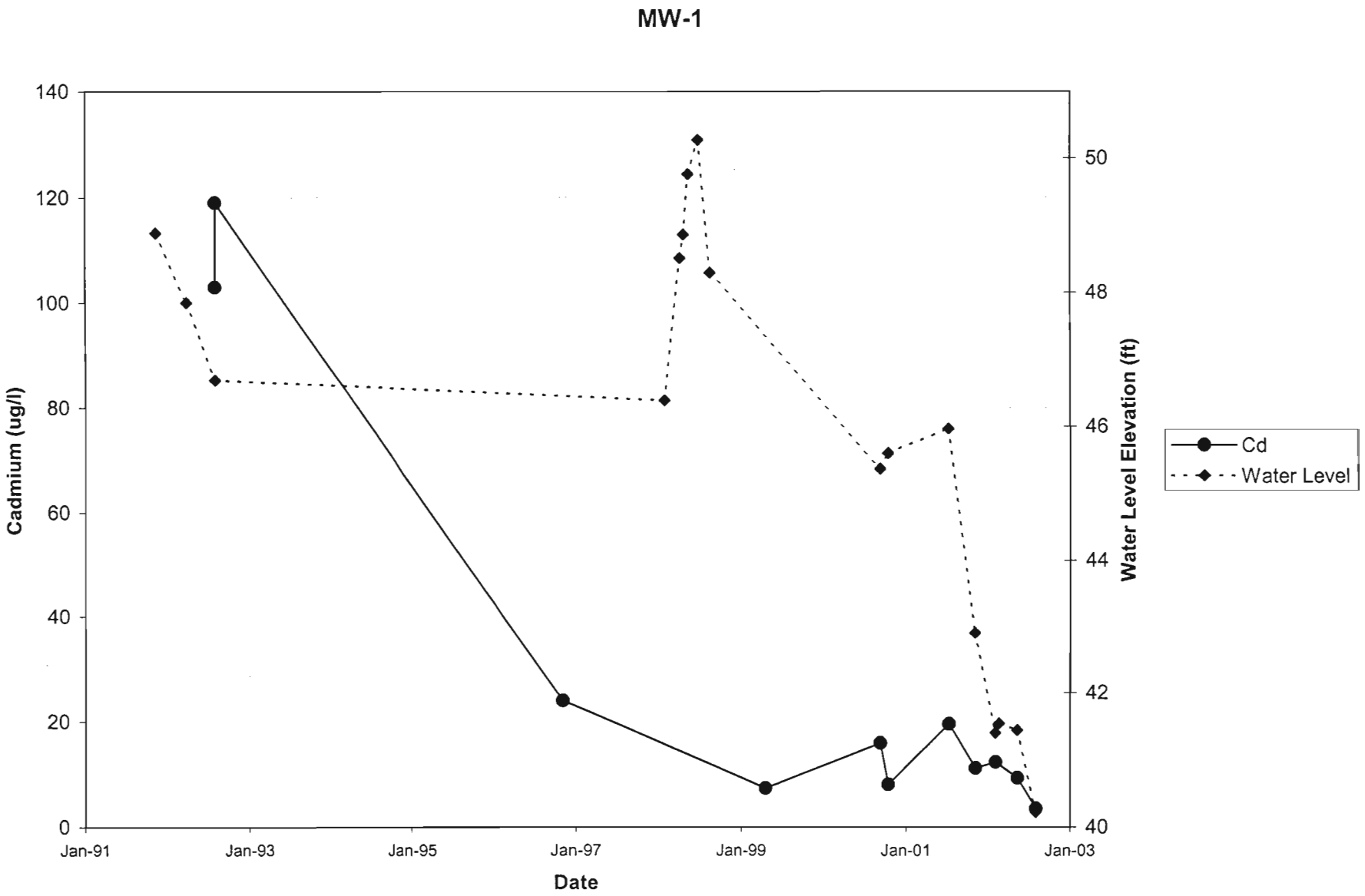

MW-1
Cadmium (ug/l)
Water Level Elevation (ft)
Date
Cd
Water Level
0
20
40
60
80
100
120
140
40
42
44
46
48
50
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-1C

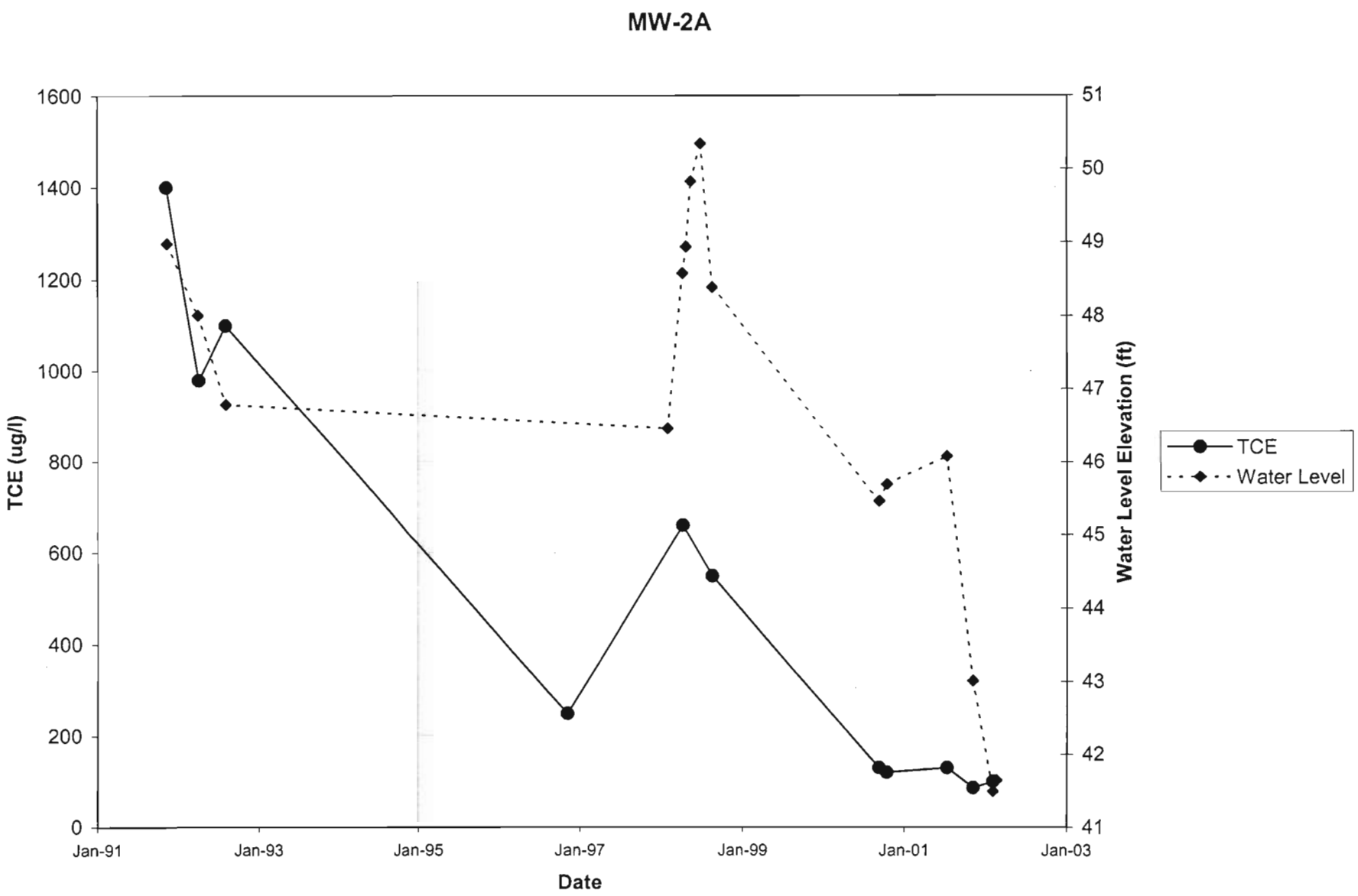

MW-2A
TCE (ug/l)
Water Level Elevation (ft)
Date
TCE
Water Level
1600
1400
1200
1000
800
600
400
200
0
51
50
49
48
47
46
45
44
43
42
41
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-2A

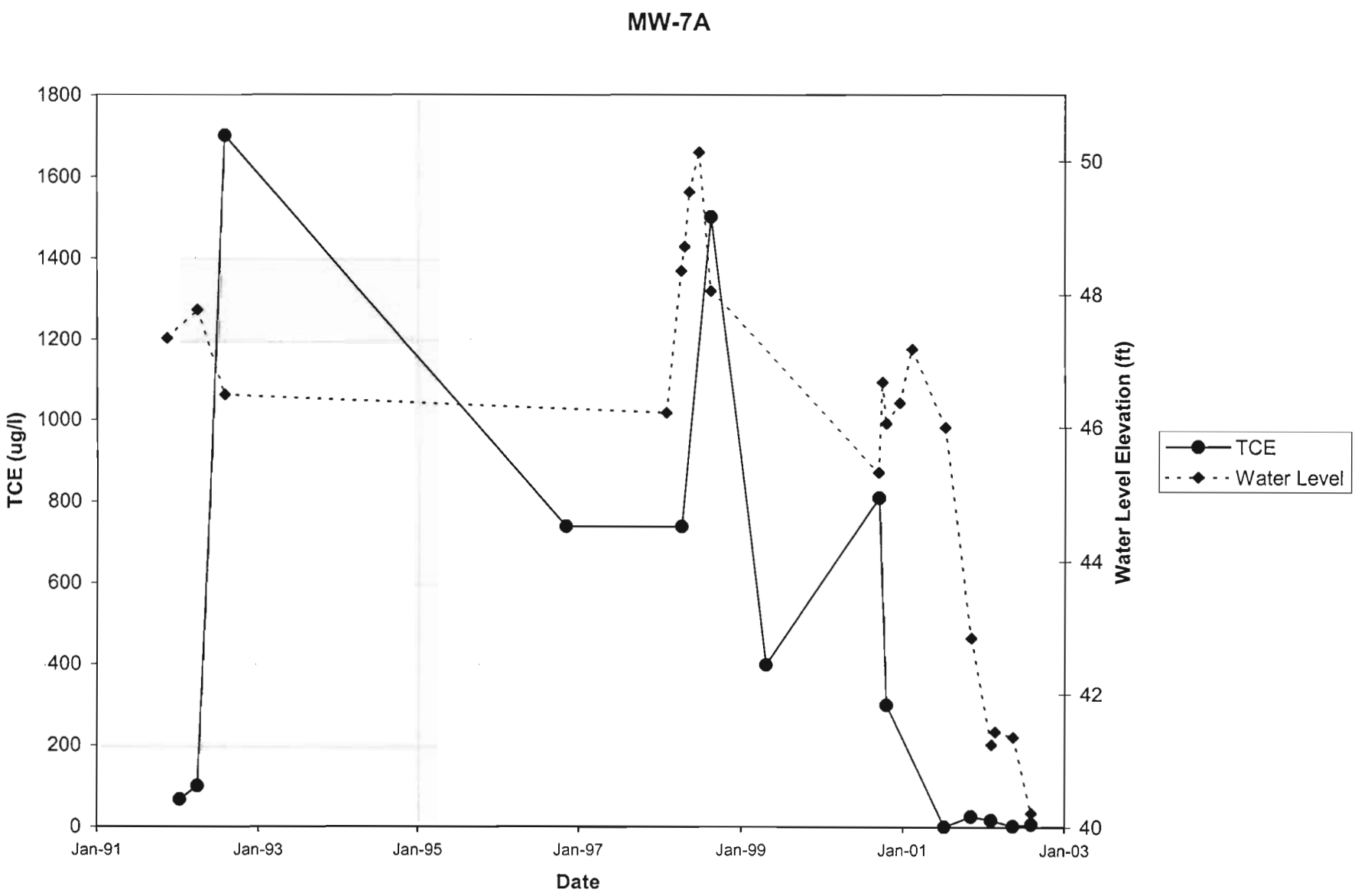

MW-7A
TCE (ug/l)
Water Level Elevation (ft)
Date
TCE
Water Level
1800
1600
1400
1200
1000
800
600
400
200
0
50
48
46
44
42
40
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-3A

