DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

TELEPHONE (708) 498-6910
FAX (708) 498-6911

ONE NORTHBROOK PLACE
5 REVERE DRIVE, SUITE 310
NORTHBROOK, ILLINOIS 60062

TAMPA, FLORIDA

LOS ANGELES, CALIFORNIA

QUARTERLY GROUNDWATER MONITORING AND GROUNDWATER REMEDIATION PROGRESS REPORT IPM COMPANY SITE ILD085352474/RCRA CLOSURE

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KEARNEY-NATIONAL, INC.

IPM COMPANY SITE

DES PLAINES, ILLINOIS

DAI Project No. 6330

Prepared for: Illinois Environmental Protection Agency

Prepared by: DePaul & Associates, Inc.

Date: May 3, 1993

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1.0 INTRODUCTION

1.1 BACKGROUND

International Products and Manufacturing Company (IPM) maintained an underground spill containment tank and chemical storage room at a facility in Des Plaines, Illinois. In September 1988, IPM engaged the services of ASI Environmental Technologies (ASI) to remove the underground spill containment tank. During the tank excavation, volatile organic compound (VOC) contamination, principally Trichloroethylene (TCE), was identified in the surrounding soils and groundwater. IPM further engaged ASI to conduct a subsurface remedial investigation, prepare a closure plan, and implement corrective actions in accordance with Resource Conservation and Recovery Act (RCRA) regulations as required by the Illinois Environmental Protection Agency (IEPA). The results of the remedial investigation and the design of the soil and groundwater remediation system were presented to IEPA by ASI. As part of the containment tank closure plan, ASI installed a groundwater remediation system at the site. A site plan of the IPM facility is provided in Figure 1. Site-specific groundwater cleanup objective levels were set by IEPA in the closure plan approval letter dated November 30, 1992, and are presented in Table 1.

TABLE 1. GROUNDWATER CLEANUP OBJECTIVE LEVELS (μg/L)

CONTAMINANT	CLEANUP OBJECTIVE LEVEL	CONTAMINANT	CLEANUP OBJECTIVE LEVEL
Trichloroethylene	25.0	1,1,1,2-Tetrachloroethane	210.0
Tetrachloroethylene	25.0	1,1,2-Trichloroethane	25.0
trans-1,2-Dichloroethylene	500.0	1,1,1-Trichloroethane	1,000.0
cis-1,2-Dichloroethylene	200.0	Xylenes (total)	10,000.0
Vinyl Chloride	10.0	Ethylbenzene	1,000.0
Carbon Tetrachloride	25.0	Toluene	5,000.0

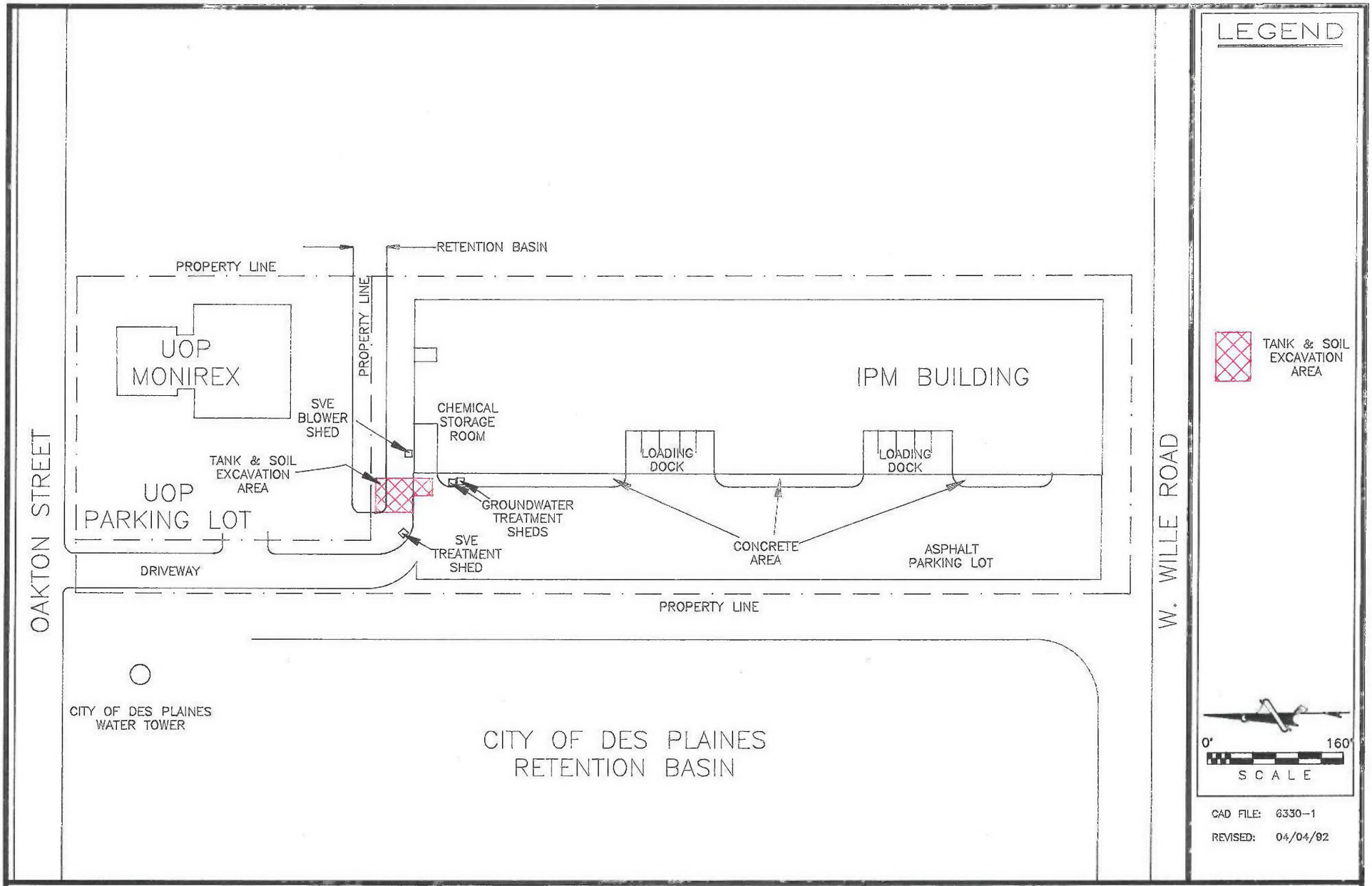

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FIGURE 1
SITE PLAN

IPM has ceased operations at the Des Plaines site and vacated the premises.

Kearney-National Inc., the parent company of IPM and current property owner, has assumed responsibility for the remediation and has engaged DePaul & Associates, Inc. (DAI) to supervise the corrective actions at the site, and to complete the site closure and post-closure activities.

1.2 QUARTERLY REPORTING REQUIREMENTS AND OBJECTIVES

In the closure plan approval letter dated November 30, 1992, the IEPA required that quarterly progress reports be submitted. "Each quarterly progress report shall contain an assessment of the effectiveness of the corrective action program to reduce groundwater contaminant concentration and prevent further migration of the contaminant plume(s). At a minimum, these reports should include an assessment of the extent of groundwater contamination and the rate of plume migration (spreading or shrinking)."

This quarterly progress report is being submitted to comply with the IEPA requirement for quarterly reports on the progress of the groundwater corrective action. The objectives of this quarterly progress report are as follows:

- Describe the installation of bedrock monitoring well MW-18E, and present the results of groundwater sampling and analysis of MW-18E,
- Summarize the most recent groundwater monitoring results, and compare them to the previous quarter results,
- Summarize the operation of the groundwater extraction system, and
- Provide a current assessment of the effectiveness of the groundwater corrective actions.

2.0 GROUNDWATER MONITORING AND REMEDIATION SYSTEM

2.1 GROUNDWATER MONITORING SYSTEM

2.1.1 Groundwater Monitoring Wells: To determine the extent of groundwater contamination, ASI installed forty-two (42) groundwater monitoring wells in the area surrounding the former spill containment tank. ASI interpreted the subsurface stratigraphy to consist of three distinct hydrogeological units. These units were described as the Upper Formation, the Lower Formation, and the Fractured Limestone Formation (bedrock). Monitoring wells were screened at variable depths to determine the extent of contamination in each unit. Based on the depths of the monitoring well screened intervals, four monitoring well zones were designated by ASI as the B-Zone (Upper Formation), the A-Zone and C-Zone (Lower Formation), and the D-Zone (Fractured Limestone Formation). In the closure plan approval letter dated June 26, 1991 (revised July 10, 1991), the IEPA requested that additional deep monitoring wells be installed to determine the lateral and vertical extent of groundwater contamination in the fractured limestone. In response to this request, three additional D-Zone monitoring wells were installed under the supervision of DAI. Monitoring well MW-18D was completed on January 28, 1992, and monitoring wells MW-28D and MW-29D were completed on August 21, 1992. Soil boring logs for monitoring wells MW-18D, MW-28D, and MW-29D are provided in Appendix A. Visual classification of soil samples collected from MW-18D, MW-28D, and MW-29D by DAI indicated that the soils in the D-Zone were not fractured limestone, and could be better classified as silty-clays with limestone fragments. The presence and angularity of the limestone fragments in the D-Zone soils suggested that the D-Zone was underlain by a limestone bedrock unit. This was later confirmed by subsequent installation of bedrock monitoring well MW-18E. Therefore, DAI will refer to the D-Zone as the bedrock/overburden interface zone.

On November 30, 1992, the IEPA approved the installation of one bedrock monitoring well (MW-18E) with the provisions that the monitoring well be located within five feet of monitoring well MW-18D, and that the monitoring well boring be continuously sampled from a depth of 99-ft bgs to the terminus of the borehole. The purpose of installing the

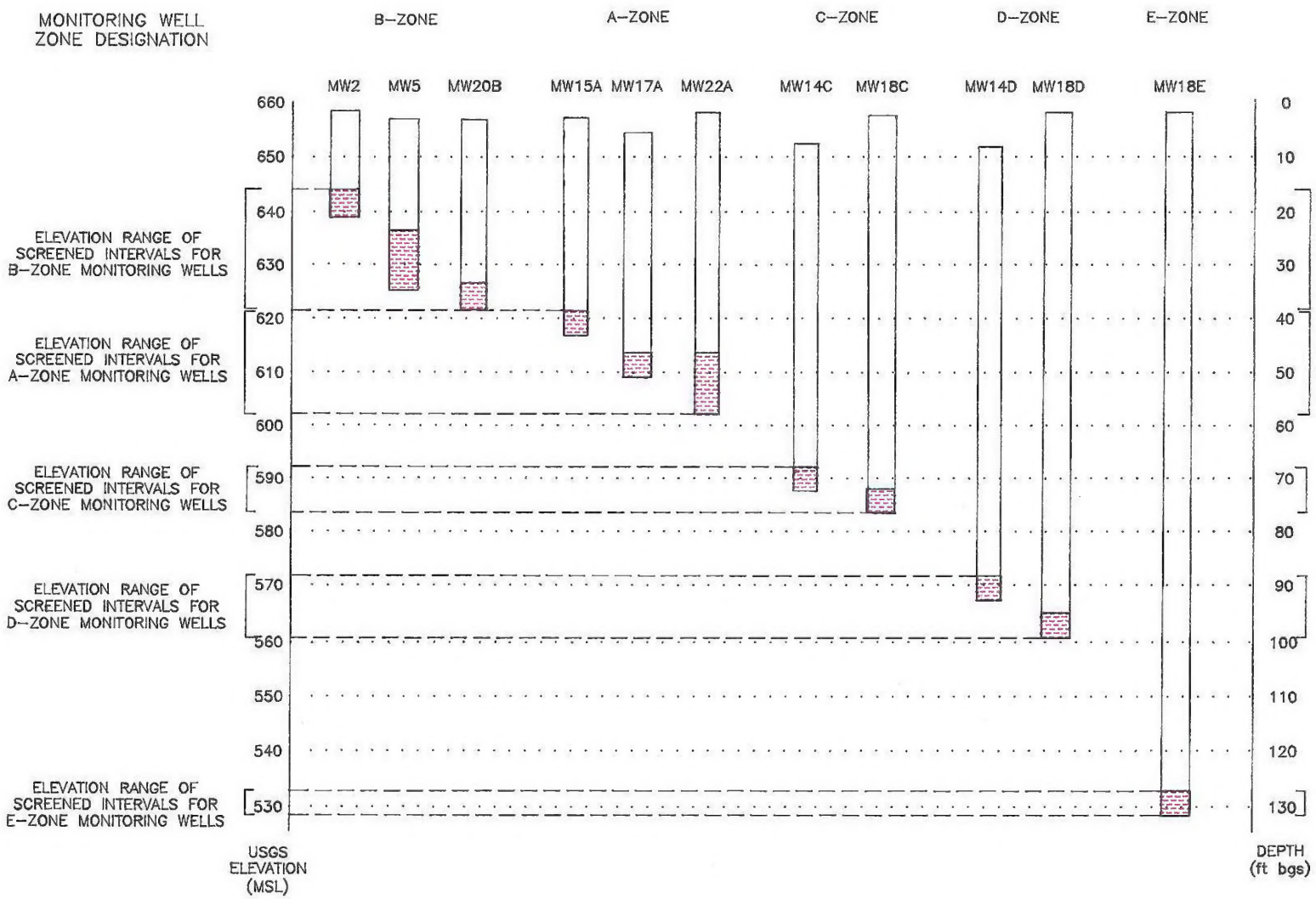
bedrock monitoring well was to define the vertical extent of contamination at the site. Bedrock monitoring well MW-18E was installed under the supervision of DAI between February 1, 1993 and February 10, 1993. The depth of the MW-18E borehole was 132-ft, and the monitoring well was screened from 127-ft bgs to 132-ft bgs. The soil boring log and well construction boring log for monitoring well MW-18E is provided in Appendix A. Further details on the installation and sampling of groundwater from MW-18E are provided in section 2.1.3 of this report.

Table 2 summarizes the monitoring well designations and the typical screened interval for each monitoring well zone. A summary of well construction information for all monitoring wells is provided in Appendix B. Figure 2 provides a cross-sectional view of representative monitoring wells from each of the five monitoring well designations. The location of all monitoring wells is provided in Figure 3.

TABLE 2. GROUNDWATER MONITORING WELLS

Monitoring Well Designation	Typical Screened Interval (ft bgs)
B-Zone	15-25
A-Zone	45-50
C-Zone	60-70
D-Zone	90-95
E-Zone	127-132

2.1.2 Groundwater Sampling: The approved groundwater monitoring program specifies quarterly groundwater sampling and analysis from selected monitoring wells, and annual sampling and analysis from each of the monitoring wells. In the closure plan approval letter dated November 30, 1992, the IEPA required that twenty-six (26) of the monitoring wells be sampled on a quarterly basis and analyzed for groundwater contaminants using



LEGEND

SCREENED INTERVAL

CAD FILE: 6330SECT

REVISED: 04/14/92

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FIGURE 2
CROSS SECTIONAL VIEW OF SELECTED MONITORING WELLS

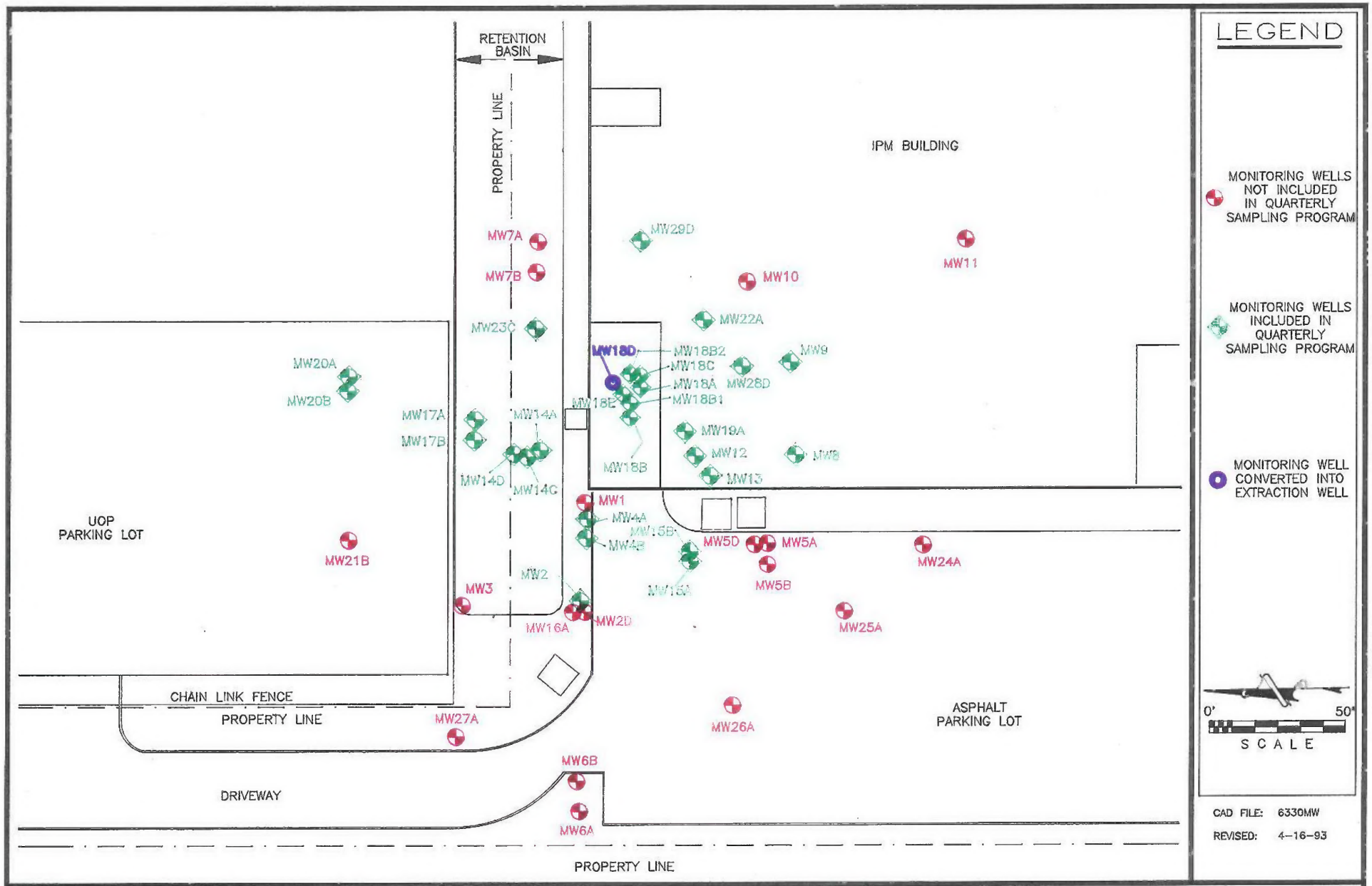

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FIGURE 3
MONITORING WELL LOCATIONS

EPA SW-846 Methods 8010. The monitoring wells included in the quarterly groundwater sampling program are listed in Table 3.

TABLE 3. QUARTERLY GROUNDWATER SAMPLING PROGRAM

WATER-BEARING ZONE				
Upper		Lower		D-Zone
MW-2 MW-4B MW-8 MW-9 MW-12 MW-13	MW-15B MW-17B MW-18B MW-18B1 MW-18B2 MW-20B	MW-4A MW-14A MW-15A MW-17A MW-18A MW-19A	MW-20A MW-22A MW-14C MW-18C MW-23C	MW-14D MW-28D MW-29D

Groundwater samples from monitoring wells included in the quarterly groundwater sampling program were collected by DAI on January 21 and 22, 1993. The monitoring wells were purged prior to sampling. The B-Zone monitoring wells were purged using disposable PVC bailers while all other monitoring wells were purged using an electric submersible purge pump. The purge pump was decontaminated prior to introduction into each well by scrubbing and rinsing using an Alconox and water solution, followed by a triple rinse with tap water. Groundwater samples were collected from all of the monitoring wells using dedicated disposal PVC bailers. Samples were collected in duplicate from each well in 40-ml VOC vials, and immediately stored on ice for subsequent transport to Great Lakes Analytical Laboratory of Buffalo Grove, Illinois, following standard chain-of-custody procedures. Submitted groundwater samples were analyzed for Halogenated Volatile Organic Compounds using EPA SW-846 Method 8010. The IEPA Chemical Analysis Forms summarizing the results of the most recent groundwater sample analyses are provided in Appendix C and copies of the laboratory reports are included in Appendix D. Tables summarizing the results of all groundwater sampling and analysis by SW-846 Method 8010, including the results of the January 1993 sampling event, are provided in Appendix E.

Static water level measurements were taken from each of the monitoring wells (prior to well purging) on January 18, 1993, with the exception of MW-18D, which is being used as a groundwater extraction well, and MW-18E, which was not installed until February 1993. Static water level measurements were made using an electronic water level indicator. The static water level elevations were calculated from the depth to static water measurements and the surveyed well casing elevations. A table summarizing the static water level measurements and calculated elevations is provided in Appendix F.

2.1.3 Bedrock Monitoring Well: Bedrock monitoring well MW-18E was installed between February 1, 1993 and February 10, 1993, by Environmental Drilling and Contracting of Holland, Michigan, under the supervision of DAI.

Soil Boring Procedures: The MW-18E borehole was drilled using a Gus Pech GP-750 Mit-E-Mite low clearance drill rig. A low clearance drill rig was required because of the height restriction imposed by the ceiling of the chemical storage area. 8 ¼-inch ID hollow-stem augers were used to drill a 12-inch diameter borehole to a depth of 52-ft, the depth of the initial surface casing. The remainder of the borehole was drilled using mud-rotary drilling techniques. A 7 ⅞-inch diameter tri-cone bit was used to drill through the grout plug at the base of the casing after the grout had cured for approximately 24-hours. The 7 ⅞-inch bit was used to advance the borehole to a depth of 117-ft bgs, approximately 10-ft below the bedrock-overburden interface and the depth of the second surface casing. A 4 ⅞-inch diameter tri-cone bit was used to complete the borehole from 117-ft to 132-ft bgs.

Soil Sampling Procedures: In compliance with the IEPA requirements provided in the November 30, 1992 closure plan approval letter, soil samples were continuously collected from a depth of 99-ft bgs to the terminus of the MW-18E boring. A 2-ft long by 1½-inch diameter split-spoon was used to collect soil samples in the overburden from a depth of 99-ft bgs to the top of the bedrock (identified at a depth of approximately 107-ft bgs). NX-coring techniques were used to collect continuous samples of the bedrock from a depth

of 107-ft to the terminus of the borehole at 132-ft bgs. A 5-ft long core barrel with an impregnated diamond tipped bit was used to obtain the core samples. The MW-18E soil boring log is provided in Appendix A.

Monitoring Well Installation Procedures: Groundwater monitoring well MW-18E was installed with two surface casings to prevent cross-contamination of the bedrock aquifer. An 8-inch schedule 40 PVC surface casing was installed to a depth of 52-ft and a 5-inch schedule 40 PVC surface casing was set at a depth of 117-ft bgs. The annular space of each casing was grouted using a mixture of cement and bentonite. Each segment of the borehole was advanced by drilling through the grout plug at the base of the casing after the grout had cured for at least 24-hours.

The monitoring well was constructed of 316 gauge stainless steel as riser with 5-ft of 0.01-inch continuously slotted wire wound screen set a depth of 127-ft to 132-ft bgs. The filter pack consisted of an artificially introduced sand that extended to 3-ft above the top and 1-ft below the bottom of the screened interval. A 2-ft layer of bentonite slurry was used to seal the well and the remainder of the annular space was grouted with a cement and bentonite mixture. A well vault was installed flush with grade to protect the well and a lock was installed for security. A well construction log for monitoring well MW-18E is provided in Appendix A.

Well Development: The MW-18E borehole was developed by groundwater extraction of the open borehole using a 4-inch diameter electric submersible pump. Approximately 1,000-gallons of groundwater were extracted from the borehole during borehole development. The borehole was found to sustain a continuous groundwater recovery rate in excess of 20-gpm (the flow rating of the development pump).

On February 19, 1992, groundwater samples were collected from MW-18E for subsequent analysis of chlorinated VOCs by EPA SW-846 Method 8010. Prior to well purging and sampling, the static water level in MW-18E was measured using an electronic water level

indicator. The static water level in MW-18E was measured to be 52.41-ft bgs, which is approximately the same static water levels typically observed in D-Zone monitoring wells.

A 2-inch diameter electric submersible purge and sampling pump was used to develop and sample MW-18E. Prior to introducing the pump into the well, the sample pump and tubing were decontaminated. The outside of the pump and tubing were decontaminated by scrubbing with an Alconox and water solution, rinsing with flowing tap water, and then further rinsing by successive submergence into two separate tap water rinse tanks. The inside of the sample tubing and pump were decontaminated by pumping 55-gallons of an Alconox and water solution through the pump and tubing, followed by pumping 110-gallons of fresh tap water through the pump and tubing.

After introduction to the well, groundwater was purged from the well using the purge pump to develop the well and filter pack prior to sampling. The purge pump was placed at a depth of approximately 65-ft bgs. At the maximum flowrate of the purge pump (approximately 3-gpm), the static water level in the monitoring well was approximately 60-ft bgs. During purging of the monitoring well, the pH, temperature, and specific conductance of the purged groundwater were measured to insure that these parameters stabilized prior to sampling. After purging approximately 200-gallons of groundwater, a sample from the discharge of the sampling pump was collected in duplicate 40-ml VOC vials. Immediately following the collection of the pump sample, two sets of groundwater samples (in duplicate 40-ml VOC vials) were collected from the monitoring well using two separate disposable PVC bailers. Finally, a distilled water bailer blank was collected from a third disposable bailer. All samples were immediately stored on ice, and subsequently transported to Great Lakes Analytical, Inc., of Buffalo Grove, Illinois for subsequent analysis of chlorinated VOCs via EPA SW-846 Method 8010. The analytical laboratory results of the February 19, 1993 sampling and analysis of monitoring well MW-18E are summarized below in Table 4, and copies of the analytical laboratory reports are provided in Appendix D.

TABLE 4
MW-18E SAMPLING RESULTS (Feb. 19, 1993)

Sample	Contaminant Concentrations ($\mu g/L$)						
	PCE	TCE	cis-1,2-DCE	1,1,1-TCA	Chloroform	1,2-DCB	CB
Pump Sample	33	14	2.7	1.1	1.7	2.8	1.6
Bailer Sample 1	28	4.9	<2.5	<2.5	<2.5	2.6	<2.5
Bailer Sample 2	24	12	<2.5	<2.5	<2.5	<2.5	<2.5
Bailer Blank	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Where:
PCE = Tetrachloroethylene
TCE = Trichloroethylene
DCE = Dichloroethylene
TCA = Trichloroethane
DCB = Dichlorobenzene
CB = Chlorobenzene

The results of the February 19, 1993 sampling and analysis of MW-18E indicated the presence in MW-18E of PCE and TCE at concentrations in excess of the groundwater cleanup objective levels for these compounds. In addition, cis-1,2-DCE, 1,1,1-TCA, chloroform, 1,2-dichlorobenzene, and chlorobenzene were observed in the pump sample at concentrations slightly above the method detection limits, but were not observed in the bailer samples above the method detection limits for these contaminants. However, the detection limits for these contaminants were greater for the bailer sample results than in the pump sample results, and therefore, the presence of these contaminants in the bailer samples cannot be ruled out. Because the observed TCE and PCE concentrations in the pump sample and bailer samples were in general agreement, it is not believed that the pump introduced any PCE or TCE contamination into the well.

To confirm the results of the initial sampling and analysis from MW-18E, a second round of purging and sampling of MW-18E was conducted on March 2 and 3, 1993. Prior to

re-sampling, the sampling pump and tubing were decontaminated using the same procedures used during the first sampling event of MW-18E, with the exception that 20-liters of hexane were pumped through the pump and tubing after the Alconox and water decontamination step, and prior to the tap water decontamination step. In addition, five gallons of distilled water were pumped through the sampling pump and tubing, and a distilled water pump blank was collected from the effluent of the sampling pump, prior to introduction to the well.

Upon completion of pump decontamination, preliminary purging of MW-18E began on March 2, 1993, with approximately 25-gallons of groundwater extracted from the well. During this second round of purging and sampling of MW-18E, the purge pump was placed at a depth of approximately 90-ft bgs. A purge rate of approximately 1.5-gpm was found to exceed the sustainable yield of the well. [Purging at 1.5-gpm quickly reduced the water level in the well to below the level of the pump]. The reduced yield of the well was interpreted to be caused by clogging of the filter pack by drilling fluids and cuttings which had been introduced into the bedrock formation by drilling activities, and which were recovered from the formation by the purging process.

In an effort to dislodge the materials from the well filter pack that appeared to be reducing the yield of the well, tap water was introduced into the well to raise the water level in the well, and thereby increase the hydrostatic head at the depth of the well screen. It was hypothesized that the increased groundwater recovery rate afforded by the introduction of the tap water would serve to provide the necessary purge rate and turbulence to dislodge the suspected materials present in the well filter pack. During introduction of tap water to the well, the purge pump was operated continuously at approximately 3-gpm to minimize introduction of tap water to the formation. Also, an electronic water level indicator was attached to the purge pump to allow monitoring of water levels in the well during purging.

Five successive applications of tap water were introduced to the well. The total volume of tap water introduced to the well was approximately 50-gallons, during which approximately

900-gallons of water were extracted from the well. It was observed after the first flushing of the well casing that the well yield had increased to the point that a recovery rate of 3-gpm was sustained with a water level in the well observed at approximately 83-ft bgs. Two hours after the fifth application of tap water into the well, a purge rate of 3-gpm resulted in a relatively constant water level of approximately 81-ft bgs. It was apparent that the purging and flushing had increased the yield of the monitoring well to that observed during the February 19, 1993, purging and sampling of the monitoring well.

Two hours after the fifth application of tap water into the monitoring well (during which time well purging was continued), a groundwater sample was collected in duplicate 40-ml VOC vials (sample MW-18E-4P) from the effluent of sampling pump, and thirty minutes later, a second pump sample was collected (MW-18E-5P). Following collection of the second pump sample, the purge pump was removed from the well, and a groundwater sample (MW-18E-6B) was collected from the monitoring well using a disposable PVC bailer.

All samples were immediately stored on ice pending transport and submittal to Great Lakes Analytical Laboratory of Buffalo Grove, Illinois, for subsequent analysis of chlorinated VOCs via EPA-SW-846 method 8010. The results of the laboratory analysis of samples collected during the second round of sampling from monitoring well MW-18E are provided below in Table 5. Copies of the analytical laboratory reports are provided in Appendix D.

TABLE 5
MW-18E SAMPLING RESULTS (March 2, 1993)

Sample	Contaminant Concentrations (μg/L)						
	PCE	TCE	cis-1,2-DCE	1,1,1-TCA	Chloroform	1,2-DCB	CB
4P	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
5P	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
6B[1]	**2.8**	**10**	<0.5	<0.5	<0.5	<0.5	<0.5
Pump[2] Blank	<0.5	<0.5	<0.5	<0.5	**0.83**	<0.5	**2.2**

[1]bromodichloromethane = 4.5-μg/L, dibromochloromethane = 2,1-μg/L, chloroform = 5.8-μg/L
[2]bromodichloromethane = 0.66-μg/l

The presence of TCE and PCE in the bailer sample but not in pump samples collected during the second round of sampling from MW-18E was unexpected. One possible explanation for these results is that the sampling pump induced some volatilization of contaminants prior to sample collection. However, this is not considered likely because the sampling pump was completely submerged below the water table, the sample tubing ran completely full with water, and the flowrate of the sampling pump at the time of sampling was reduced to a very low flowrate (100-ml/min). What is considered to be a more likely explanation for the presence of contaminants in the bailer sample, but not in the pump sample, is that a column of stagnant water existed above depth at which the sampling pump was set during purging activities. This column of stagnant water possibly retained some residual contamination introduced from well installation. Because the purge pump was placed at a significant depth below the water level elevation in the well, and because the water recovered from the pump was likely recovered from the formation and not from the well casing above the pump, this stagnant water was not purged from the well. The presence of chloroform, dibromochloromethane, and bromodichloromethane in the bailer sample can be attributed to the tap water introduced into the well casing.

A third round of sampling and analysis of groundwater from monitoring well MW-18E was conducted on March 15-16, 1993. The goal of the third round of sampling was to remove the hypothesized column of stagnant water from the well, flush the casing again with tap water to remove any residual contamination adhering to the well casing above the well screen, and then collect pump and bailer samples which were certain to be representative of the bedrock unit. In this round of sampling, well purging was again conducted using a 2-inch diameter electric submersible purge/sampling pump. No decontamination of the pump was necessary in this case because the purge pump used was purchased new just prior to use in monitoring well MW-18E, had never been used previously, and was certified decontaminated from the manufacturer.

Purging of MW-18E began on March 15, 1993. An electronic water level indicator was attached to the top of the purge pump, the purge pump was placed just below the indicated water level in the well, and the purge pump was engaged. Prior to purging, the static water level in the well was observed to be approximately 53-ft bgs. To remove any stagnant water in the well casing, the pump was lowered slowly with the decreasing column of stagnant water. After purging at a flowrate of 4-gpm for 60-minutes, the static water level in the well had decreased to approximately 74-ft bgs. After this, five successive applications of tap water (approximately 10-gallons of water each application) were introduced into the well casing while continuing to operate the purge pump at 4-gpm. After each application, the pump was raised to the water level elevation in the well and then lowed with the decreasing water level to remove the upper section of the water column in the well. Once the water level reached approximately 74-ft bgs, the next application of tap water was introduced to the well. The purpose of adding tap water to the well casing was to remove any residual contaminants adhering to the inside of the well casing. Upon reducing the water elevation in the well to approximately 74-ft bgs after the fifth application of tap water to the well, the purge flowrate was reduced to 2.5-gpm, and the pump was left to purge overnight (16-hrs). (In this and all other purging of MW-18E, purged groundwater was pumped to the groundwater treatment system for immediate treatment and discharge).

On March 16, 1993, three pump samples, two bailer samples, and a bailer blank were sequentially collected from monitoring well MW-18E. The pump samples were collected at 30-minute intervals, while the bailer samples were collected in immediate succession using individual disposable PVC bailers. A third disposable PVC bailer and distilled water were used to generate a distilled water bailer blank. All samples were collected in duplicate 40-ml VOC vials, immediately stored on ice, and subsequently delivered to Great Lakes Analytical Laboratory of Buffalo Grove, Illinois, for analysis of chlorinated VOCs via EPA SW-846 Method 8010. The results of the analysis of groundwater samples collected during the third sampling event of MW-18E are summarized in Table 6. Copies of the analytical laboratory reports are provided in Appendix D.

TABLE 6
MW-18E SAMPLING RESULTS (March 16, 1993)

Sample	Contaminant Concentrations (μg/L)						
	PCE	TCE	cis-1,2-DCE	1,1,1-TCA	Chloroform	1,2-DCB	CB
MW18PS1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW18PS2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW18PS3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW18BS1	<0.5	**0.76**	<0.5	**0.70**	**0.93**	<0.5	<0.5
MW18BS2	<0.5	**0.63**	<0.5	<0.5	**0.80**	<0.5	<0.5
Bailer Blank	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

The results of the third sampling event of monitoring well MW-18E again indicated no observable contaminants in the pump samples, and low level contaminant concentrations in the bailer samples. However, the concentrations of all contaminants observed in the bailer samples were below 1-μg/l and below cleanup objective levels for those contaminants. Specifically, chloroform was observed in both bailer samples, but can possibly be attributed to the introduction of tap water to the well casing. 1,1,1 TCA was observed in only one of

the two bailer samples, while TCE was observed in both bailer samples at concentrations below 1-μg/l.

Because of the significant precautions taken in well purging and sample collection during the third sampling event of monitoring well MW-18E, the results of the third sampling event are believed to be the most representative of the groundwater quality in the saturated limestone bedrock in the vicinity of monitoring well MW-18E. Therefore, the conclusion is that the E-Zone groundwater is not contaminated at levels above cleanup objective levels for any of the contaminants of interest, and the vertical delineation of groundwater contamination beneath the former IPM site has been established. To confirm these results, and to monitor the potential vertical migration of contaminants from the D-Zone to the E-Zone groundwater, monitoring well MW-18E will be monitored on a quarterly basis. Because the static water level elevations in the D-Zone and the E-Zone are approximately the same, and because groundwater from MW-18D is being continuously extracted and treated, vertical migration of contaminants from the D-Zone to the E-Zone is expected to be minimal.

2.2 GROUNDWATER REMEDIATION SYSTEM

2.2.1 Groundwater Recovery Wells: To remediate the contaminated groundwater, ASI designed a multiple well groundwater recovery and treatment system. The system consisted of twenty-one recovery wells and was designed to recover contaminated groundwater to a depth of approximately 75-ft bgs. None of the recovery wells were screened in the D-Zone. Analysis of the groundwater sample collected from MW-18D on February 20, 1992, indicated contamination above the cleanup objective levels in the D-Zone groundwater at this location. Therefore, on March 19, 1992, DAI proposed to IEPA that monitoring well MW-18D be converted to a recovery well. On March 23, 1992, Eric Minder and Geordie Smith of the IEPA gave verbal approval for groundwater extraction from MW-18D. Extraction from MW-18D began on April 22, 1992. The location of the twenty-two (22) groundwater recovery wells are given in Figure 4. A table summarizing the groundwater recovery well construction details is provided in Appendix G.