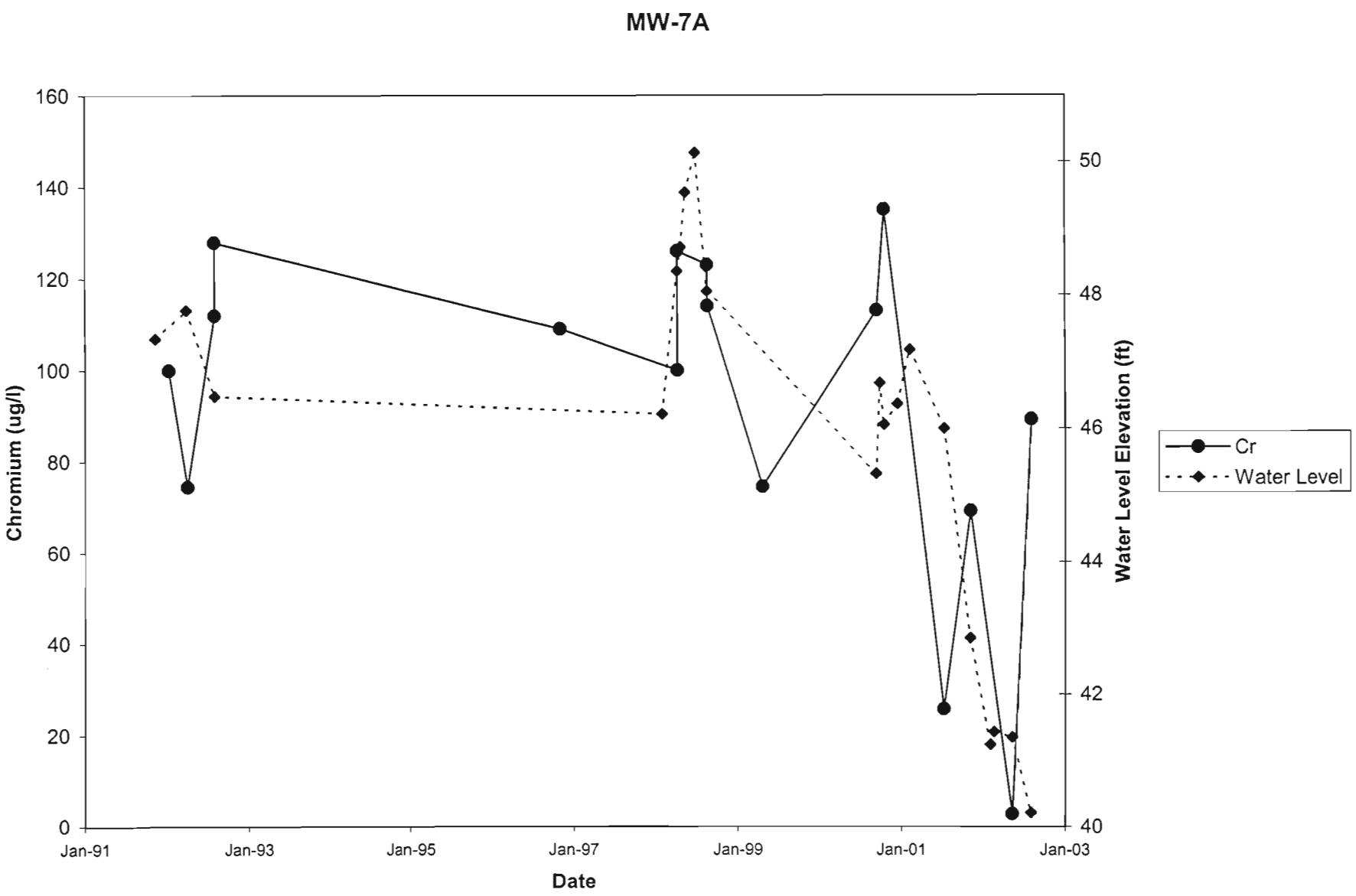

MW-7A
Chromium (ug/l)
Water Level Elevation (ft)
Date
Cr
Water Level
0
20
40
60
80
100
120
140
160
40
42
44
46
48
50
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-3B

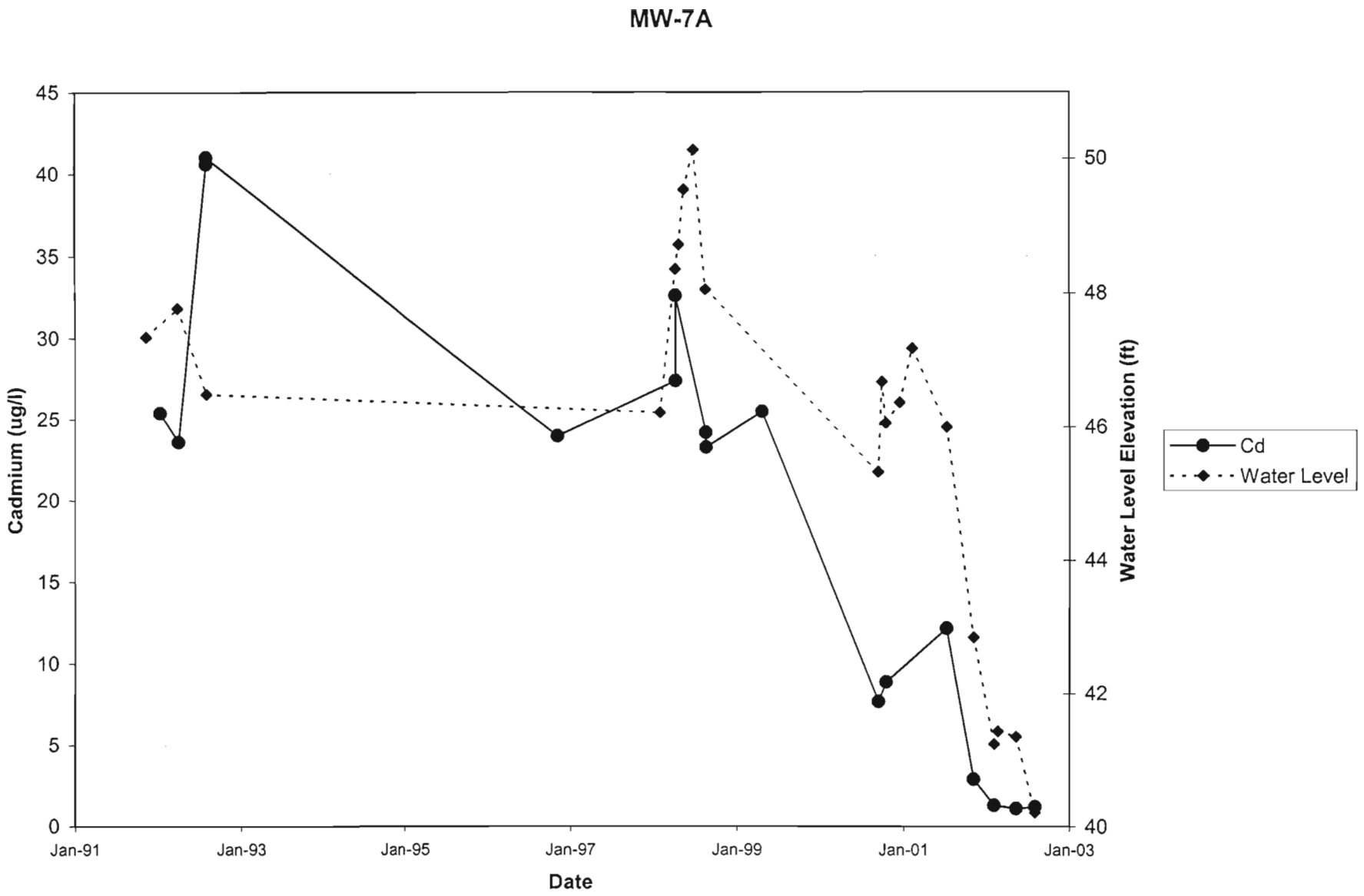

MW-7A
Cadmium (ug/l)
Water Level Elevation (ft)
Date
Cd
Water Level
0
5
10
15
20
25
30
35
40
45
40
42
44
46
48
50
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-3C

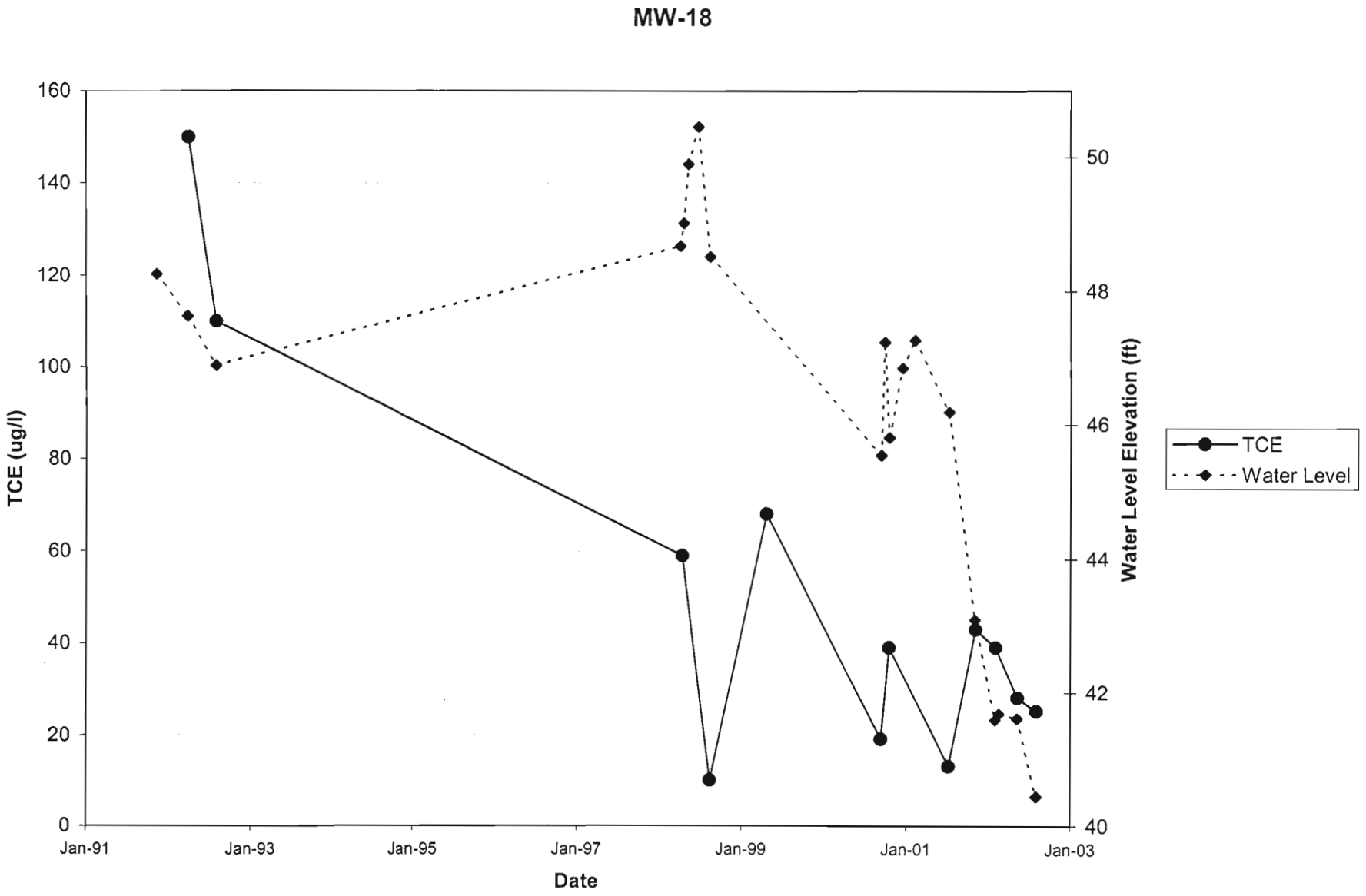

MW-18
160
140
120
100
80
60
40
20
0
TCE (ug/l)
50
48
46
44
42
40
Water Level Elevation (ft)
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03
Date
TCE
Water Level

Fig. D-4A

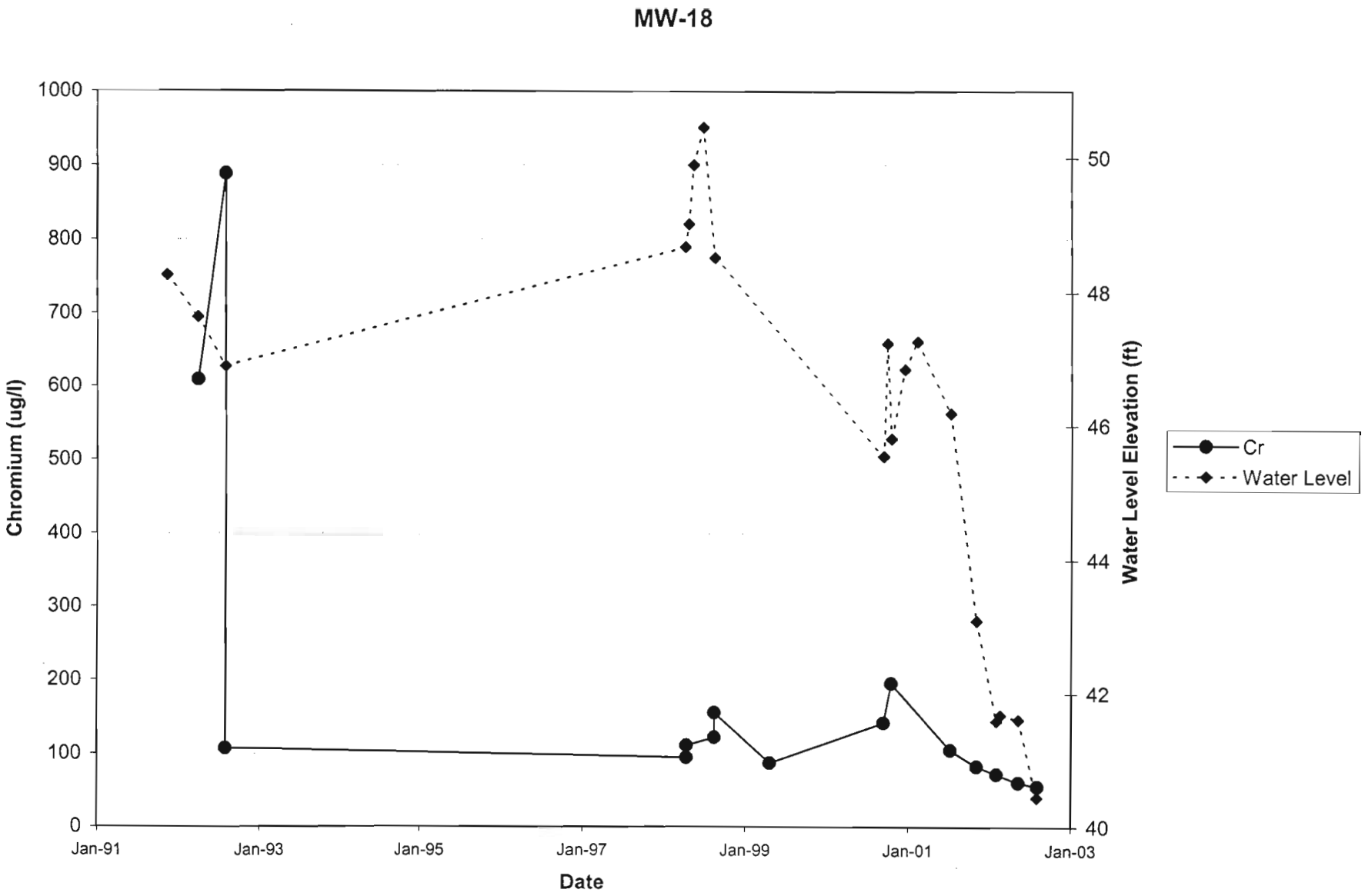

MW-18
Chromium (ug/l)
Water Level Elevation (ft)
Date
Cr
Water Level
1000
900
800
700
600
500
400
300
200
100
0
50
48
46
44
42
40
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-4B

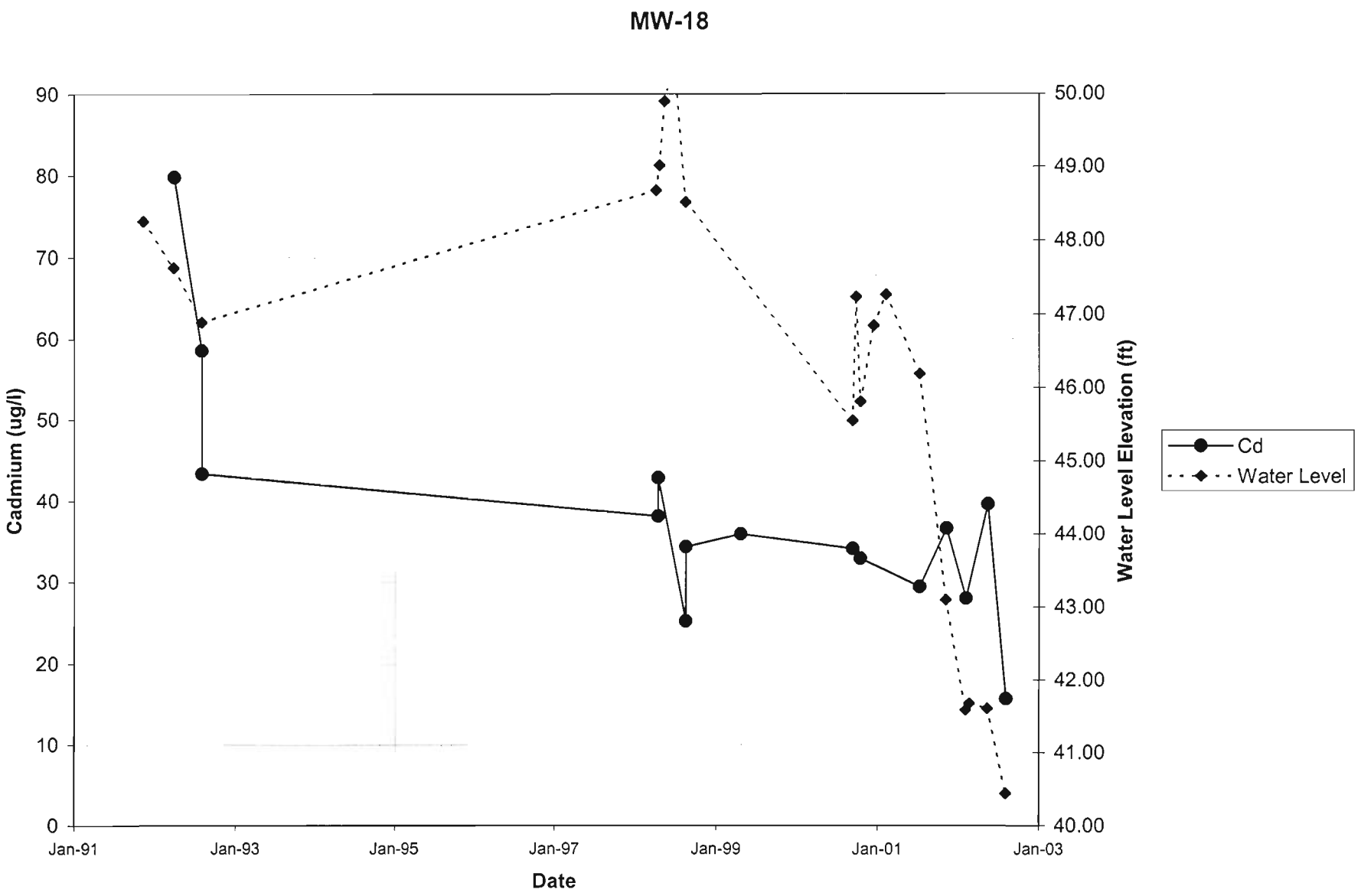

MW-18
Cadmium (ug/l)
Water Level Elevation (ft)
Date
Cd
Water Level
0
10
20
30
40
50
60
70
80
90
40.00
41.00
42.00
43.00
44.00
45.00
46.00
47.00
48.00
49.00
50.00
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-4C

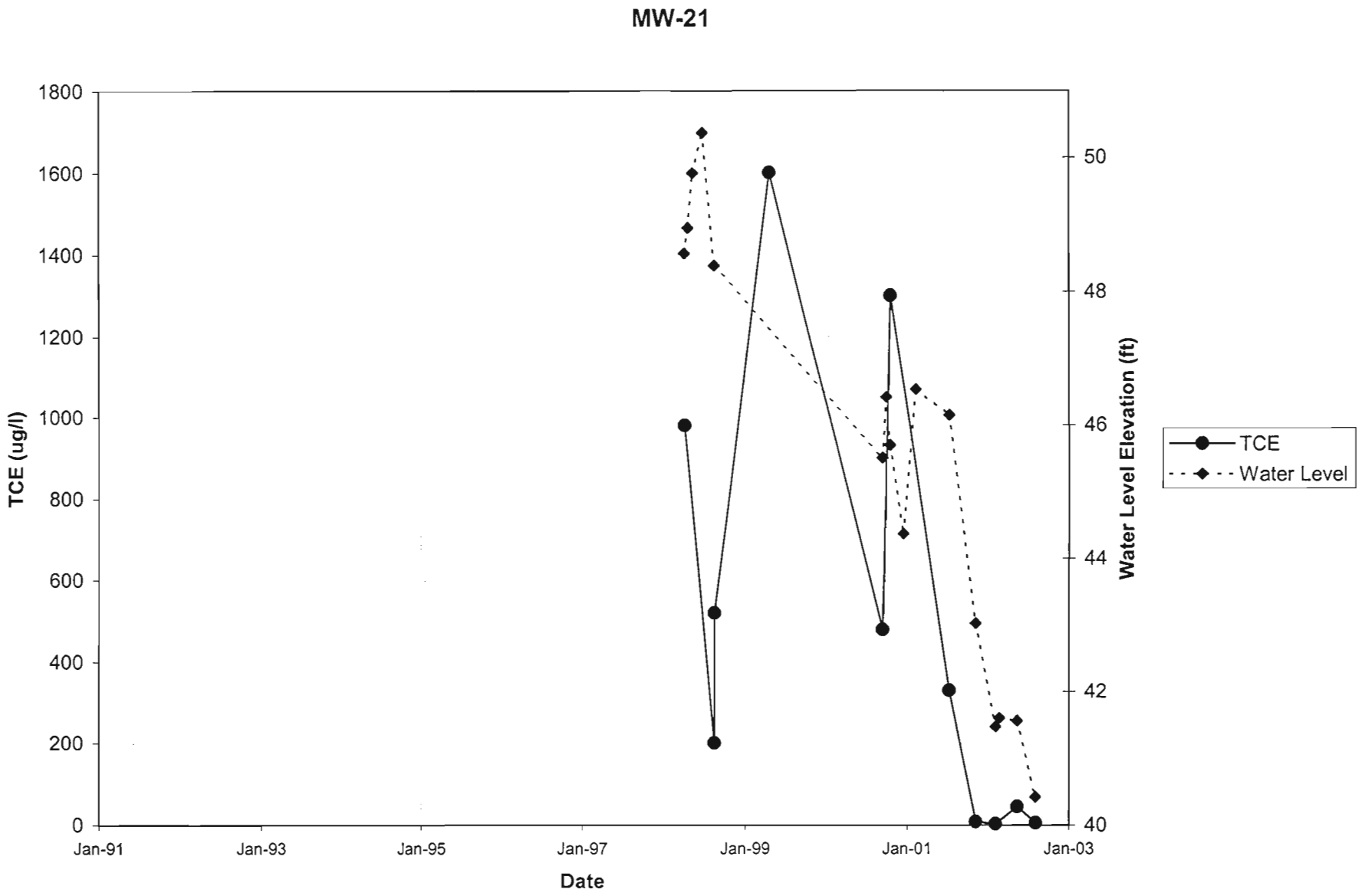

MW-21
1800
1600
1400
1200
1000
800
600
400
200
0
TCE (ug/l)
50
48
46
44
42
40
Water Level Elevation (ft)
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03
Date
TCE
Water Level

Fig. D-5A

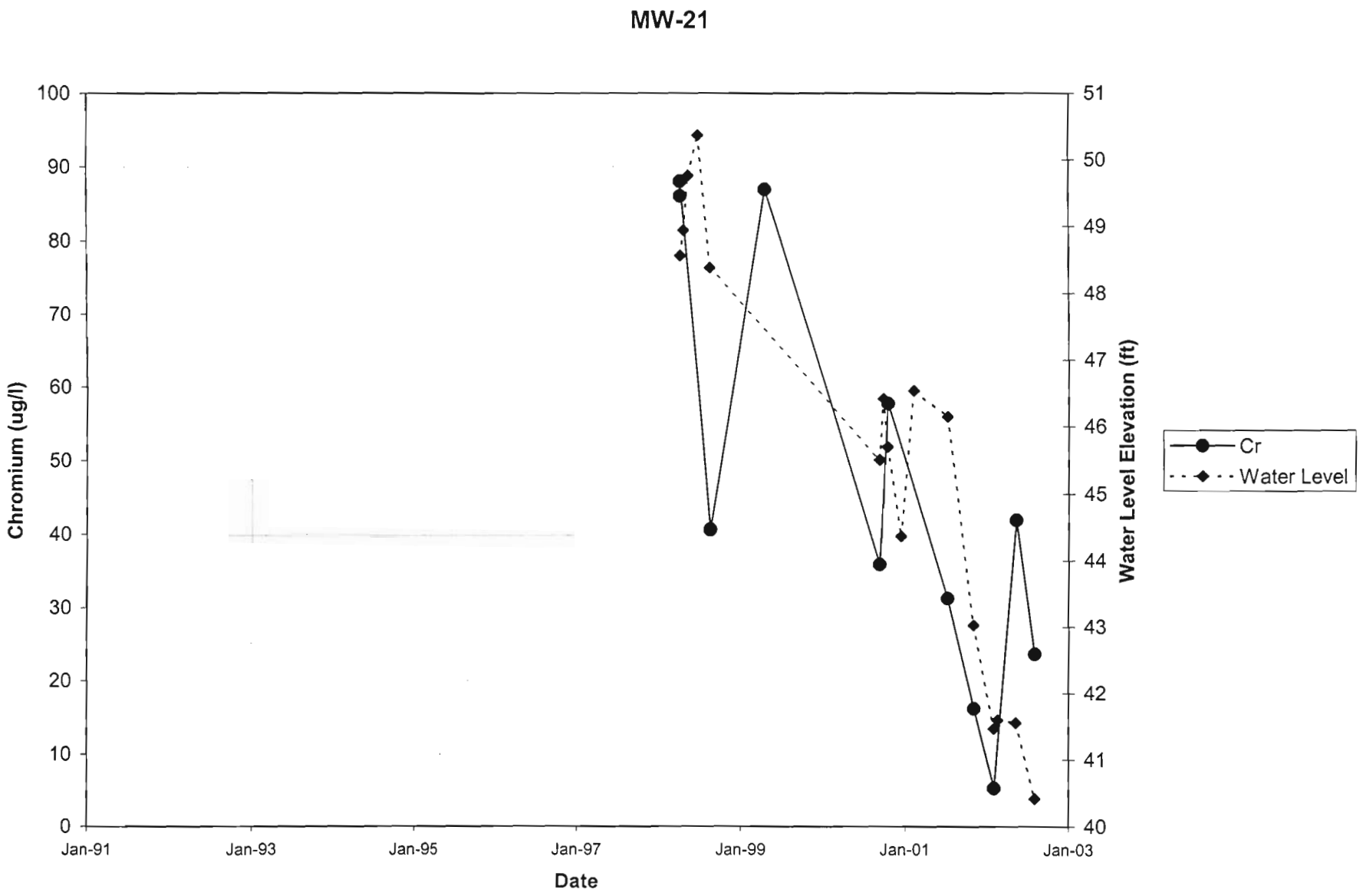

MW-21
Chromium (ug/l)
Water Level Elevation (ft)
Date
Cr
Water Level
100
90
80
70
60
50
40
30
20
10
0
51
50
49
48
47
46
45
44
43
42
41
40
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-5B