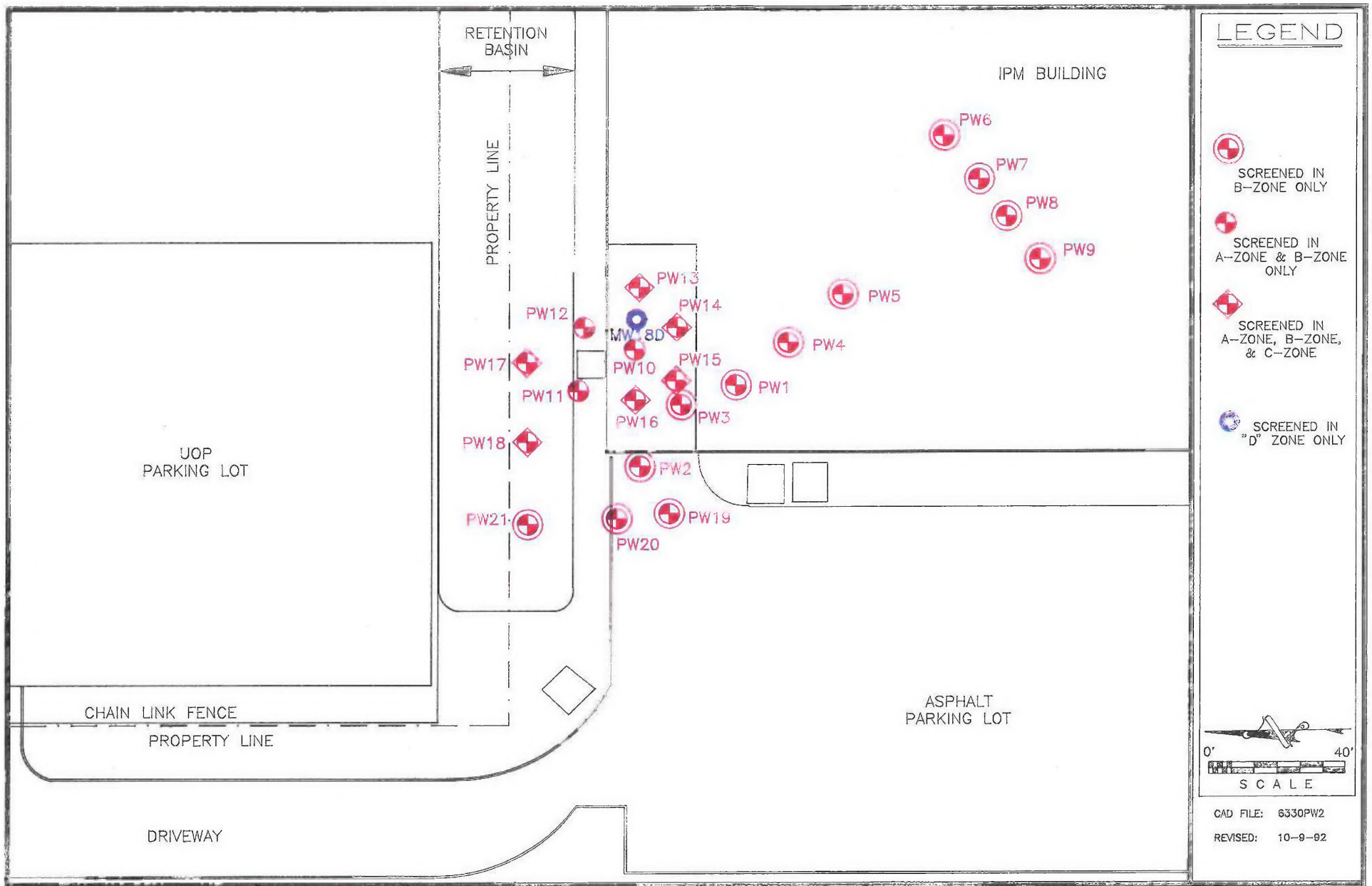

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FIGURE 4
GROUNDWATER RECOVERY WELLS

2.2.2 Groundwater Recovery and Treatment System Design: Groundwater is extracted from the 4-inch diameter recovery wells PW-1 through PW-21 using electrical submersible pumps. A teflon and stainless steel air pneumatic driven bladder pump is used to extract groundwater from MW-18D because the 2-inch diameter well casing is not large enough to house a standard electrical submersible pump. The pumps are operated intermittently, because the groundwater recovery yields from the recovery wells are not adequate to allow continuous operation of the extraction pumps. The electric submersible pumps are controlled using individual load sensors coupled with timers. The load sensor interrupts the pump's power once the extraction well is purged. The pumps are then re-started by a timer located within the pump controller. The air pneumatic pump is controlled by a timer which regulates the period between fill and purge cycles. Run-time meters connected to the electrical pumps record the cumulative operating hours of each electrical submersible pump.

Extracted groundwater from the twenty-two recovery wells is combined through a manifold to an equalization tank from which it is pumped through granular activated carbon adsorption units for treatment. The activated carbon adsorption system consists of two activated carbon canisters operated in series. The treated groundwater is discharged to the City of Des Plaines storm water retention basin located immediately east of the IPM Company site. A National Pollutant Discharge Elimination System (NPDES) permit for the discharge of the treated groundwater was granted by IEPA in August 1990. The conditions of the NPDES permit require continuous discharge flow monitoring, weekly monitoring of discharge pH, and monthly monitoring of halogenated and aromatic volatile organic compounds using EPA SW-846 Methods 8010 and 8020.

2.2.3 Groundwater Recovery and Treatment System Operation: Operation of the groundwater remediation system was initiated in January 1991 and additional recovery wells were activated in February 1991, September 1991 and April 1992. The groundwater recovery system flowrate has ranged from approximately 300-gpd to 3,000-gpd. The groundwater recovery system is currently (March 1993) extracting approximately 2,400-gpd.

Approximately 1,100,000-gallons of groundwater have been extracted and treated as of April 1, 1993. Figure 5 summarizes the cumulative extracted groundwater volume since start-up in January 1991.

To monitor the rate of activated carbon usage and treatment system efficiency, groundwater samples are collected once a month from the following sampling points:

- Influent to the first activated carbon unit (untreated groundwater)
- Between the two activated carbon units
- Effluent of the second activated carbon unit (treated groundwater)

Because the groundwater samples are collected after the equalization tank, these samples are composites of the groundwater recovered from the recovery wells. The TCE concentrations in the untreated groundwater samples have ranged from 75-μg/l (September 3, 1991) to 150,000-μg/l (August 5, 1992). From December 1990 through September 1991, the total chlorinated VOC concentrations in the recovered groundwater were generally observed to be below 1,000-μg/l. Since September 1991, the total chlorinated VOC concentrations in the recovered groundwater have generally been observed to be significantly above 1,000-μg/l. A summary of the analytical results of the monthly groundwater treatment system sampling activities are presented in Appendix H. The treatment system influent flowrate and concentration data were used to estimate the contaminant mass recovered by the groundwater extraction system. The total contaminant mass recovered by the groundwater extraction system through March 4, 1993, is approximately 140-lbs. The contaminant mass recovery data are summarized in Figure 6.

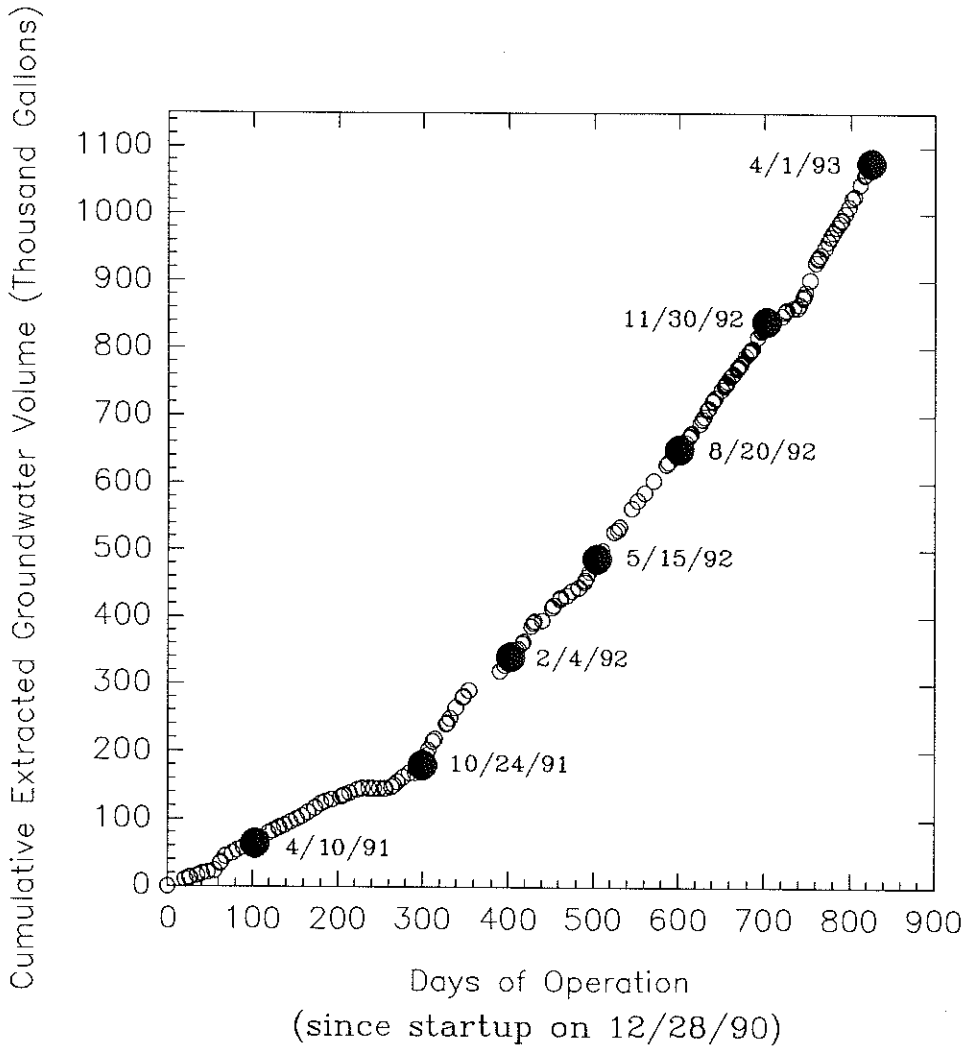

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FIGURE 5
CUMULATIVE EXTRACTED
GROUNDWATER VOLUME

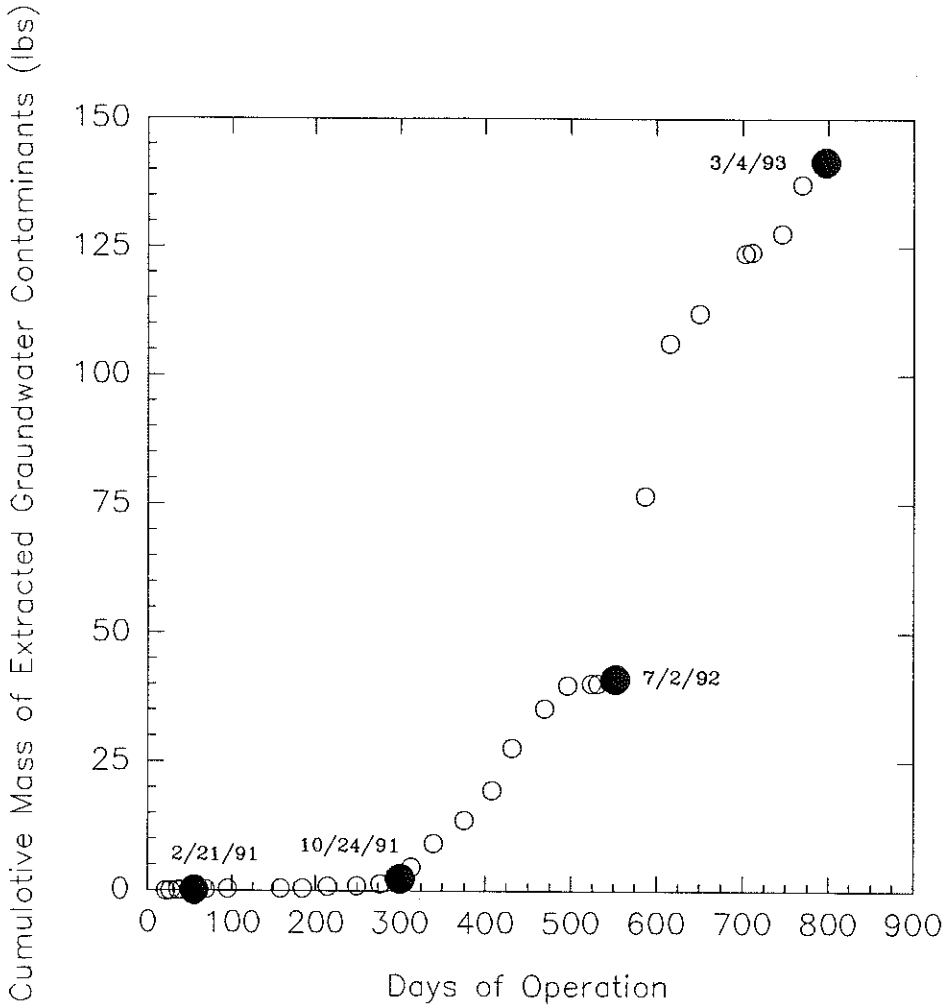

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FIGURE 6
CUMULATIVE MASS OF
EXTRACTED GROUNDWATER
CONTAMINANTS

3.0 ASSESSMENT OF GROUNDWATER REMEDIATION SYSTEM

3.1 OVERVIEW

To assess the effectiveness of the groundwater remediation system, the following information was evaluated:

- Groundwater containment concentrations observed in October 1992 and January 1993 were compared to determine the effect of groundwater recovery;
- Potentiometric surfaces observed in November 1992 and January 1993, were reviewed to assess the effectiveness of groundwater recovery in plume containment.

3.2 GROUNDWATER CONTAMINANT CONCENTRATIONS

The only groundwater contaminants observed at concentrations above the cleanup objective levels identified by IEPA have been chlorinated VOCs. Summary tables of the results of all groundwater analysis for chlorinated VOCs are provided in Appendix E. Although the principal groundwater contaminant is TCE, other chlorinated VOCs, such as tetrachloroethylene (PCE), dichloroethylene (DCE), and vinyl chloride (VC) have been observed. The DCE and VC in the groundwater are likely due to biotransformation of TCE in the subsurface (Vogel and McCarty, 1985). The source of the PCE in the groundwater is unknown, but PCE may have been present as an impurity in the TCE which was used at the site as a solvent. Because PCE and TCE can be biotransformed to other chlorinated hydrocarbons, such as DCE and VC, it is appropriate to quantify the groundwater contamination in terms of total chlorinated volatile organic compound (TCVOC) concentrations (generally taken as the sum of the observed PCE, TCE, DCE, and VC concentrations). The groundwater sampling and analysis results were depicted using isoconcentration contours whenever feasible. To evaluate the effect of groundwater recovery on the extent of groundwater contamination, TCVOC isoconcentration contours developed using the January 1993 groundwater monitoring data were compared to TCVOC isoconcentration contours developed using the October 1992 data.

To determine the groundwater flow direction, the potentiometric surface data from January 1993 and November 1992 were reviewed and interpreted. Also, the January 1993 and November 1992 potentiometric surface data were compared to determine if any significant changes in the groundwater flow direction or groundwater flow velocities had occurred. Both sets of potentiometric surface maps are representative of the hydrogeological conditions during the operation of the groundwater recovery system (pumping).

3.2.1 B-Zone Monitoring Wells: The TCVOC isoconcentration contour based on the B-Zone (screened from approximately 15-ft to 25-ft bgs) groundwater monitoring well data from the January 1993 and October 1992 sampling events are presented in Figure 7 and Figure 8.

Comparison of the January 1993 and October 1992 B-Zone isoconcentration contours indicates the elimination of the 10,000-μg/L contour in January 1993 because the contaminant concentration in monitoring well MW-18B2 had decreased from 20,000-μg/L in October 1992 to 1,100-μg/L in January 1993. The B-Zone monitoring well exhibiting the highest contaminant concentrations on January 1993 was MW-18B1, with a TCVOC concentration of 6,900-μg/L. However, monitoring well MW-1, which was not sampled in either October 1992 nor January 1993, exhibited the highest B-Zone contaminant concentrations in July 1992 with a TCVOC concentration of 52,000-μg/L. Therefore, although the January 1993 monitoring data indicates that the center of the B-Zone contaminant plume is near MW-18B1, it is still likely that the center of plume remains near MW-1.

Decreasing contaminant concentrations in monitoring wells MW-8, MW-9, and MW-12 indicated a reduction in the southern extent of the B-Zone contaminant plume. Also, a significant decrease in TCE concentrations was observed at the northern extent of the B-Zone contamination at monitoring well MW-17B, where the TCE concentration decreased from 530-μg/L in October 1992 to 8.5-μg/L in January 1993. However, TCE was observed

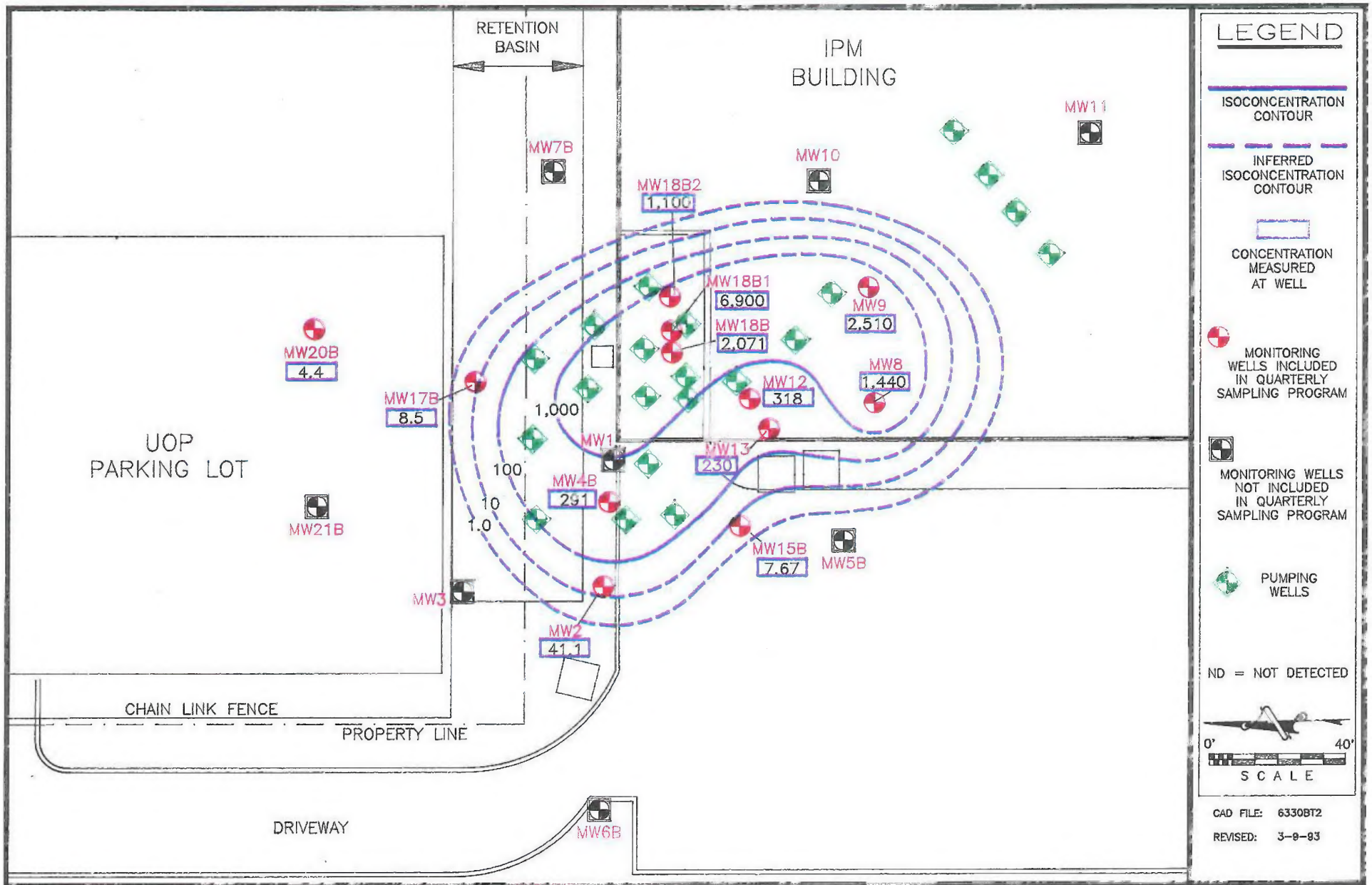

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FIGURE 7
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"B" WELLS – JANUARY 1993

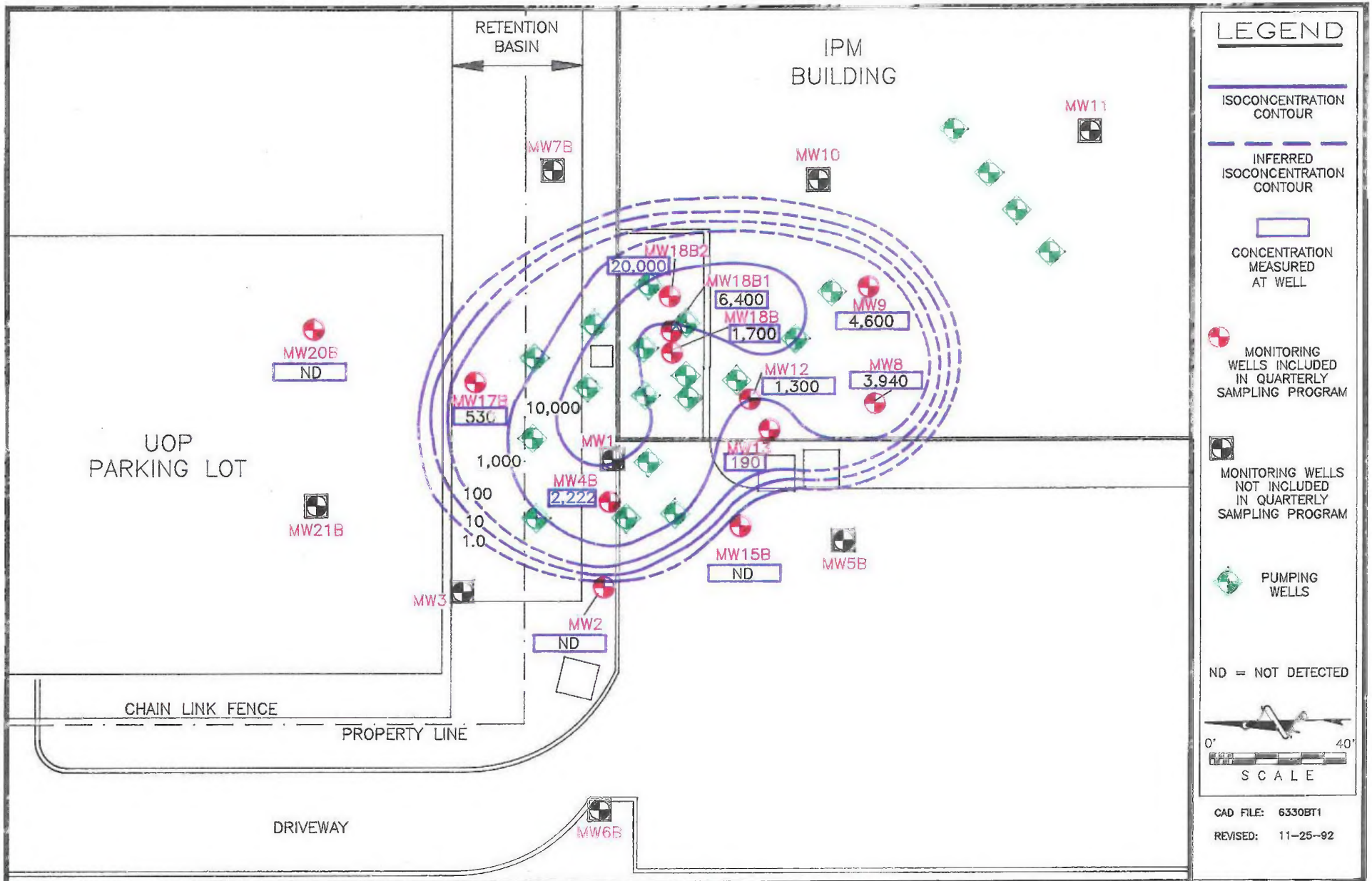

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FIGURE 8
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"B" WELLS – OCTOBER 1992

in monitoring well MW-20B in January 1993 at a concentration of 4.4-μg/L. No contaminants were observed in the seven previous samplings from MW-20B (see Appendix E), and the appearance of contaminants in MW-20B are not consistent with the decreasing contaminant concentrations in MW-17B. Therefore, the January 1993 monitoring results for monitoring well MW-20B are somewhat anomalous, and were not taken into consideration when plotting the B-Zone isoconcentration contours. If future monitoring results confirm the presence of groundwater contamination at MW-20B, subsequent isoconcentration contours will reflect the presence of contamination at MW-20B.

Between October 1992 and January 1993, minor increases of contaminant concentrations in monitoring wells MW-2 and MW-15B were observed, indicating an expansion of the southern edge of the B-Zone plume. However, review of the historical summary of groundwater monitoring data (Appendix E) reveals that while no contaminants were observed in these two monitoring wells in October 1992, contaminants were observed in these monitoring wells in July 1992. Therefore, these monitoring wells appear to define the approximate extent of the southern edge of the B-Zone contaminant plume, with contaminants present at these locations in the B-Zone groundwater at concentrations just above or just below contaminant method detection limits depending upon the time of sampling. The increasing contaminant concentrations in MW-2 and MW-15B do not, therefore, indicate a significant long-term trend of an increase in the southern extent of the B-Zone contaminant plume. In contrast to the increasing contaminant concentrations in monitoring wells MW-2 and MW-15B, contaminant concentrations were observed to decrease in monitoring well MW-4B between October 1992 and January 1993.

The January 1993 and November 1992 potentiometric surface maps for the B-Zone monitoring wells are shown in Figure 9 and Figure 10. In general, both figures indicate a B-Zone groundwater flow direction of southeast. Figure 9 (January 1993) indicates a minimum in the B-Zone potentiometric surface near monitoring well MW-9, which was not indicated in the November 1992 B-Zone potentiometric surface (Figure 10). This difference however is mainly due to an artifact of drawing the potentiometric surface contours at 1-ft

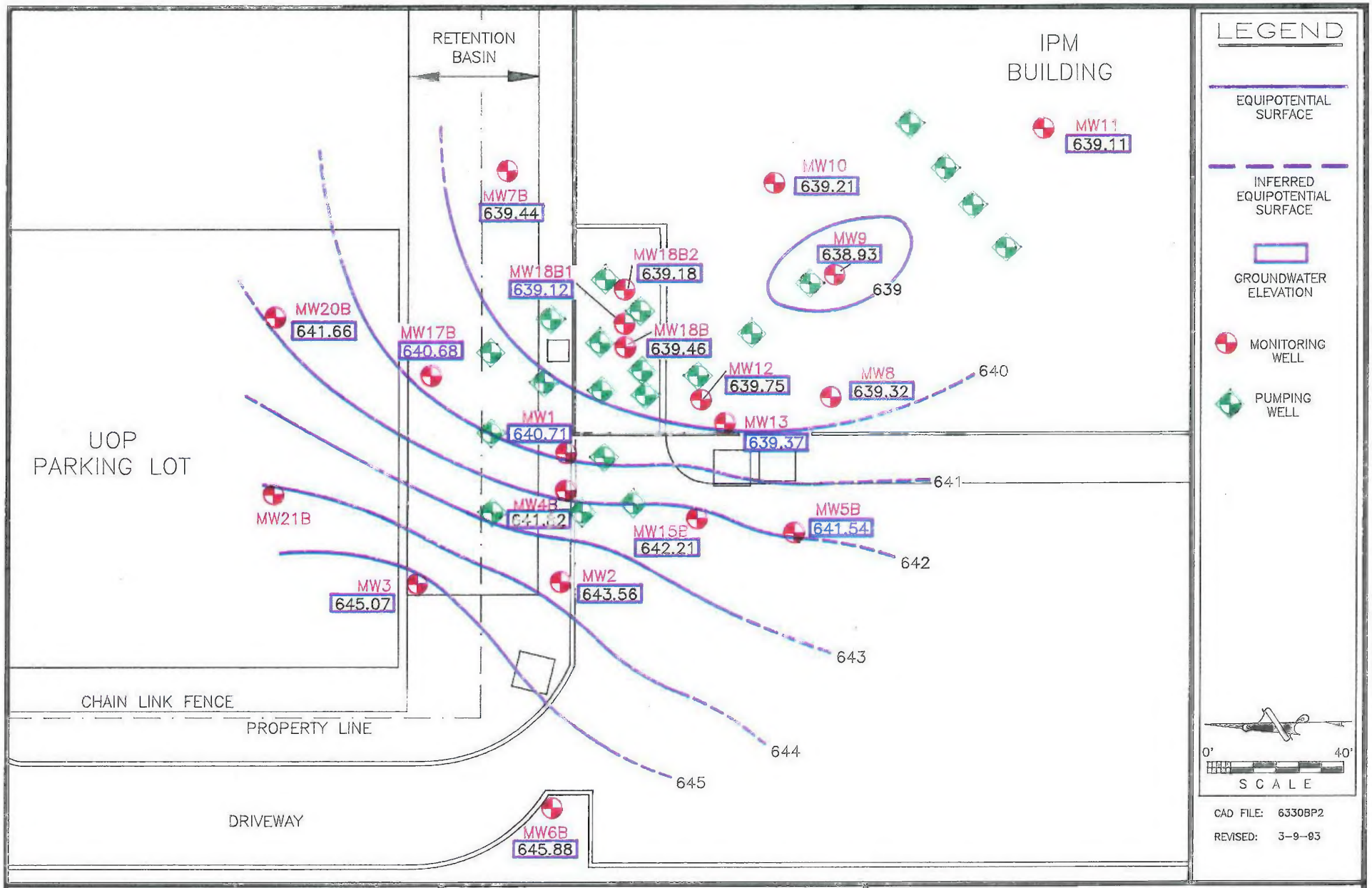

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FIGURE 9
POTENTIOMETRIC SURFACE
"B" WELLS – JANUARY 1993

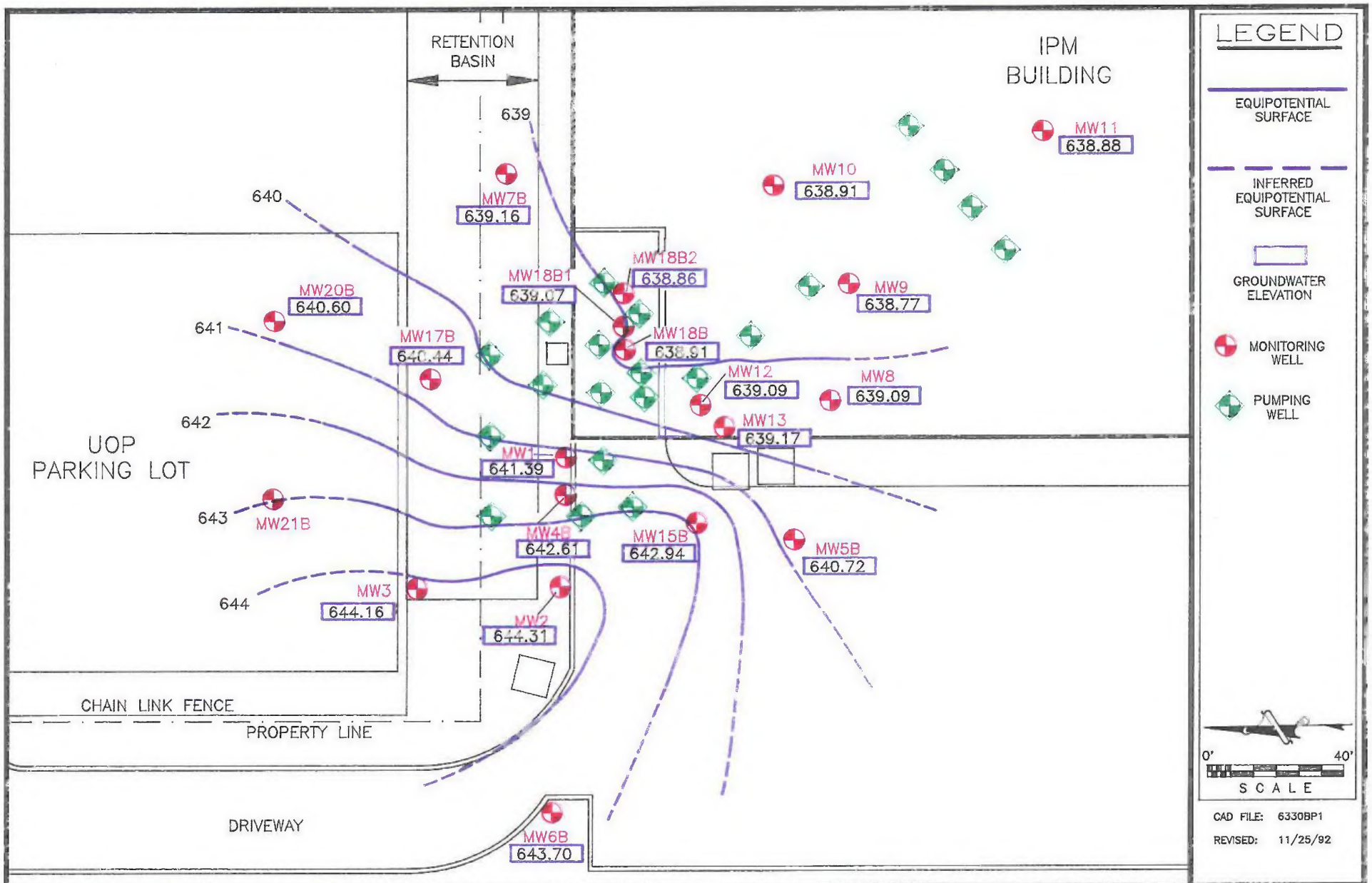

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FIGURE 10
POTENTIOMETRIC SURFACE
"B" WELLS – NOVEMBER 1992

intervals. The potentiometric surface minimum near MW-9 is consistent with its position between two groups of groundwater extraction wells. The relatively low static potentiometric surface elevations exhibited by monitoring wells MW-12, MW-13, MW-18B, MW-18B1, and MW-18B2 in both November 1992 and January 1993 are consistent with their proximity to numerous groundwater extraction wells. The potentiometric surface data indicates the groundwater extraction system is effectively controlling the lateral groundwater flow within the B-Zone contaminant plume.

3.2.2 A-Zone Monitoring Wells: The January 1993 and October 1992 TCVOC isoconcentration contours for the A-Zone (screened from 45-ft to 50-ft bgs) groundwater monitoring well data are presented in Figure 11 and Figure 12.

Comparison of the October 1992 and January 1993 A-Zone isoconcentration contours indicate that the center of the A-Zone contaminant plume remains at monitoring well MW-14A, where TCVOC concentrations were observed to decrease from 32,000-μg/L in October 1992 to 10,000-μg/L in January 1993. Between October 1992 and January 1993, the isoconcentration contours indicate shrinkage of the eastern and southern edges of the A-Zone contaminant plume due to decreasing contaminant concentrations in monitoring wells MW-18A, MW-19A, and MW-22A. An increase in contaminant concentrations in monitoring wells MW-4A and MW-15A between October 1992 and January 1993 indicate an expansion of the western edge of the A-Zone contaminant plume. However, review of the historical groundwater monitoring data (Appendix E) indicate that contaminant concentrations in these monitoring wells have been varying at concentrations above and below contaminant method detection limits over the past two years, and therefore, the increase in contaminant concentrations in these monitoring wells between October 1992 and January 1993 are not believed to represent a significant change in the western extent of the A-Zone contaminant plume.

Increasing TCE concentrations at MW-17A and MW-20A between October 1992 and January 1993 indicate an expansion of the southern edge of the A-Zone contaminant plume.