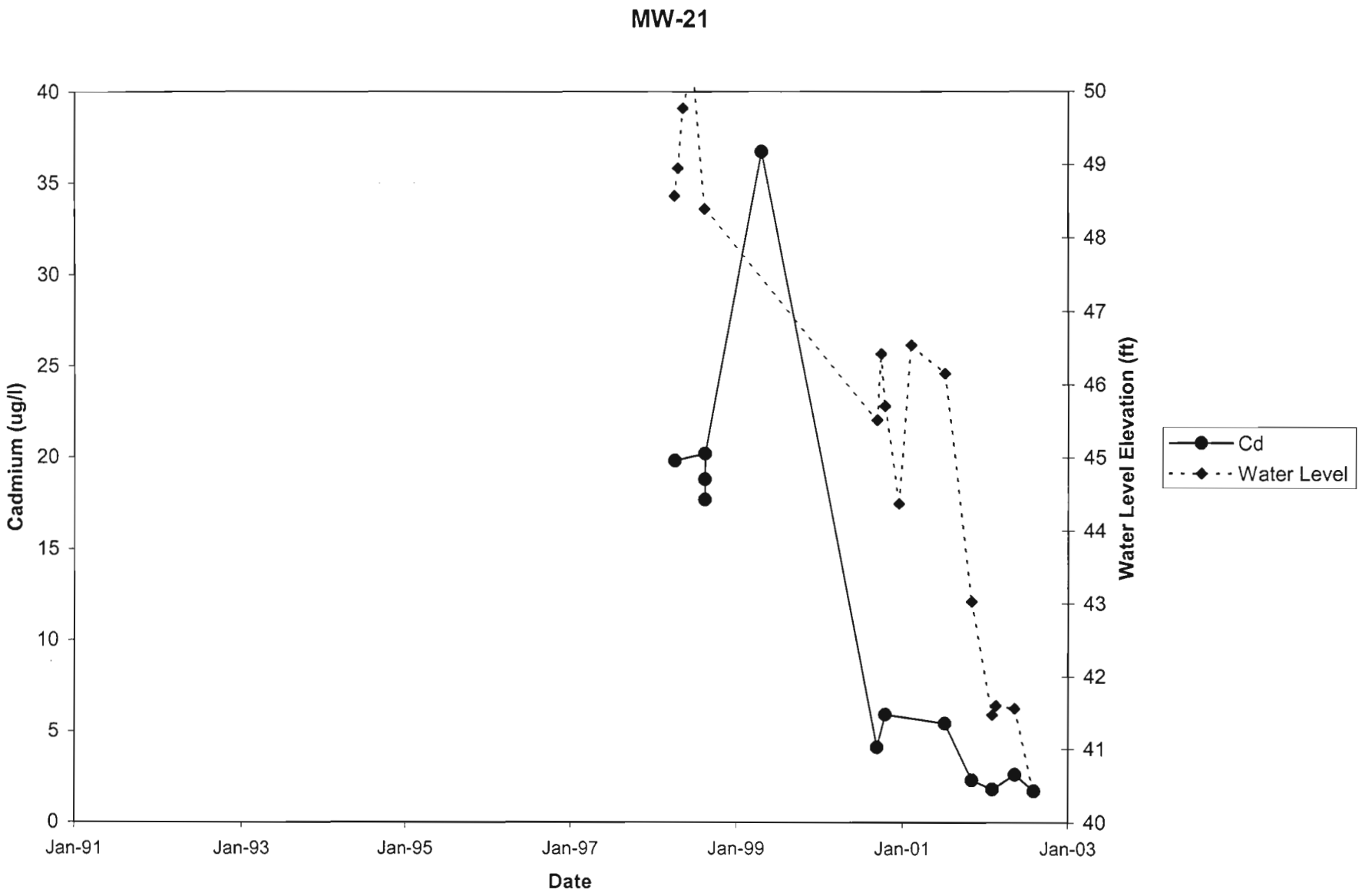

MW-21
Cadmium (ug/l)
Water Level Elevation (ft)
Date
Cd
Water Level
0
5
10
15
20
25
30
35
40
40
41
42
43
44
45
46
47
48
49
50
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-5C

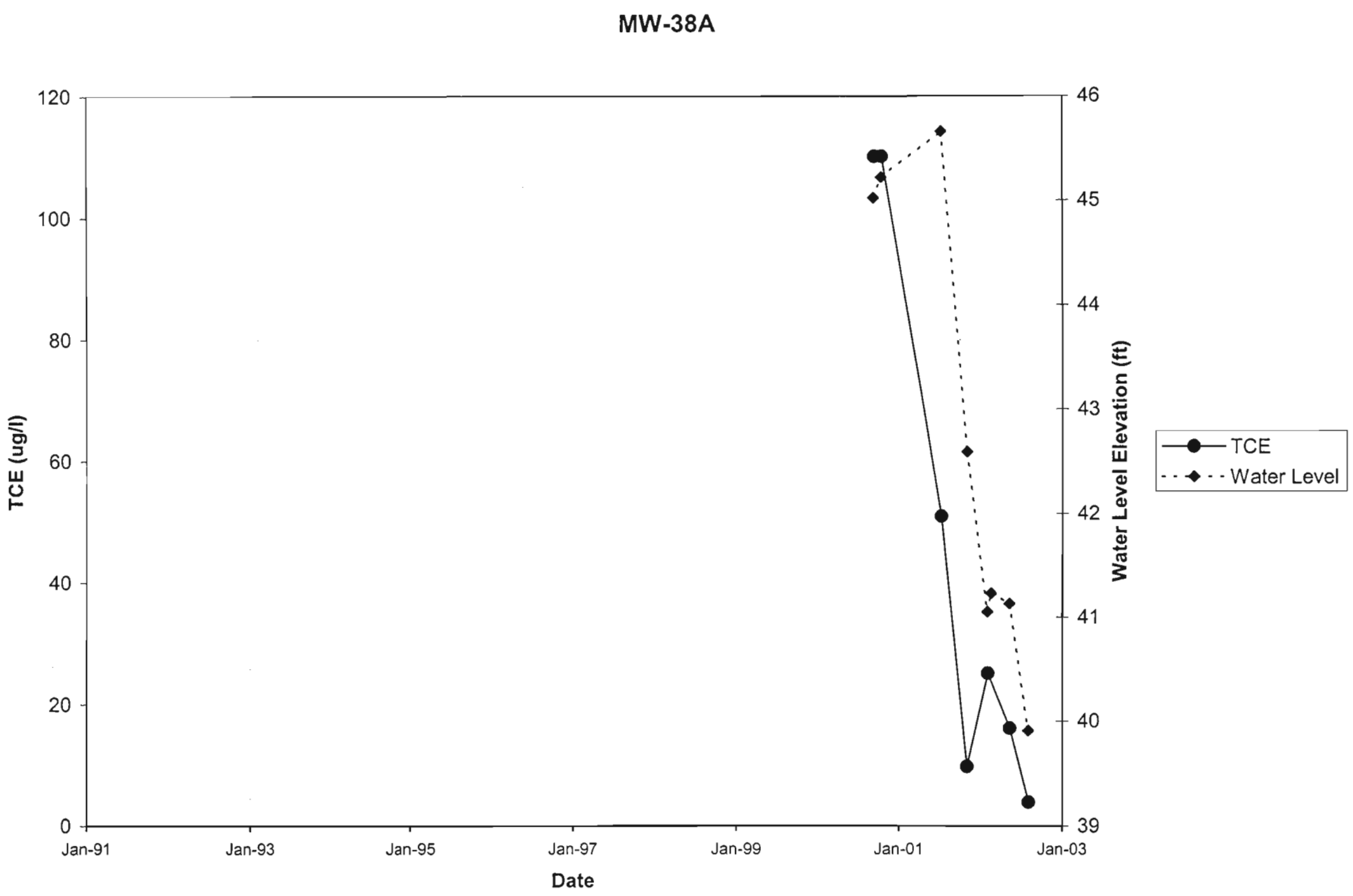

MW-38A
120
100
80
60
40
20
0
TCE (ug/l)
46
45
44
43
42
41
40
39
Water Level Elevation (ft)
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03
Date
TCE
Water Level

Fig. D-6A

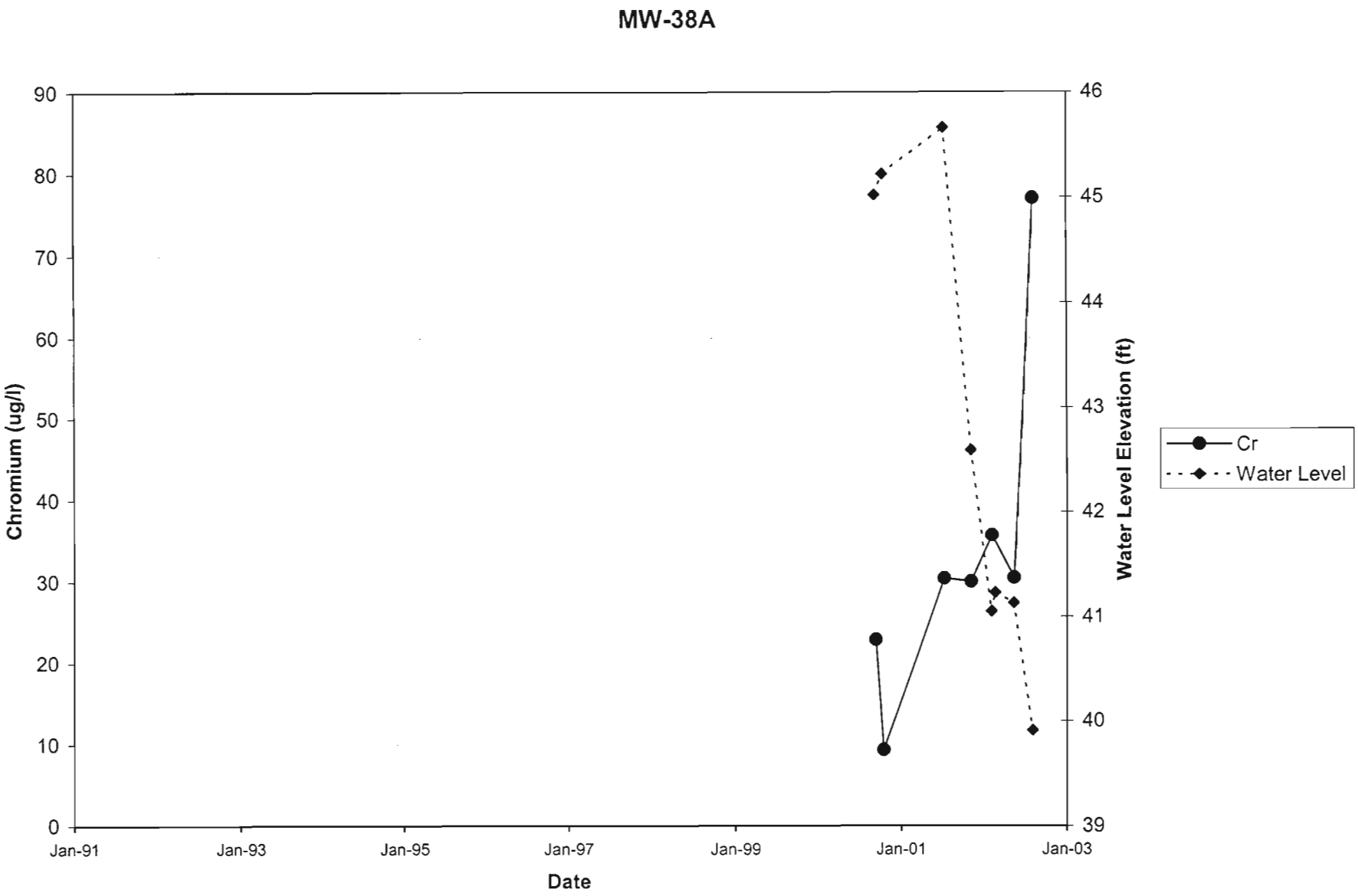

MW-38A
Chromium (ug/l)
Water Level Elevation (ft)
Date
Cr
Water Level
0
10
20
30
40
50
60
70
80
90
39
40
41
42
43
44
45
46
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-6B

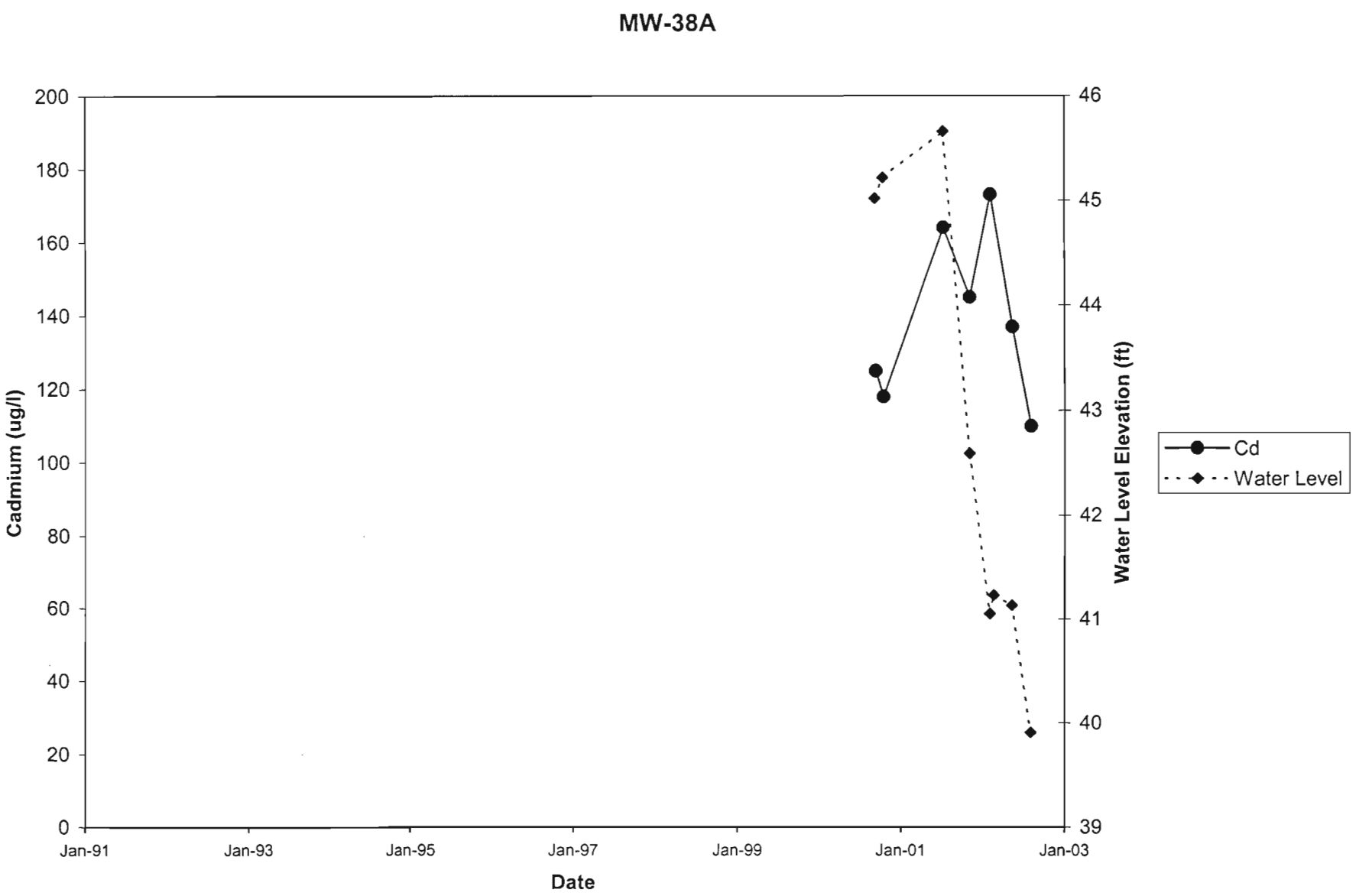

MW-38A
Cadmium (ug/l)
Water Level Elevation (ft)
Date
Cd
Water Level
0
20
40
60
80
100
120
140
160
180
200
39
40
41
42
43
44
45
46
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-6C

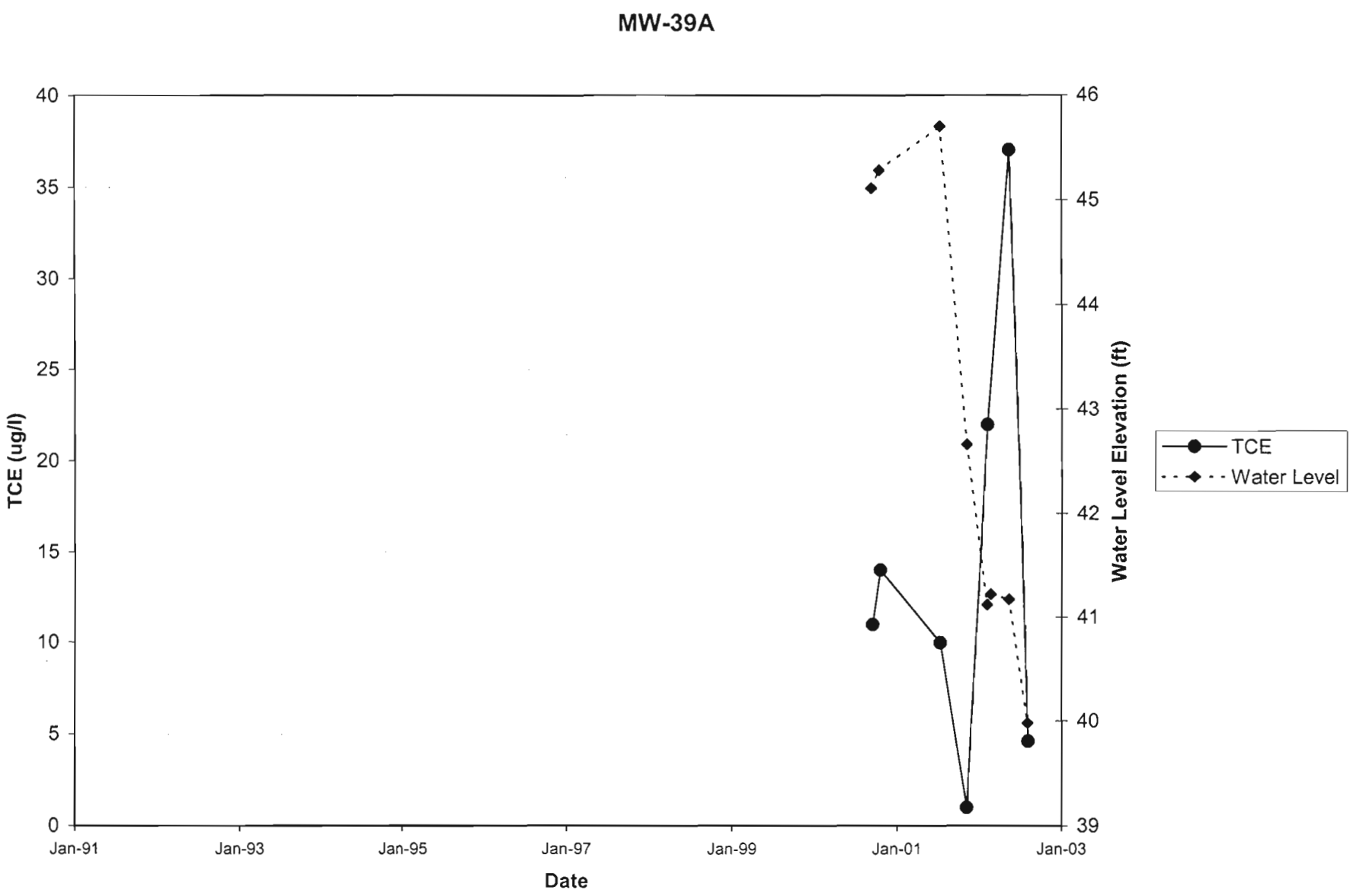

MW-39A
TCE (ug/l)
Water Level Elevation (ft)
Date
TCE
Water Level
0
5
10
15
20
25
30
35
40
39
40
41
42
43
44
45
46
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-8A

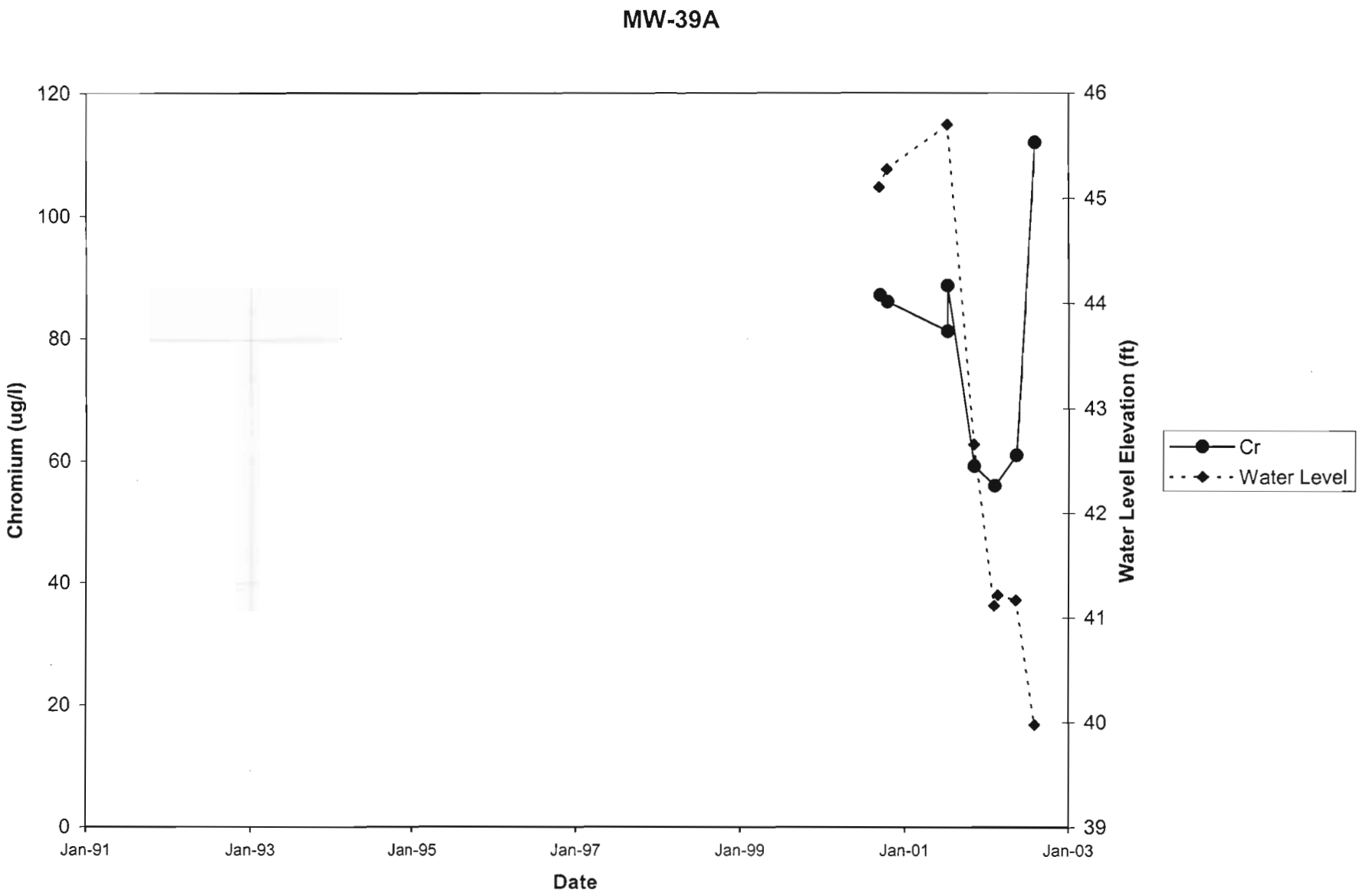

MW-39A
120
100
80
60
40
20
0
Chromium (ug/l)
46
45
44
43
42
41
40
39
Water Level Elevation (ft)
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03
Date
Cr
Water Level