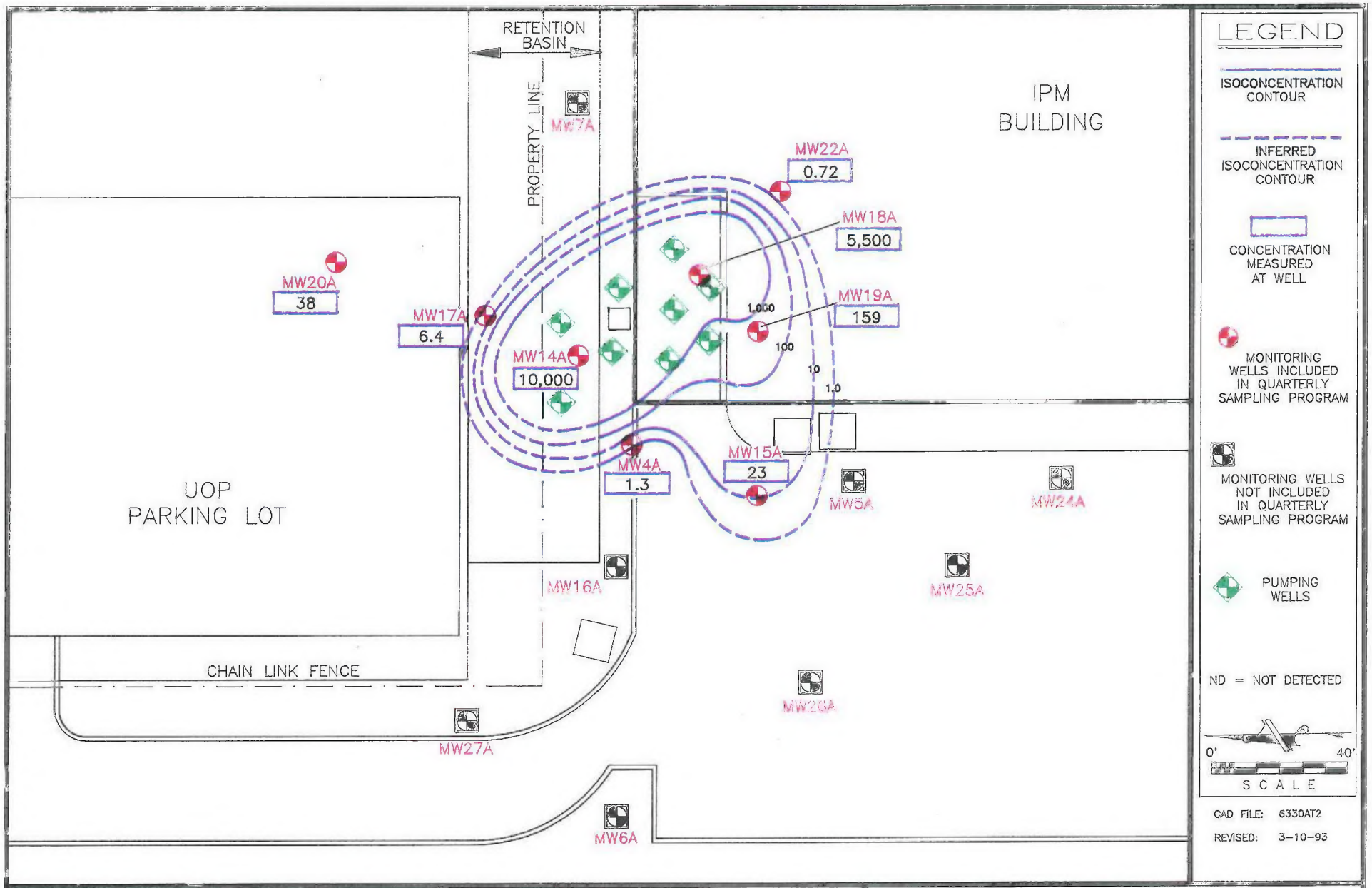

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FIGURE 11
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"A" WELLS – JANUARY 1993

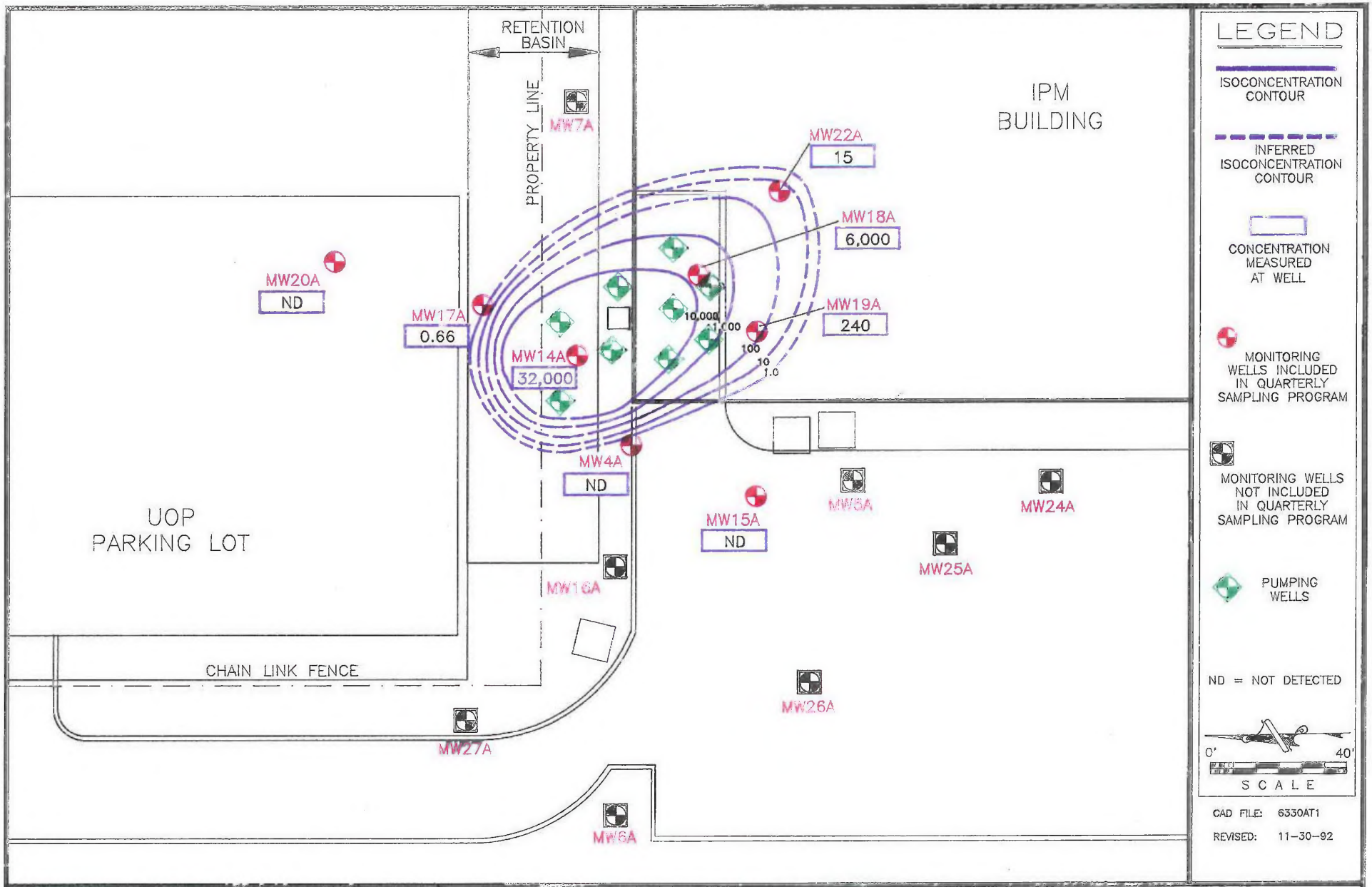

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FIGURE 12
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER (μg/L)
"A" WELLS – OCTOBER 1992

While MW-17A exhibited a minor increase in TCE concentrations (from 0.66-μg/L in October 1992 to 6.4-μg/L in January 1993), monitoring well MW-20A, which has not exhibited contamination since October 1991, was found to contain 38-μg/L of TCE in January 1993. This apparent increase in TCE concentrations at MW-20A is not consistent with migration of A-Zone contamination from the center of the A-Zone plume near MW-14A, because the potentiometric surface plots for the A-Zone groundwater (Figure 13) do not indicate A-Zone groundwater flow towards MW-20A from MW-14A. Therefore, the increase in TCE concentrations at MW-20A are somewhat anomalous, and consequently, were not considered in preparing the January 1993 A-Zone isoconcentration contour map. If future monitoring results confirm the presence of groundwater contamination at MW-20A, subsequent isoconcentration contours will reflect the presence of contamination at MW-20A.

The November 1992 and January 1993 potentiometric surface maps for the A-Zone monitoring wells are provided in Figure 13 and Figure 14. Both figures indicate that groundwater extraction has created a potentiometric surface minima in the A-Zone groundwater near MW-18A, which is consistent with the presence of numerous groundwater extraction wells in the vicinity of MW-18A.

3.2.3 C-Zone Monitoring Wells: Figure 15 and Figure 16 present the TCVOC concentrations observed in C-Zone monitoring wells (screened from 60-ft to 70-ft bgs) in January 1993 and October 1992. Comparison of the figures indicate a decrease in contaminant concentrations at each of the C-Zone monitoring wells. While the center of the C-Zone contamination has remained in the vicinity of MW-18C, where the contaminant concentration decreased only slightly, the concentrations at monitoring wells MW-14C and MW-23C decreased significantly between October 1992 and January 1993.

The potentiometric surface maps for the C-Zone monitoring wells in November 1992 and January 1993 are depicted in Figure 17 and Figure 18. Comparison of the two potentiometric surface maps indicates that the groundwater flow direction has shifted from a northeast direction in November 1992 to a southeast direction in January 1993. This

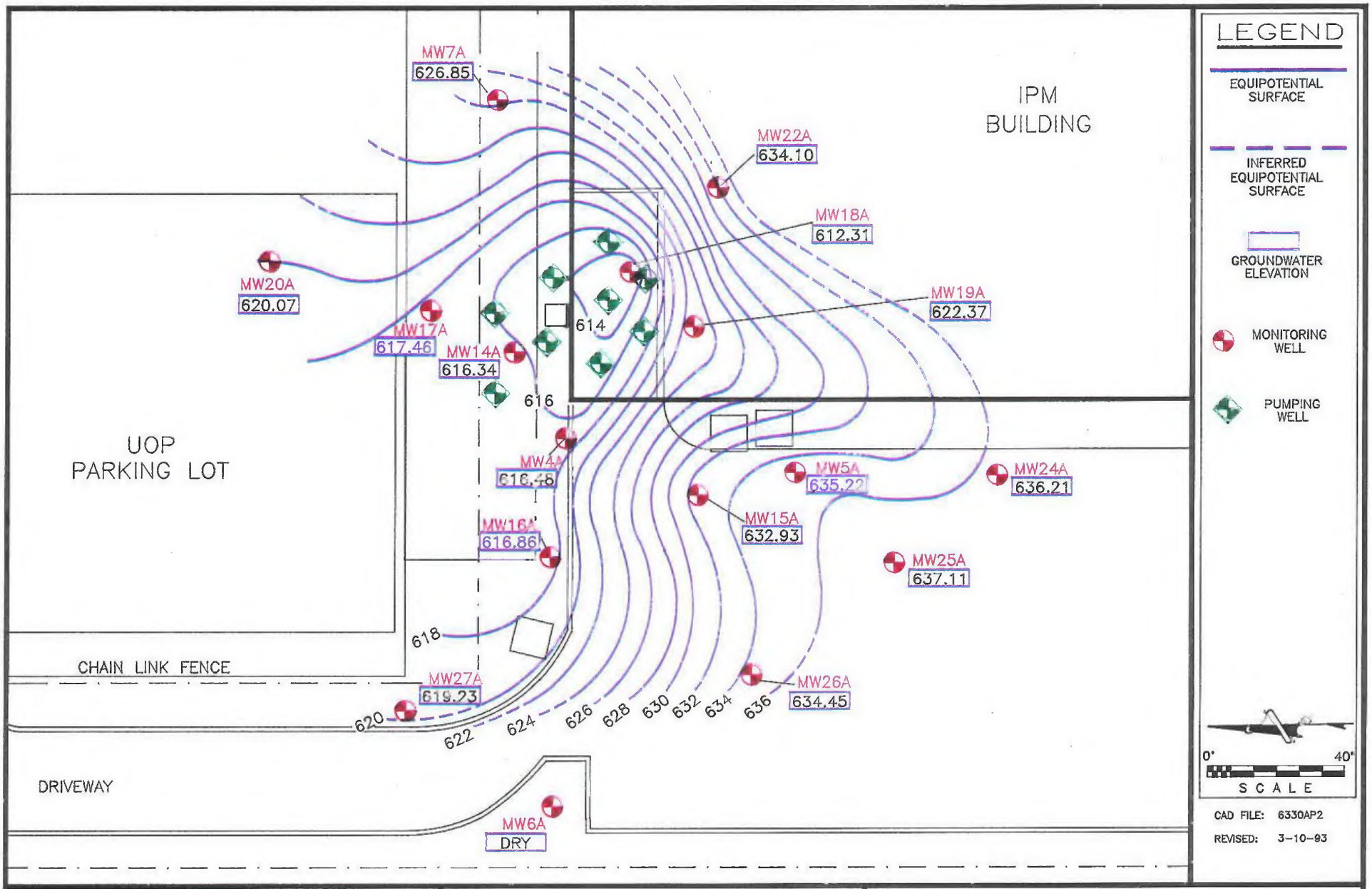

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FIGURE 13
POTENTIOMETRIC SURFACE
"A" WELLS – JANUARY 1993

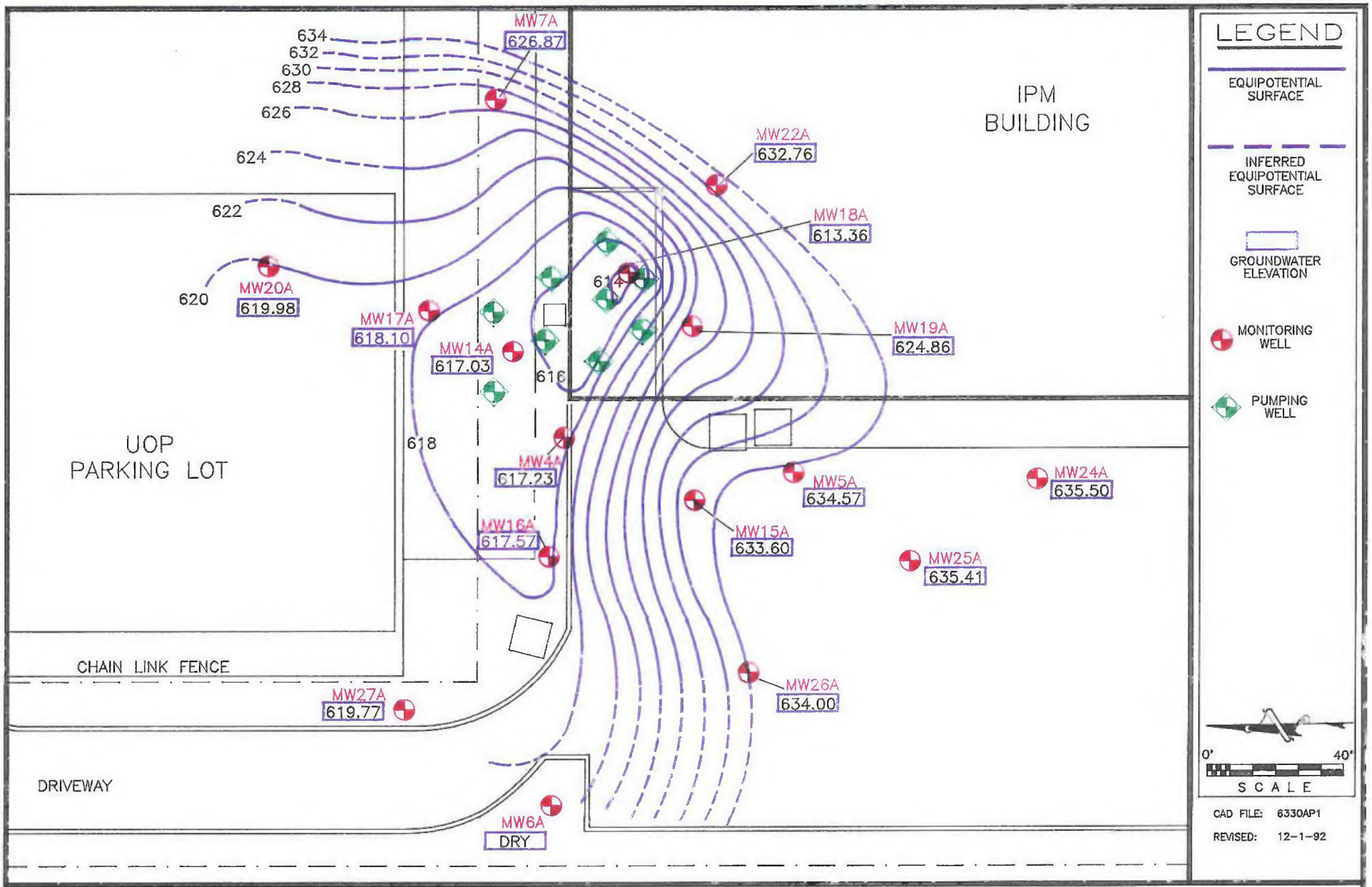

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FIGURE 14
POTENTIOMETRIC SURFACE
"A" WELLS – NOVEMBER 1992

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FIGURE 15
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" WELLS – JANUARY 1993

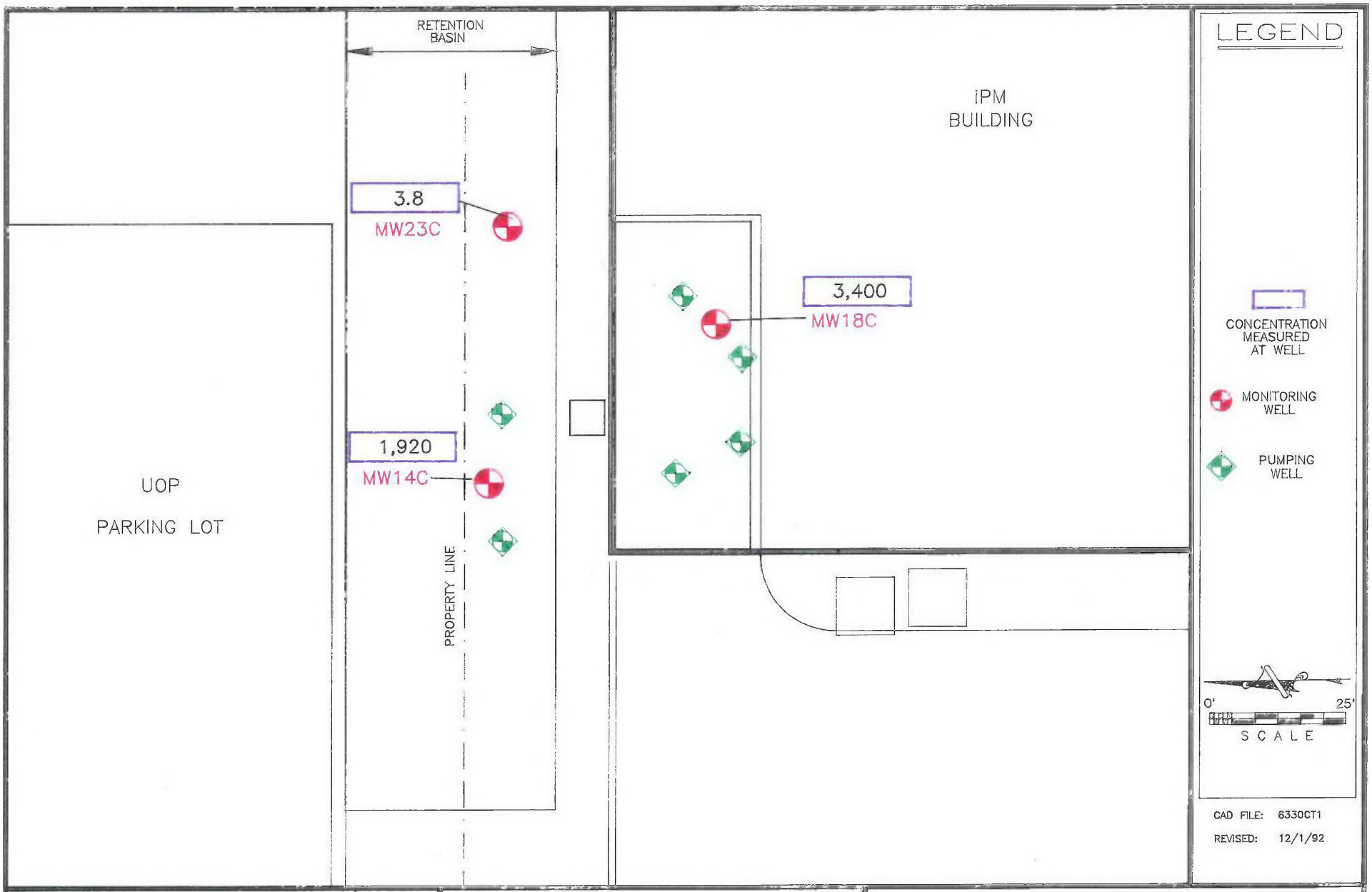

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FIGURE 16
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" WELLS – OCTOBER 1992

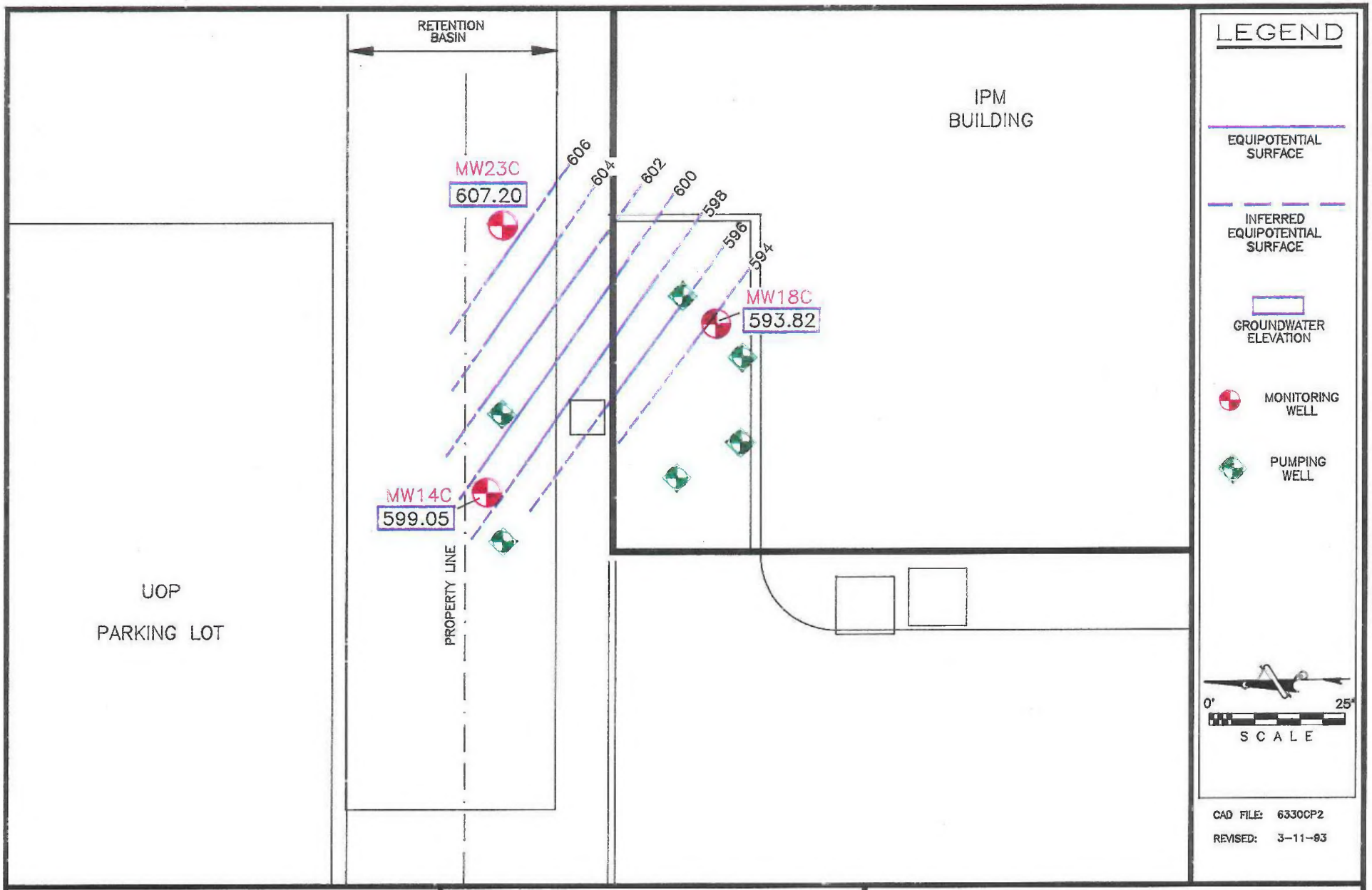

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FIGURE 17
POTENTIOMETRIC SURFACE
"C" WELLS - JANUARY 1993

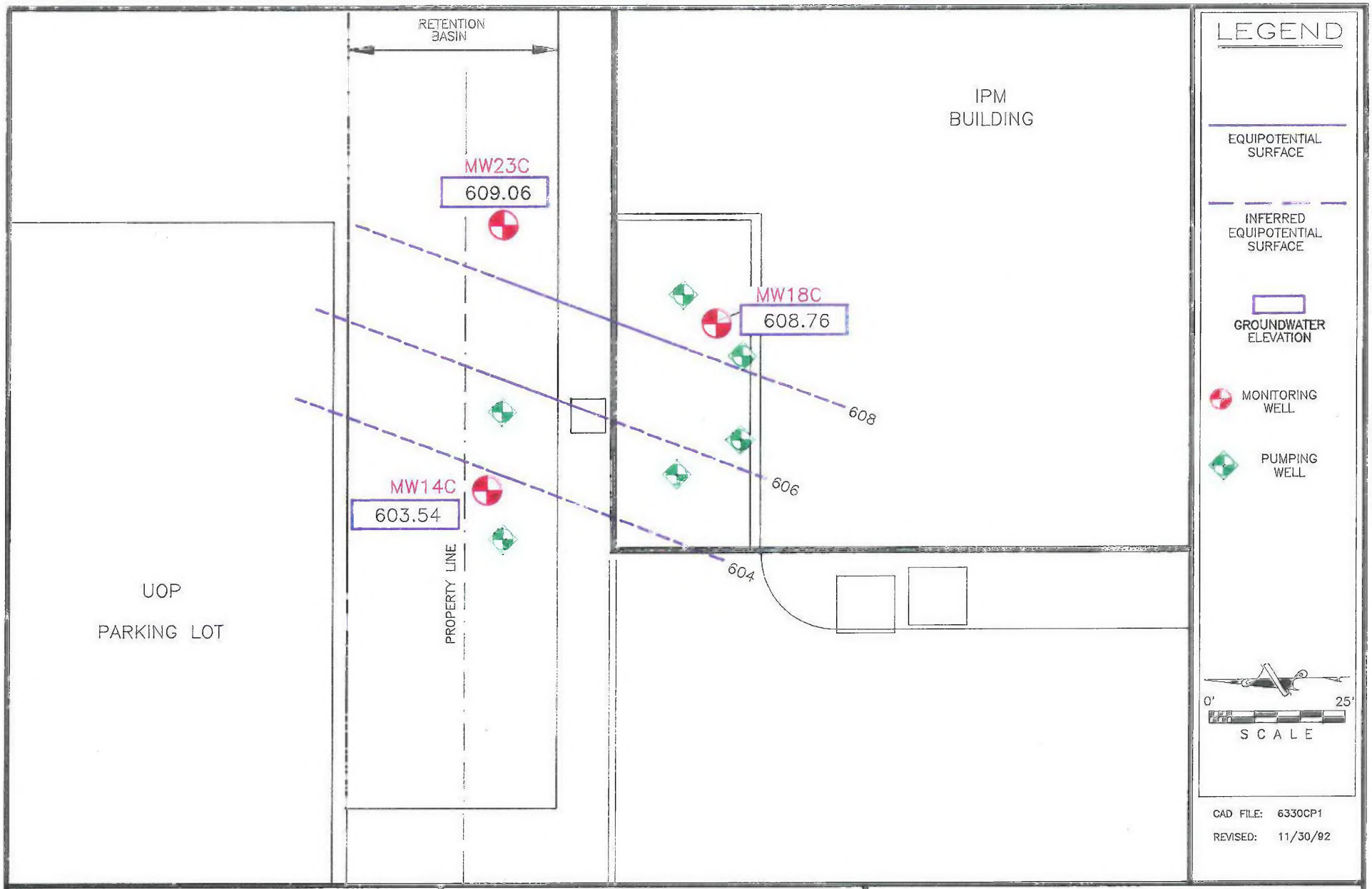

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FIGURE 18
POTENTIOMETRIC SURFACE
"C" WELLS – NOVEMBER 1992

apparent change in the C-Zone groundwater flow direction is not necessarily significant because the C-Zone groundwater flow direction is surmised based upon water level elevations in only three monitoring wells. Furthermore, the proximity of MW-14C and MW-18C with groundwater extraction wells tends to produce variable water level measurements at these wells, contributing to apparent changes in C-Zone groundwater flow direction. For example, inspection of the potentiometric surface maps indicate that between November 1992 and January 1993, the potentiometric surface elevations at monitoring wells MW-23C and MW-14C decreased by 1.86-ft and 4.49-ft respectively, while the groundwater elevation for monitoring well MW-18C decreased by 14.94-ft. Due to the extraction of C-Zone groundwater by the groundwater recovery system, the potentiometric surface elevations at MW-14C and MW-18C were significantly lower than the potentiometric surface elevation at MW-23C, which is located at the periphery of the principle radius of influence of the groundwater extraction wells screened in the C-Zone.

3.2.4 D-Zone Monitoring Wells: The October 1992 and January 1993 TCVOC isoconcentration contours for the D-Zone monitoring wells are presented in Figure 19 and Figure 20.

Comparison of the October 1992 and January 1993 D-Zone isoconcentration contours indicate that monitoring well MW-18D remains the center of the D-Zone groundwater contamination, with the TCE concentration at MW-18D decreasing from 81-μg/L in October 1992 to 54-μg/L in January 1993. However, minor expansion of the eastern, northern, and western edges of the contaminant plume is indicated by increasing contaminant concentrations at monitoring wells MW-29D, MW-14D, and MW-5D. The northern and eastern D-Zone plume expansion was minimal, with very slight contaminant concentration increases at monitoring wells MW-14D and MW-29D. A more significant increase in contaminant concentrations was observed at monitoring well MW-5D. Decreasing contaminant concentrations at monitoring well MW-28D indicated a shrinkage of the eastern extent of D-Zone groundwater contamination.

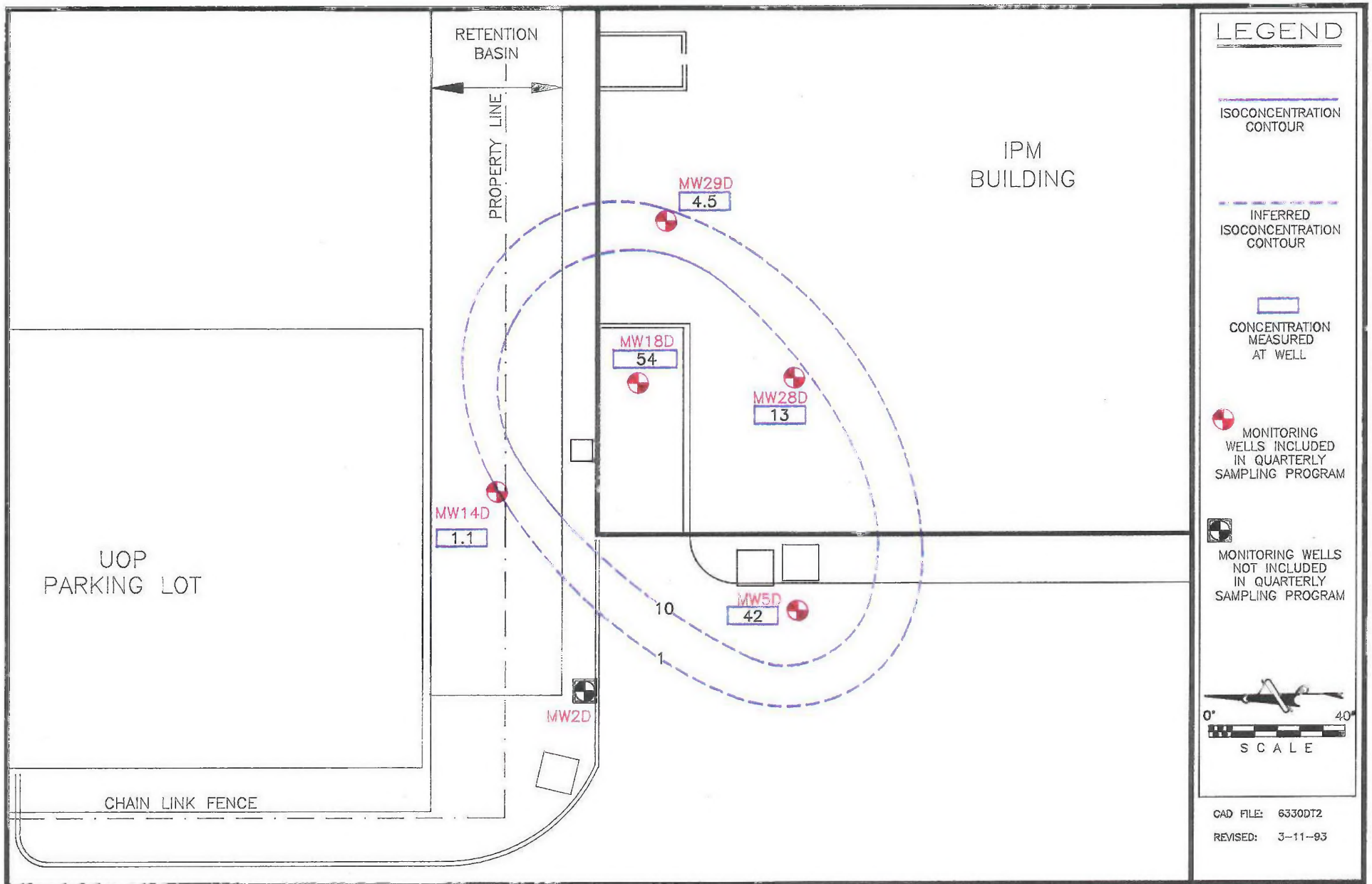

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FIGURE 19
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" WELLS – JANUARY 1993

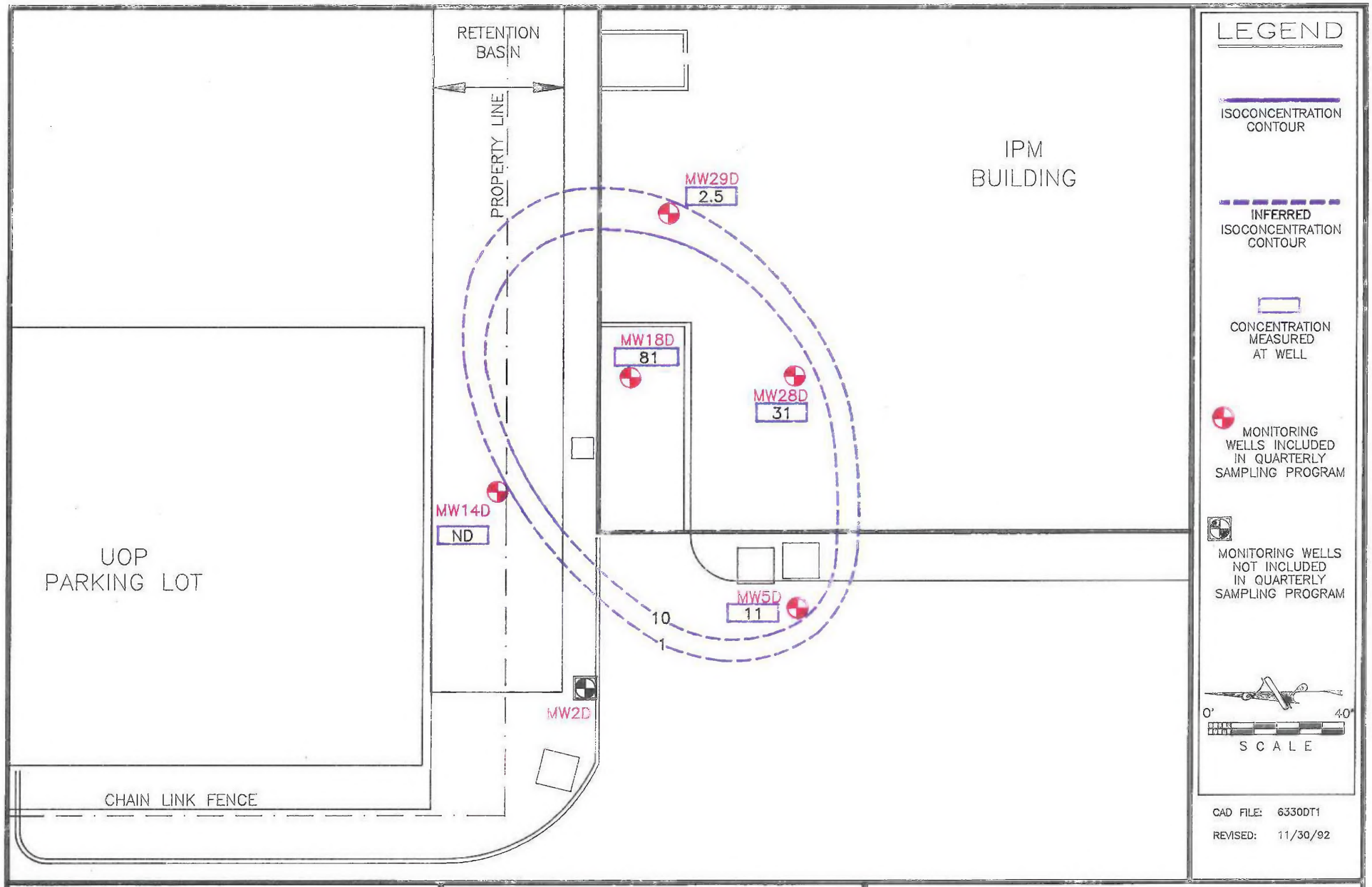

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FIGURE 20
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" WELLS – OCTOBER 1992

The November 1992 and January 1993 potentiometric surface maps for the monitoring wells screened in the D-Zone are provided in Figure 21 and Figure 22. In April 1992, monitoring well MW-18D was converted to an extraction well. Since that time, the true groundwater flow direction for the D-Zone monitoring wells has been difficult to depict accurately because MW-18D is located in the center of an area bounded by the remaining D-Zone monitoring wells, and is the primary influence on the groundwater elevations of the other D-Zone monitoring wells. To present a more accurate interpretation of the D-Zone potentiometric surface, MW-18D has been included in determining the potentiometric contours provided in Figures 21 and 22, with the static water levels in MW-18D assumed to be one foot above the top of the screened interval in MW-18D (approximately 90-ft bgs, or 567.09-ft above mean sea level). This is appropriate as the extraction pump in MW-18D is set at a depth of approximately 95-ft bgs, and is controlled to pump at a rate which meets or exceeds the recovery yield of the well. The resulting potentiometric surface maps indicate D-Zone groundwater flow towards MW-18D from the surrounding D-Zone wells due to a minima in the D-Zone potentiometric surface at MW-18D induced by groundwater extraction.