Fig. D-8B

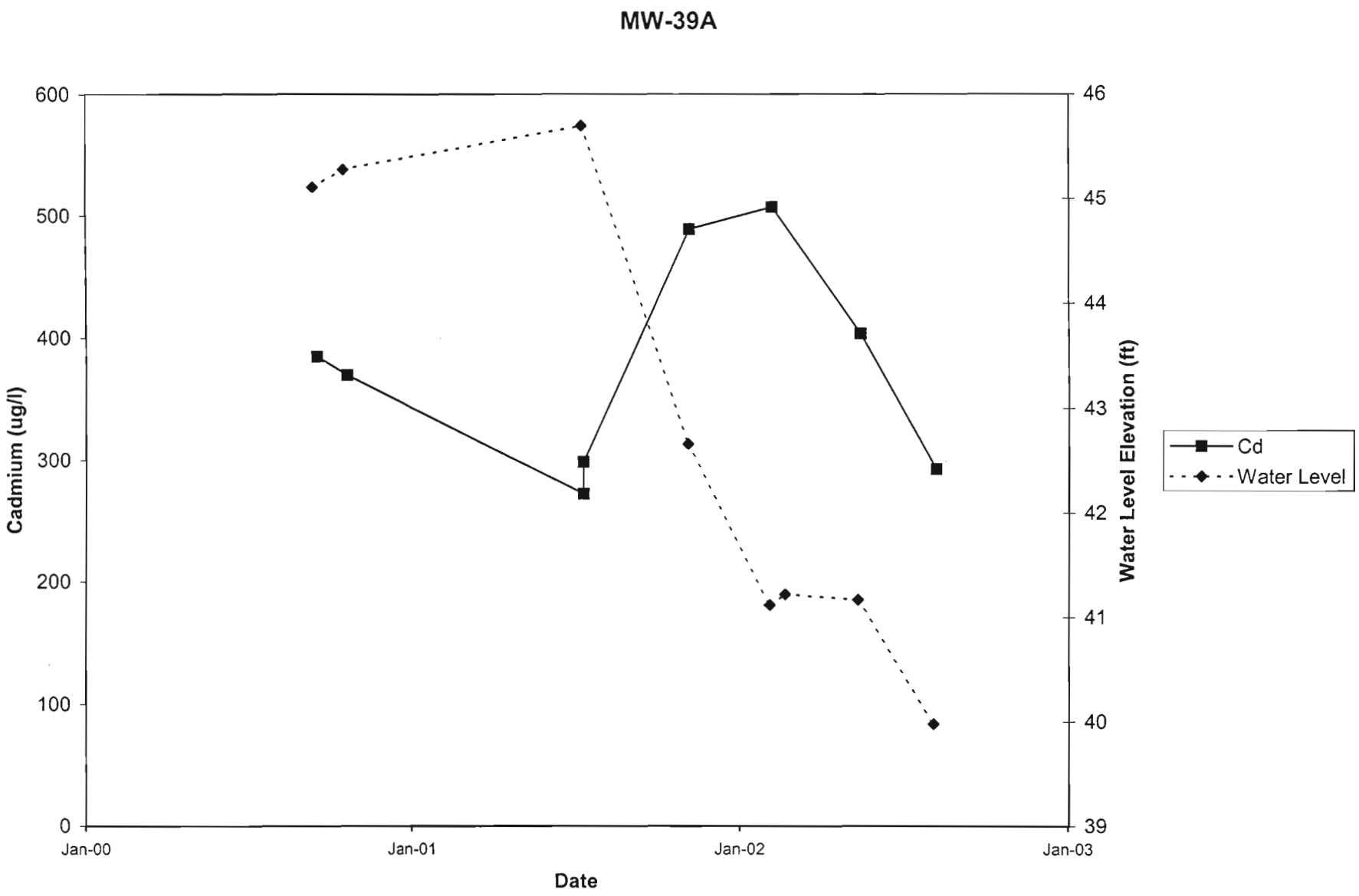

MW-39A
600
500
400
300
200
100
0
Cadmium (ug/l)
46
45
44
43
42
41
40
39
Water Level Elevation (ft)
Jan-00
Jan-01
Jan-02
Jan-03
Date
Cd
Water Level

Fig. D-8C

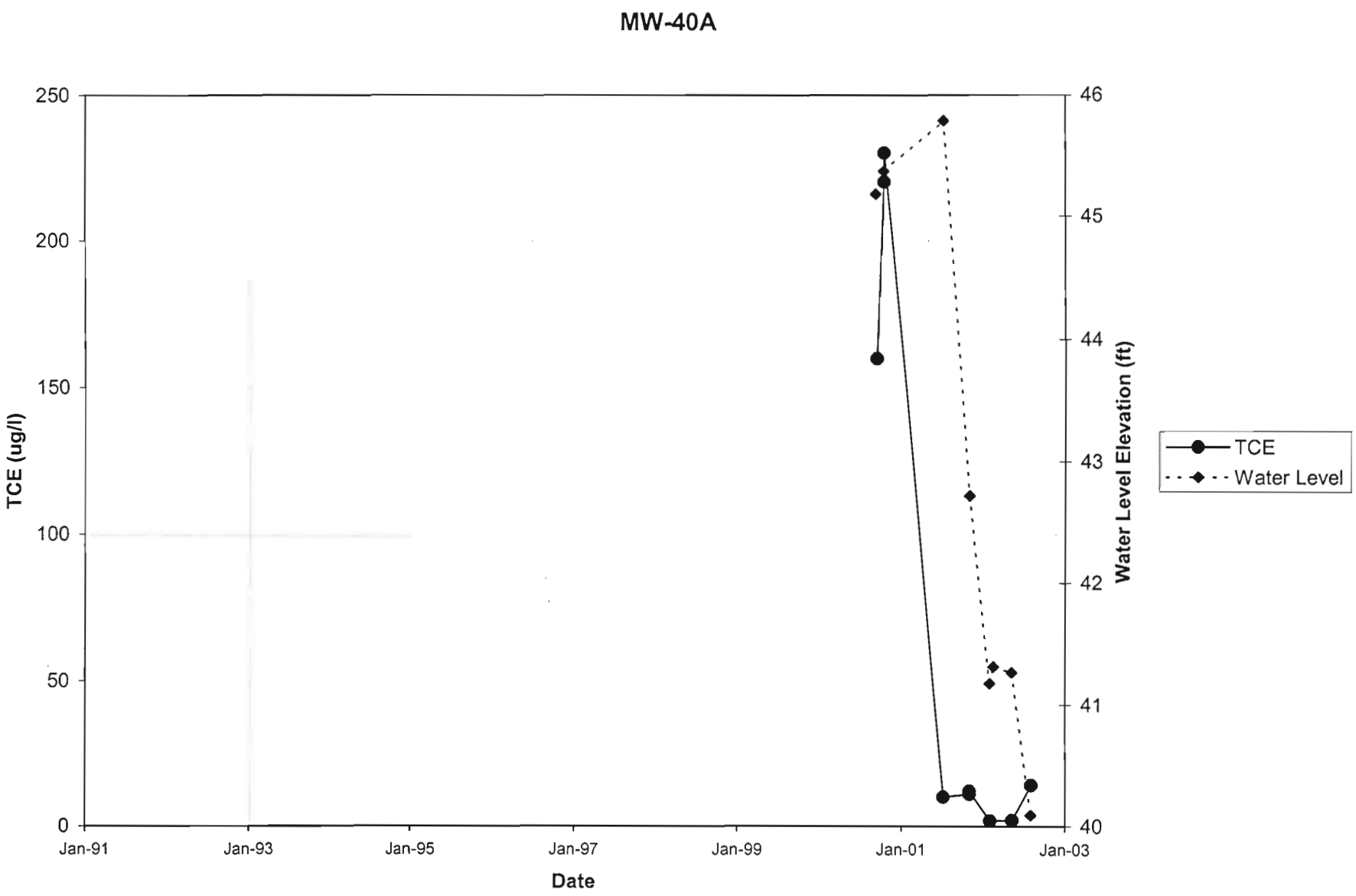

MW-40A
250
200
150
100
50
0
TCE (ug/l)
46
45
44
43
42
41
40
Water Level Elevation (ft)
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03
Date
TCE
Water Level

Fig. D-10A

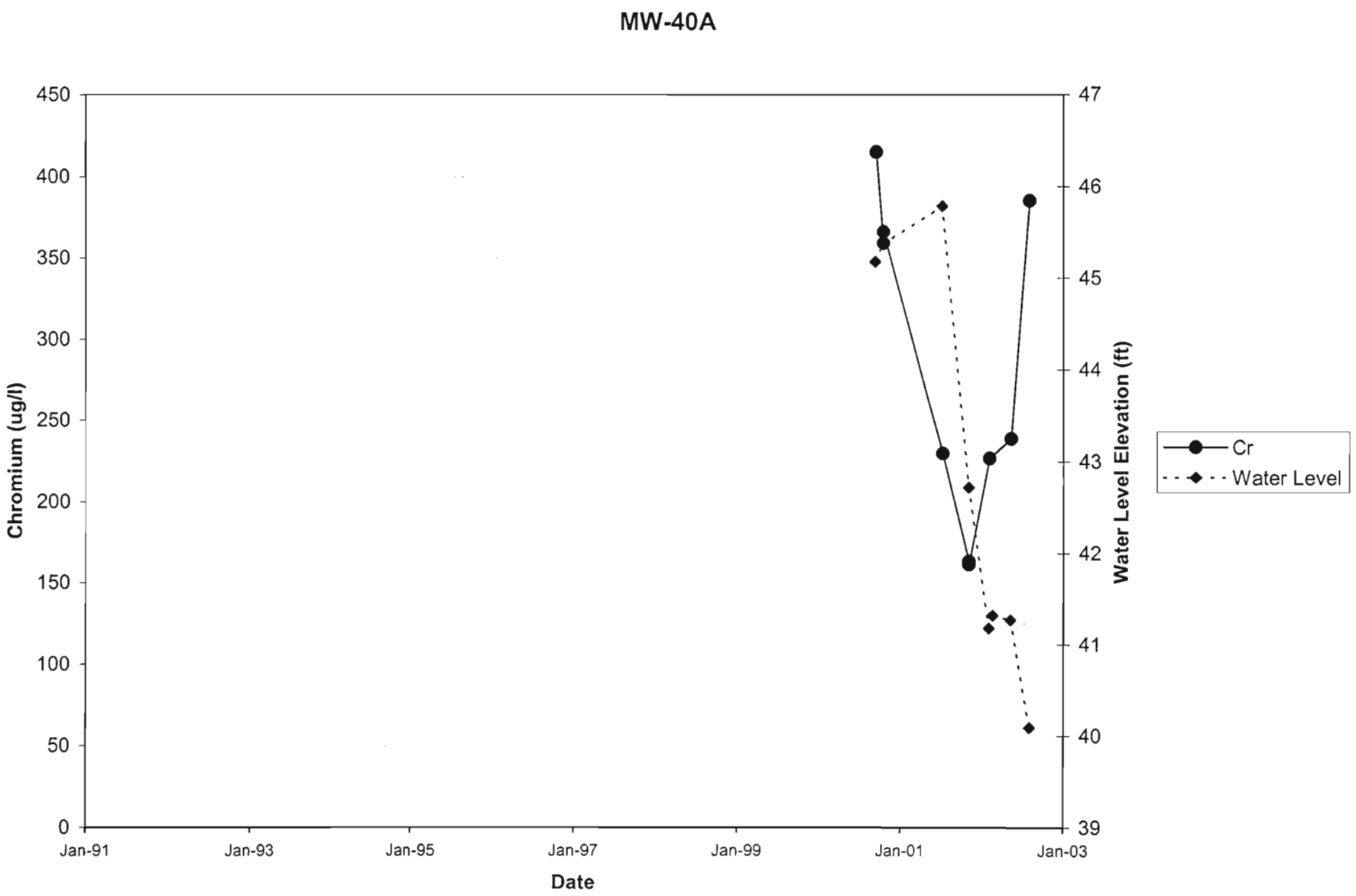

MW-40A
Chromium (ug/l)
Water Level Elevation (ft)
Date
Cr
Water Level
450
400
350
300
250
200
150
100
50
0
47
46
45
44
43
42
41
40
39
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-10B

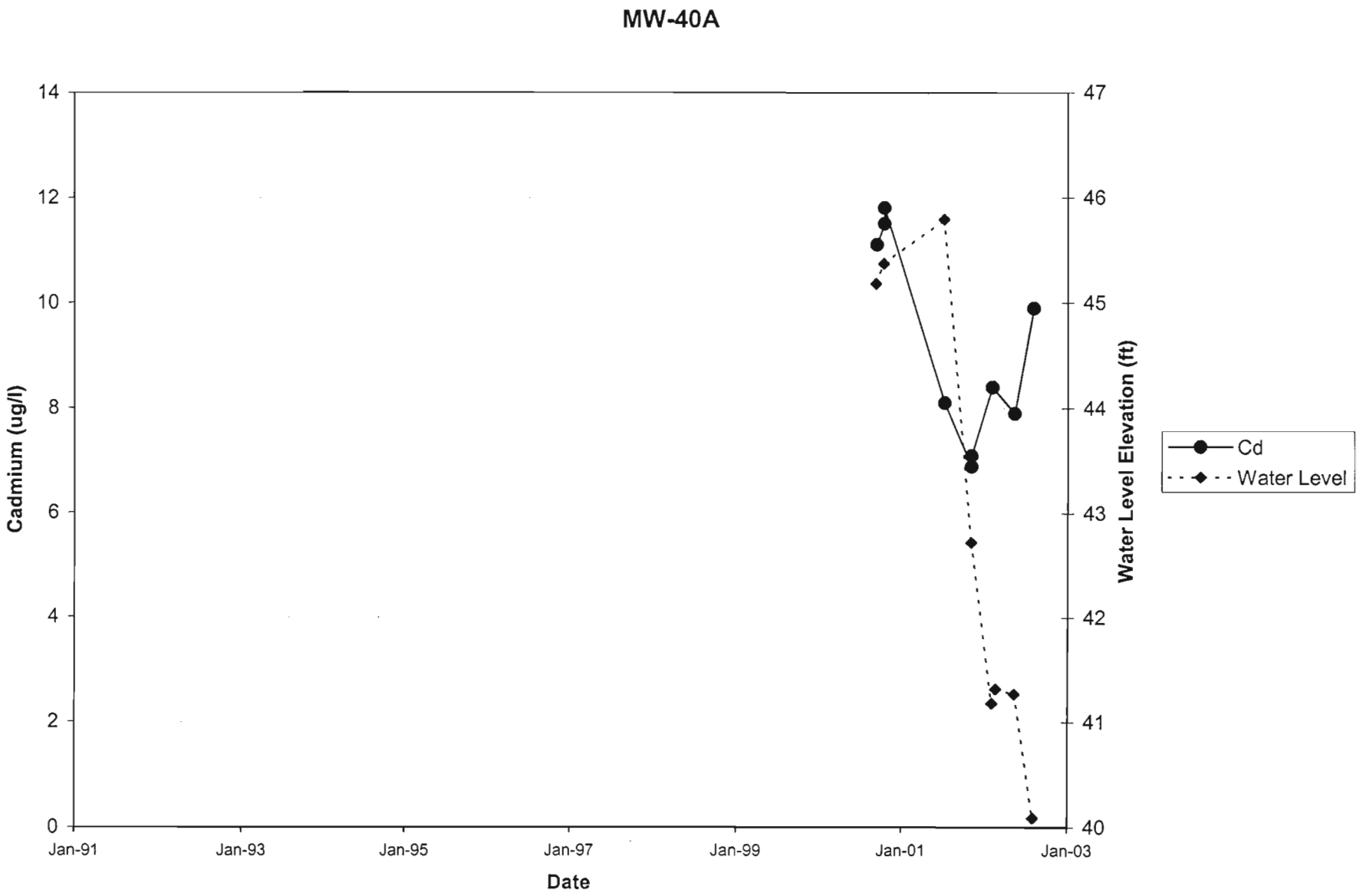

MW-40A
Cadmium (ug/l)
Water Level Elevation (ft)
Date
Cd
Water Level
0
2
4
6
8
10
12
14
40
41
42
43
44
45
46
47
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-10C

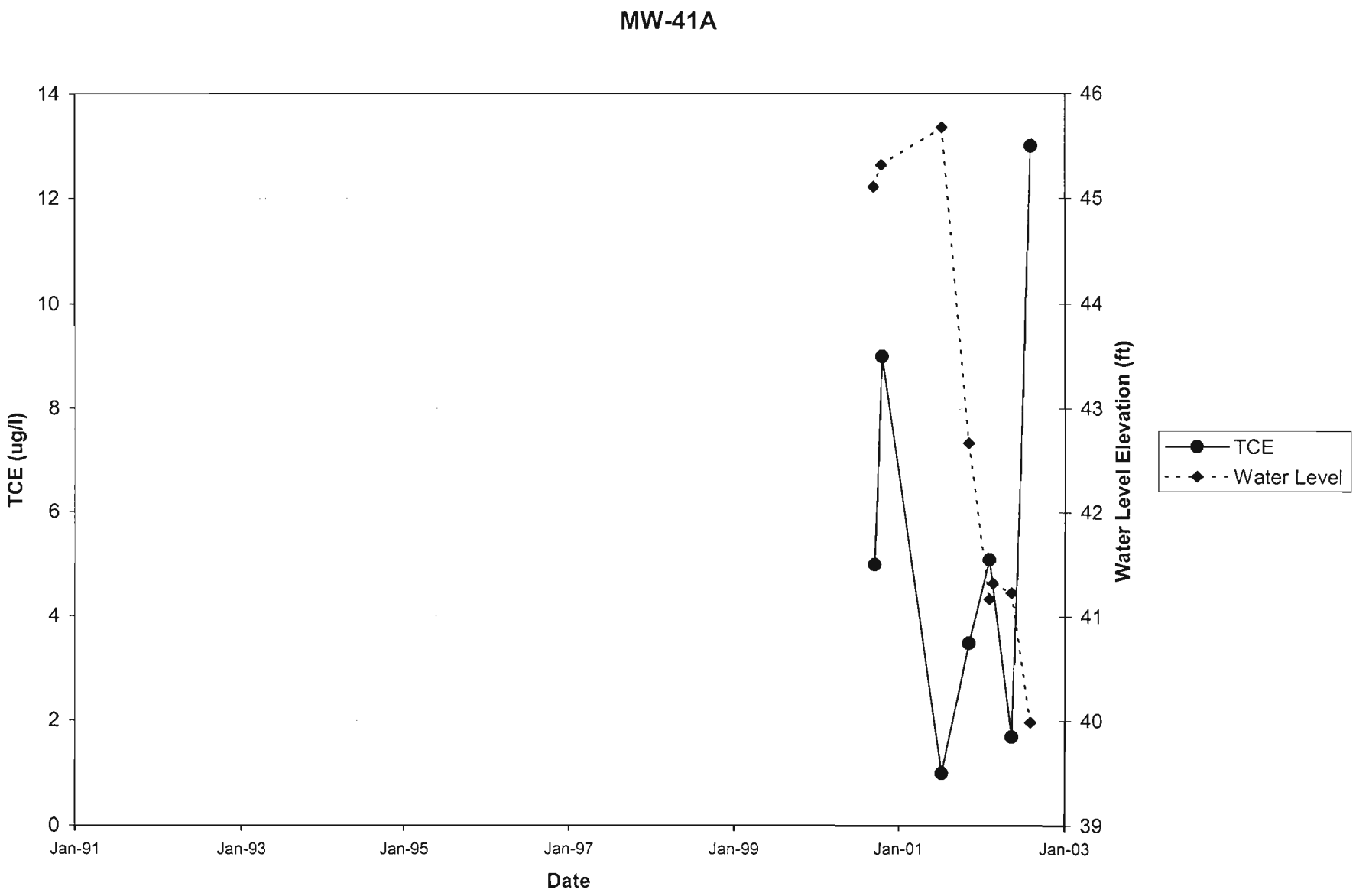

MW-41A
TCE (ug/l)
Water Level Elevation (ft)
Date
TCE
Water Level
0
2
4
6
8
10
12
14
39
40
41
42
43
44
45
46
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-12A

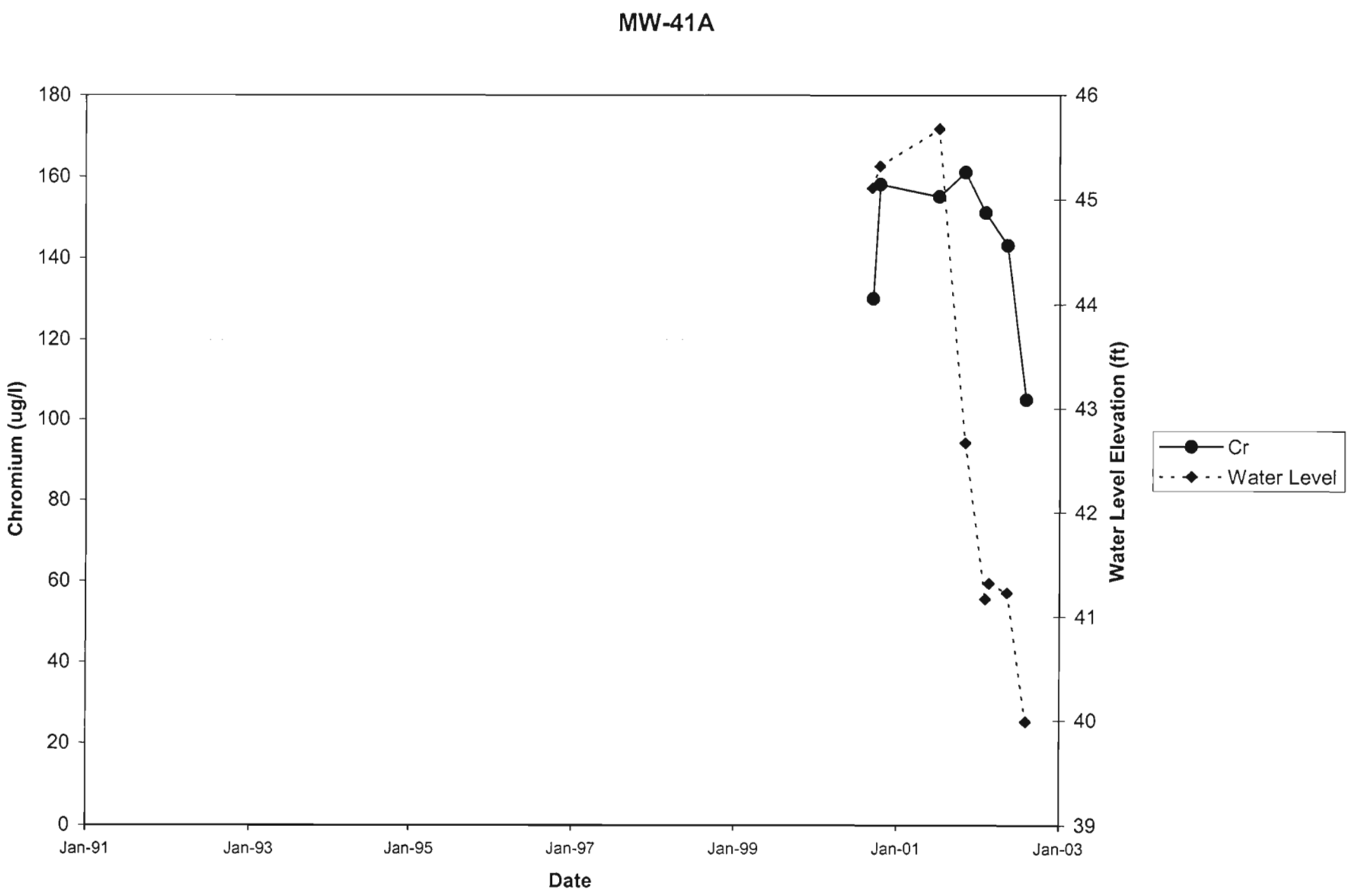

MW-41A
Chromium (ug/l)
Water Level Elevation (ft)
Date
Cr
Water Level
0
20
40
60
80
100
120
140
160
180
39
40
41
42
43
44
45
46
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-12B

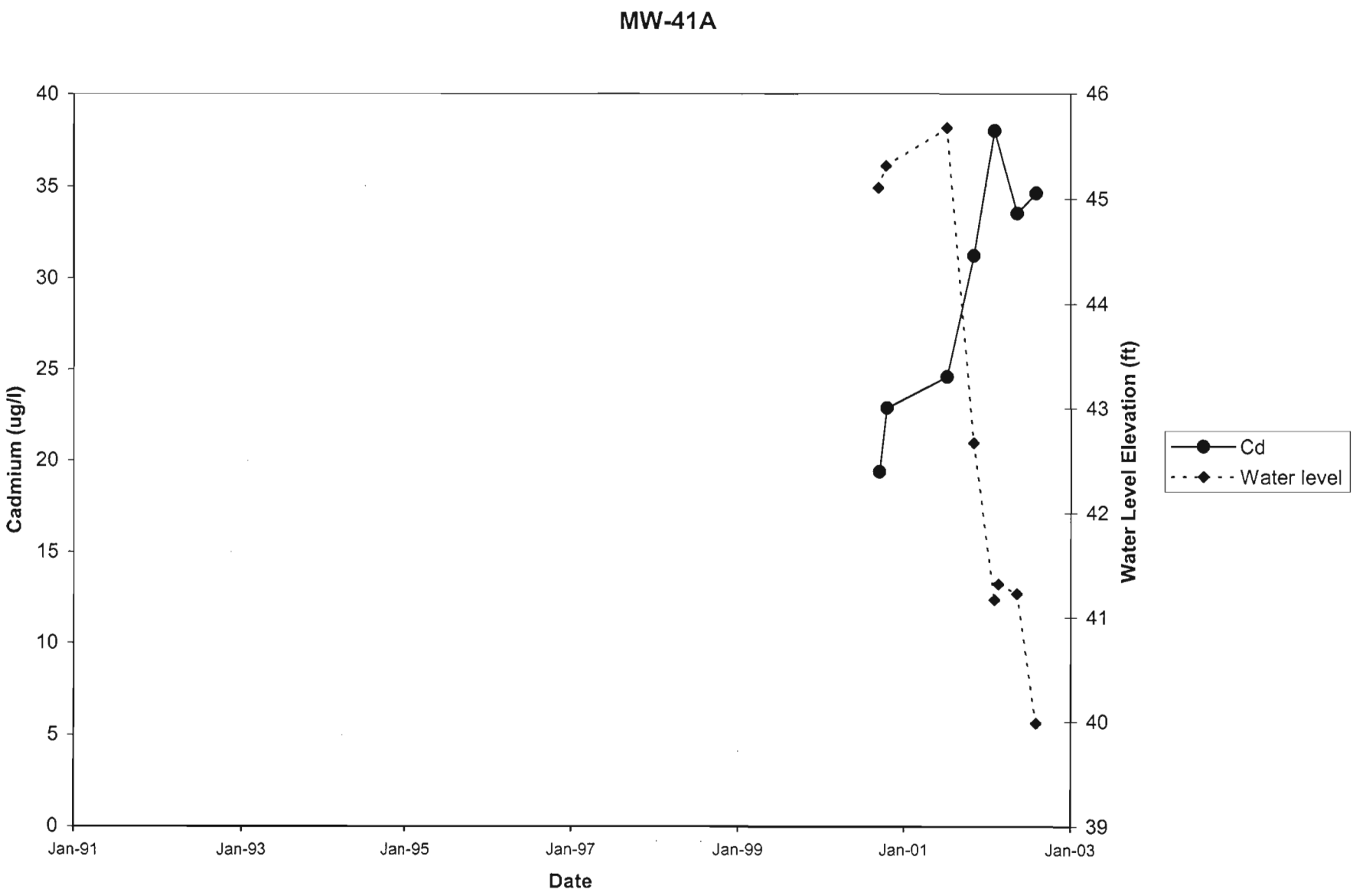

MW-41A
Cadmium (ug/l)
Water Level Elevation (ft)
Date
Cd
Water level
0
5
10
15
20
25
30
35
40
39
40
41
42
43
44
45
46
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-12C