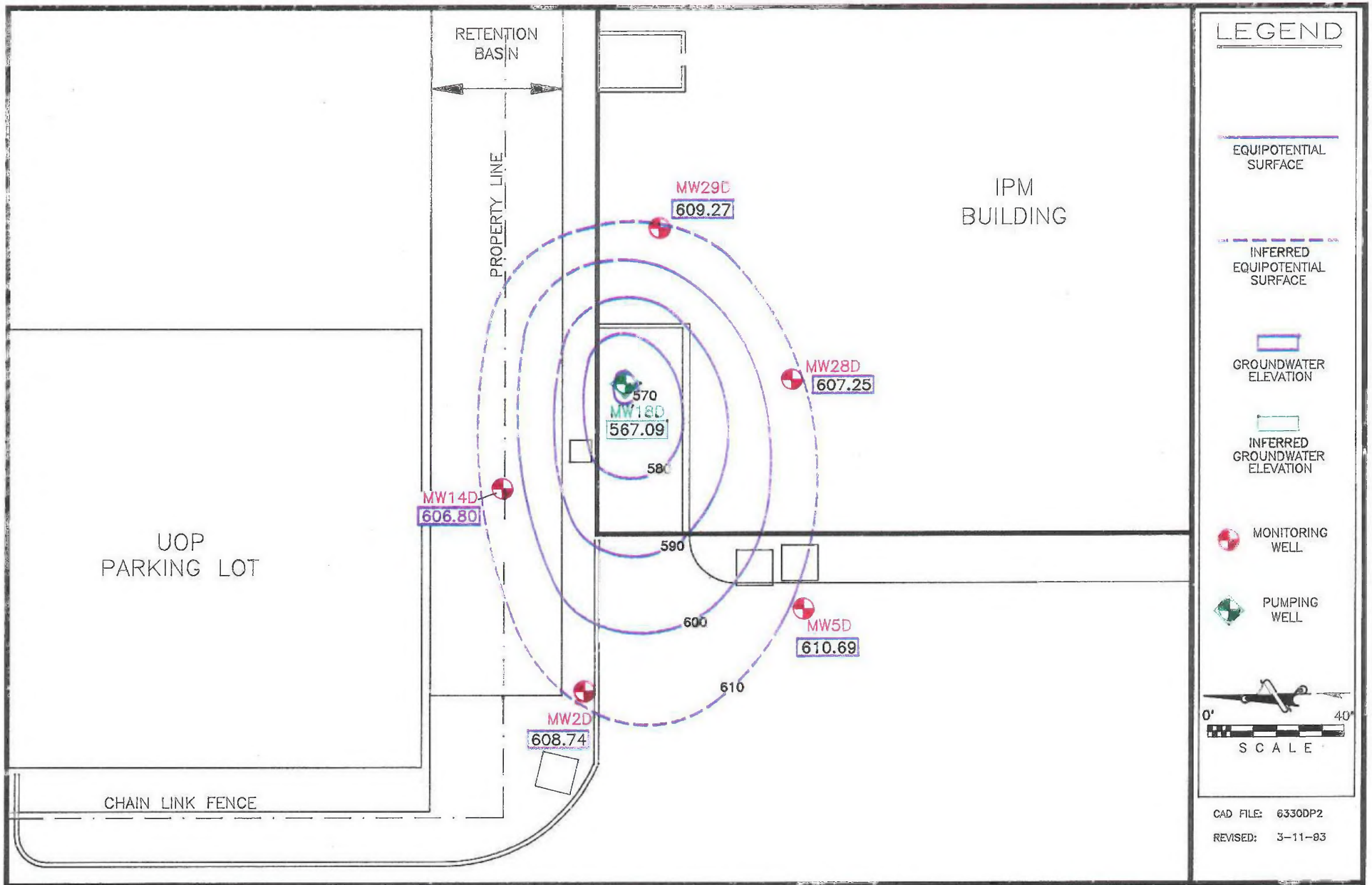
3.3 CONTAMINANT MASS RECOVERY

The groundwater recovery flowrate and NPDES sampling data indicate that the calculated rate of contaminant mass recovery has remained relatively constant over the last two quarters of operation, with an estimated contaminant mass removal from the groundwater of 18-lbs of CVOCs between January 1993 and March 1993 (Figure 6).

3.4 SUMMARY OF GROUNDWATER REMEDIATION PROGRESS

Review of the groundwater concentration and potentiometric surface data indicate the following:

- Review of the B-Zone monitoring well data indicates a reduction in contaminant concentrations at the center of the B-Zone contaminant plume. While the data indicated an expansion of the western extent



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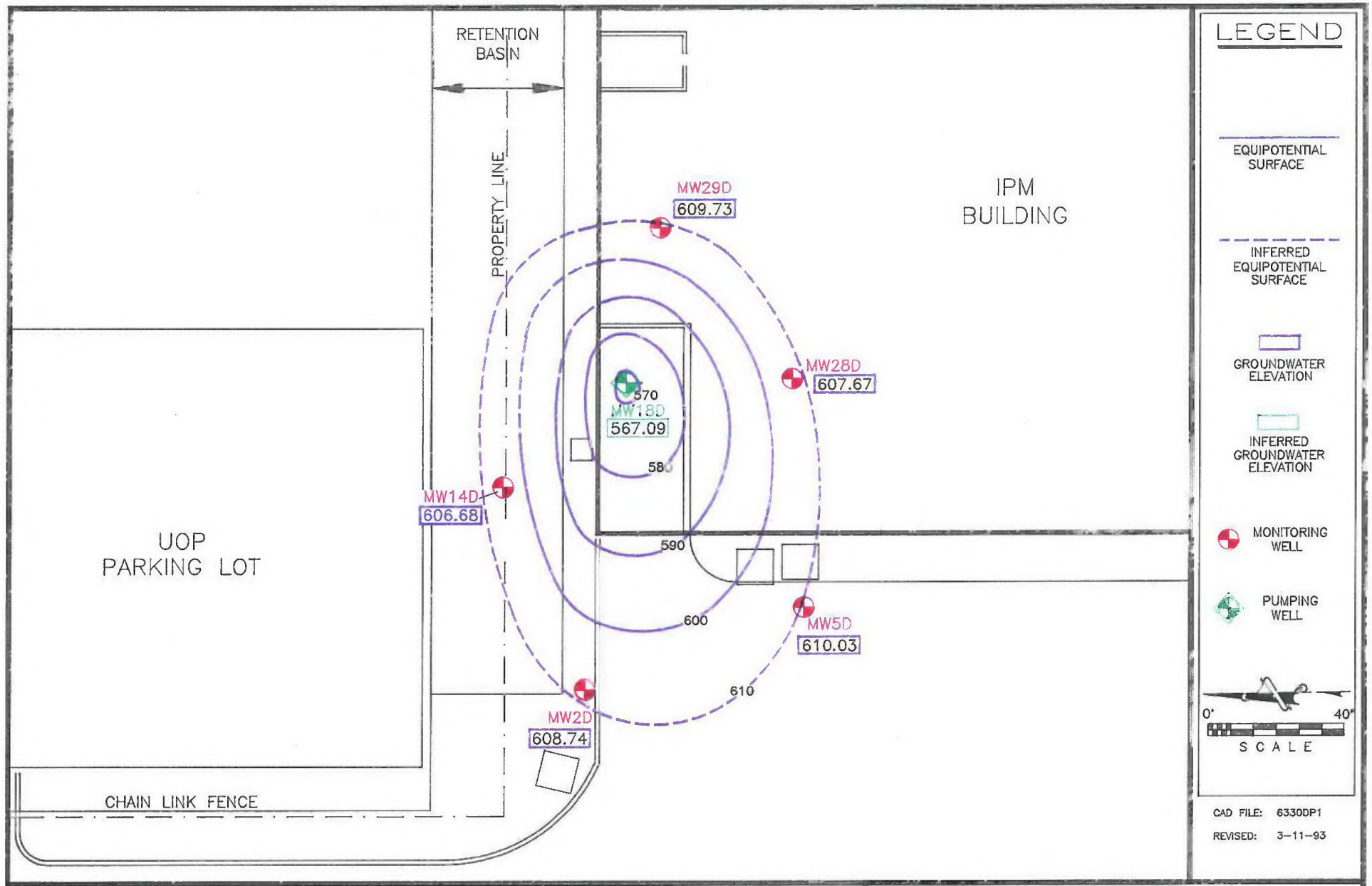
201 WEST OAKTON
DES PLAINES, IL

FIGURE 21
POTENTIOMETRIC SURFACE
"D" WELLS – JANUARY 1993



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KEARNEY-NATIONAL, INC.
201 WEST OAKTON
DES PLAINES, IL

FIGURE 22
POTENTIOMETRIC SURFACE
"D" WELLS – NOVEMBER 1992

of the B-Zone contaminant plume between October 1992 and January 1993, the contaminant plume was found to contract along the northern, southern, and eastern extent of the B-Zone groundwater contamination. The potentiometric surface data indicate that the groundwater extraction system is achieving containment and recovery of the B-Zone groundwater contamination.

- Review of the A-Zone monitoring well data indicates a significant reduction of contaminant concentrations at the center of the A-Zone contaminant plume (MW-14A) between October 1992 and January 1993. While the eastern and southern extent of the A-Zone contaminant plume was observed to decrease between October 1992 and January 1993, expansion of the southern and eastern extent of A-Zone contamination was observed over this time period. The A-Zone potentiometric surface data continues to indicate that groundwater extraction is achieving containment and recovery of the A-Zone groundwater contamination.

- The C-Zone monitoring well data indicates a reduction of contaminant concentrations in each of the C-Zone monitoring wells between October 1992 and January 1993. Comparison of the November 1992 and January 1993 potentiometric surface data indicates a shift in groundwater flow direction between November 1992 and January 1993. However, this apparent shift in the C-Zone groundwater flow direction is believed to be an artifact of basing the groundwater flow direction on static water level measurements in only three monitoring wells.

- The D-Zone monitoring well data indicates a reduction of contaminant concentrations at the center of the D-Zone contaminant plume (MW-18D) between October 1992 and January 1993. While

the eastern extent of the D-Zone contaminant plume was observed between October 1992 and January 1993, the northern, southern, and western extent of the D-Zone contaminant plume was found to expand over this time period. The D-Zone potentiometric surface data indicates D-Zone groundwater flow towards MW-18D from the surrounding D-Zone monitoring wells.

REFERENCES

Vogel, T.M., and P.L. McCarty, "Biotransformation of Tetrachloroethylene to Trichloroethylene, Dichloroethylene, Vinyl Chloride, and Carbon Dioxide under Methanogenic Conditions:, Applied and Environmental Microbiology, Vol. 49, No. 5, pp. 1080-1083 (1985)

Vogel, T.M., C.S. Criddle, and P.M. McCarty, "Transformation of Halogenated Aliphatic Compounds", Environmental Science and Technology, Vol. 21, No. 8, pp. 722-736 (1987)

Wilson, B.H., G.B. Smith, and J.F. Rees, "Biotransformations of Selected Alkylbenzenes and Halogenated Aliphatic Hydrocarbons in Methanogenic Aquifer Material: A Microcosm Study", Environmental Science and Technology, Vol. 20, No. 10, pp. 997-1002 (1986)

APPENDIX A

SOIL AND WELL BORING LOGS

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: 0310635072 County: Cook Well #: MW18-E

Site Name: Kearney National, Inc./IPM Grid Coordinate: Northing 177.53 Easting 221.57

Drilling Contractor: Environmental Drilling & Contracting Date Drilled Start: 2/1/93

Driller: Mike Smith Geologist: Peter Chaplinsky Date Completed: 2/11/93

Drilling Method: Auger-52ft. Rotary 52-117ft. Core 117-132 ft. Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Concrete

Type of Annular Sealant: Portland Cement/Bentonite

Amount of cement: # of bags 24 lbs. per bag 94

Amount of bentonite: # of bags 1.5 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Granular/Slurry

Amount of bentonite: # of Bags 1 lbs. per bag 50

Type of Sand Pack: 10/20 Silica

Source of Sand: Flat Rock

Amount of Sand: # of bags 8 lbs. per bag 50

Well Construction Materials

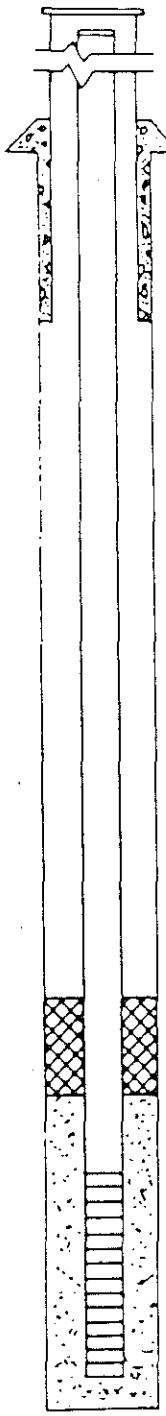
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Threaded			
Riser pipe above w.t.	316			
Riser pipe below w.t.	316			
Screen	316			
Coupling joint screen to riser	Threaded			
Protective casing			10"PVC	5"PVC

Measurements

to .01 ft. (where applicable)

Riser pipe length	127-ft
Protective casing length	10" to 52ft. 5" to 117
Screen length	5-ft.
Bottom of screen to end cap	0.07 ft.
Top of screen to first joint	0.45ft.
Total length of casing	117 ft.
Screen slot size	0.01 inch Cont. Wire Wrap
% of openings in screen	14%
Diameter of borehole (in)	4 7/8
ID of riser pipe (in)	2

Elevations — .01 ft.



MSL Top of Protective Casir

657.39 MSL Top of Riser Pipe

0 ft. Casing Stickup

657.97 MSL Ground Surface

3 ft. Top of annular sealant

122 ft. Top of Seal

2 ft. Total Seal Interval

124 ft. Top of Sand

127 ft. Top of Screen

5 ft. Total Screen Interval

132 ft. Bottom of Screen

133 ft. Bottom of Borehole

Completed by: Peter Chaplinsky Surveyed by: James Ellman Ill. registration #: 2158

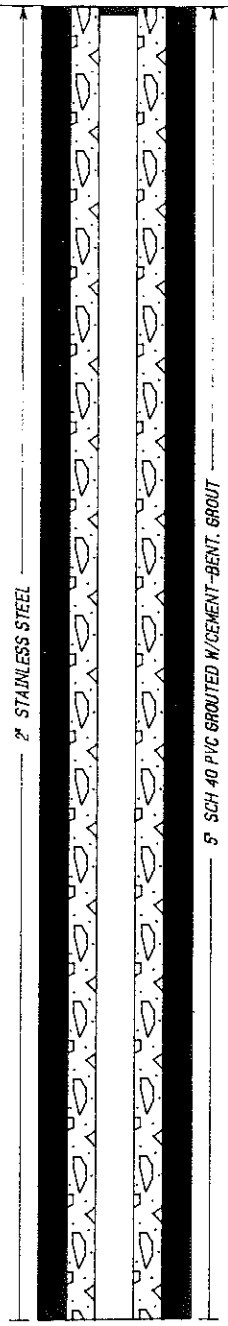
DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW18E*

CLIENT: *IPM/Kearney-National, Inc.*	LOCATION: *Des Plaines, IL*
DATE DRILLED: *2/1/93 - 2/10/93*	SURFACE ELEVATION: *657.9 Feet MSLD*
DRILLING METHOD: *Mud Rotary*	TOTAL DEPTH: *132 Feet*
DRILLING COMPANY: *Env. Drilling & Contracting*	LOGGED BY: *P. Chaplinsky*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS
							CL	Reinforced concrete and backfill
5								MW18E STRATIGRAPHY FOR DEPTHS BETWEEN 0-90-FT ACQUIRED DURING INSTALLATION OF MW19D Brown silty CLAY; slightly mottled with grey, slight plasticity, stiff. No coarser material present
		MW18-9	60	NA	ND			
10								Grey silty CLAY; Same as above
		MW18-14	60	NA	ND			
15								Grey silty CLAY; Trace sand.
		MW18-19	60	NA	ND			
20							SP ML	Grey fine grained SAND; Well sorted, loose
		MW18-24	31	NA	ND			
25								Grey sandy SILT; Trace clay and gravel, medium dense
		MW18-29	4	NA	ND			
30							CL	Grey CLAY; Very stiff, no coarser material
		MW18-34	48	NA	ND		SP	
35								Grey silty fine SAND; Well sorted, loose
		MW18-39	30	NA	ND		CL	
40								Grey CLAY; Very stiff, moderate plasticity
		MW18-44	58	NA	ND			
45								Grey gravelly CLAY; Stiff, moderate plasticity, gravel comprises 5-10% of sample
		MW18-49	60	NA	ND			
50								

WELL DIAGRAM



JOB NUMBER: 6330

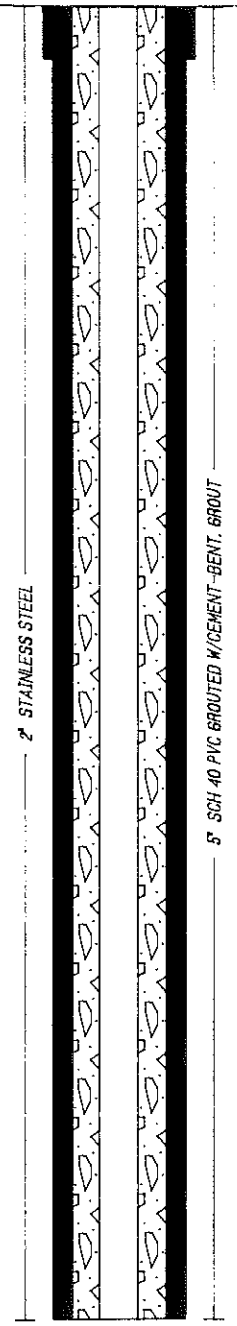
DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW18E*

CLIENT: *IPM/Kearney-National, Inc.*	LOCATION: *Des Plaines, IL*
DATE DRILLED: *2/1/93 - 2/10/93*	SURFACE ELEVATION: *657.9 Feet MSLD*
DRILLING METHOD: *Mud Rotary*	TOTAL DEPTH: *132 Feet*
DRILLING COMPANY: *Env. Drilling & Contracting*	LOGGED BY: *P. Chaplinsky*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS
							CL	Grey gravelly CLAY; Same as above
								8"-PVC CASING SET TO 52-FT
		MW18-54	57	NA	ND			Grey gravelly CLAY; Same as above
55								
		MW18-59	57	NA	ND			
60								Grey gravelly silty CLAY; Slightly plastic
		MW18-64	58	NA	ND		ML	Grey SILT; medium stiff, no coarser material
65								
		MW18-69	57	NA	ND			Grey SILT; Same as above
70							CL	Grey and brown CLAY; Mottled, stiff, slightly plastic, no coarser material
		MW18-74	55	NA	ND			Grey CLAY; Stiff, slightly plastic, minor gravel present
75								
		MW18-79	58	NA	ND			
80								
		MW18-84	54	NA	ND			
85								
		MW18-89	58	NA	ND			Brown and grey gravelly CLAY; Mottled, stiff, gravel comprises 15% of sample and consist of angular limestone 1 to 8-inch diameter
90								
		MW18-94	57	NA	ND			
95								
		MW18-99	52	NA	ND		ML	
							CL	Grey clayey SILT; Trace sand, stiff
100								

WELL DIAGRAM



JOB NUMBER: 6330

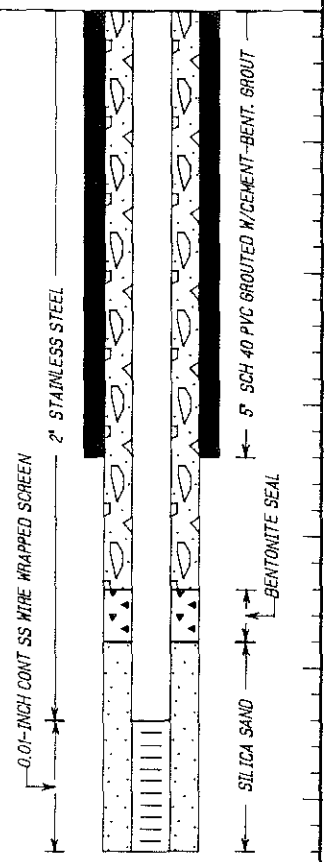
DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW18E*

CLIENT: *IPM/Kearney-National, Inc.*	LOCATION: *Des Plaines, IL*
DATE DRILLED: *2/1/93 - 2/10/93*	SURFACE ELEVATION: *657.9 Feet MSLD*
DRILLING METHOD: *Mud Rotary*	TOTAL DEPTH: *132 Feet*
DRILLING COMPANY: *Env. Drilling & Contracting*	LOGGED BY: *P. Chaplinsky*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS
		MW18-101	12	22	ND		CL	Dark grey silty CLAY; Trace sand and gravel, stiff, low plasticity
		MW18-103	11	90	ND			Dark grey silty CLAY; Trace sand and gravel, stiff, low plasticity
105		MW18-105	12	48	ND			Dark grey silty CLAY; Trace sand and gravel, stiff, low plasticity
		MW18-107	2	60	ND		LS	CARBONATE ROCK and CLAY Drill to 109-ft and take another spoon to confirm bedrock
		MW18-109	2	50	ND			CARBONATE ROCK and CLAY Switch from split-spoon sampling to NX-coring
110								
		MW18-113	12	NA	ND			CARBONATE ROCK Buff to grey, very pure - trace of argillaceous material no silt, sand or chert Core is fracture along thin lime mud seams (<1-cm thick) Poor sample return, may be weathered or fractured
115								
		MW18-116	33	NA	ND			CARBONATE ROCK Buff to grey, mottled, very pure, 1 void present with recrystallized material (either calcite or aragonite) Borehole reamed with 7 7/8-inch bit to 118-ft bgs 5-inch casing set to 117-ft bgs
120								
		MW18-122	27	NA	ND			CARBONATE ROCK Same material as above, very homogeneous
125								
		MW18-127	80	NA	ND			Loss of circulation during drilling, need to add water CARBONATE ROCK Same material as above
130								CARBONATE ROCK Same material as above
		MW18-132	60	NA	ND			
135								
140								
145								
150								

WELL DIAGRAM



JOB NUMBER: 6330

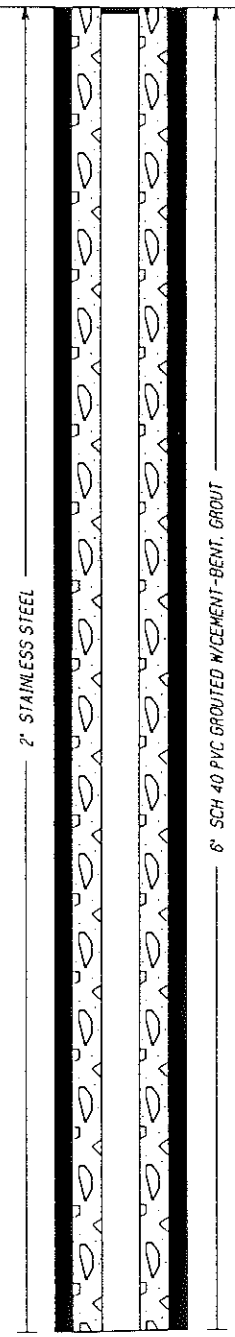
DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW18D*

CLIENT: *IPM/Kearney-National, Inc.*	LOCATION: *Des Plaines, IL*
DATE DRILLED: *1/20/92*	SURFACE ELEVATION: *657.9 Feet MSLD*
DRILLING METHOD: *Mud Rotary*	TOTAL DEPTH: *102 Feet*
DRILLING COMPANY: *Midwest Engineering Services*	LOGGED BY: *P. Chaplinsky*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS
							CL	Reinforced concrete and backfill
5								Brown silty CLAY; slightly mottled with grey, slight plasticity, stiff. No coarser material present
		MW18-9 FT	60	NA	ND			Grey silty CLAY; Same as above
10								
		MW18-14 FT	60	NA	ND			
15								Grey silty CLAY; Trace sand.
		MW18-19 FT	60	NA	ND			
20							SP	Grey fine grained SAND; Well sorted, loose
							ML	
		MW18-24 FT	31	NA	ND			
25								Grey sandy SILT; Trace clay and gravel, medium dense
		MW18-29 FT	4	NA	ND			
30							CL	Grey CLAY; Very stiff, no coarser material
		MW18-34 FT	48	NA	ND		SP	
35								Grey silty fine SAND; Well sorted, loose
							CL	
		MW18-39 FT	30	NA	ND			
40								Grey CLAY; Very stiff, moderate plasticity
		MW18-44 FT	58	NA	ND			Grey gravelly CLAY; Stiff, moderate plasticity, gravel comprises 5-10% of sample
45								
		MW18-49 FT	60	NA	ND			
50								Grey gravelly CLAY; Same as above
		MW18-54 FT	57	NA	ND			
55								Grey gravelly CLAY; Same as above
		MW18-59 FT	57	NA	ND			
60								

WELL DIAGRAM



JOB NUMBER: 6330

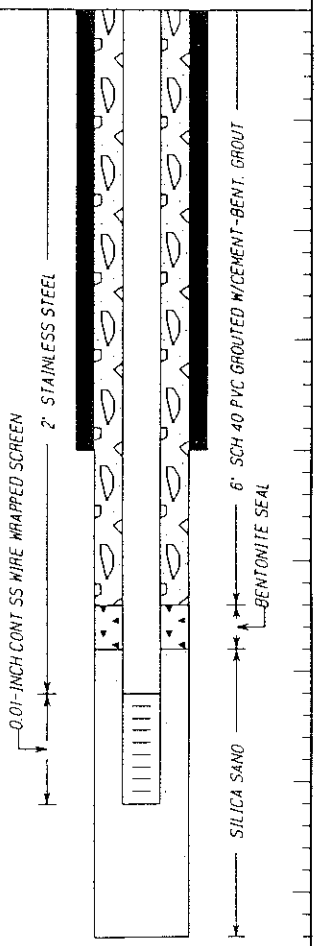
DEPAUL AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW18D*

CLIENT: *IPM/Kearney-National, Inc.*	LOCATION: *Des Plaines, IL*
DATE DRILLED: *1/20/92*	SURFACE ELEVATION: *657.9 Feet MSLD*
DRILLING METHOD: *Mud Rotary*	TOTAL DEPTH: *102 Feet*
DRILLING COMPANY: *Midwest Engineering Services*	LOGGED BY: *P. Chaplinsky*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS
							CL	Grey gravelly silty CLAY; Slightly plastic
		MW18-64 FT	58	NA	ND			
65							ML	Grey SILT; medium stiff, no coarser material
		MW18-69 FT	57	NA	ND			
70								Grey SILT; Same as above
							CL	Grey and brown CLAY; Mottled, stiff, slightly plastic, no coarser material
		MW18-74 FT	55	NA	ND			
75								Grey CLAY; Stiff, slightly plastic, minor gravel present
		MW18-79 FT	58	NA	ND			
80								
		MW18-84 FT	54	NA	ND			
85								
		MW18-89 FT	58	NA	ND			Brown and grey gravelly CLAY; Mottled, stiff, gravel comprises 15% of sample and consist of angular limestone 1 to 6-inch diameter
90								
		MW18-94 FT	57	NA	ND			
95								
		MW18-99 FT	52	NA	ND		ML	
100							CL	Grey clayey SILT; Trace sand, dense
105								
110								
115								
120								

WELL DIAGRAM



JOB NUMBER: 6330

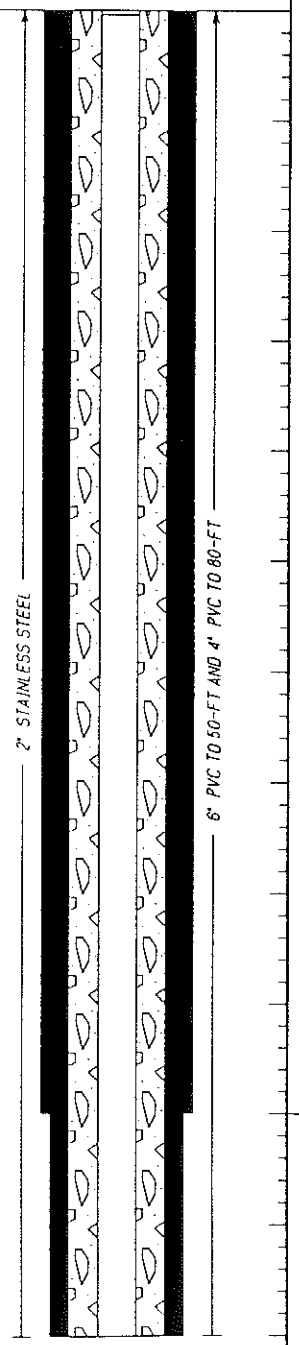
DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW28D*

CLIENT: *IPM/KEARNEY NATIONAL*	LOCATION: *DES PLAINES, IL*
DATE DRILLED: *08/14/92*	SURFACE ELEVATION: *Feet MSLD*
DRILLING METHOD: *MUD ROTARY*	TOTAL DEPTH: *96 Feet*
DRILLING COMPANY: *ENV. DRILLING & CONTRACTING*	LOGGED BY: *PETER CHAPLINSKY*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	SOIL CLASS	DESCRIPTION AND REMARKS
						CL	5 inches of concrete
5		MW28D-6	12	14	ND		Green-gray silty CLAY stiff, slightly plastic, mottled
10		MW28D-11	12	16	ND		Gray silty CLAY mottled, stiff, slightly plastic, minor gravel
15		MW28D-16	18	15	ND		Gray silty CLAY slightly plastic, 5% gravel present (avg. 5mm)
20		MW28D-21	24	23	ND		Grey CLAY very plastic, very soft
		MW28D-23	12	20	ND	ML	Gray SILT medium dense, slightly plastic, trace sand and gravel
25		MW28D-25	14	16	ND		Gray SILT medium dense, homogenous, trace fine sand
30		MW28D-29	24	15	ND		Gray clayey SILT moderately plastic, trace gravel, medium dense
35		MW28D-35	22	20	ND		Gray SILT dense, trace sand present
		MW28D-37	22	62	ND	CL	Gray SILT very dense, minor sand and gravel present (2-4mm avg)
40							
45		MW28D-45	20	27	ND		Gray silty CLAY moderately plastic, trace gravel, very stiff
50		MW28D-50	0	41	ND		No sample recovered
55		MW28D-56	17	29	ND		Gray silty CLAY very stiff, moderately plastic, no coarser material
60							Gray silty CLAY trace gravel (0.5 cm), medium plasticity and stiff

WELL DIAGRAM



JOB NUMBER: 6330

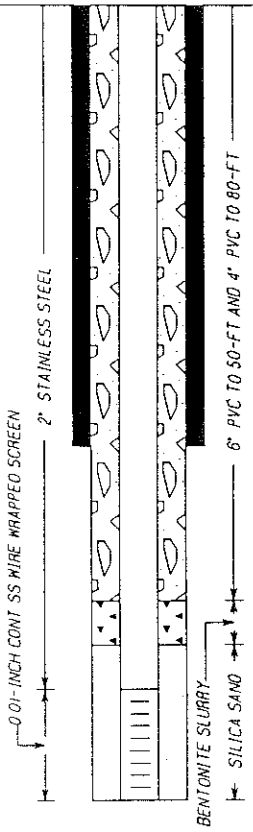
DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW28D*

CLIENT: *IPM/KEARNEY NATIONAL*	LOCATION: *DES PLAINES, IL*
DATE DRILLED: *08/14/92*	SURFACE ELEVATION: *Feet MSLD*
DRILLING METHOD: *MUD ROTARY*	TOTAL DEPTH: *96 Feet*
DRILLING COMPANY: *ENV. DRILLING & CONTRACTING*	LOGGED BY: *PETER CHAPLINSKY*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS
		MW28D-61	20	24	ND		CL	
65		MW28D-66	15	38	ND			Gray silty CLAY stiff and plastic, 1-inch sandy silt lense present
70		MW28D-70	18	44	ND			Gray silty CLAY trace sand and gravel, stiff, moderately plastic
75		MW28D-76	0	37	ND			No sample recovered
80		MW28D-80	17	53	ND			Gray CLAY stiff, medium plasticity, minor gravel present - angular limestone
85		MW28D-85	21	55	ND			Gray CLAY same as above
90		MW28D-92	14	59	ND			Gray silty CLAY stiff, medium plasticity, gravel consisting of angular limestone and well rounded erratics increasing in abundance
95		MW28D-95	18	78	ND			Gray silty CLAY same as above
100								
105								
110								
115								
120								

WELL DIAGRAM



JOB NUMBER: 6330

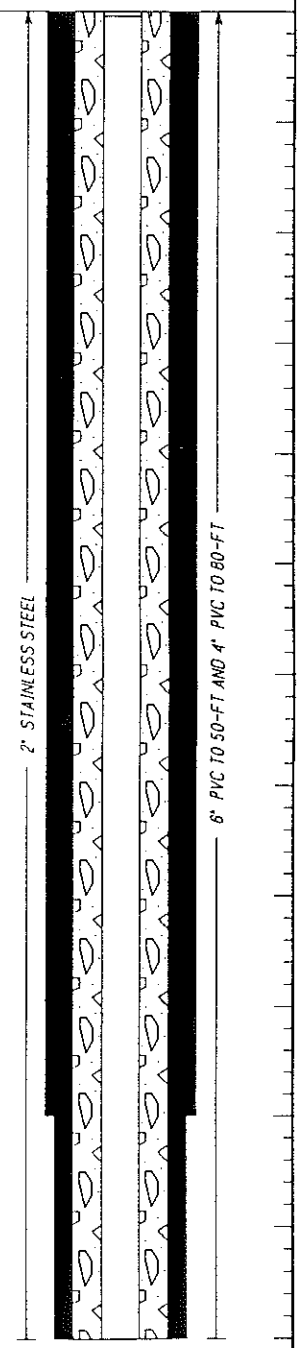
DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW29D*

CLIENT: *IPM/KEARNEY NATIONAL*	LOCATION: *DES PLAINES, IL*
DATE DRILLED: *08/19/92*	SURFACE ELEVATION: *Feet MSLD*
DRILLING METHOD: *MUD ROTARY*	TOTAL DEPTH: *96 Feet*
DRILLING COMPANY: *ENV. DRILLING & CONTRACTING*	LOGGED BY: *PETER CHAPLINSKY*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	SOIL CLASS	DESCRIPTION AND REMARKS
						CL	6 inches of concrete
5		MW29D-6	20	18	ND		Tan and Gray silty CLAY mottled, gravel present (5-10%) up to 1-cm, slightly plastic, very stiff
10		MW29D-11	20	24	ND		Gray CLAY trace gravel, low plasticity, very stiff
15		MW29D-16	19	14	ND		Gray CLAY same as above
20		MW29D-21	23	17	ND		Grey CLAY moderate plasticity, very stiff
						SM	
		MW29D-23	12	23	ND	ML	Gray silty SAND coarse grained, poorly sorted, loose
25		MW29D-25	14	24	ND		Gray SILT
						CL	medium dense, homogenous, trace fine sand
30		MW29D-31	18	15	ND		Gray silty CLAY moderately plastic, trace gravel, stiff
						SC	Brown clayey SAND
35		MW29D-36	16	47	ND	ML	dense, trace gravel
						CL	Gray clayey SILT dense
40		MW29D-41	23	23	ND		Drilling characteristics suggest presence of large gravel clasts Gray silty CLAY moderately plastic, trace gravel, stiff
45		MW29D-46	24	39	ND		Gray silty CLAY same as above
50		MW29D-51	19	49	ND		Dark gray silty CLAY stiff, slightly plastic, trace sand
55							
60							