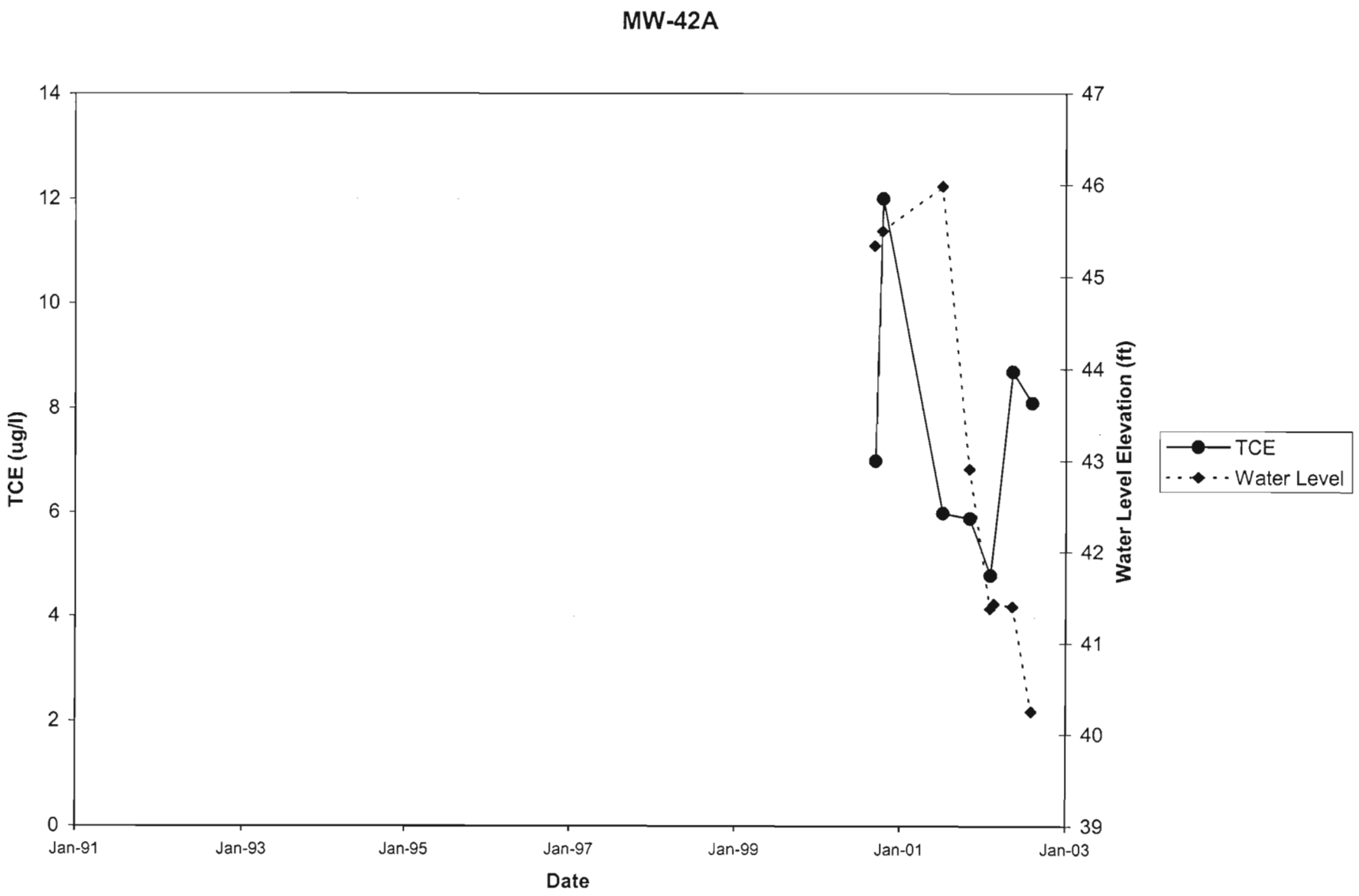

MW-42A
TCE (ug/l)
Water Level Elevation (ft)
Date
0
2
4
6
8
10
12
14
39
40
41
42
43
44
45
46
47
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03
TCE
Water Level

Fig. D-13A

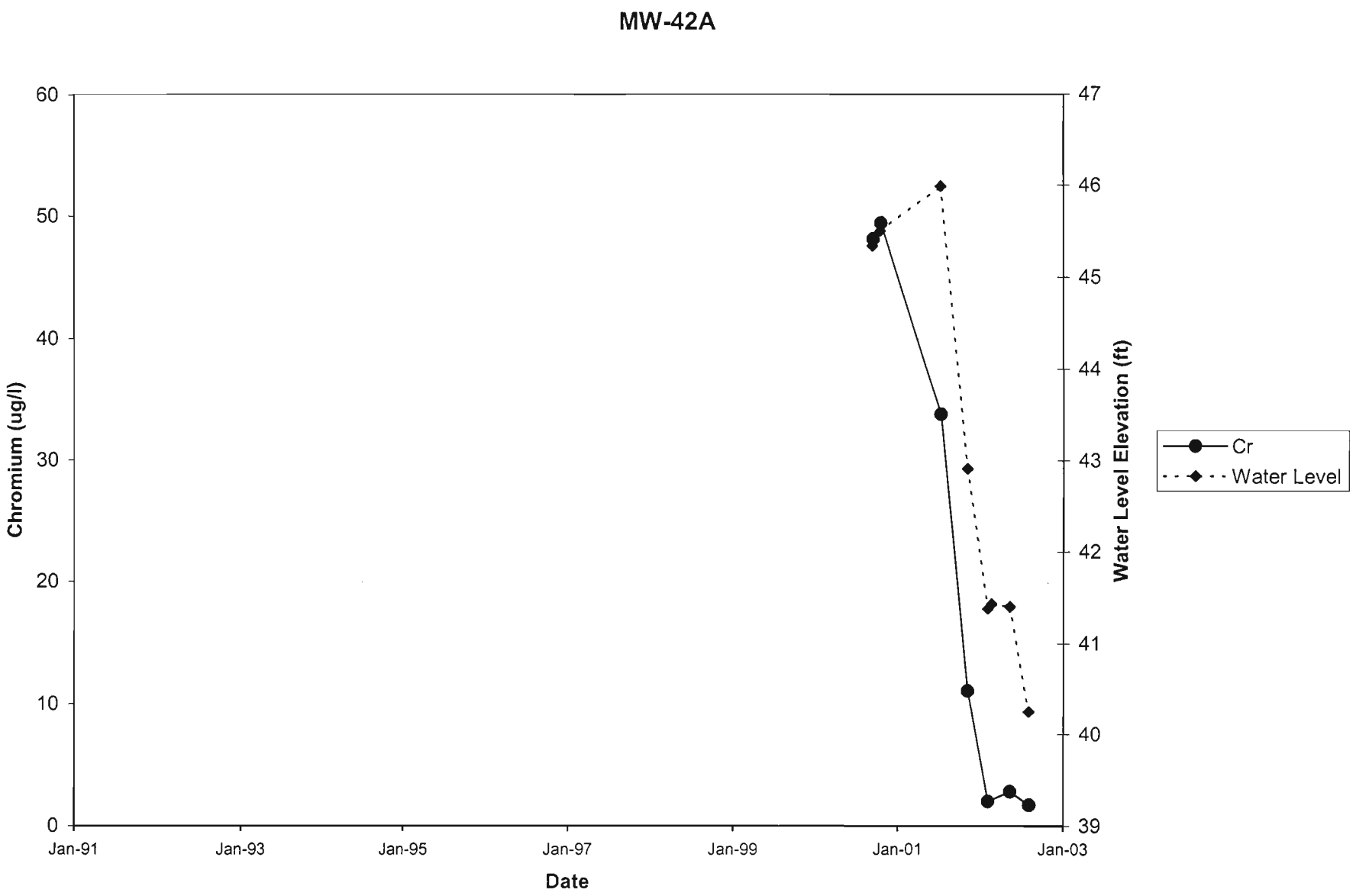

MW-42A
60
50
40
30
20
10
0
Chromium (ug/l)
47
46
45
44
43
42
41
40
39
Water Level Elevation (ft)
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03
Date
Cr
Water Level

Fig. C-13B

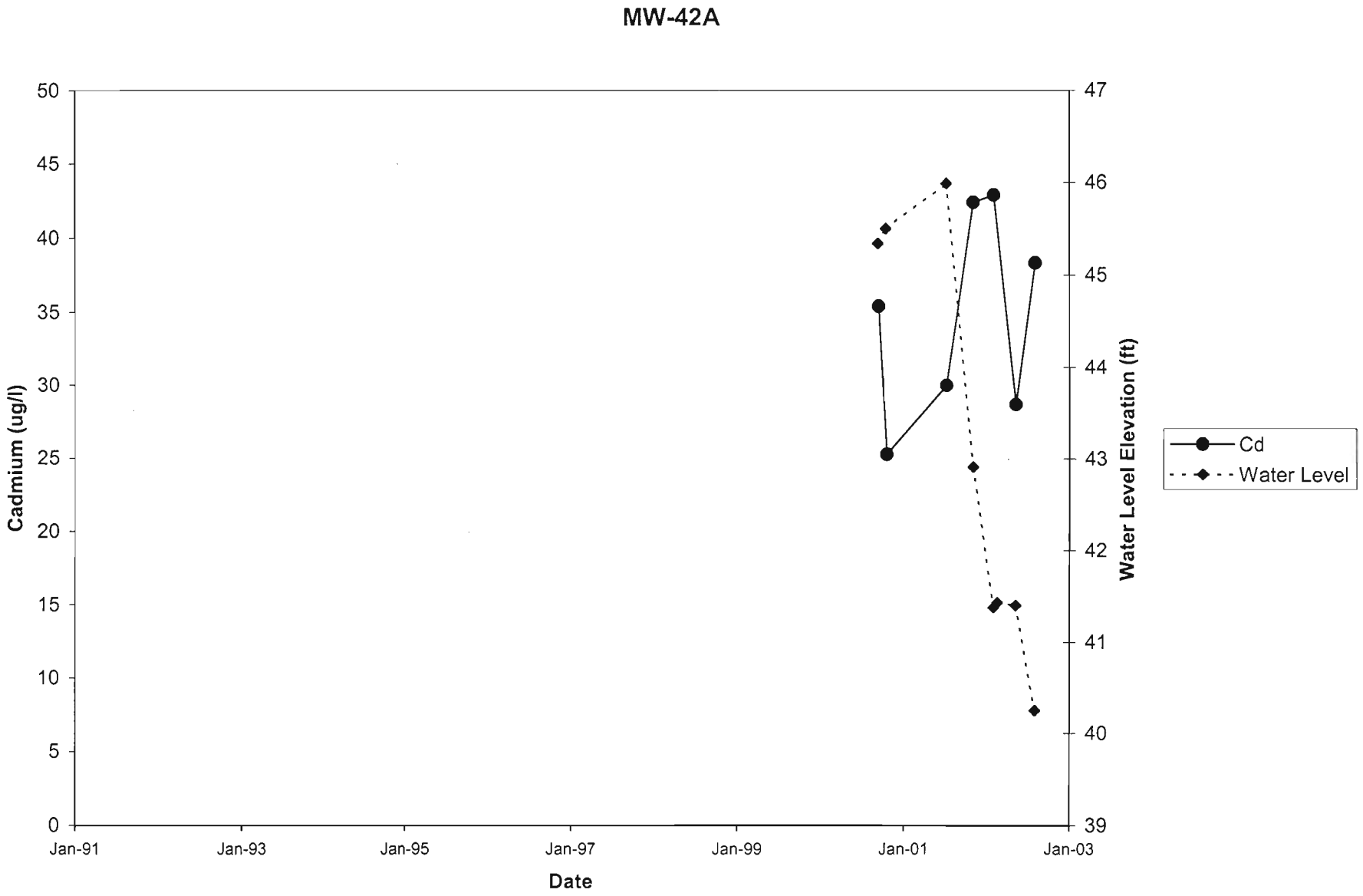

MW-42A
Cadmium (ug/l)
Water Level Elevation (ft)
Date
Cd
Water Level
0
5
10
15
20
25
30
35
40
45
50
39
40
41
42
43
44
45
46
47
Jan-91
Jan-93
Jan-95
Jan-97
Jan-99
Jan-01
Jan-03

Fig. D-13C