WELL DIAGRAM



JOB NUMBER: 6330

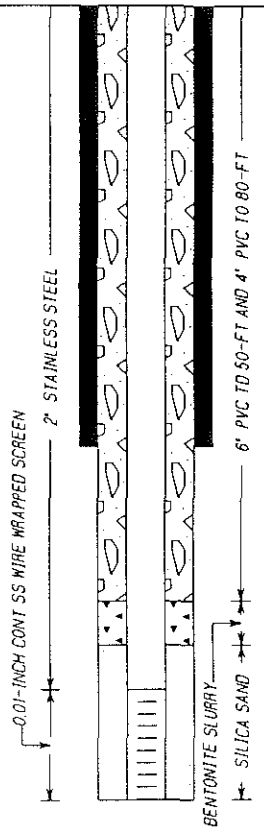
DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

LOG OF BORING: *MW29D*

CLIENT: *IPM/KEARNEY NATIONAL*	LOCATION: *DES PLAINES, IL*
DATE DRILLED: *08/19/92*	SURFACE ELEVATION: *Feet MSLD*
DRILLING METHOD: *MUD ROTARY*	TOTAL DEPTH: *96 Feet*
DRILLING COMPANY: *ENV. DRILLING & CONTRACTING*	LOGGED BY: *PETER CHAPLINSKY*

DEPTH feet	SAMPLE	SAMP. NO.	RECOVERY (in.)	N-VALUE	FIELD VOC (ppm)	GRAPHIC LOG	SOIL CLASS	DESCRIPTION AND REMARKS
		MW29D-61	14	79	ND		CL	Dark gray silty CLAY trace gravel (1.5 cm), medium plasticity and stiff
65								
70		MW29D-70	22	45	ND		ML CL	Dark gray clayey SILT minor gravel, dense
75								
80		MW29D-80	18	49	ND			Dark gray silty CLAY minor gravel, low plasticity, stiff
85								
90		MW29D-90	16	55	ND			Dark gray gravelly and silty CLAY stiff, low plasticity, gravel present (15%) is fine
95		MW29D-94	16	68	ND			Dark gray gravelly CLAY very stiff, low plasticity, gravel consists of angular limestone and well rounded erratics increasing in abundance with depth
								Gray silty CLAY same as above
100								
105								
110								
115								
120								

WELL DIAGRAM



JOB NUMBER: 6330

APPENDIX B

GROUNDWATER MONITORING WELL INFORMATION

A-ZONE MONITORING WELLS
Upper Elevation of Lower Water-Bearing Zone

Monitoring Well	Date Installed	Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-4A	01/16/89	A	54.0	44.0-54.0	660.55
MW-5A	01/16/89	A	55.0	45.0-55.0	657.40
MW-6A	01/18/89	A	55.0	45.0-55.0	660.71
MW-7A	01/24/89	A	54.0	44.0-54.0	658.01
MW-14A	06/30/90	A	47.3	42.3-47.3	657.18
MW-15A	06/27/90	A	40	35-40	656.87
MW-16A	06/26/90	A	49.5	44.5-49.5	660.90
MW-17A	11/28/90	A	45	40-45	658.10
MW-18A	11/30/90	A	53	47-52	657.65
MW-19A	07/05/90	A	49.9	44.9-49.9	658.20
MW-20A	12/20/90	A	54.5	44.5-49.5	657.41
MW-22A	11/02/90	A	56	45-55	657.78
MW-24A	02/27/91	A	51	45-50	657.41
MW-25A	02/27/91	A	49	43-48	656.54
MW-26A	02/27/91	A	53	47-52	656.67
MW-27A	02/26/91	A	51.5	45-50	661.09

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

B-ZONE MONITORING WELLS
Upper Water-Bearing Unit

Monitoring Well	Date Installed	Monitoring Well Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-1	09/28/88	B	19	15-19	661.15
MW-2	09/28/88	B	19	15-19	661.32
MW-3	09/28/88	B	19	15-19	660.53
MW-4B	02/09/89	B	30	20-30	660.68
MW-5B	02/09/89	B	30	20-30	657.11
MW-6B	02/09/89	B	25	15-25	660.82
MW-7B	02/09/89	B	28	18-28	657.99
MW-8	04/10/89	B	25	14-24	658.41
MW-9	04/10/89	B	25	14-24	658.31
MW-10	04/10/89	B	25	14-24	658.26
MW-11	04/10/89	B	25	14-24	658.16
MW-12	08/01/89	B	25	12.2-22.2	658.40
MW-13	08/01/89	B	25	12.7-22.7	658.42
MW-15B	06/29/90	B	22.7	12.7-22.7	656.89
MW-17B	07/02/90	B	23.35	13.35-23.35	657.54
MW-18B	07/05/90	B	32	7-32	657.33
MW-18B1	07/03/90	B	28.8	3.8-28.8	657.10
MW-18B2	07/02/90	B	29.0	4.0-29.0	657.51
MW-20B	11/21/90	B	37.0	30.5-35.5	657.32
MW-21B	11/19/90	B	37.0	30.5-35.5	657.94

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

C-ZONE MONITORING WELLS
Lower Elevation of Lower Water-Bearing Zone

Monitoring Well	Date Installed	Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-14C	11/27/90	C	65.75	59-64	654.73
MW-18C	11/29/90	C	74	68-73	657.53
MW-23C	12/14/90	C	71	62-67	657.25

D-ZONE MONITORING WELLS
Bedrock/Overburden Interface Zone

Monitoring Well	Date Installed	Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-2D	03/10/91	D	97	91-96	660.53
MW-5D	03/21/91	D	94	89-94	657.53
MW-14D	03/10/91	D	83.5	78.3-83.3	653.58
MW-18D	01/28/92	D	96	91-96	657.09
MW-28D	08/21/92	D	96	91-96	657.67
MW-29D	08/21/92	D	96	91-96	657.83

E-ZONE MONITORING WELLS
Bedrock

Monitoring Well	Date Installed	Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-18E	02/11/93	E	132	127-132	657.39

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

APPENDIX C

CHEMICAL ANALYSIS FORMS

JANUARY 1993 GROUNDWATER SAMPLING EVENT

CHANGES TO MONITORING WELL DESIGNATIONS

In a letter dated March 12, 1993, IEPA requested that the monitoring well designations be changed on the chemical analysis forms. The following table summarizes these changes.

Kearney-National Designation	Agency Designation	Kearney-National Designation	Agency Designation
MW-1	G01S	MW-7A	G07U
MW-2	G02S	MW-14A	G14U
MW-3	GO3S	MW-15A	G15U
MW-4B	GO4S	MW-16A	G16U
MW-5B	GO5S	MW-17A	G17U
MW-6B	GO6S	MW-18A	G18U
MW-7B	GO7S	MW-19A	G19U
MW-8	GO8S	MW-20A	G20U
MW-9	GO9S	MW-22A	G22U
MW-10	G10S	MW-24A	G24U
MW-11	G11S	MW-25A	G25U
MW-12	G12S	MW-26A	G26U
MW-13	G13S	MW-27A	G27U
MW-15B	G15S	MW-14C	G14L
MW-18B	G18S	MW-18C	G18L
MW-18B1	G16S	MW-23C	G23L
MW-18B2	G14S	MW-2D	G02D
MW-20B	G20S	MW-5D	GO5D
MW-21B	G21S	MW-14D	G14D
MW-4A	G04U	MW-18D	G18D
MW-5A	GO5U	MW-28D	G28D
MW-6A	G06U	MW-29D	G29D

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G02S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (58)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				643.56
Well Depth Elevation (ft. MSL)	72020				639.60
Depth to Water from Meas. Pt. (ft)	72109				17.76

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G02S (19–22)

CO. Cook

DATE COLLECTED 0 1 / 2 9 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101			<	2.0
2	BROMOFORM	32104			<	4.0
3	BROMOMETHANE	34413			<	4.0
4	CARBON TETRACHLORIDE	32102			<	2.0
5	CHLOROBENZENE	34301			<	2.0
6	CHLOROETHANE	34311			<	4.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	2.0
8	CHLOROFORM	32106			<	2.0
9	CHLOROMETHANE	34418			<	4.0
10	DIBROMOCHLOROMETHANE	32105			<	2.0
11	1,2-DICHLOROBENZENE	34536			<	2.0
12	1,3-DICHLOROBENZENE	34566			<	2.0
13	1,4-DICHLOROBENZENE	34571			<	2.0
14	1,1-DICHLOROETHANE	34496			<	2.0
15	1,2-DICHLOROETHANE	34531			<	2.0
16	1,1-DICHLOROETHYLENE	34501			<	2.0
17	CIS-1,2-DICHLOROETHYLENE	34546				2.1
18	1,2-DICHLOROPROPANE	34541			<	2.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	2.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	2.0
21	METHYLENE CHLORIDE	34423			<	4.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	2.0
23	TETRACHLOROETHYLENE	34475			<	2.0
24	1,1,1-TRICHLOROETHANE	34506			<	2.0
25	1,1,2-TRICHLOROETHANE	34511			<	2.0
26	TRICHLOROETHYLENE	39180				39
27	TRICHLOROFLUOROMETHANE	34488			<	4.0
28	VINYL CHLORIDE	39175			<	4.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

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IPC 160 1/90 (CONT)

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DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER (see Instructions) G04S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (9) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				641.82
Well Depth Elevation (ft. MSL)	72020				628.00
Depth to Water from Meas. Pt. (ft)	72109				18.86

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G04S (19–22)

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 2.5 47
2	BROMOFORM	32104			<	5.0
3	BROMOMETHANE	34413			<	5.0
4	CARBON TETRACHLORIDE	32102			<	2.5
5	CHLOROBENZENE	34301			<	2.5
6	CHLOROETHANE	34311			<	5.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	2.5
8	CHLOROFORM	32106			<	2.5
9	CHLOROMETHANE	34418			<	5.0
10	DIBROMOCHLOROMETHANE	32105			<	2.5
11	1,2-DICHLOROBENZENE	34536			<	2.5
12	1,3-DICHLOROBENZENE	34566			<	2.5
13	1,4-DICHLOROBENZENE	34571			<	2.5
14	1,1-DICHLOROETHANE	34496			<	2.5
15	1,2-DICHLOROETHANE	34531			<	2.5
16	1,1-DICHLOROETHYLENE	34501			<	2.5
17	CIS-1,2-DICHLOROETHYLENE	34546				220
18	1,2-DICHLOROPROPANE	34541			<	2.5
19	CIS-1,3-DICHLOROPROPENE	34704			<	2.5
20	TRANS-1,3-DICHLOROPROPENE	34699			<	2.5
21	METHYLENE CHLORIDE	34423			<	5.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	2.5
23	TETRACHLOROETHYLENE	34475			<	2.5
24	1,1,1-TRICHLOROETHANE	34506			<	2.5
25	1,1,2-TRICHLOROETHANE	34511			<	2.5
26	TRICHLOROETHYLENE	39180				71
27	TRICHLOROFLUOROMETHANE	34488			<	5.0
28	VINYL CHLORIDE	39175			<	5.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

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DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–19)

MONITOR POINT NUMBER (see Instructions) G08S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63) CLEAR

COLLECTOR COMMENTS (103–102)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				639.32
Well Depth Elevation (ft. MSL)	72020				634.50
Depth to Water from Meas. Pt. (ft)	72109				19.09

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G08S (19–22)

CO. Cook

DATE COLLECTED 0 1 2 2 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB 1 (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 50 47
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546				**1,200**
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLOROETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				**240**
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G08S DUP (19–22)

CO. Cook

DATE COLLECTED 0 1 / 2 2 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB 2 (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101			<	25
2	BROMOFORM	32104			<	50
3	BROMOMETHANE	34413			<	50
4	CARBON TETRACHLORIDE	32102			<	25
5	CHLOROBENZENE	34301			<	25
6	CHLOROETHANE	34311			<	50
7	2-CHLOROETHYLVINYL ETHER	34576			<	25
8	CHLOROFORM	32106			<	25
9	CHLOROMETHANE	34418			<	50
10	DIBROMOCHLOROMETHANE	32105			<	25
11	1,2-DICHLOROBENZENE	34536			<	25
12	1,3-DICHLOROBENZENE	34566			<	25
13	1,4-DICHLOROBENZENE	34571			<	25
14	1,1-DICHLOROETHANE	34496			<	25
15	1,2-DICHLOROETHANE	34531			<	25
16	1,1-DICHLOROETHYLENE	34501			<	25
17	CIS-1,2-DICHLOROETHYLENE	34546				1,100
18	1,2-DICHLOROPROPANE	34541			<	25
19	CIS-1,3-DICHLOROPROPENE	34704			<	25
20	TRANS-1,3-DICHLOROPROPENE	34699			<	25
21	METHYLENE CHLORIDE	34423			<	50
22	1,1,2,2-TETRACHLORETHANE	34516			<	25
23	TETRACHLOROETHYLENE	34475			<	25
24	1,1,1-TRICHLOROETHANE	34506			<	25
25	1,1,2-TRICHLOROETHANE	34511			<	25
26	TRICHLOROETHYLENE	39180				410
27	TRICHLOROFLUOROMETHANE	34488			<	50
28	VINYL CHLORIDE	39175			<	50

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213

LPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G09S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				638.93
Well Depth Elevation (ft. MSL)	72020				634.50
Depth to Water from Meas. Pt. (ft)	72109				19.38

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Date in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G09S (19–22)

CO. Cook

DATE COLLECTED 0 1 / 2 2 / 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 50 47
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546				**2,400**
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLOROETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				**110**
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G12S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				639.75
Well Depth Elevation (ft. MSL)	72020				636.30
Depth to Water from Meas. Pt. (ft)	72109				18.65

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G12S (19–22)

CO. Cook

DATE COLLECTED 0 1 2 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 10 47
2	BROMOFORM	32104			<	20
3	BROMOMETHANE	34413			<	20
4	CARBON TETRACHLORIDE	32102			<	10
5	CHLOROBENZENE	34301			<	10
6	CHLOROETHANE	34311			<	20
7	2-CHLOROETHYLVINYL ETHER	34576			<	10
8	CHLOROFORM	32106			<	10
9	CHLOROMETHANE	34418			<	20
10	DIBROMOCHLOROMETHANE	32105			<	10
11	1,2-DICHLOROBENZENE	34536			<	10
12	1,3-DICHLOROBENZENE	34566			<	10
13	1,4-DICHLOROBENZENE	34571			<	10
14	1,1-DICHLOROETHANE	34496			<	10
15	1,2-DICHLOROETHANE	34531			<	10
16	1,1-DICHLOROETHYLENE	34501			<	10
17	CIS-1,2-DICHLOROETHYLENE	34546				**18**
18	1,2-DICHLOROPROPANE	34541			<	10
19	CIS-1,3-DICHLOROPROPENE	34704			<	10
20	TRANS-1,3-DICHLOROPROPENE	34699			<	10
21	METHYLENE CHLORIDE	34423			<	20
22	1,1,2,2-TETRACHLORETHANE	34516			<	10
23	TETRACHLOROETHYLENE	34475			<	10
24	1,1,1-TRICHLOROETHANE	34506			<	10
25	1,1,2-TRICHLOROETHANE	34511			<	10
26	TRICHLOROETHYLENE	39180				**300**
27	TRICHLOROFLUOROMETHANE	34488			<	20
28	VINYL CHLORIDE	39175			<	20

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Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G13S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				639.37
	Well Depth Elevation (ft. MSL)	72020				635.80
	Depth to Water from Meas. Pt. (ft)	72109				19.05

This Agency is authorised to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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LPC 160 01/90

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G13S (19–22)

CO. Cook

DATE COLLECTED 0 1 / 2 9 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 5.0 47
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLOROETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				**230**
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

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**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G15S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63) CLEAR (102)

COLLECTOR COMMENTS (103) ____ (142)

LAB COMMENTS (150) ____ (199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation Of GW Surface (ft. MSL)	71993				642.21
	Well Depth Elevation (ft. MSL)	72020				634.80
	Depth to Water from Meas. Pt. (ft)	72109				14.68

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G15S (19–22)

CO. Cook

DATE COLLECTED 0 1 / 2 / 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101			<	0.50
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546				**0.67**
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**7.0**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7)

TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (8–18)

MONITOR POINT NUMBER (see Instructions) G17S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	7193				640.68
Well Depth Elevation (ft. MSL)	7220				632.30
Depth to Water from Meas. Pt. (ft)	7209				16.86

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G17S (19–22)

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**8.5**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G18S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				639.46
Well Depth Elevation (ft. MSL)	72020				626.00
Depth to Water from Meas. Pt. (ft)	72109				17.87

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18S (19–22)

CO. Cook

DATE COLLECTED 0 1 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101	35	36	< 37	38 50 47
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546				71
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLOROETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				2,000
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G16S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	7193				639.12
Well Depth Elevation (ft. MSL)	7220				629.20
Depth to Water from Meas. Pt. (ft)	7209				17.98

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G16S (19–22)

CO. Cook

DATE COLLECTED 0 1 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101	35	36	< 37	38 250 47
2	BROMOFORM	32104			<	500
3	BROMOMETHANE	34413			<	500
4	CARBON TETRACHLORIDE	32102			<	250
5	CHLOROBENZENE	34301			<	250
6	CHLOROETHANE	34311			<	500
7	2-CHLOROETHYLVINYL ETHER	34576			<	250
8	CHLOROFORM	32106			<	250
9	CHLOROMETHANE	34418			<	500
10	DIBROMOCHLOROMETHANE	32105			<	250
11	1,2-DICHLOROBENZENE	34536			<	250
12	1,3-DICHLOROBENZENE	34566			<	250
13	1,4-DICHLOROBENZENE	34571			<	250
14	1,1-DICHLOROETHANE	34496			<	250
15	1,2-DICHLOROETHANE	34531			<	250
16	1,1-DICHLOROETHYLENE	34501			<	250
17	CIS-1,2-DICHLOROETHYLENE	34546			<	250
18	1,2-DICHLOROPROPANE	34541			<	250
19	CIS-1,3-DICHLOROPROPENE	34704			<	250
20	TRANS-1,3-DICHLOROPROPENE	34699			<	250
21	METHYLENE CHLORIDE	34423			<	500
22	1,1,2,2-TETRACHLORETHANE	34516			<	250
23	TETRACHLOROETHYLENE	34475			<	250
24	1,1,1-TRICHLOROETHANE	34506			<	250
25	1,1,2-TRICHLOROETHANE	34511			<	250
26	TRICHLOROETHYLENE	39180				**6,900**
27	TRICHLOROFLUOROMETHANE	34488			<	500
28	VINYL CHLORIDE	39175			<	500

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (8–18)

MONITOR POINT NUMBER (see Instructions) G14S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (9) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				639.18
	Well Depth Elevation (ft. MSL)	72020				629.00
	Depth to Water from Meas. Pt. (ft)	72109				18.33

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7) TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14S (19–22)

CO. Cook

DATE COLLECTED 0 1 2 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 50 47
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	50
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLOROETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				**1,100**
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G20S (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)				60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				641.66
Well Depth Elevation (ft. MSL)	72020				622.20
Depth to Water from Meas. Pt. (ft)	72109				15.66

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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LPC 160 01/90

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G20S (19–22)

CO. Cook

DATE COLLECTED 0 1 2 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				4.4
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G04U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				616.48
Well Depth Elevation (ft. MSL)	72020				604.20
Depth to Water from Meas. Pt. (ft)	72109				44.07

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Column 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G04U (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				1.3
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
IPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER (see Instructions) G14U (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				616.34
Well Depth Elevation (ft. MSL)	72020				607.70
Depth to Water from Meas. Pt. (ft)	72109				40.84

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G14U (19–22)

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101	35	36	< 37	38 500 47
2	BROMOFORM	32104			<	1,000
3	BROMOMETHANE	34413			<	1,000
4	CARBON TETRACHLORIDE	32102			<	500
5	CHLOROBENZENE	34301			<	500
6	CHLOROETHANE	34311			<	1,000
7	2-CHLOROETHYLVINYL ETHER	34576			<	500
8	CHLOROFORM	32106			<	500
9	CHLOROMETHANE	34418			<	1,000
10	DIBROMOCHLOROMETHANE	32105			<	500
11	1,2-DICHLOROBENZENE	34536			<	500
12	1,3-DICHLOROBENZENE	34566			<	500
13	1,4-DICHLOROBENZENE	34571			<	500
14	1,1-DICHLOROETHANE	34496			<	500
15	1,2-DICHLOROETHANE	34531			<	500
16	1,1-DICHLOROETHYLENE	34501			<	500
17	CIS-1,2-DICHLOROETHYLENE	34546			<	500
18	1,2-DICHLOROPROPANE	34541			<	500
19	CIS-1,3-DICHLOROPROPENE	34704			<	500
20	TRANS-1,3-DICHLOROPROPENE	34699			<	500
21	METHYLENE CHLORIDE	34423			<	1,000
22	1,1,2,2-TETRACHLORETHANE	34516			<	500
23	TETRACHLOROETHYLENE	34475			<	500
24	1,1,1-TRICHLOROETHANE	34506			<	500
25	1,1,2-TRICHLOROETHANE	34511			<	500
26	TRICHLOROETHYLENE	39180				**10,000**
27	TRICHLOROFLUOROMETHANE	34488			<	1,000
28	VINYL CHLORIDE	39175			<	1,000

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
LPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G15U (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				632.93
Well Depth Elevation (ft. MSL)	72020				617.50
Depth to Water from Meas. Pt. (ft)	72109				23.94

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Date in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G15U (19–22)

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 34	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546				**9.0**
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**14**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–19)

MONITOR POINT NUMBER (see Instructions) G17U (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				617.46
Well Depth Elevation (ft. MSL)	72020				610.20
Depth to Water from Meas. Pt. (ft)	72109				40.64

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7) TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G17U (19–22)

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**6.4**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (8–18)

MONITOR POINT NUMBER G18U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)				60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				612.31
	Well Depth Elevation (ft. MSL)	72020				606.00
	Depth to Water from Meas. Pt. (ft)	72109				45.34

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G18U (19–22)

CO. Cook

DATE COLLECTED 0 1 2 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101	35	36	< 37	38 500 47
2	BROMOFORM	32104			<	1,000
3	BROMOMETHANE	34413			<	1,000
4	CARBON TETRACHLORIDE	32102			<	500
5	CHLOROBENZENE	34301			<	500
6	CHLOROETHANE	34311			<	1,000
7	2-CHLOROETHYLVINYL ETHER	34576			<	500
8	CHLOROFORM	32106			<	500
9	CHLOROMETHANE	34418			<	1,000
10	DIBROMOCHLOROMETHANE	32105			<	500
11	1,2-DICHLOROBENZENE	34536			<	500
12	1,3-DICHLOROBENZENE	34566			<	500
13	1,4-DICHLOROBENZENE	34571			<	500
14	1,1-DICHLOROETHANE	34496			<	500
15	1,2-DICHLOROETHANE	34531			<	500
16	1,1-DICHLOROETHYLENE	34501			<	500
17	CIS-1,2-DICHLOROETHYLENE	34546			<	500
18	1,2-DICHLOROPROPANE	34541			<	500
19	CIS-1,3-DICHLOROPROPENE	34704			<	500
20	TRANS-1,3-DICHLOROPROPENE	34699			<	500
21	METHYLENE CHLORIDE	34423			<	1,000
22	1,1,2,2-TETRACHLORETHANE	34516			<	500
23	TETRACHLOROETHYLENE	34475			<	500
24	1,1,1-TRICHLOROETHANE	34506			<	500
25	1,1,2-TRICHLOROETHANE	34511			<	500
26	TRICHLOROETHYLENE	39180				**5,500**
27	TRICHLOROFLUOROMETHANE	34488			<	1,000
28	VINYL CHLORIDE	39175			<	1,000

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
IPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER G19U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE ____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (9) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				622.37
Well Depth Elevation (ft. MSL)	72020				608.70
Depth to Water from Meas. Pt. (ft)	72109				35.83

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G19U (19–22)

CO. Cook

DATE COLLECTED 0 1 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 5.0 47
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546				**29**
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLOROETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				**130**
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G20U (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	> or <	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				620.07
Well Depth Elevation (ft. MSL)	72020				607.70
Depth to Water from Meas. Pt. (ft)	72109				37.34

This Agency is authorised to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G20U (19–22)

CO. Cook

DATE COLLECTED 0 1 2 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 5.0 47
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLOROETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				**38**
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7)

TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER G22U (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY B (see Instructions) (60)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				634.10
Well Depth Elevation (ft. MSL)	72020				603.50
Depth to Water from Meas. Pt. (ft)	72109				23.68

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G22U (19–22)

CO. Cook

DATE COLLECTED 0 1 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**0.72**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
IPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–19)

MONITOR POINT NUMBER (see Instructions) G14L (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) B (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
Elevation of GW Surface (ft. MSL)	71993				599.05
Well Depth Elevation (ft. MSL)	72020				588.90
Depth to Water from Meas. Pt. (ft)	72109				55.68

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G14L (19–22)

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32104 31	35	36	37 <	38 50 47
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546				**190**
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLOROETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				**710**
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

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Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7)

TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) G 1 8 L (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				593.82
	Well Depth Elevation (ft. MSL)	72020				584.90
	Depth to Water from Meas. Pt. (ft)	72109				63.71

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IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G18L (19–22)

CO. Cook

DATE COLLECTED 0 1 / 2 / 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101			<	50
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546				64
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLOROETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				3,100
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

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Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (8–18)

MONITOR POINT NUMBER (see Instructions) G23L (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (56)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				607.20
Well Depth Elevation (ft. MSL)	72020				587.70
Depth to Water from Meas. Pt. (ft)	72109				50.05

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G23L (19–22)

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB 1 (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**0.82**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G23L DUP

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (19–22; 23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB 2 (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 34	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**0.76**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–19)

MONITOR POINT NUMBER (see Instructions) G05D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	7193				610.69
Well Depth Elevation (ft. MSL)	7202				563.60
Depth to Water from Meas. Pt. (ft)	7209				46.84

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G05D (19–22)

CO. Cook

DATE COLLECTED 0 1 / 2 / 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 34	35	36	< 37	38 5.0 47
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLOROETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				42
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (8–18)

MONITOR POINT NUMBER (see Instructions) G14D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/21/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (58)

MONITOR POINT SAMPLED BY (see Instructions) B (60) ____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63–102) CLEAR

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				608.80
Well Depth Elevation (ft. MSL)	72020				568.70
Depth to Water from Meas. Pt. (ft)	72109				44.78

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER 6 1 4 D (19–22)

CO. Cook

DATE COLLECTED 0 1 2 1 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 34	35	36	37	38 **0.86** 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106				**1.5**
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**1.1**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G18D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60)

OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63–102) CLEAR

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
Elevation of GW Surface (ft. MSL)	71993				567.09
Well Depth Elevation (ft. MSL)	72020				562.00
Depth to Water from Meas. Pt. (ft)	72109				90.00

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER G18D (19–22)

CO. Cook

DATE COLLECTED 0 1 2 / 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 5.0 47
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLOROETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				**54**
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) G28D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (64)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE CLEAR (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				607.25
Well Depth Elevation (ft. MSL)	72020				562.50
Depth to Water from Meas. Pt. (ft)	72109				50.42

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G28D (19–22)

CO. Cook

DATE COLLECTED 0 1 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB 1 (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32104 34	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102				**0.60**
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**13**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G28D DUP (19–22)

CO. Cook

DATE COLLECTED 0 1 2 2 9 3 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB 2 (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**10**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 04/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 031063507 2 (9–18)

MONITOR POINT NUMBER (see Instructions) G29D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 01/22/93 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) B (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63–102): CLEAR

COLLECTOR COMMENTS (103–142):

LAB COMMENTS (150–199):

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				609.27
Well Depth Elevation (ft. MSL)	72020				562.50
Depth to Water from Meas. Pt. (ft)	72109				48.56

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER G29D (19–22)

CO. Cook

DATE COLLECTED 0 1 2 9 3 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	30 32101 31	35	36	< 37	38 0.50 47
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				**4.5**
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
LPC 160 1/90 (CONT)

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APPENDIX D

ANALYTICAL LABORATORY REPORTS

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 2	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 29-31, 1993
Attention: James VanNortwick	Lab Number:	301-0500	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	2.0	N.D.
Bromoform	4.0	N.D.
Bromomethane	4.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroethane	4.0	N.D.
2-Chloroethylvinyl ether	2.0	N.D.
Chloroform	2.0	N.D.
Chloromethane	4.0	N.D.
Dibromochloromethane	2.0	N.D.
1,2-Dichlorobenzene	2.0	N.D.
1,3-Dichlorobenzene	2.0	N.D.
1,4-Dichlorobenzene	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	**2.0**	**2.1**
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Methylene chloride	4.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	**2.0**	**39**
Trichlorofluoromethane	4.0	N.D.
Vinyl chloride	4.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT
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ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 4B	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 28, 1993
Attention: James VanNortwick	Lab Number:	301-0506	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	2.5	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	220
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	N.D.
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	2.5	71
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

3010483.DEP <24>

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 8	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 28, 1993
Attention: James VanNortwick	Lab Number:	301-0507	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	**50**	**1,200**
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**240**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 8 Dup.	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 29-31, 1993
Attention: James VanNortwick	Lab Number:	301-0511	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	25	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	**25**	**1,100**
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	25	N.D.
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	**25**	**410**
Trichlorofluoromethane	50	N.D.
Vinyl chloride	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 9	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 28-29, 1993
Attention: James VanNortwick	Lab Number:	301-0508	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	2,400
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	110
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 12	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 29, 1993
Attention: James VanNortwick	Lab Number:	301-0504	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	10	N.D.
Bromoform	20	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	10	N.D.
Chlorobenzene	10	N.D.
Chloroethane	20	N.D.
2-Chloroethylvinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	10	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	10	N.D.
1,2-Dichloroethane	10	N.D.
1,1-Dichloroethene	10	N.D.
cis-1,2-Dichloroethene	10	18
trans-1,2-Dichloroethene	10	N.D.
1,2-Dichloropropane	10	N.D.
cis-1,3-Dichloropropene	10	N.D.
trans-1,3-Dichloropropene	10	N.D.
Methylene chloride	20	N.D.
1,1,2,2-Tetrachloroethane	10	N.D.
Tetrachloroethene	10	N.D.
1,1,1-Trichloroethane	10	N.D.
1,1,2-Trichloroethane	10	N.D.
Trichloroethene	10	300
Trichlorofluoromethane	20	N.D.
Vinyl chloride	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

3010483.DEP <22>

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 13	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 28-29, 1993
Attention: James VanNortwick	Lab Number:	301-0502	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**230**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 15B	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 29, 1993
Attention: James VanNortwick	Lab Number:	301-0501	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	**0.50**	**0.67**
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**7.0**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 17B	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 29-31, 1993
Attention: James VanNortwick	Lab Number:	301-0503	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**8.5**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton		Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 18B		Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010		Analyzed:	Jan 28, 1993
Attention: James VanNortwick	Lab Number:	301-0505		Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	71
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	2,000
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 18B1	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 28, 1993
Attention: James VanNortwick	Lab Number:	301-0509	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	250	N.D.
Bromoform	500	N.D.
Bromomethane	500	N.D.
Carbon tetrachloride	250	N.D.
Chlorobenzene	250	N.D.
Chloroethane	500	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	250	N.D.
Chloromethane	500	N.D.
Dibromochloromethane	250	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
1,1-Dichloroethane	250	N.D.
1,2-Dichloroethane	250	N.D.
1,1-Dichloroethene	250	N.D.
cis-1,2-Dichloroethene	250	N.D.
trans-1,2-Dichloroethene	250	N.D.
1,2-Dichloropropane	250	N.D.
cis-1,3-Dichloropropene	250	N.D.
trans-1,3-Dichloropropene	250	N.D.
Methylene chloride	500	N.D.
1,1,2,2-Tetrachloroethane	250	N.D.
Tetrachloroethene	250	N.D.
1,1,1-Trichloroethane	250	N.D.
1,1,2-Trichloroethane	250	N.D.
Trichloroethene	**250**	**6,900**
Trichlorofluoromethane	500	N.D.
Vinyl chloride	500	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Laboratory Director

3010483.DEP <27>

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 18B2	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 29, 1993
Attention: James VanNortwick	Lab Number:	301-0510	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**1,100**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 20B	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 29-31, 1993
Attention: James VanNortwick	Lab Number:	301-0499	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**4.4**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 4A	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26-27, 1993
Attention: James VanNortwick	Lab Number:	301-0486	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**1.3**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 14A	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 28-29, 1993
Attention: James VanNortwick	Lab Number:	301-0498	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	500	N.D.
Bromoform	1,000	N.D.
Bromomethane	1,000	N.D.
Carbon tetrachloride	500	N.D.
Chlorobenzene	500	N.D.
Chloroethane	1,000	N.D.
2-Chloroethylvinyl ether	500	N.D.
Chloroform	500	N.D.
Chloromethane	1,000	N.D.
Dibromochloromethane	500	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
1,1-Dichloroethane	500	N.D.
1,2-Dichloroethane	500	N.D.
1,1-Dichloroethene	500	N.D.
cis-1,2-Dichloroethene	500	N.D.
trans-1,2-Dichloroethene	500	N.D.
1,2-Dichloropropane	500	N.D.
cis-1,3-Dichloropropene	500	N.D.
trans-1,3-Dichloropropene	500	N.D.
Methylene chloride	1,000	N.D.
1,1,2,2-Tetrachloroethane	500	N.D.
Tetrachloroethene	500	N.D.
1,1,1-Trichloroethane	500	N.D.
1,1,2-Trichloroethane	500	N.D.
Trichloroethene	**500**	**10,000**
Trichlorofluoromethane	1,000	N.D.
Vinyl chloride	1,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 15A	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0485	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	**0.50**	**9.0**
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**14**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton		Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 17A		Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010		Analyzed:	Jan 26-27, 1993
Attention: James VanNortwick	Lab Number:	301-0487		Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**6.4**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 18A	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 28, 1993
Attention: James VanNortwick	Lab Number:	301-0497	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	500	N.D.
Bromoform	1,000	N.D.
Bromomethane	1,000	N.D.
Carbon tetrachloride	500	N.D.
Chlorobenzene	500	N.D.
Chloroethane	1,000	N.D.
2-Chloroethylvinyl ether	500	N.D.
Chloroform	500	N.D.
Chloromethane	1,000	N.D.
Dibromochloromethane	500	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
1,1-Dichloroethane	500	N.D.
1,2-Dichloroethane	500	N.D.
1,1-Dichloroethene	500	N.D.
cis-1,2-Dichloroethene	500	N.D.
trans-1,2-Dichloroethene	500	N.D.
1,2-Dichloropropane	500	N.D.
cis-1,3-Dichloropropene	500	N.D.
trans-1,3-Dichloropropene	500	N.D.
Methylene chloride	1,000	N.D.
1,1,2,2-Tetrachloroethane	500	N.D.
Tetrachloroethene	500	N.D.
1,1,1-Trichloroethane	500	N.D.
1,1,2-Trichloroethane	500	N.D.
Trichloroethene	**500**	**5,500**
Trichlorofluoromethane	1,000	N.D.
Vinyl chloride	1,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

3010483.DEP <15>

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 19A	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0494	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	29
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	130
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 20A	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26-27, 1993
Attention: James VanNortwick	Lab Number:	301-0483	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**38**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

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Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Laboratory Director

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 22A	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26-28, 1993
Attention: James VanNortwick	Lab Number:	301-0491	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**0.72**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 14C	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0495	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	**50**	**190**
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**710**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 18C	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0496	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	**50**	**64**
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**3,100**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 23C	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0489	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**0.82**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 23C Dup.	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 29-31, 1993
Attention: James VanNortwick	Lab Number:	301-0512	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	0.76
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 5D	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26-27, 1993
Attention: James VanNortwick	Lab Number:	301-0490	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**42**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 21, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 14D	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0484	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	**0.50**	**0.86**
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	**0.50**	**1.5**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**1.1**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 18D	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0493	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**54**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 28D	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0492	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	**0.50**	**60**
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**13**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton		Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 28D Dup.		Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010		Analyzed:	Jan 29-31, 1993
Attention: James VanNortwick	Lab Number:	301-0513		Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**10**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton	Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW 29D	Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Jan 26, 1993
Attention: James VanNortwick	Lab Number:	301-0488	Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**4.5**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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DePaul and Associates	Client Project ID:	6330, IPM-201 W. Oakton		Sampled:	Jan 22, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: Blank		Received:	Jan 22, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010		Analyzed:	Jan 29-31, 1993
Attention: James VanNortwick	Lab Number:	301-0514		Reported:	Feb 1, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

3010483.DEP <32>

CHAIN-OF-CUSTODY RECORD

DEPAUL AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CLIENT NAME: IPM 201 W OAKTON	PROJECT #: 6330	SUBMITTED TO: Great Lakes
	PURCHASE ORDER #: 856	SAMPLED BY: B Naylor

SAMPLE NUMBER	SAMPLE LOCATON/ DESCRIPTION	SAMPLE DATE	SAMPLE TYPE (water, soil, composite, etc.)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
1	MW 20A	1/22	Water	2	8010	3010483
2	MW 14D	1/21	Water	2	8010	3010484
3	MW 15A	1/21	Water	2	8010	3010485
4	MW 4A	1/21	Water	2	8010	3010486
5	MW 17A	1/21	Water	2	8010	3010487
6	MW 29D	1/22	Water	2	8010	3010488
7	MW 23C	1/21	Water	2	8010	3010489
8	MW 5D	1/21	Water	2	8010	3010490
9	MW 22A	1/22	Water	2	8010	3010491
10	MW 28D	1/22	Water	2	8010	3010492
11	MW 18D	1/22	Water	2	8010	3010493
12	MW 19A	1/22	Water	2	8010	3010494

☞ Method Detection Limit of 0.01-ppm or less required ☜

SIGNATURE	FIRM	INCLUSIVE DATES	COMMENTS
[illegible]	DEPAUL	1/22/93	
Crystal Pallock	1/22/93 5:20pm		

CHAIN-OF-CUSTODY RECORD

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CLIENT NAME: IPM 201 W OAKTON	PROJECT #: 6330	SUBMITTED TO: Great LAKES
	PURCHASE ORDER #: 856	SAMPLED BY: B. Naylor

SAMPLE NUMBER	SAMPLE LOCATON/ DESCRIPTION	SAMPLE DATE	SAMPLE TYPE (water, soil, composite, etc.)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
13	MW 14C	1/21	water	2	8010	3010495
14	MW 15C	1/22	Water	2	8010	3010496
15	MW 15A	1/22	water	2	8010	3010497
16	MW 14A	1/21	water	2	8010	3010498

☞ Method Detection Limit of 0.01-ppm or less required ☜

SIGNATURE	FIRM	INCLUSIVE DATES	COMMENTS
[illegible]	DEPAUL	1/23/93	
[illegible] 1/22/93 5:20pm			

CHAIN-OF-CUSTODY RECORD

DEPAUL AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CLIENT NAME: IPM 201 W. Oakton	PROJECT #: 6330	SUBMITTED TO: GREAT LAKES
	PURCHASE ORDER #: 856	SAMPLED BY: BN, DH, JP

SAMPLE NUMBER	SAMPLE LOCATON/ DESCRIPTION	SAMPLE DATE	SAMPLE TYPE (water, soil, composite, etc.)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
17	MW-20B	1/22	Water	2	8010	3010499
18	MW-2	1/22	Water	2	8010	3010500
19	MW-15B	1/21	Water	2	8010	3010501
20	MW-13	1/22	Water	2	8010	3010502
21	MW-17B	1/21	Water	2	8010	3010503
22	MW-12	1/22	Water	2	8010	3010504
23	MW-18B	1/22	Water	2	8010	3010505
24	MW-4B	1/21	Water	2	8010	3010506
25	MW-8	1/22	Water	2	8010	3010507
26	MW-9	1/22	Water	2	8010	3010508
27	MW-18B1	1/22	Water	2	8010	3010509
28	MW-18B2	1/22	Water	2	8010	3010510

☞ Method Detection Limit of 0.01-ppm or less required ☜

SIGNATURE	FIRM	INCLUSIVE DATES	COMMENTS
[signature]	DEPAUL	1/23/93	
Crystal Dallock 1/22/93 5:20pm			

CHAIN-OF-CUSTODY RECORD

DePAUL AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CLIENT NAME: IPM 201 W. Oakton	PROJECT #: 6330	SUBMITTED TO: Great Lakes
	PURCHASE ORDER #: 856	SAMPLED BY: BN, DH, JP

SAMPLE NUMBER	SAMPLE LOCATON/ DESCRIPTION	SAMPLE DATE	SAMPLE TYPE (water, soil, composite, etc.)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
29	MW-8 Dup	1/22	Water	2	8010	3010511
30	MW-23C Dup.	1/22	Water	2	8010	3010512
31	MW-28D Dup.	1/22	Water	2	8010	3010513
32	Blank	1/22	Water	2	8010	3010514
	~~Effluent~~	~~1/22~~				

☞ Method Detection Limit of 0.01-ppm or less required ☜

SIGNATURE	FIRM	INCLUSIVE DATES	COMMENTS
[signature]	~~1/23/93~~ DEPAUL	1/23/93	
[signature] 1/22/93	SROM		

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Feb 19, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: 18E	Received:	Feb 19, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Feb 22-24, 1993
Attention: James VanNortwick	Lab Number:	302-0695	Reported:	Feb 25, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	2.5	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	2.6
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	250	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	28
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	2.5	4.9
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Feb 19, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: DS	Received:	Feb 19, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/B010	Analyzed:	Feb 22-24, 1993
Attention: James VanNortwick	Lab Number:	302-0696	Reported:	Feb 25, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	2.5	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	250	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	24
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	2.5	12
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Feb 19, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: Pump Sample	Received:	Feb 19, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Feb 22-24, 1993
Attention: James VanNortwick	Lab Number:	302-0693	Revised Report:	Feb 26, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	1.6
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	1.7
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	2.8
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	2.7
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	50.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	33
1,1,1-Trichloroethane	0.50	1.1
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	14
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Feb 19, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: Bailer Blank	Received:	Feb 19, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Feb 22-24, 1993
Attention: James VanNortwick	Lab Number:	302-0694	Reported:	Feb 25, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	50.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Crystal Pallice /jp

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates
5 Revere Dr. Suite 310
Northbrook, IL 60622
Attention: James VanNortwick

Client Project ID: 6330, IPM

QC Sample Group: 3020693-6

Reported: Feb 25, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro ethene	Trans-1,2- Dichloro ethene	Chloroform	1,1,1-Trichloro ethane	Trichloro ethene	Chloro benzene
Method:	8010	8010	8010	8010	8010	8010
Analyst:	C. Noga	C. Noga	C. Noga	C. Noga	C. Noga	C. Noga
Reporting Units:	ng	ng	ng	ng	ng	ng
Date Analyzed:	Feb 22, 1993	Feb 22, 1993	Feb 22, 1993	Feb 22, 1993	Feb 22, 1993	Feb 22, 1993
QC Sample #:	BLK3022293	BLK3022293	BLK3022293	BLK3022293	BLK3022293	BLK3022293
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	48	44	52	48	57	50
Matrix Spike % Recovery:	96	88	104	96	114	100
Conc. Matrix Spike Dup.:	49	45	51	49	57	50
Matrix Spike Duplicate % Recovery:	98	90	102	98	114	100
Relative % Difference:	2.1	2.3	1.9	2.1	0	0

Laboratory blank contained the following analytes: None Detected

GREAT LAKES ANALYTICAL

Crystal Pallock

Kevin W. Keeley
Laboratory Director

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

3020697.DEP <7>

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates
5 Revere Dr. Suite 310
Northbrook, IL 60622
Attention: James VanNortwick

Client Project ID: 6330, IPM-201 W. Oakton

QC Sample Group: 3010483-514

Reported: Feb 25, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	1,1,1- Dichloro ethane	1,1,2- Dichloro ethene	Chloroform	1,1,1- Trichloro ethane	Trichloro ethene	Chloro benzene
Method:	8010	8010	8010	8010	8010	8010
Analyst:	C. Noga	C. Noga	C. Noga	C. Noga	C. Noga	C. Noga
Reporting Units:	ng	ng	ng	ng	ng	ng
Date Analyzed:	Jan 31, 1993	Jan 31, 1993	Jan 31, 1993	Jan 31, 1993	Jan 31, 1993	Jan 31, 1993
QC Sample #:	BLK3013193	BLK3013193	BLK3013193	BLK3013193	BLK3013193	BLK3013193
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	36	53	56	52	57	52
Matrix Spike % Recovery:	72	106	112	104	114	104
Conc. Matrix Spike Dup.:	38	52	57	53	56	49
Matrix Spike Duplicate % Recovery:	76	104	114	106	112	98
Relative % Difference:	5.4	1.9	1.8	1.9	1.8	2.0

Laboratory blank contained the following analytes: None Detected

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

3010483.DEP <34>

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CHAIN-OF-CUSTODY RECORD

CLIENT NAME AND ADDRESS: IPM	PROJECT #: 6330	SUBMITTED TO: Great Lakes Analytical
	PURCHASE ORDER #: 881	SAMPLED BY: B. Naylor

SAMPLE NUMBER	SAMPLE DATE	SAMPLE TYPE (water/soil/air)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
1) Pump Sample	2/19	water	2	8010	Revised name
2) Bailer Blank	"	"	"	"	
3) 18E	"	"	"	"	
4) DS	"	"	"	"	
5) Effluent	"	"	1	pH	
6)					
7)					
8)					
9)					
10)					
11)					
12)					

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

SIGNATURE and FIRM	INCLUSIVE DATES	COMMENTS
Shawn D. James DAI	2/26/93	Revised chain of
		custody for original
		dated 2/19/93

Due: 2/26

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CHAIN-OF-CUSTODY RECORD

CLIENT NAME AND ADDRESS: IPM	PROJECT #: 6330	SUBMITTED TO: Great Lakes
	PURCHASE ORDER #: 881	SAMPLED BY: B. Naylor

SAMPLE NUMBER	SAMPLE DATE	SAMPLE TYPE (water/soil/air)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
1) Pump Blank	2/19	water	2	8010	3020693
2) Bailer Blank	2/19	water	2	8010	3020694
3) 18E	2/19	water	2	8010	3020695
4) DS	2/19	water	2	8010	3020696
5) Effluent	2/19	water	1	pH	3020697
6)					
7)					
8)					
9)					
10)					
11)					
12)					

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

SIGNATURE and FIRM	INCLUSIVE DATES	COMMENTS
[illegible] DEPAUL	2/19/93	
Kevin Krull GLA	2/19/93 1820	

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney-National/IPM	Sampled:	Mar 2, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: Pump Blank	Received:	Mar 4, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Mar 5, 1993
Attention: James VanNortwick	Lab Number:	303-0102	Reported:	Mar 8, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	0.66
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	2.2
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	0.83
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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MAR - 9 1993

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

3030102.DEP <1>

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney-National/IPM	Sampled:	Mar 3, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW18E-4P	Received:	Mar 4, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Mar 4-10, 1993
Attention: James VanNortwick	Lab Number:	303-0103	Reported:	Mar 11, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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MAR 15 1993

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

3030102.DEP <4>

GREAT
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ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney-National/IPM	Sampled:	Mar 3, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW18E-5P	Received:	Mar 4, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Mar 4-10, 1993
Attention: James VanNortwick	Lab Number:	303-0104	Reported:	Mar 11, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney-National/IPM	Sampled:	Mar 3, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW18E-6B	Received:	Mar 4, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Mar 5, 1993
Attention: James VanNortwick	Lab Number:	303-0105	Reported:	Mar 8, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	4.5
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	5.8
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	2.1
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	2.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	2.8
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	10
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates
5 Revere Dr. Suite 310
Northbrook, IL 60622
Attention: James VanNortwick

Client Project ID: 6330, Kearney-National/IPM

QC Sample Group: 3030103-4

Reported: Mar 11, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro ethene	Trans-1,2-Dichloro ethene	Chloroform	1,1,1-Trichloro ethane	Trichloro ethene	Chloro benzene
Method:	8010	8010	8010	8010	8010	8010
Analyst:	C. Noga	C. Noga	C. Noga	C. Noga	C. Noga	C. Noga
Reporting Units:	ng	ng	ng	ng	ng	ng
Date Analyzed:	Mar 4, 1993	Mar 4, 1993	Mar 4, 1993	Mar 4, 1993	Mar 4, 1993	Mar 4, 1993
QC Sample #:	BLK3030493	BLK3030493	BLK3030493	BLK3030493	BLK3030493	BLK3030493
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	34	43	50	50	58	52
Matrix Spike % Recovery:	68	86	100	100	116	104
Conc. Matrix Spike Dup.:	30	41	40	40	53	48
Matrix Spike Duplicate % Recovery:	60	82	80	80	106	96
Relative % Difference:	13	4.8	22	22	9.0	8.0

Laboratory blank contained the following analytes: None Detected

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{(\text{Conc. of M.S. + Conc. of M.S.D.}) / 2} \times 100$

3030102.DEP <6>

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates
5 Revere Dr. Suite 310
Northbrook, IL 60622
Attention: James VanNortwick

Client Project ID: 6330, Kearney-National/IPM

QC Sample Group: 3030102 & 105

Reported: Mar 8, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloroethene	Trans-1,2-Di-chloroethene	Chloroform	1,1,1-Trichloro ethane	Trichloro-ethene	Chloro-benzene
Method:	8010	8010	8010	8010	8010	8010
Analyst:	C. Noga	C. Noga	C. Noga	C. Noga	C. Noga	C. Noga
Reporting Units:	mg	mg	mg	mg	mg	mg
Date Analyzed:	Mar 6, 1993	Mar 6, 1993	Mar 6, 1993	Mar 6, 1993	Mar 6, 1993	Mar 6, 1993
QC Sample #:	Blank	Blank	Blank	Blank	Blank	Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	41	48	47	52	56	49
Matrix Spike % Recovery:	52	96	94	104	112	98
Conc. Matrix Spike Dup.:	62	56	55	5B	62	49
Matrix Spike Duplicate % Recovery:	124	112	110	116	124	98
Relative % Difference:	41	15	16	11	10	0

Laboratory blank contained the following analytes: None Detected

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

3030102.DEP <3>

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CHAIN-OF-CUSTODY RECORD

CLIENT NAME AND ADDRESS:	PROJECT #: 6330	SUBMITTED TO: Great Lakes Analytical
Kearney National / IPM	PURCHASE ORDER #: 995	SAMPLED BY: Peter Chaplinsky / R. Vamos

	SAMPLE NUMBER	SAMPLE DATE	SAMPLE TYPE (water/soil/air)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
1)	Pump Blank 3030102	3/2/93	water	3 VOA	8010	48 Hr. TA
2)	MW18E - 4P 3030103	3/3/93	water	3 VOA	8010	Std. TA
3)	MW18E - 5P 3030104	3/3/93	water	3 VOA	8010	Std. TA
4)	MW18E - 6B 3030105	3/3/93	water	3 VOA	8010	48 hr. T.A.
5)						
6)						
7)						
8)						
9)						
10)						

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

SIGNATURE and FIRM	INCLUSIVE DATES	COMMENTS
Peter R. Chaplinsky DAI	3/2/93 - 3/3/93	Held 4°C
Lesley Jankowsky GLA	3/4/93 0910	

DROPPED OFF BY CLIENT, ON ICE

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Mar 16, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW18 PS1	Received:	Mar 16, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	3/17-3/22, 1993
Attention: James VanNortwick	Lab Number:	303-0551	Reported:	Mar 22, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

3030551.DEP <1>

GREAT
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1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Mar 16, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW18 PS2	Received:	Mar 16, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	3/17-3/22, 1993
Attention: James VanNortwick	Lab Number:	303-0552	Reported:	Mar 22, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Mar 16, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW18 PS3	Received:	Mar 16, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	3/17-3/22, 1993
Attention: James VanNortwick	Lab Number:	303-0553	Reported:	Mar 22, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Mar 16, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW18 BS1	Received:	Mar 16, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	3/17-3/22, 1993
Attention: James VanNortwick	Lab Number:	303-0554	Reported:	Mar 22, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	**0.50**	**0.93**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	**0.50**	**0.70**
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**0.76**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Mar 16, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: MW18 BS2	Received:	Mar 16, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	3/17-3/22, 1993
Attention: James VanNortwick	Lab Number:	303-0555	Reported:	Mar 22, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	**0.50**	**0.80**
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**0.63**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, IPM	Sampled:	Mar 16, 1993
5 Revere Dr. Suite 310	Sample Descript:	Water: Bailer Blank	Received:	Mar 16, 1993
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	3/17-3/22, 1993
Attention: James VanNortwick	Lab Number:	303-0556	Reported:	Mar 22, 1993

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates
5 Revere Dr. Suite 310
Northbrook, IL 60622
Attention: James VanNortwick

Client Project ID: 6330, IPM

QC Sample Group: 3030551-6

Reported: Mar 22, 1993

QUALITY CONTROL DATA REPORT

ANALYTE	1,1- Dichloro-ethene	T1,2-Trichloro-ethene	Chloro-form	1,1,1-Trich-chloroethane	Trichloro-ethene	Chloro-benzene
Method:	8010	8010	8010	8010	8010	8010
Analyst:	D. Parikh	D. Parikh	D. Parikh	D. Parikh	D. Parikh	D. Parikh
Reporting Units:	ng	ng	ng	ng	ng	ng
Date Analyzed:	Mar 19, 1993	Mar 19, 1993	Mar 19, 1993	Mar 19, 1993	Mar 19, 1993	Mar 19, 1993
QC Sample #:	Blk031993	Blk031993	Blk031993	Blk031993	Blk031993	Blk031993
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	50	50	50	50	50	50
Conc. Matrix Spike:	38	45	46	47	52	45
Matrix Spike % Recovery:	76	90	92	94	104	90
Conc. Matrix Spike Dup.:	48	51	51	53	60	52
Matrix Spike Duplicate % Recovery:	96	102	102	106	120	104
Relative % Difference:	23	13	10	12	14	14

Laboratory blank contained the following analytes: None Detected

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}}$	x 100	
Relative % Difference:	$\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}}$	x 100	3030551.DEP <7>

DEPAUL

AND ASSOCIATES, INC.

ENVIRONMENTAL ENGINEERS

CHAIN-OF-CUSTODY RECORD

Due 3/23/93

CLIENT NAME AND ADDRESS: IPM 201 W OAKTON	PROJECT #: 6330	SUBMITTED TO: Great Lakes
	PURCHASE ORDER #:	SAMPLED BY: BN / PL

	SAMPLE NUMBER	SAMPLE DATE	SAMPLE TYPE (water/soil/air)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
1)	MW 18 PS1 Sample#1	3/16/93	Water	2	8010	3030551
2)	MW 18 PS2 2	3/16	Water	2	8010	3030552
3)	MW 18 PS3 3	3/16	Water	2	8010	3030553
4)	MW 18 BS1 4	3/16	Water	2	8010	3030554
5)	MW 18 BS2 5	3/16	Water	2	8010	3030555
6)	Bailer Blank	3/16	Water	2	8010	3030556
7)						
8)						
9)						
10)						
11)						
12)						

§ § - Please Note: Method Quantification Limits (MQLs) as specified in EPA SW-846 (3rd Edition) are required - § §

SIGNATURE and FIRM	INCLUSIVE DATES	COMMENTS
[illegible] 7:40 DePAUL		
Deborah L Russell 1940 GLA 3/16/93		

APPENDIX E

SUMMARY OF ANALYTICAL RESULTS

GROUNDWATER MONITORING PROGRAM

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER ($\mu g/L$)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-1	07/30/92	<500	52,000	<500	<1,000	<500	<500
	07/25/91	69	<100	3,300	<100	31	<100
	01/24/91	84	8,700	<250	<250	<250	<250
	07/13/90	222	21,400	6,151	115	<5	5.90
	02/16/90	100	10,000	6,100	<100	<100	<100
	05/08/89	2,150	440,000	<1,000	<1,000	<1,000	<1,000
	03/09/89	3,500	103,000	<100	<100	<100	<100
	09/29/88	<10,000	680,000	<10,000	<10,000	<10,000	<10,000
MW-2	01/22/93	<2.0	39	2.1	<4.0	<2.0	<2.0
	10/21/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	1.4	21.55	<1.0	<0.50	<0.50
	07/30/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	04/15/92	0.3	1.7	<1.0	<1.8	<0.3	<0.2
	01/13/92	<0.3	2.8	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	6.76	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	09/29/88	<1	2	<1	<1	<1	<1
MW-3	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/25/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	1.94	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	09/29/88	<1	3	1	<1	<1	<1
MW-4B	01/21/93	<2.5	71	220	<5.0	<2.5	<2.5
	10/21/92	<2.5	88	2,004	130	<2.5	<2.5
	07/30/92	<2.5	89	170	<5.0	<2.5	<2.5
	04/15/92	<0.3	63	180	<1.8	<0.3	<0.2
	01/10/92	<0.3	90	380	<1.8	<0.3	<0.2
	10/08/91	<5	65	310	<5	<5	<5
	07/25/91	<5	140	470	<5	<5	<5
	04/25/91	<5	190	970	<5	5	<5
	01/24/91	2	<5	10	100	<5	240
	07/13/90	1.43	252	538	14.4	<1	<1
	05/08/89	<1	<1	32	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-5B	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-6B	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	2	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-7B	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/24/91	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-8	01/22/93	<50	240	1,200	<100	<50	<50
	01/22/93[1]	<25	410	1,100	<50	<25	<25
	10/21/92	<50	3,700	240	<100	<50	<50
	07/30/92	<5.0	1,300	87	<10	<5.0	<5.0
	04/15/92	0.45	1,700	59	<1.8	<0.3	<0.2
	01/08/92	<0.3	400	<1	<1.8	<0.3	<0.2
	10/08/91	<1	190	6	<1	<1	<1
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	8	<1	<1	<1	<1
	05/08/89	<1	21	<1	<1	<1	<1
	04/14/89	<1	4	<1	<1	<1	<1
MW-9	01/22/93	<50	110	2,400	<100	<50	<50
	10/21/92	<50	2,900	1,700	<100	<50	<50
	07/30/92	<500	6,700	<500	<1,000	<500	<500
	04/16/92	2.4	6,600	110	<1.8	<0.3	<0.20
	01/08/92	<0.3	3,700	110	<1.8	<0.3	<0.2
	10/08/91	<25	620	<25	<25	<25	<25
	07/25/91	<25	620	<25	<25	<25	<25
	04/25/91	<1	1,600	26	<1	<1	<1
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	1	<1	<1	<1	<1
	05/08/89	<1	4	<1	<1	<1	<1
	04/14/89	<1	4	<1	<1	<1	<1
MW-10	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	04/14/89	<1	2	<1	<1	<1	<1

[1]*Duplicate*

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-11	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	04/14/89	<1	<1	<1	<1	<1	<1
MW-12	01/22/93	<10	300	18	<20	<10	<10
	10/21/92	<2.5	1,300	<2.5	<5.0	<2.5	<2.5
	07/30/92	<2.5	870	8.6	<5.0	<2.5	<2.5
	04/15/92	<0.30	160	11	<4.0	<0.3	<0.20
	01/08/92	<0.3	340	25	<1.8	<0.3	<0.2
	10/08/91	<25	570	<25	<25	<25	<25
	07/25/91	<25	1,500	<25	<25	<25	<25
	04/25/91	4	770	38	<5	2	<5
	01/25/91	<5	330	<5	<5	2	<5
	07/13/90	1.40	566	39.1	<1	1.84	<1
	02/16/90	<1	1,400	30	<1	<1	<1
MW-13	01/22/93	<5.0	230	<5.0	<10	<5.0	<5.0
	10/21/92	<5.0	190	<5.0	<10	<5.0	<5.0
	07/30/92	<50	2,100	<50	<100	<50	<50
	04/17/92	0.52	200	8.4	<1.8	1.0	<0.20
	01/08/92	<0.3	19,000	130	<1.8	<0.3	<0.2
	10/08/91	<1	200	27	<1	<1	<1
	01/25/91	<1	74	<1	<1	<1	<1
	07/13/90	<1	1.70	26.4	7.21	<1	<1
	02/16/90	<1	180	2	<1	<1	<1
MW-15B	01/21/93	<0.50	7.0	0.67	<1.0	<0.50	<0.50
	10/21/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	<0.50	12	<1.0	<0.50	<0.50
	04/15/92	<0.30	<1.2	<1.0	<1.8	<0.30	<0.20
	01/10/92	<0.30	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/11/90	<1	5.05	<1	<1	<1	<1
MW-17B	01/21/93	<0.50	8.5	<0.50	<1.0	<0.50	<0.50
	10/28/92	<50	530	<50	<100	<50	<50
	07/30/92	<5.0	1000	29	<10	<5.0	<5.0
	01/10/92	<0.3	980	58	<1.8	<0.3	<0.2
	10/08/91	<10	710	30	<10	<10	<10
	07/25/91	<10	1,800	33	<10	<10	<10
	04/25/91	<25	600	<25	<25	<25	<25
	01/24/91	<25	900	<25	<25	<25	<25
	07/11/90	25.1	12,600	6.06	<1	<1	<1

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-18B	01/22/93	<50	2,000	71	<100	<50	<50
	10/21/92	<50	1,700	<50	<100	<50	<50
	07/30/92	6.9	1,400	33	<10	<5.0	<5.0
	07/30/92	<20	1,100	<20	<40	<10	<10
	04/16/92	4.5	680	33	<4.0	<0.30	<0.20
	01/09/92	15	1,300	88	<1.8	<0.3	<0.2
	10/08/91	190	5,900	<100	<100	<100	<100
	07/25/91	<100	2,000	<100	<100	<100	<100
	04/25/91	<100	5,700	<100	<100	<100	<100
	01/25/91	<100	5,000	<100	<100	<100	<100
	07/11/90	226	48,500	<1	<1	<1	<1
MW-18B1	01/22/93	<250	6,900	<250	<500	<250	<250
	10/21/92	<500	6,400	<500	<1,000	<500	<500
	07/30/92	<500	7,300	<500	<1,000	<500	<500
	04/16/92	56	3,400	62	<1.8	<0.3	<0.2
	01/09/92	53	5,500	100	<1.8	<0.3	<0.2
	10/08/91	100	2,000	140	<10	<10	<10
MW-18B2	01/22/93	<50	1,100	<50	<100	<50	<50
	10/21/92	<500	20,000	<500	<1,000	<500	<500
	07/30/92	<0.50	17,000	<0.50	<1.0	<0.50	<0.50
	04/16/92	9.7	480	<1	<4.0	<0.3	<0.2
	01/10/92	51	2,600	<1	<1.8	<0.3	<0.2
	10/08/91	50	1,600	<10	<10	<10	<10
MW-20B	01/22/93	<0.50	4.4	<0.50	<1.0	<0.50	<0.50
	10/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/13/92	<0.3	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
MW-21B	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/24/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

A-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-4A	01/21/93	<0.50	1.3	<0.50	<1.0	<0.50	<0.50
	10/22/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	12	<0.50	<1.0	<0.50	<0.50
	04/15/92	<0.3	<1.2	<1	<1.8	1.2	<0.2
	01/10/92	<0.3	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	9	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	5.79	1.70	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	03/06/90	4	260	2	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-5A	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	3.49	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	2	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-6A	07/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-7A	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/24/91	<1	<1	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-14A	01/21/93	<500	10,000	<500	<1,000	<500	<500
	10/22/92	<500	32,000	<500	<1,000	<500	<500
	07/30/92	<500	20,000	1,100	<1,000	560	<500
	04/17/92	290	25,000	200	<1.8	<0.30	<0.20
	01/13/92	1,900	160,000	120	<1.8	<0.3	<0.2
	10/08/91	370	4,800	50	<25	<25	<25
	07/25/91	160	15,000	64	<25	<25	<25
	04/25/91	<100	1,200	<100	<100	<100	<100
	01/24/91	<25	7,400	<25	<25	<25	<25
	07/11/90	133	22,000	<1	<1	<1	<1

A-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-15A	01/21/93	<0.50	14	9.0	<1.0	<0.50	<0.50
	10/22/92	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	3.5	<0.50	<1.0	<0.50	<0.50
	04/20/92	<0.3	<0.90	<1	<1.8	<0.30	<0.20
	01/10/92	<0.3	22	<1	<1.8	<0.3	<0.2
	10/08/91	<1	1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/11/90	<1	5.39	<1	<1	<1	<1
MW-16A	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	18.4	<1	<1	<1	<1
MW-17A	01/21/93	<0.50	6.4	<0.50	<1.0	<0.50	<0.50
	10/28/92	<0.50	0.66	<0.50	<1.0	<0.50	<0.50
	07/28/92	<0.50	1.9	<0.50	<1.0	<0.50	<0.50
	01/10/92	<0.3	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	1	<1	<1	<1	<1
	04/25/91	<1	1	<1	<1	<1	<1
MW-18A	01/22/93	<500	5,500	<500	<1,000	<500	<500
	10/22/92	<500	6,000	<500	<1,000	<500	<500
	07/30/92	<500	14,000	<500	<1,000	<500	<500
	04/16/92	68	6,200	<1.0	<1.8	<0.30	<0.2
	01/10/92	40	4,800	180	<1.8	<0.3	<0.2
	10/08/91	200	26,000	2,000	<200	<200	<200
	07/25/91	<200	15,000	470	<200	<200	<200
	04/25/91	50	12,000	1,300	<100	<100	<100
	01/25/91	<200	8,000	<200	<200	<200	<200
MW-19A	01/22/93	<5.0	130	29	<10	<5.0	<5.0
	10/22/92	<2.5	240	<2.5	<5.0	<2.5	<2.5
	07/30/92	<2.5	260	7.5	<5.0	<2.5	<2.5
	04/15/92	<0.30	120	12	<4.0	0.55	<0.2
	01/08/92	<0.3	340	14	<1.8	<0.3	<0.2
	10/08/91	<1	180	4	<1	<1	<1
	01/25/91	<2	100	<2	<2	<2	<2
	07/11/90	<1	292	<1	<1	<1	<1

A-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-20A	01/22/93	<5.0	**38**	<5.0	<10	<5.0	<5.0
	10/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/13/92	<0.3	<1.2	<1.0	<1.8	<0.3	<0.2
	10/08/91	<1	**5**	<1	<1	<1	<1
	07/25/91	<1	**7**	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
MW-22A	01/22/93	<0.50	**0.72**	<0.50	<1.0	<0.50	<0.50
	10/22/92	<5.0	**15**	<5.0	<10	<5.0	<5.0
	07/28/92	<0.50	**8.2**	**4.3**	<1.0	<0.50	<0.50
	04/15/92	<0.30	<1.2	<1.0	<1.8	<0.3	<0.2
	01/08/92	<0.3	<1.2	<1.0	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	**6**	<1	<1	<1	<1
	04/25/91	<1	**2**	<1	<1	<1	<1
	01/25/91	<1	**2**	<1	<1	<1	<1
MW-24A	07/29/92	<0.50	**0.79**	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-25A	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-26A	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-27A	07/29/92	<0.50	**1.4**	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

C-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-14C	01/21/93	<50	710	190	<100	<50	<50
	10/22/92	<50	1,800	120	<100	<50	<50
	07/30/92	<5.0	1,100	230	<10	<5.0	<5.0
	07/30/92	<500	670	<500	<1,000	<500	<500
	04/16/92	4.4	1,300	130	<4.0	<0.3	<0.2
	01/13/92	3.0	510	140	<1.8	<0.3	<0.2
	10/08/91	<25	760	<25	<25	<25	<25
	07/25/91	<25	620	<25	<25	<25	<25
	04/25/91	2	880	210	<1	<1	<1
	03/26/91	<1	3	<1	<1	<1	<1
	01/24/91	8	1,130	<25	<25	<25	<25
MW-18C	01/22/93	<50	3,100	64	<100	<50	<50
	10/22/92	<50	3,400	<50	<100	<50	<50
	07/30/92	<500	20,000	<500	<1,000	<500	<500
	04/17/92	2.2	1,900	36	<1.8	<0.3	<0.2
	01/10/92	46	17,000	140	<1.8	<0.3	<0.2
	10/08/91	<5	940	84	<5	<5	<5
	01/25/91	<2	127	<2	<2	<2	<2
MW-23C	01/21/93	<0.50	0.82	<0.50	<1.0	<0.50	<0.50
	01/21/93[1]	<0.50	0.76	<0.50	<1.0	<0.50	<0.50
	10/22/92	<0.50	3.8	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	1.1	<0.50	<1.0	<0.50	<0.50
	04/15/92	0.46	<1.2	<1.0	<1.8	<0.3	<0.20
	01/13/92	<0.3	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

[1] *Duplicate*

D-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-2D	07/29/92	0.92	2.8	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-5D	01/21/93	<5.0	42	<5.0	<10	<5.0	<5.0
	10/22/92	<5.0	11	<5.0	<10	<5.0	<5.0
	07/29/92	0.97	27	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-14D	01/21/93[1]	<0.50	1.1	<0.50	<1.0	<0.50	<0.50
	10/22/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	<0.50	27	<1.0	<0.50	<0.50
	04/15/92	<0.3	4.3	<1	<1.8	<0.30	<0.2
	01/13/92	<0.3	4.2	<1	<1.8	<0.3	<0.2
	01/13/92	<0.3	<1.3	<1	<1.8	<0.3	<0.2
	10/08/91	<1	3	<1	<1	<1	<1
	07/25/91	<1	54	<1	<1	<1	<1
	04/25/91	<1	3	<1	<1	<1	<1
MW-18D	01/22/93	<5.0	54	<5.0	<10	<5.0	<5.0
	10/22/92	<5.0	81	<5.0	<10	<5.0	<5.0
	08/05/92	<5.0	410	<5.0	<10	<5.0	<5.0
	04/16/92	4.1	300	1.2	<4.0	<0.3	<0.2
	02/20/92	<2	590	<1	<1.8	<0.3	<0.2
	02/20/92	<2	540	<1	<1.8	<0.3	<0.2
MW-28D	01/22/93[2]	<0.50	13	<0.50	<1.0	<0.50	<0.50
	01/22/93[3]	<0.50	10	<0.50	<1.0	<0.50	<0.50
	10/22/92	<5.0	31	<5.0	<10	<5.0	<5.0
	10/22/92	0.98	35	<0.50	<0.50	<0.50	<0.50
	08/26/92	<0.5	<0.5	1.0	<1.0	<0.5	<0.5
MW-29D	01/22/93	<0.50	4.5	<0.50	<1.0	<0.50	<0.50
	10/22/92	<0.50	2.5	<0.50	<1.0	<0.50	<0.50
	08/26/92	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

[1] *0.88 µg/L Bromodichloromethane, 1.5 µg/L Chloroform (suspect laboratory contamination)*

[2] *0.60 µg/L Carbon Tetrachloride (suspect laboratory contamination)*

[3] *Duplicate*

APPENDIX F

GROUNDWATER ELEVATIONS

SUMMARY OF GROUNDWATER ELEVATIONS
(January 20, 1993)

MONITORING WELL	PARAMETERS Based on Mean Sea Level (ft)		
	Elevation of Datum	Depth to Groundwater	Elevation of Groundwater
MW-1	661.15	20.44	640.71
MW-2	661.32	17.76	643.56
MW-2D	660.53	51.35	609.18
MW-3	661.43	16.36	645.07
MW-4A	660.55	44.07	616.48
MW-4B	660.68	18.86	641.82
MW-5A	657.40	22.18	635.22
MW-5B	657.11	15.57	641.54
MW-5D	657.53	46.84	610.69
MW-6A	660.71	DRY	DRY
MW-6B	660.82	14.94	645.88
MW-7A	658.01	31.16	626.85
MW-7B	657.99	18.55	639.44
MW-8	658.41	19.09	639.32
MW-9	658.31	19.38	638.93
MW-10	658.26	19.05	639.21
MW-11	658.16	19.05	639.11
MW-12	658.40	18.65	639.75
MW-13	658.42	19.05	639.37
MW-14A	657.18	40.84	616.34
MW-14C	654.73	55.68	599.05
MW-14D	653.58	44.78	608.80
MW-15A	656.87	23.94	632.93
MW-15B	656.89	14.68	642.21

Continued on following page

SUMMARY OF GROUNDWATER ELEVATIONS
(January 20, 1993)

MONITORING WELL	PARAMETERS Based on Mean Sea Level (ft)		
	Elevation of Datum	Depth to Groundwater	Elevation of Groundwater
MW-16A	660.90	44.04	616.86
MW-17A	658.10	40.64	617.46
MW-17B	657.54	16.86	640.68
MW-18A	657.65	45.34	612.31
MW-18B	657.33	17.87	639.46
MW-18B1	657.10	17.98	639.12
MW-18B2	657.51	18.33	639.18
MW-18C	657.53	63.71	593.82
MW-18D[1]	657.09	90.00	567.09
MW-19A	658.20	35.83	622.37
MW-20A	657.41	37.34	620.07
MW-20B	657.32	15.66	641.66
MW-21B	657.94	27.48	630.46
MW-22A	657.78	23.68	634.10
MW-23C	657.25	50.05	607.20
MW-24A	657.41	21.20	636.21
MW-25A	656.54	19.43	637.11
MW-26A	656.67	22.22	634.45
MW-27A	661.09	41.86	619.23
MW-28D	657.67	50.42	607.25
MW-29D	657.83	48.56	609.27

[1]Currently operating as an extraction well. Groudwater depth and elevation are assumed based on screened depth of MW-18D.

APPENDIX G

GROUNDWATER RECOVERY WELL CONSTRUCTION DATA

GROUNDWATER RECOVERY (PURGE) WELLS

Well Number	Date Installed	Date Operation Begun	Designation	Well Diameter (inches)	Well Depth (ft bgs)	Screened Interval (ft bgs)
PW-1	8/89	2/91	B	4	30	15-30
PW-2	9/89	2/91	B	4	30	15-30
PW-3	9/89	2/91	B	4	30	15-30
PW-4	9/89	2/91	B	4	30	15-30
PW-5	9/89	2/91	B	4	30	15-30
PW-6	9/89	2/91	B	4	30	15-30
PW-7	9/89	2/91	B	4	30	15-30
PW-8	9/89	2/91	B	4	30	15-30
PW-9	9/89	2/91	B	4	30	15-30
PW-10	12/90	1/91	A,B	4	85	10-30, 35-65
PW-11	12/90	1/91	A,B	4	85	10-30, 35-65
PW-12	12/90	1/91	A,B	4	85	10-30 35-60
PW-13	7/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-14	7/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-15	6/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-16	6/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-17	7/91	9/91	A,B,C	4	73	3-28, 33-48, 53-63
PW-18	7/91	9/91	A,B,C	4	73	3-28, 33-48, 53-63
PW-19	6/91	9/91	B	4	35.25	5.25-35.25
PW-20	6/91	9/91	B	4	35.25	5-35.25
PW-21	7/91	9/91	B	4	25	5-25
MW-18D	1/92	4/92	D	2	96	91-96

APPENDIX H

NPDES SAMPLING RESULTS

(EPA SW-846 Method 8010)

SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

Sample Location	Sample Date	Parameters						
		PCE	TCE	1,1-DCE	cis-1,2-DCE	VC	1,1,1-TCA	1,1,2-TCA
Influent	12/28/90	<25	0	<25	*	<25	<25	<25
	01/04/91	<5	460	16	*	<5	<5	<5
	01/09/91	<5	340	<5	*	<5	<5	<5
	01/18/91	<1	300	<1	*	<1	<1	<1
	01/23/91	3	330	<5	*	<5	<5	<5
	02/01/91	<5	430	<5	*	<5	<5	<5
	02/06/91	<10	1,100	<10	*	<10	<10	<10
	02/21/91	40	1,400	<10	*	<10	8	<10
	03/06/91	<5	110	<5	<5	<5	<5	<5
	04/02/91	<5	680	<5	19	<5	<5	<5
	06/04/91	<5	370	<5	<5	<5	<5	<5
	07/01/91	<1	150	<1	<1	<1	<1	<1
	07/30/91	<10	5,400	<10	32	<10	<10	<10
	09/03/91	<3	75	<10	<10	<10	<3	<10
	10/24/91	<0.3	8,600	<100	<100	<100	<0.3	<100
	11/06/91	<0.3	7,100	<100	150	<100	<0.3	<100
	12/03/91	<30	15,000	<100	320	<100	<100	<100
	01/07/92	230	9,300	<100	290	<100	<30	<100
	02/05/92	480	23,000	<250	<250	<250	<75	<250
	03/03/92	140	19,000	<250	<250	<250	<75	<250
	04/10/92	480	28,000	<250	350	<250	<250	<75
	05/06/92	110	1,100	<10	<10	<10	7	<10
	06/04/92	<3	190	<10	20	<10	10	<10
	06/11/92	230	410	27	340	<10	<3	<10
	06/25/92	62	1,100	<10	330	<10	<3	<10
	07/02/92	<50	9,800	<50	40	<100	<50	<50
	08/05/92	<5,000	150,000	<5,000	<5,000	<10,000	<5,000	<5,000
	09/03/92	<5	2,200	<5	<5	<10	<5	<5
	10/08/92	<50	19,000	<50	370	<100	<50	<50
	11/30/92	<500	9,000	<500	<500	<1,000	<500	<500
	12/08/92	<500	5,900	<500	<500	<1,000	<500	<500
	01/12/93	<1,000	20,000	<1,000	<1,000	<2,000	<1,000	<1,000
	02/04/93	<1,000	12,000	<1,000	<1,000	<2,000	<1,000	<1,000
	03/04/93	<250	5,100	<250	<250	<500	<250	<250
	04/01/93	<500	8,400	<500	<500	<1,000	<500	<500

*Results not included in laboratory reports.

PCE	=	Tetrachloroethylene
TCE	=	Trichloroethylene
1,1-DCE	=	1,1-Dichloroethylene
cis-1,2-DCE	=	cis-1,2-Dichloroethylene
VC	=	Vinyl Chloride
1,1,1-TCA	=	1,1,1-Trichloroethane
1,1,2-TCA	=	1,1,2-Trichloroethane

SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

Sample Location	Sample Date	Parameters						
		PCE	TCE	1,1-DCE	cis-1,2-DCE	VC	1,1,1-TCA	1,1,2-TCA
Between	12/28/90	<1	18	<1	*	<1	<1	<1
	01/04/91	<1	26	<1	*	<1	<1	<1
	01/09/91	<1	3	<1	*	<1	<1	<1
	01/18/91	<1	7	<1	*	<1	<1	<1
	01/23/91	<1	22	<1	*	<1	<1	<1
	02/01/91	<1	12	<1	*	<1	<1	<1
	02/06/91	<1	9	<1	*	<1	<1	<1
	02/21/91	0.3	<1	<1	*	<1	<0.3	<1
	03/06/91	<1	<1	<1	<1	<1	<1	<1
	04/02/91	<1	<1	<1	<1	<1	<1	<1
	06/04/91	<1	<1	<1	<1	<1	<1	<1
	07/01/91	<1	<1	<1	<1	<1	<1	<1
	07/30/91	<1	<1	<1	<1	<1	<1	<1
	09/03/91	<0.3	<1	<1	<1	<1	<0.3	<1
	10/24/91	0.4	150	<1	5	<1	<0.3	<1
	11/06/91	<0.3	85	<1	<1	<1	<0.3	<1
	12/03/91	<0.3	40	<1	2	<1	<0.3	<1
	01/07/92	<1	1	<1	<1	<1	<1	<1
	02/05/92	<0.3	29	<1	<1	<1	0.9	<1
	03/03/92	<0.3	4	<1	<1	<1	<0.3	<1
	04/10/92	13	102	<1	69	<1	<0.3	<1
	05/06/92	<0.3	3	<1	<1	<1	<0.3	<1
	06/04/92	<0.3	<1	<1	61	<1	<0.3	<1
	06/11/92	<0.3	77	3	39	<1	<0.3	<1
	06/25/92	0.8	110	<1	65	<1	<0.3	<1
	07/02/92	<50	1,600	<50	93	<100	<50	<50
	08/05/92	<50	810	<50	<50	<100	<50	<50
	09/03/92	<50	110	<50	7.0	<100	<50	<50
	10/08/92	<5.0	140	<5.0	6.2	<10	<5.0	<5.0
	11/30/92	<10	31	<10	<10	<20	<10	<10
	12/08/92	<50	59	<50	<50	<100	<50	<50
	01/12/93	<5.0	79	<5.0	<5.0	<10	<5.0	<5.0
	02/04/93	<0.50	14	<0.50	<0.50	2.3	<0.50	<0.50
	03/04/93	<2.5	25	<2.5	<2.5	<5.0	<2.5	<2.5
	04/01/93	<0.50	90	<0.50	<0.50	<1.0	<0.50	<0.50

*Results not included in laboratory reports.

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

Sample Location	Sample Date	Parameters						
		PCE	TCE	1,1-DCE	cis-1,2-DCE	VC	1,1,1-TCA	1,1,2-TCA
Effluent	12/28/90	<1	5	<1	*	<1	<1	<1
	01/04/91	1	49	<1	*	<1	<1	<1
	01/09/91	<1	2	<1	*	<1	<1	<1
	01/18/91	<1	3	<1	*	<1	<1	<1
	01/23/91	<1	8	<1	*	<1	<1	<1
	02/01/91	<1	2	<1	*	<1	<1	<1
	02/06/91	<1	2	<1	*	<1	<1	<1
	02/21/91	<0.3	<1	<1	*	<1	<0.3	<1
	03/06/91	<1	<1	<1	<1	<1	<1	<1
	04/02/91	<1	<1	<1	<1	<1	<1	<1
	06/04/91	<1	<1	<1	<1	<1	<1	<1
	07/01/91	<1	<1	<1	<1	<1	<1	<1
	07/30/91	<1	<1	<1	<1	<1	<1	<1
	09/03/91	<0.3	<1	<1	<1	<1	<0.3	<1
	10/24/91	<0.3	<1	<1	<1	<1	<0.3	<1
	11/06/91	<0.3	<1	<1	<1	<1	<0.3	<1
	12/03/91	<0.3	41	<1	<1	<1	<1	<1
	01/07/92	<1	5	<1	<1	<1	<1	<1
	02/05/92	<0.3	6	<1	<1	<1	<0.3	<1
	03/03/92	<0.3	<1	<1	<1	<1	<0.3	<1
	04/10/92	<0.3	88	<1	<1	<1	<0.3	<1
	05/06/92	<0.3	<1	<1	<1	<1	<0.3	<1
	06/04/92	<0.3	3	<1	<1	<1	<0.3	<1
	06/11/92	<0.3	2	<1	<1	<1	<0.3	<1
	06/11/92	<0.3	3	<1	<1	<1	<0.3	<1
	06/25/92	<0.3	1	1	2	<1	<0.3	1
	06/25/92	<0.3	<1	<1	<1	<1	<0.3	<1
	07/02/92	<0.50	6.2	<0.50	5.5	<1.0	<0.50	<0.50
	08/05/92	<0.50	43	<0.50	<0.50	<1.0	<0.50	<0.50
	09/03/92	<1	12	<0.5	<0.5	<1	<0.5	<0.5
	10/08/92	<0.50	3.5	<0.50	<0.50	<1.0	<0.50	<0.50
	11/30/92	<50	450	<50	<50	<100	<50	<50
	12/08/92	<0.50	170	<0.50	17	<1.0	<0.50	<0.50
	01/12/93	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	02/04/93	<0.50	2.0	<0.50	<0.50	<1.0	<0.50	<0.50
	03/04/93	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	04/01/93	<0.50	3.1	<0.50	<0.50	<1.0	<0.50	<0.50

*Results not included in laboratory reports.

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

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ENVIRONMENTAL ENGINEERS

TELEPHONE (708) 498-6910
FAX (708) 498-6911

ONE NORTHBROOK PLACE
5 REVERE DRIVE, SUITE 310
NORTHBROOK, ILLINOIS 60062

TAMPA, FLORIDA

LOS ANGELES, CALIFORNIA

QUARTERLY GROUNDWATER MONITORING AND GROUNDWATER REMEDIATION PROGRESS REPORT IPM COMPANY SITE ILD085352474/RCRA CLOSURE

KEARNEY-NATIONAL, INC.
IPM COMPANY SITE
DES PLAINES, ILLINOIS
DAI Project No. 6330

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PERMIT SECTION

Prepared for: Illinois Environmental Protection Agency

Prepared by: DePaul & Associates, Inc.

Date: January 22, 1993

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(continued)

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1.0 INTRODUCTION

1.1 BACKGROUND

International Products and Manufacturing Company (IPM) maintained an underground spill containment tank and chemical storage room at a facility in Des Plaines, Illinois. In September 1988, IPM engaged the services of ASI Environmental Technologies (ASI) to remove the underground spill containment tank. During the tank excavation, volatile organic compound (VOC) contamination, principally trichloroethylene (TCE), was identified in the surrounding soils and groundwater. IPM further engaged ASI to conduct a subsurface remedial investigation, prepare a closure plan, and implement corrective actions in accordance with Resource Conservation and Recovery Act (RCRA) regulations as required by the Illinois Environmental Protection Agency (IEPA). The results of the remedial investigation and the design of the soil and groundwater remediation system were presented to IEPA by ASI. As part of the containment tank closure plan, ASI installed a groundwater remediation system at the site. A site plan of the IPM facility is provided in Figure 1. Site-specific groundwater cleanup objective levels were set by IEPA in the closure plan approval letter dated November 30, 1992 and are presented in Table 1.

TABLE 1. GROUNDWATER CLEANUP OBJECTIVE LEVELS (μg/L)

CONTAMINANT	CLEANUP OBJECTIVE LEVEL	CONTAMINANT	CLEANUP OBJECTIVE LEVEL
Trichloroethylene	25.0	1,1,1,2-Tetrachloroethane	210.0
Tetrachloroethylene	25.0	1,1,2-Trichloroethane	25.0
trans-1,2-Dichloroethylene	500.0	1,1,1-Trichloroethane	1,000.0
cis-1,2-Dichloroethylene	200.0	Xylenes (total)	10,000.0
Vinyl Chloride	10.0	Ethylbenzene	1,000.0
Carbon Tetrachloride	25.0	Toluene	5,000.0

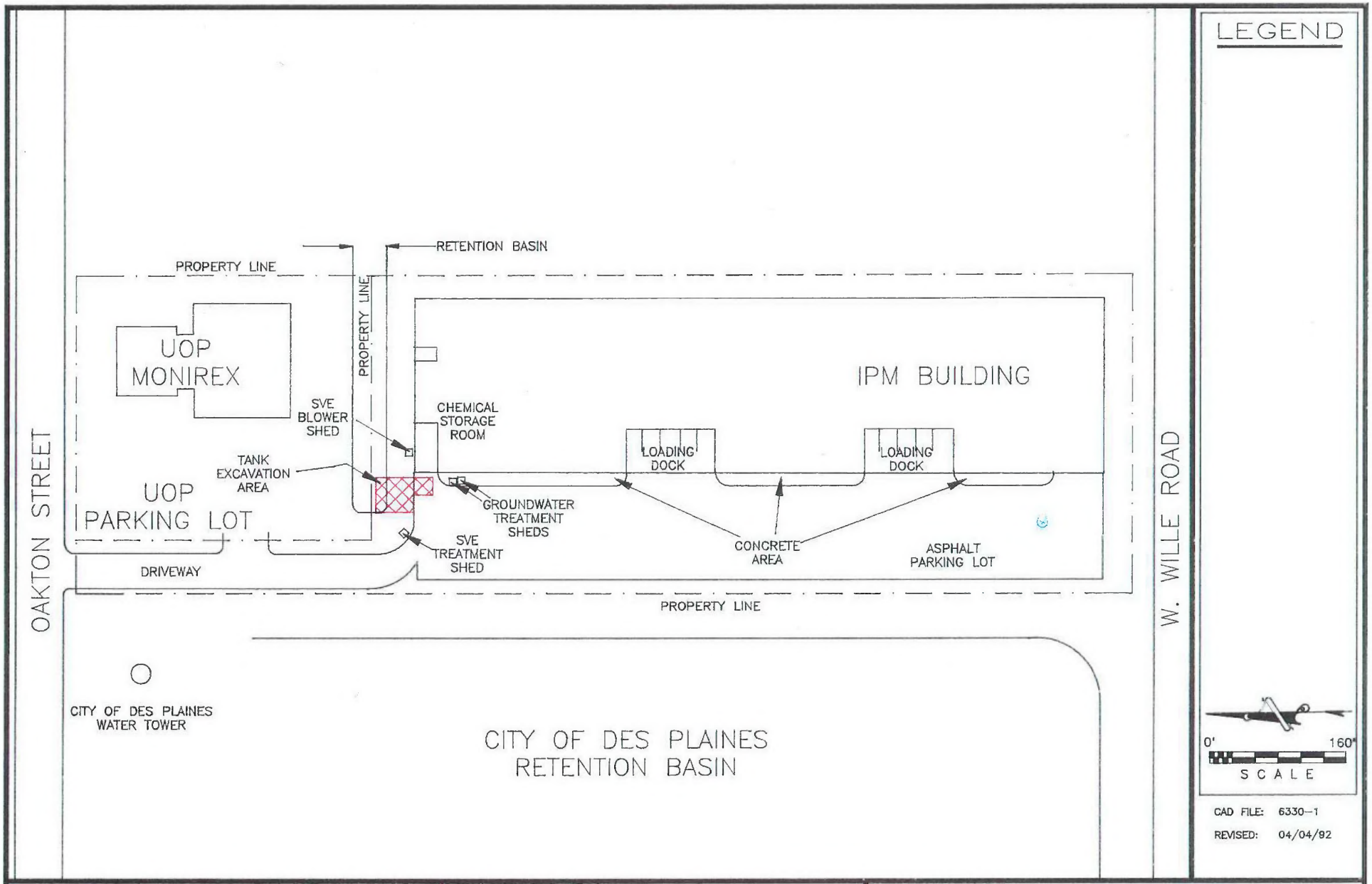

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FIGURE 1
SITE PLAN

IPM has ceased operations at the Des Plaines site and vacated the premises. Kearney-National Inc., the parent company of IPM and current property owner, has assumed responsibility for the remediation and has engaged DePaul & Associates, Inc. (DAI) to supervise the deferred clean closure activities at the site, and to complete the site closure and post-closure activities.

1.2 QUARTERLY REPORTING REQUIREMENTS AND OBJECTIVES

In the closure plan approval letter dated November 30, 1992, the IEPA required that quarterly progress reports be submitted. "Each quarterly progress report shall contain an assessment of the effectiveness of the corrective action program to reduce groundwater contaminant concentration and prevent further migration of the contaminant plume(s). At a minimum, these reports should include an assessment of the extent of groundwater contamination and the rate of plum migration (spreading or shrinking)."

This quarterly progress report is being submitted to comply with the IEPA requirement for quarterly reports on the progress of the groundwater corrective action. The objectives of this quarterly progress report are as follows:

- Summarize the most recent groundwater monitoring results, and compare them to the previous quarter results,
- Summarize the operation of the groundwater extraction system, and
- Provide a current assessment of the effectiveness of the groundwater corrective actions.

2.0 GROUNDWATER MONITORING AND REMEDIATION SYSTEM

2.1 GROUNDWATER MONITORING SYSTEM

2.1.1 Groundwater Monitoring Wells: To determine the extent of groundwater contamination, ASI installed forty-two (42) groundwater monitoring wells in the area surrounding the former spill containment tank. ASI interpreted the subsurface stratigraphy

to consist of three distinct hydrogeological units. These units were described as the Upper Formation, the Lower Formation, and the Fractured Limestone Formation (bedrock). Monitoring wells were screened at variable depths to determine the extent of contamination in each unit. Based on the depths of the monitoring well screened intervals, four monitoring well zones were designated by ASI. Table 2 summarizes the monitoring well designations and the typical screened interval for each monitoring well zone. A summary of well construction information for all monitoring wells is provides in Appendix A. Figure 2 provides a cross-sectional view of representative monitoring wells from each of the four monitoring well designations. The location of all monitoring wells is provides in Figure 3.

TABLE 2. GROUNDWATER MONITORING WELLS

ASI Monitoring Well Designation	Typical Screened Interval (ft bgs)
B-Zone	15-25
A-Zone	45-50
C-Zone	60-70
D-Zone	90-95

In the closure plan approval letter dated June 26, 1991 (revised July 10, 1991), the IEPA requested that additional deep monitoring wells be installed to determine the extent of groundwater contamination in the fractured limestone. In response to this request, three additional D-Zone monitoring wells were installed under the supervision of DAI. Monitoring well MW-18D was completed on January 28, 1992, and monitoring wells MW-28D and MW-29D were completed on August 21, 1992. A discussion of the well installation methods for MW-18D was presented in the *Quarterly Groundwater Monitoring and Remediation Progress Report* prepared by DAI and submitted to IEPA on April 15, 1992, and a discussion of the well installation methods for MW-28D and MW-29D was presented in the *Quarterly Groundwater Monitoring and Remediation Progress Report* prepared by DAI and submitted to IEPA on October 8, 1992. Well construction and soil boring logs for the

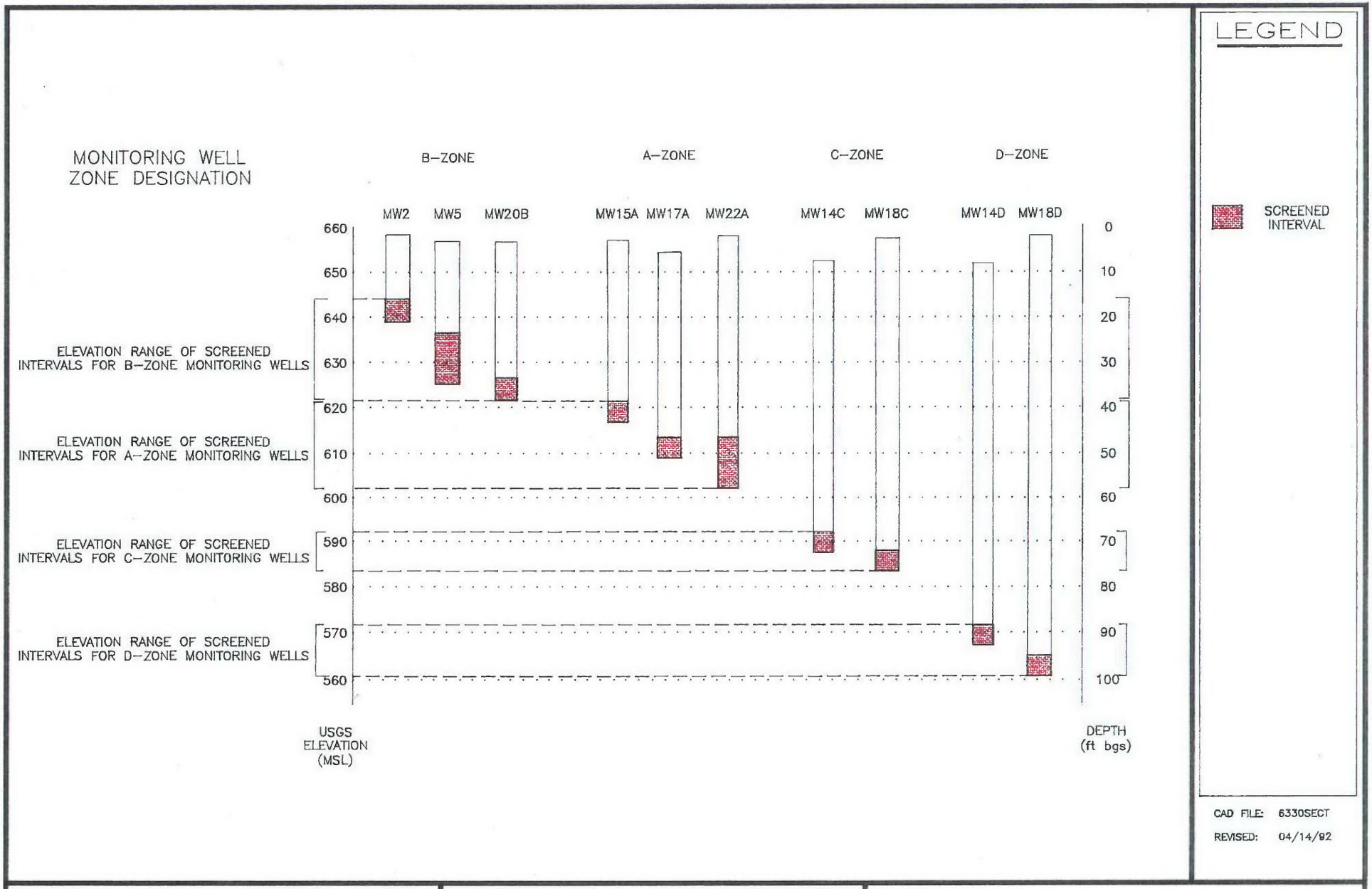

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FIGURE 2
CROSS SECTIONAL VIEW OF
SELECTED MONITORING WELLS

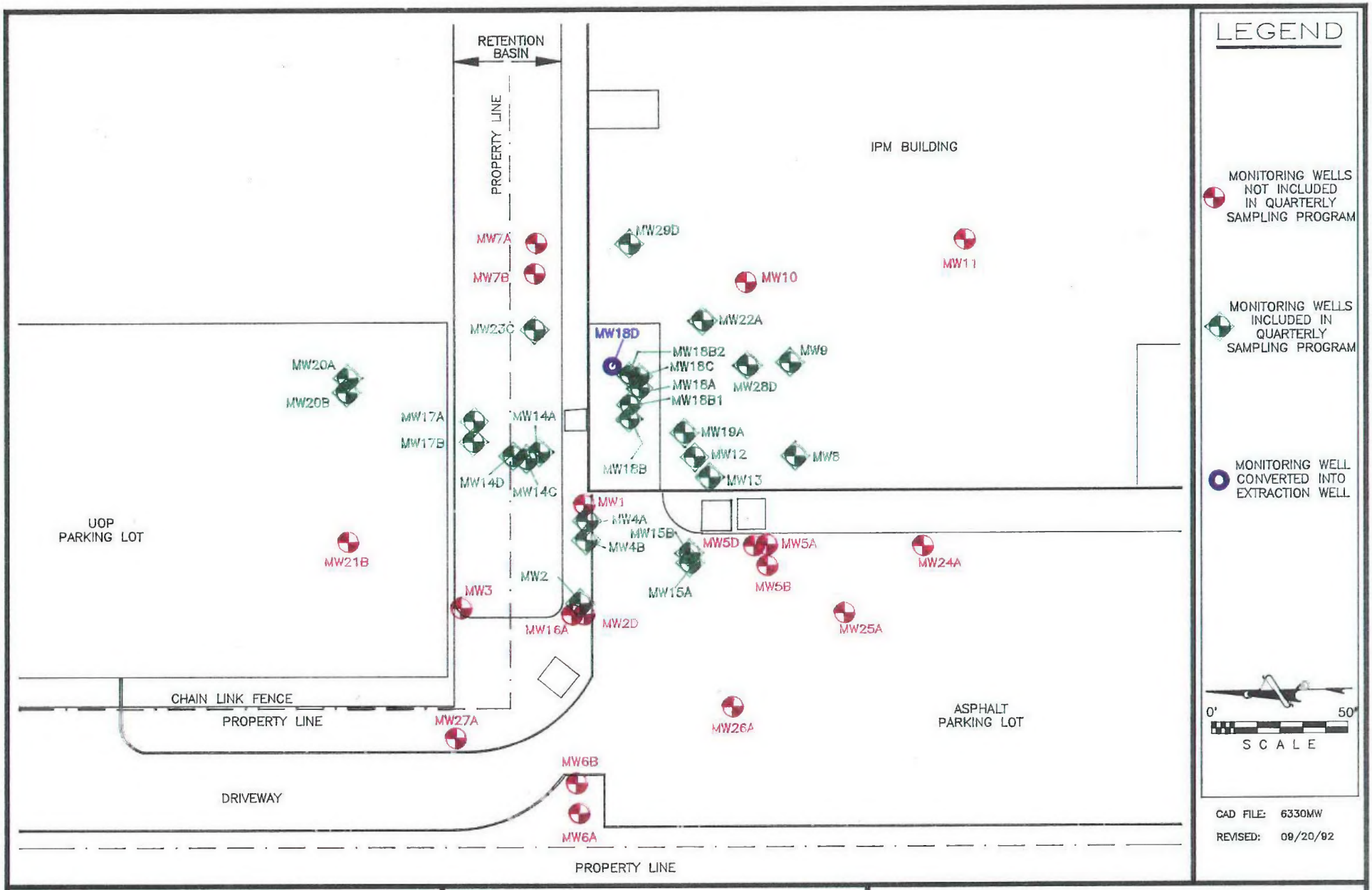

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FIGURE 3
MONITORING WELL LOCATIONS

monitoring wells MW-28D and MW-29D were included in the *Hydrogeological Characterization/Groundwater Classification* report prepared by DAI and submitted to IEPA on September 8, 1992. Installation of a fractured limestone bedrock monitoring well (MW-18E) is planned to begin on February 1, 1993.

2.1.2 Groundwater Sampling: The approved groundwater monitoring program specifies quarterly groundwater sampling and analysis from selected monitoring wells, and annual sampling and analysis from each of the monitoring wells. In the closure plan approval letter dated November 30, 1992, the IEPA required that twenty-six (26) of the monitoring wells be sampled on a quarterly basis and analyzed for groundwater contaminants using EPA SW-846 Methods 8010. The monitoring wells included in the quarterly groundwater sampling program are listed in Table 3.

TABLE 3. QUARTERLY GROUNDWATER SAMPLING PROGRAM

WATER-BEARING ZONE				
Upper		Lower		D-Zone
MW-2 MW-4B MW-8 MW-9 MW-12 MW-13	MW-15B MW-17B MW-18B MW-18B1 MW-18B2 MW-20B	MW-4A MW-14A MW-15A MW-17A MW-18A MW-19A	MW-20A MW-22A MW-14C MW-18C MW-23C	MW-14D MW-28D MW-29D

Groundwater samples from monitoring wells included in the quarterly groundwater sampling program were collected by DAI between October 21, 1992, and October 28, 1992. All groundwater samples were submitted to Great Lakes Analytical Laboratory of Buffalo Grove, Illinois, for laboratory analysis of Halogenated Volatile Organics using EPA SW-846 Method 8010. The IEPA Chemical Analysis Forms summarizing the results of the most recent groundwater sample analyses are provided in Appendix B and copies of the laboratory reports are included in Appendix C. Tables summarizing the results of all

groundwater sampling and analysis by SW-846 Method 8010, including the results of the October 1992 sampling event, are provided in Appendix D.

Static water level measurements were taken from each of the monitoring wells on November 2, 1992, with the exception of MW-18D, which is being used as a groundwater extraction well. Static water level measurements were made using an electronic water level indicator. The static water level elevations were calculated from the depth to static water measurements and the surveyed well casing elevations. A table summarizing the static water level measurements and calculated elevations is provided in Appendix E.

2.2 GROUNDWATER REMEDIATION SYSTEM

2.2.1 Groundwater Recovery Wells: To remediate the contaminated groundwater, ASI designed a multiple well groundwater recovery and treatment system. The system consisted of twenty-one recovery wells and was designed to recover contaminated groundwater to a depth of approximately 75-ft bgs. None of the recovery wells were screened in the D-Zone. Analysis of the groundwater sample collected from MW-18D on February 20, 1992, indicated contamination above the cleanup objective levels in the D-Zone groundwater at this location. Therefore, on March 19, 1992, DAI proposed to IEPA that monitoring well MW-18D be converted to a recovery well. On March 23, 1992, Eric Minder and Geordie Smith of the IEPA gave verbal approval for groundwater extraction from MW-18D. Extraction from MW-18D began on April 22, 1992. The location of the twenty-two (22) groundwater recovery wells are given in Figure 4. A table summarizing the groundwater recovery well construction details is provided in Appendix F.

2.2.2 Groundwater Recovery and Treatment System Design: Groundwater is extracted from the 4-inch diameter recovery wells PW-1 through PW-21 using electrical submersible pumps. A teflon and stainless steel air pneumatic driven bladder pump is used to extract groundwater from MW-18D. The pumps are operated intermittently, because the groundwater recovery yields from the recovery wells are not adequate to allow continuous operation of the extraction pumps. The electric submersible pumps are controlled using

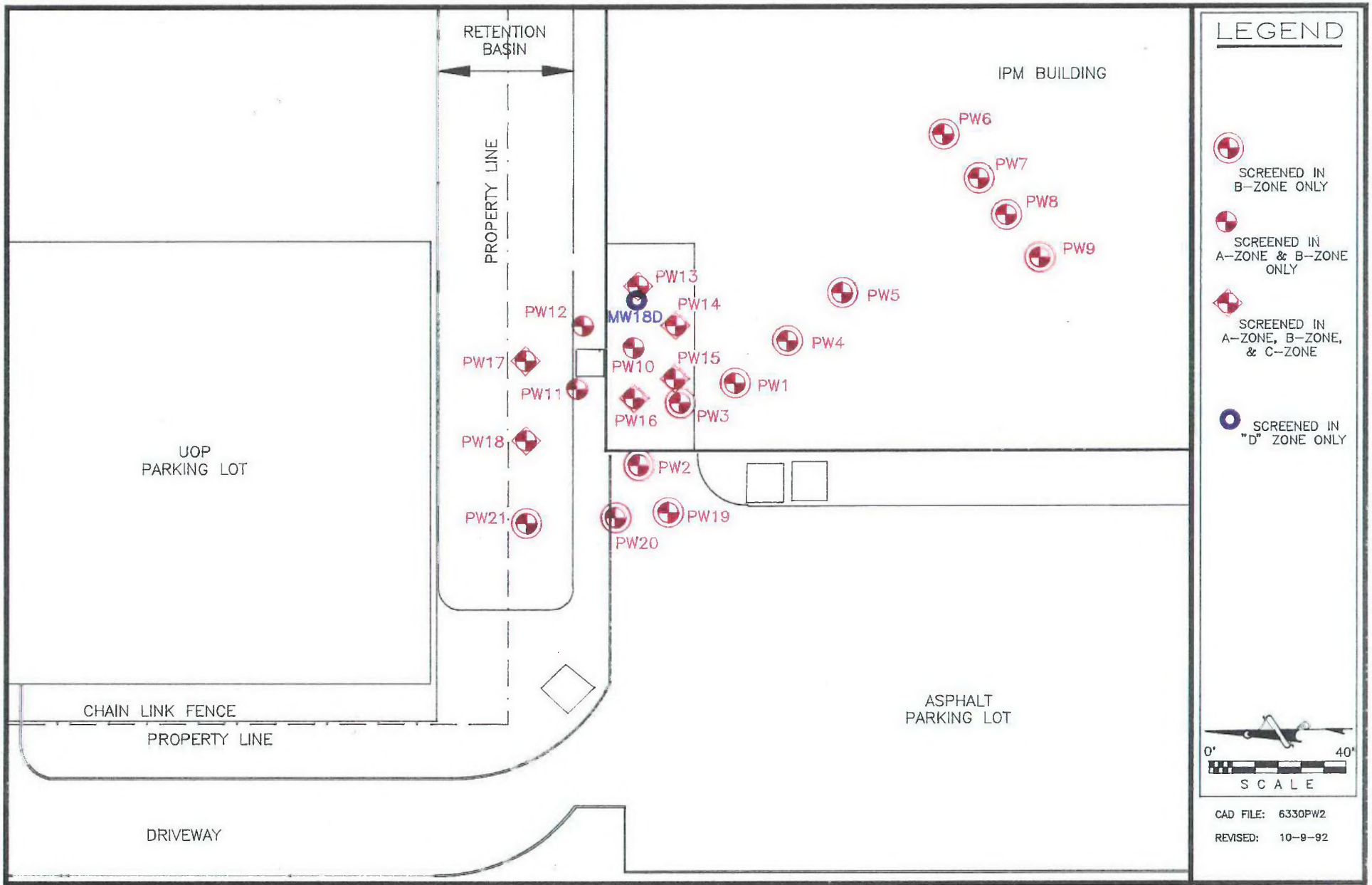

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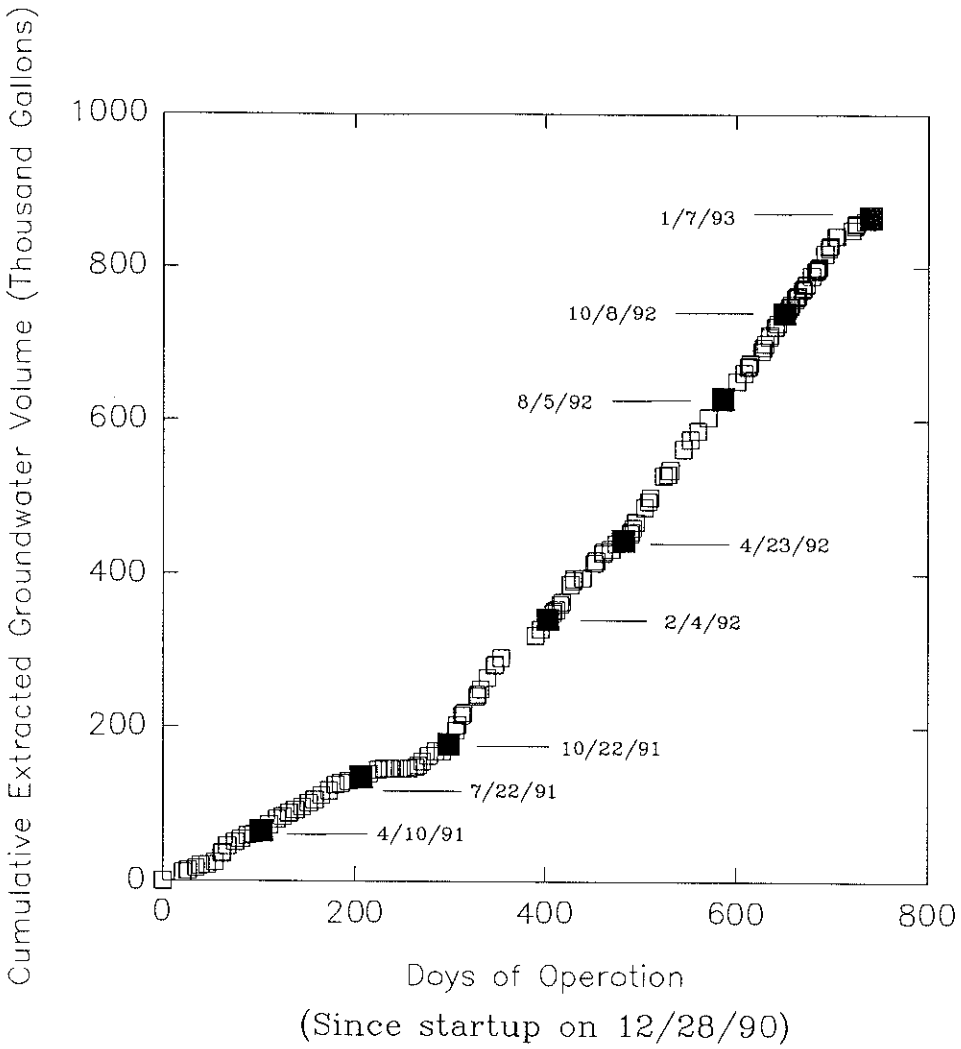
FIGURE 4
GROUNDWATER RECOVERY WELLS

individual load sensors coupled with timers. The load sensor interrupts the pump's power once the extraction well is purged. The pumps are then re-started by a timer located within the pump controller. The air pneumatic pump is controlled by a timer which regulates the period between fill and purge cycles. Run-time meters connected to the electrical pumps record the cumulative operating hours of each electrical submersible pump.

Extracted groundwater from the twenty-two recovery wells is combined in a manifold and routed to granular activated carbon adsorption units for treatment. The activated carbon adsorption system consists of two activated carbon canisters operated in series. The treated groundwater is discharged to the City of Des Plaines storm water retention basin located immediately east of the IPM Company site. A National Pollutant Discharge Elimination System (NPDES) permit for the discharge of the treated groundwater was granted by IEPA in August 1990. The conditions of the NPDES permit require continuous discharge flow monitoring, weekly monitoring of discharge pH, and monthly monitoring of halogenated and aromatic volatile organic compounds using EPA SW-846 Methods 8010 and 8020.

2.2.3 Groundwater Recovery and Treatment System Operation: Operation of the groundwater remediation system was initiated in January 1991 and additional recovery wells were activated in February 1991, September 1991, and April 1992. The groundwater recovery system flowrate has ranged from approximately 300-gpd to 3,000-gpd. The groundwater recovery system is currently (January 1993) extracting approximately 3,000-gpd. Approximately 860,470-gallons of groundwater have been extracted and treated as of December 31, 1992. Figure 5 summarizes the cumulative extracted groundwater volume since start-up in January 1991.



(Since startup on 12/28/90)

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FIGURE 5
CUMULATIVE EXTRACTED
GROUNDWATER VOLUME

To monitor the rate of activated carbon usage and treatment system efficiency, groundwater samples are collected once a month from the following sampling points:

- Influent to the first activated carbon unit (untreated groundwater)
- Between the two activated carbon units
- Effluent of the second activated carbon unit (treated groundwater)

Because the groundwater samples are collected after the inlet manifold, these samples are composites of the groundwater recovered from the recovery wells operating at the time of sampling. The TCE concentrations in the untreated groundwater samples have ranged from 75-μg/l (September 3, 1991) to 150,000-μg/l (August 5, 1992). A general trend of increasing contaminant concentrations in the recovered groundwater has been observed. A summary of the analytical results of the monthly groundwater treatment system sampling activities are presented in Appendix G. The treatment system effluent flowrate and concentration data were used to estimate the contaminant mass recovered by the groundwater extraction system. The total contaminant mass recovered by the groundwater extraction system through December 8, 1992, is approximately 125-lbs. The contaminant mass recovery data are summarized in Figure 6.

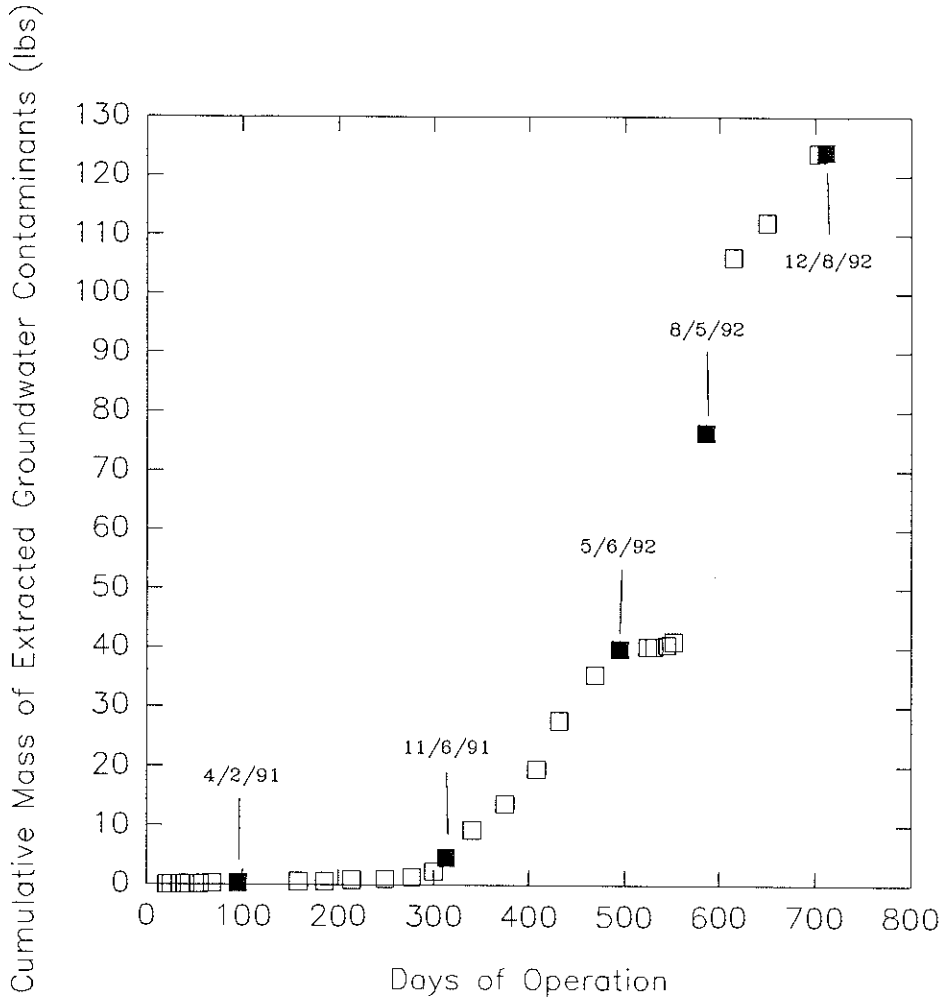

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FIGURE 6
CUMULATIVE MASS OF
EXTRACTED GROUNDWATER
CONTAMINANTS

3.0 ASSESSMENT OF GROUNDWATER REMEDIATION SYSTEM

3.1 OVERVIEW

To assess the effectiveness of the groundwater remediation system, the following information was evaluated:

- Groundwater containment concentrations observed in July 1992 and October 1992 were compared to determine the effect of groundwater recovery;
- Potentiometric surfaces observed in July 1992 (September 1992 for "D" wells) and November 2, 1992, were reviewed to assess the effectiveness of groundwater recovery in plume containment.

3.2 GROUNDWATER CONTAMINANT CONCENTRATIONS

The only groundwater contaminants observed at concentrations above the cleanup objective levels identified by IEPA have been chlorinated VOCs. Summary tables of the results of all groundwater analysis for chlorinated VOCs are provided in Appendix D. Although the principal groundwater contaminant is TCE, other chlorinated VOCs, such as tetrachloroethylene (PCE), dichloroethylene (DCE), and vinyl chloride (VC) have been observed. The DCE and VC in the groundwater are likely due to biotransformation of TCE in the subsurface (Vogel and McCarty, 1985). The source of the PCE in the groundwater is unknown, but PCE may have been present as an impurity in the TCE which was used at the site as a solvent. Because PCE and TCE can be biotransformed to other chlorinated hydrocarbons such as DCE and VC, it is appropriate to quantify the groundwater contamination in terms of total chlorinated volatile organic compound (TCVOC) concentrations (generally taken as the sum of the observed PCE, TCE, DCE, and VC concentrations). The groundwater sampling and analysis results were depicted using isoconcentration contours whenever feasible. To evaluate the effect of groundwater recovery on the extent of groundwater contamination, TCVOC isoconcentration contours developed using the October 1992 groundwater monitoring data were compared to TCVOC isoconcentration contours developed using the July 1992 data.

To determine the groundwater flow direction, the potentiometric surface data from November 1992 and July 1992 (September 1992 for D-Zone) were reviewed and interpreted. Also, the November 1992 and July 1992 potentiometric surface data were compared to determine if any significant changes in the groundwater flow direction or groundwater flow velocities had occurred. Both sets of potentiometric surface maps are representative of the hydrogeological conditions during the operation of the groundwater recovery system (pumping).

3.2.1 B-Zone Monitoring Wells: The TCVOC isoconcentration contour based on the B-Zone (screened from approximately 15-ft to 25-ft bgs) groundwater monitoring well data from the October 1992 and July 1992 sampling events are presented in Figure 7 and Figure 8. Monitoring wells MW-1, MW-3, MW-5B, MW-6B, MW-7B, MW-10, and MW-11, which were sampled in July 1992, are not included in the quarterly groundwater sampling program and therefore, were not sampled in October 1992. Because of the lack of contaminant concentration data for these wells in October 1992, no direct comparison of groundwater contaminant concentrations in these B-Zone wells in July 1992 and October 1992 can be made.

Comparison of the October 1992 and July 1992 B-Zone isoconcentration contours indicate shrinkage of the northern, and western edge of the B-Zone plume due to decreasing contaminant concentrations in monitoring wells MW-17B, MW-2, MW-13, and MW-15B. The eastern edge of the B-Zone plume exhibited minor expansion due to an increase in TCVOC concentrations at MW-18B from 17,000-μg/l to 20,000-μg/l.

In October 1992, the B-Zone monitoring well exhibiting the highest contaminant concentrations was MW-18B, with a TCVOC concentration of 20,000-μg/l. However, monitoring well MW-1, which was not sampled in October 1992, exhibited the highest B-Zone contaminant concentrations in July 1992 with a TCVOC concentration of 52,000-μg/l. Therefore, although the October 1992 monitoring data indicates that the center

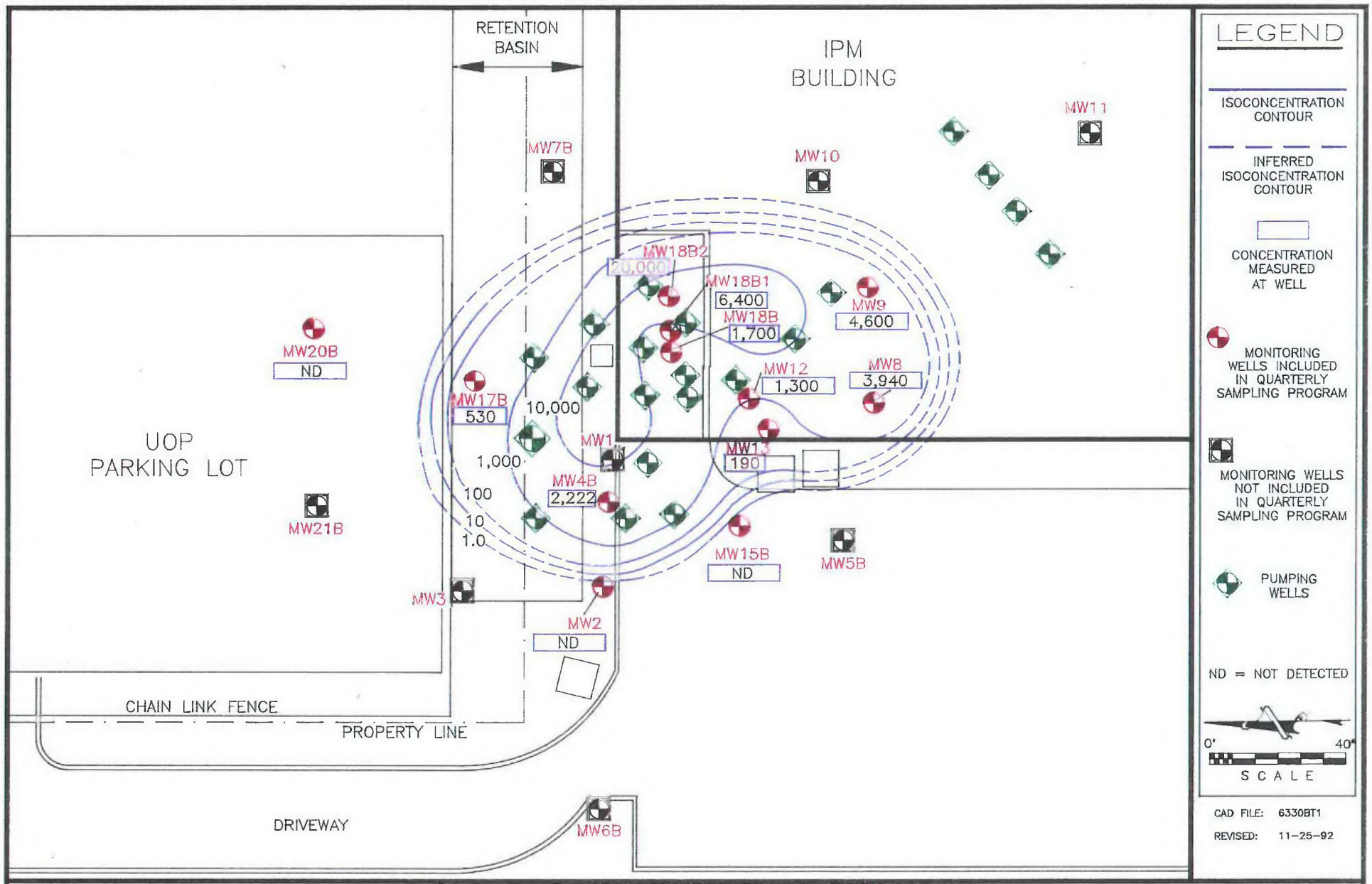

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FIGURE 7
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"B" WELLS – OCTOBER 1992

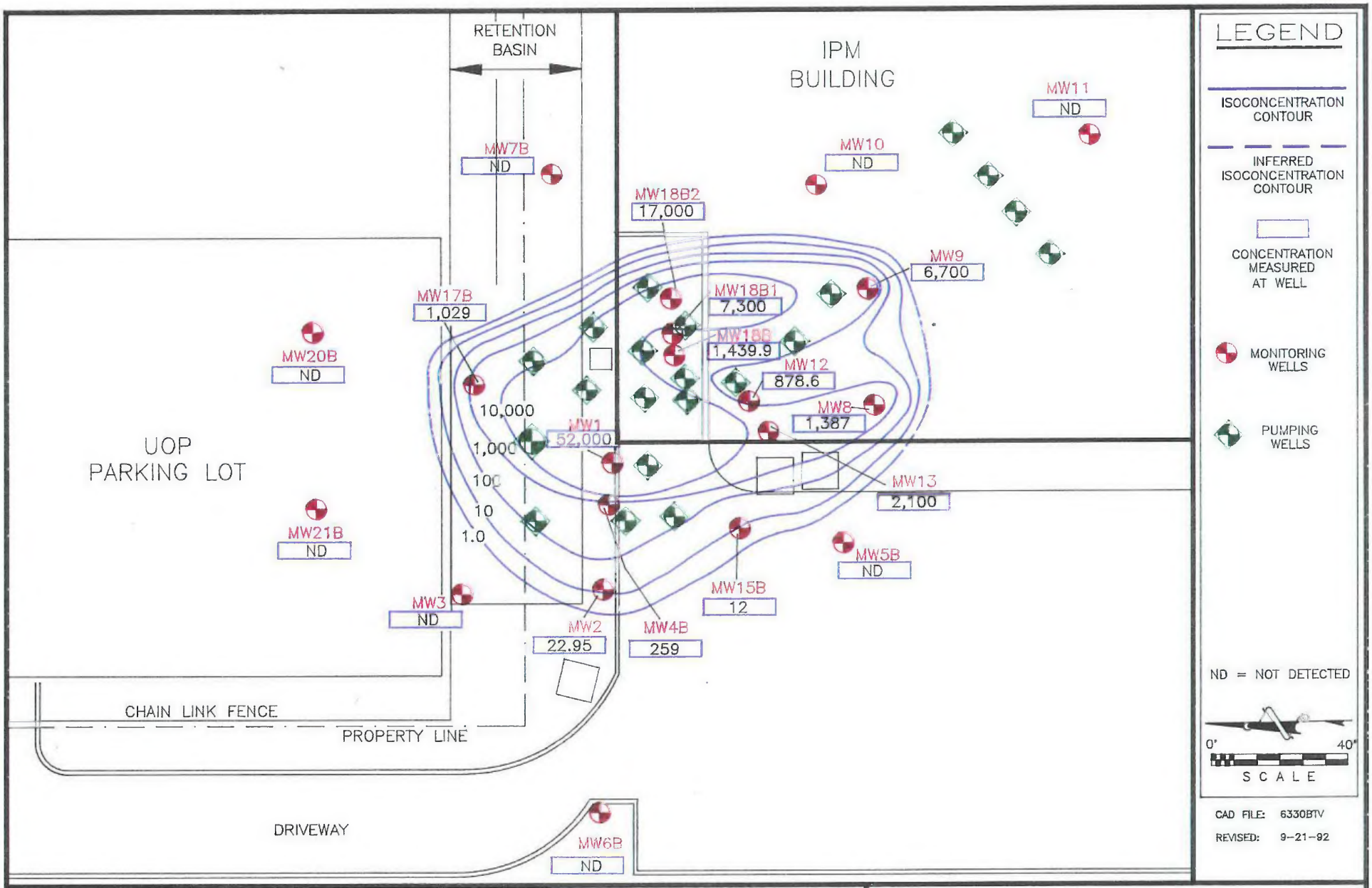

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FIGURE 8
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER (μg/L)
"B" WELLS – JULY 1992

of B-Zone contaminant plume is near MW-18B, it is likely that the center of the B-Zone contaminant plume remains near MW-1.

The November 1992 and July 1992 potentiometric surface maps for the B-Zone monitoring wells are shown in Figure 9 and Figure 10. Figure 9 (November 1992) indicates a minima in the B-Zone potentiometric surface near monitoring wells MW-18B, MW-18B1, and MW-18B2, and is in general agreement with the July 1992 B-Zone potentiometric surface (Figure 10). The potentiometric surface minima near MW-18B, MW-18B1, and MW-18B2 is consistent with the proximity of these monitoring wells to a number of groundwater extraction wells, and indicates the groundwater extraction system is effectively controlling the lateral groundwater flow within the B-Zone contaminant plume. Static groundwater elevations in B-Zone wells were approximately 1-ft lower in November 1992 than in July 1992. This is likely due to seasonal variations in precipitation and groundwater recharge.

<u>3.2.2 A-Zone Monitoring Wells</u>: The October 1992 and July 1992 TCVOC isoconcentration contours for the A-Zone (screened from 45-ft to 50-ft bgs) groundwater monitoring well data are presented in Figure 11 and Figure 12. Monitoring wells MW-5A, MW-7A, MW-16A, MW-24A, MW-25A, MW-26A, and MW-27A, which were sampled in July 1992, are not included in the quarterly groundwater sampling program, and therefore were not sampled in October 1992. Because of the lack of data for these wells in October 1992, no direct comparison of groundwater contaminant concentrations in these A-Zone wells in July 1992 and October 1992 can be made.

Comparison of the July 1992 and October 1992 A-Zone isoconcentration contours indicate shrinkage of the northern, western, and southwestern edge of the A-Zone contaminant plume due to decreasing contaminant concentrations in monitoring wells MW-17A, MW-4A, MW-15A, and MW-19A. The minor increase in TVOH concentrations in monitoring well MW-22A from 12.5-μg/l in July 1992 to 15-μg/l in October 1992 is probably less than the error in measurement, and therefore insignficant.

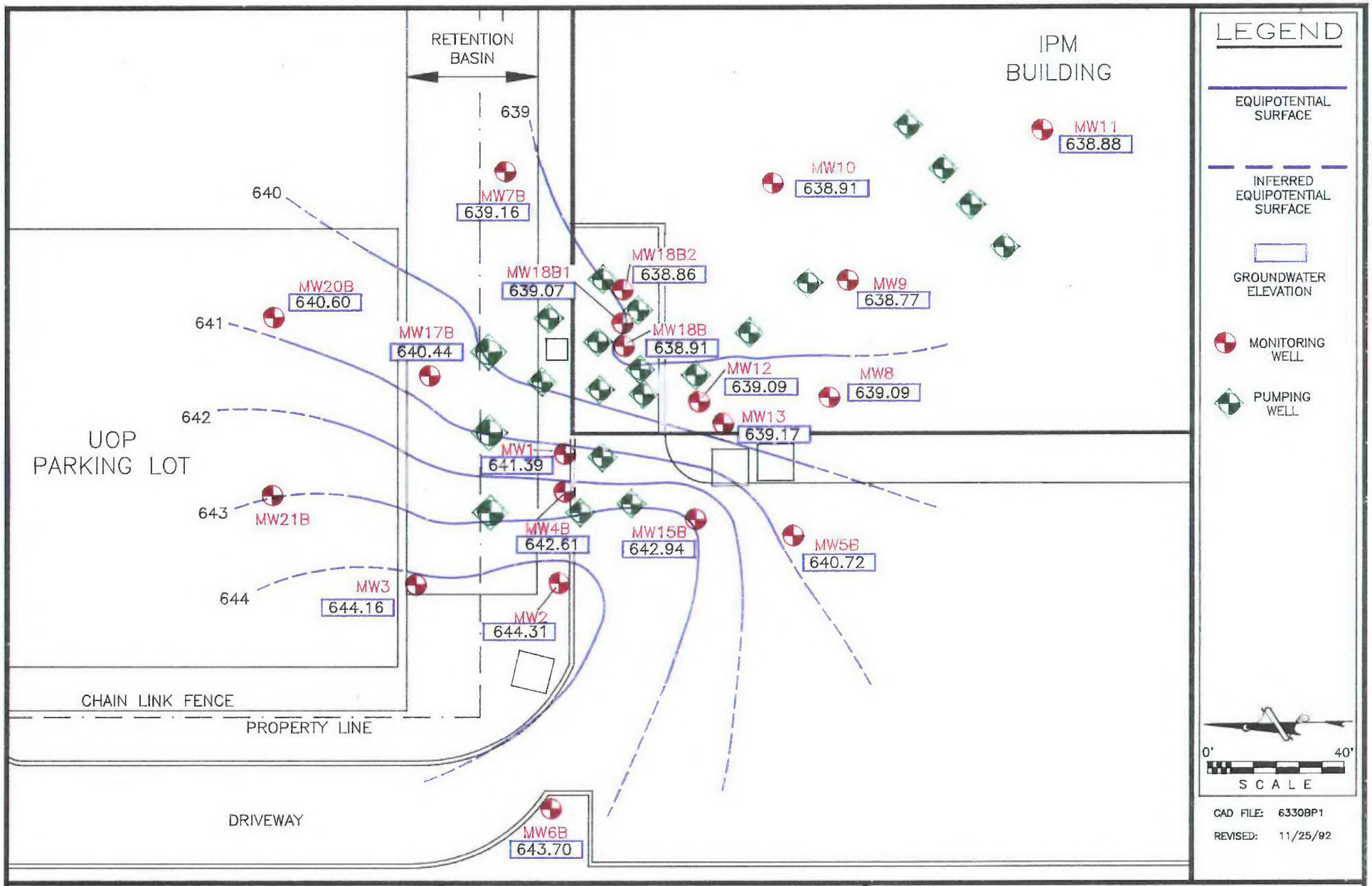

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FIGURE 9
POTENTIOMETRIC SURFACE
"B" WELLS – NOVEMBER 1992

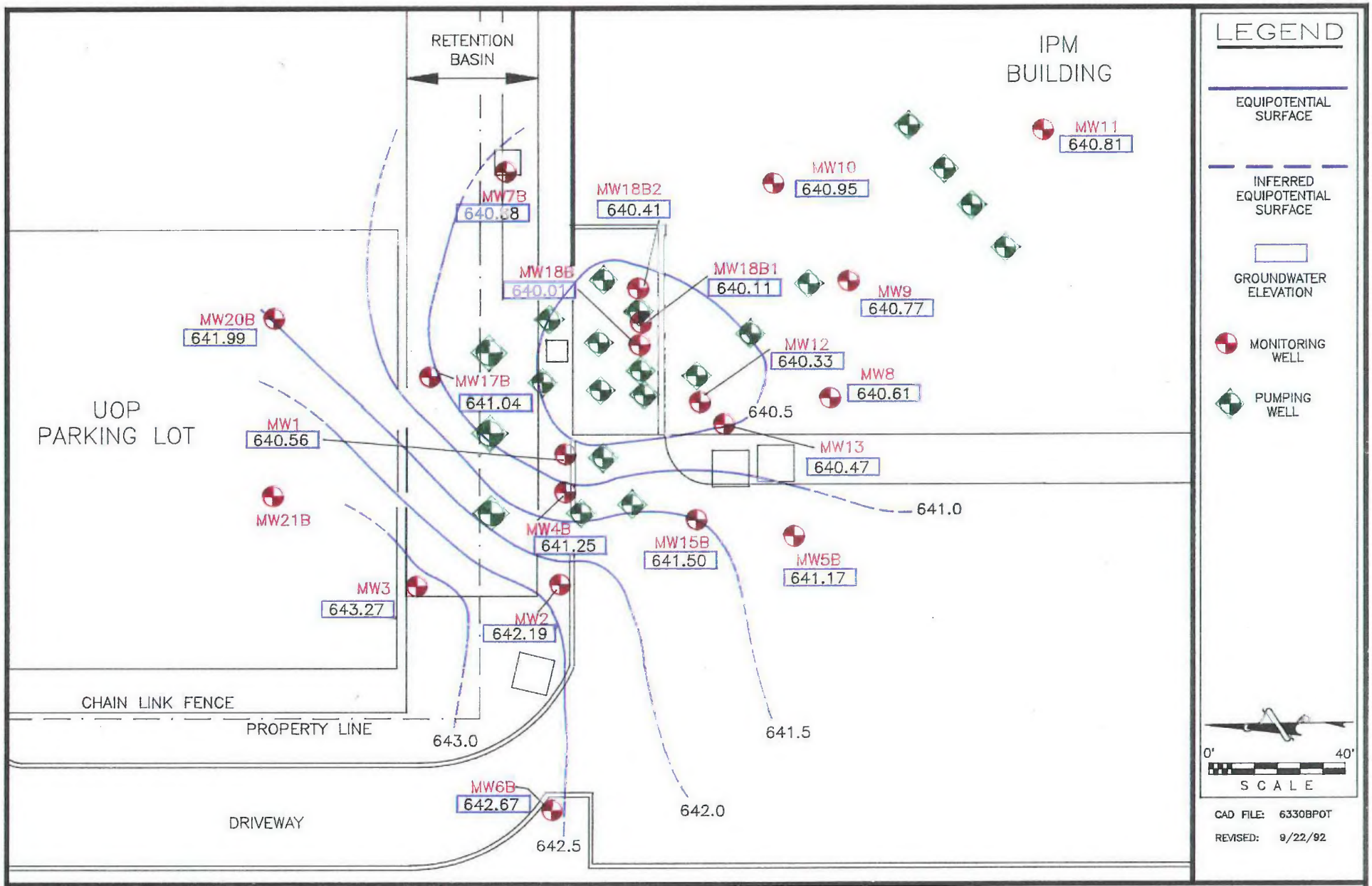

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FIGURE 10
POTENTIOMETRIC SURFACE
"B" WELLS – JULY 1992

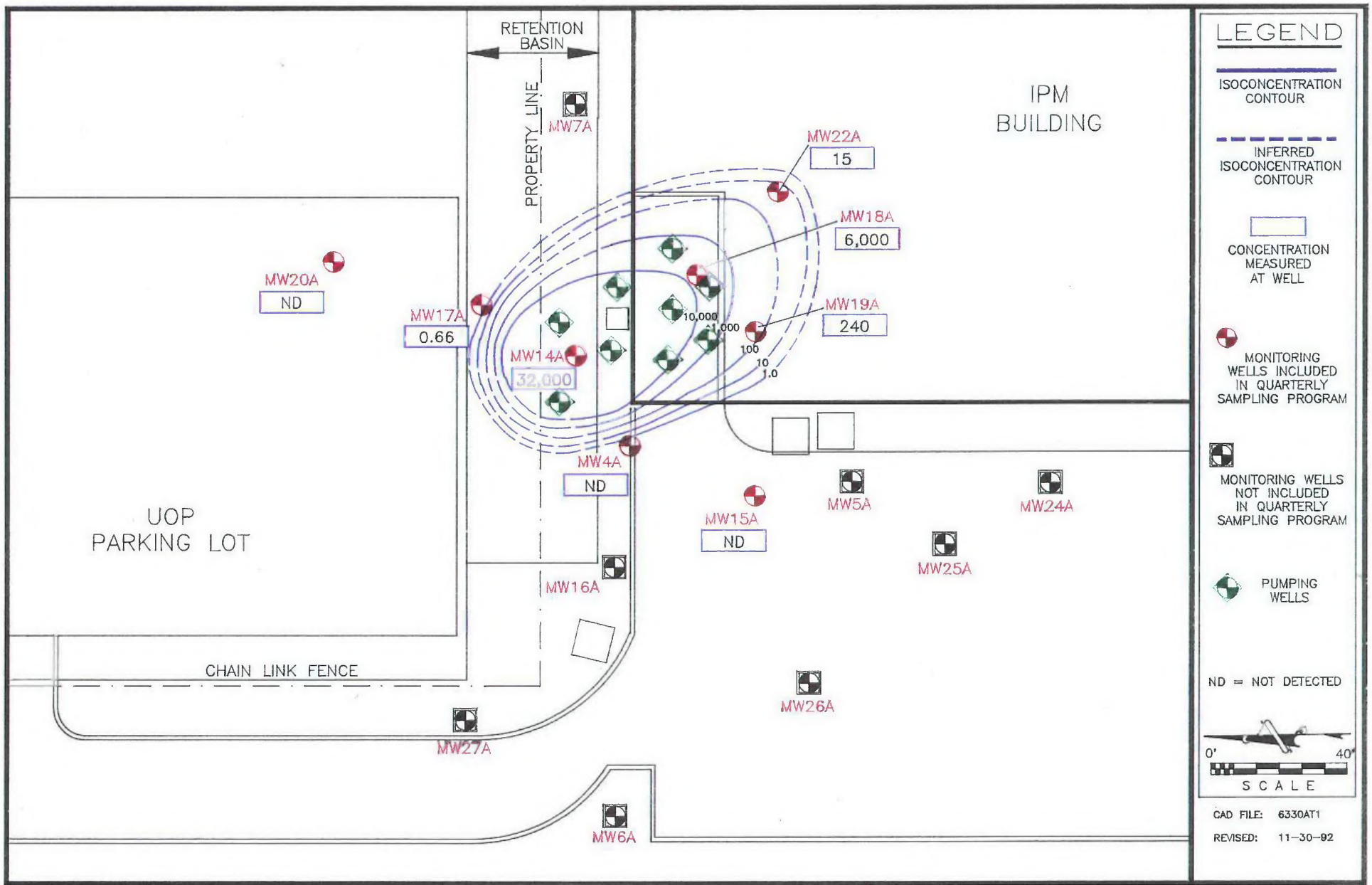

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FIGURE 11
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"A" WELLS – OCTOBER 1992

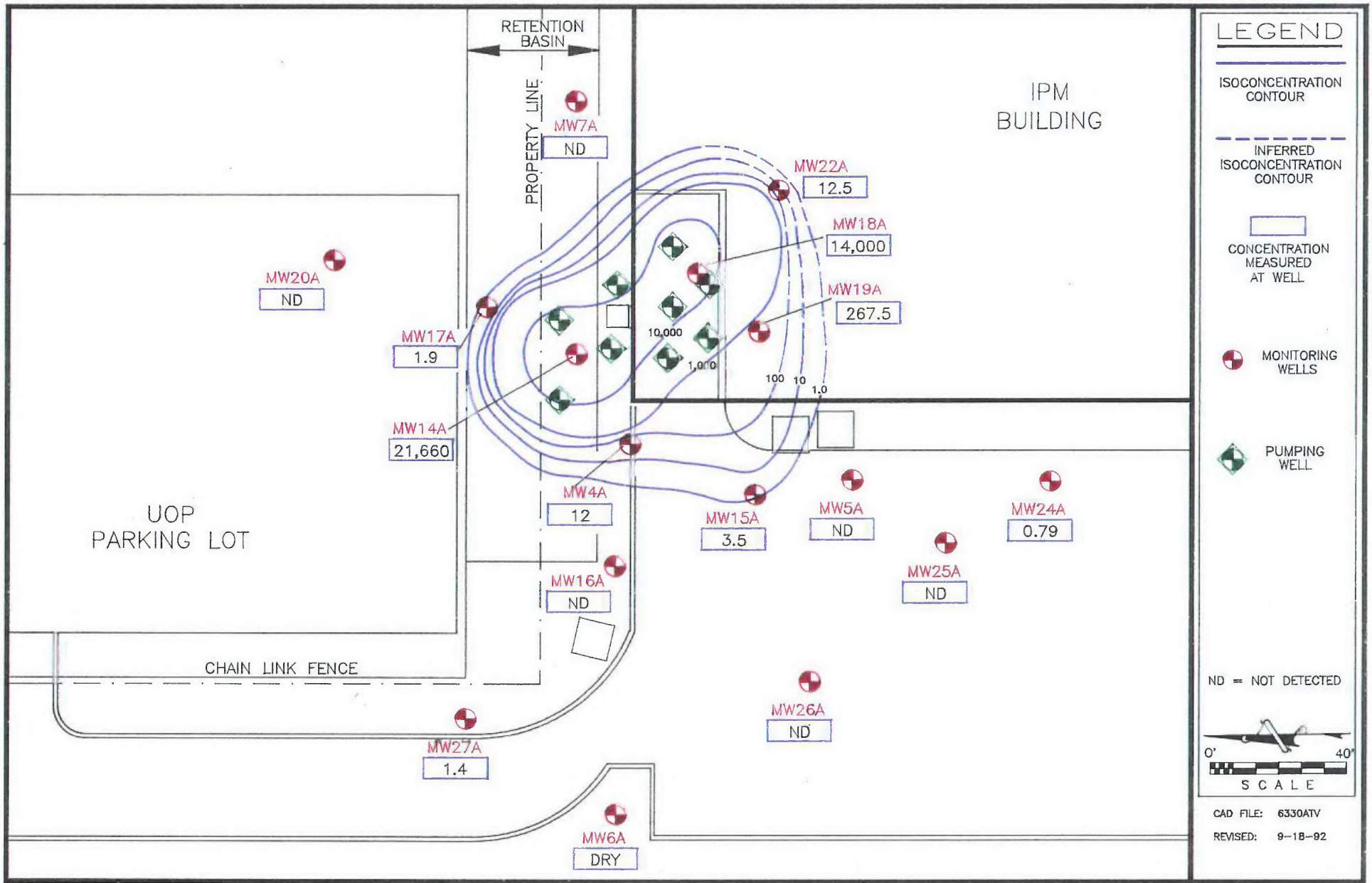

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FIGURE 12
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"A" WELLS – JULY 1992

The groundwater monitoring data indicate that the center of the A-Zone contaminant plume is MW-14A, with MW-18A also exhibiting high contaminant concentrations. Between July 1992 and October 1992, the TCVOC concentration at MW-14A increased from 21,660-μg/l to 32,000-μg/l, while the TCVOC concentrations at MW-18A decreased from 14,000-μg/l to 6,000-μg/l. These changes are consistent with the historical groundwater monitoring data (Appendix D) which indicate that MW-14A and MW-18A have exhibited the highest A-Zone monitoring well contaminant concentrations, and that the contaminant concentrations observed at these two monitoring wells have been highly variable.

The November 1992 and July 1992 potentiometric surface maps for the A-Zone monitoring wells are provided in Figure 13 and Figure 14. Although both figures indicate groundwater extraction has created a potentiometric minima in the A-Zone groundwater, the October 1992 data indicate a minima near MW-18A, while the July 1992 data indicate a minima near MW-14A. This change in the location of the A-Zone potentiometric minima has been observed over previous quarterly comparisons, and is possibly the result of the close proximity of MW-14A and MW-18A to numerous groundwater extraction wells which cause local short-term variations in the potentiometric surface. The October 1992 potentiometric surface data indicates the groundwater extraction system is effectively controlling the lateral groundwater flow in the A-Zone. In general, the potentiometric surface elevations in the A-Zone were approximately 1-ft lower in October 1992 than in July 1992. This is likely the result of seasonal variations in precipitation and groundwater recharge.

<u>3.2.3 C-Zone Monitoring Wells</u>: Figure 15 and Figure 16 present the October 1992 and July 1992 observed TCVOC concentrations for C-Zone monitoring wells (screened from 60-ft to 70-ft bgs). Comparison of the figures indicate that although the center of the C-Zone contamination has remained in the vicinity of MW-18C, the concentrations observed at MW-18C in October 1992 are nearly an order of magnitude lower than the concentrations observed in April 1992. Comparatively minor increases in contaminant concentrations at

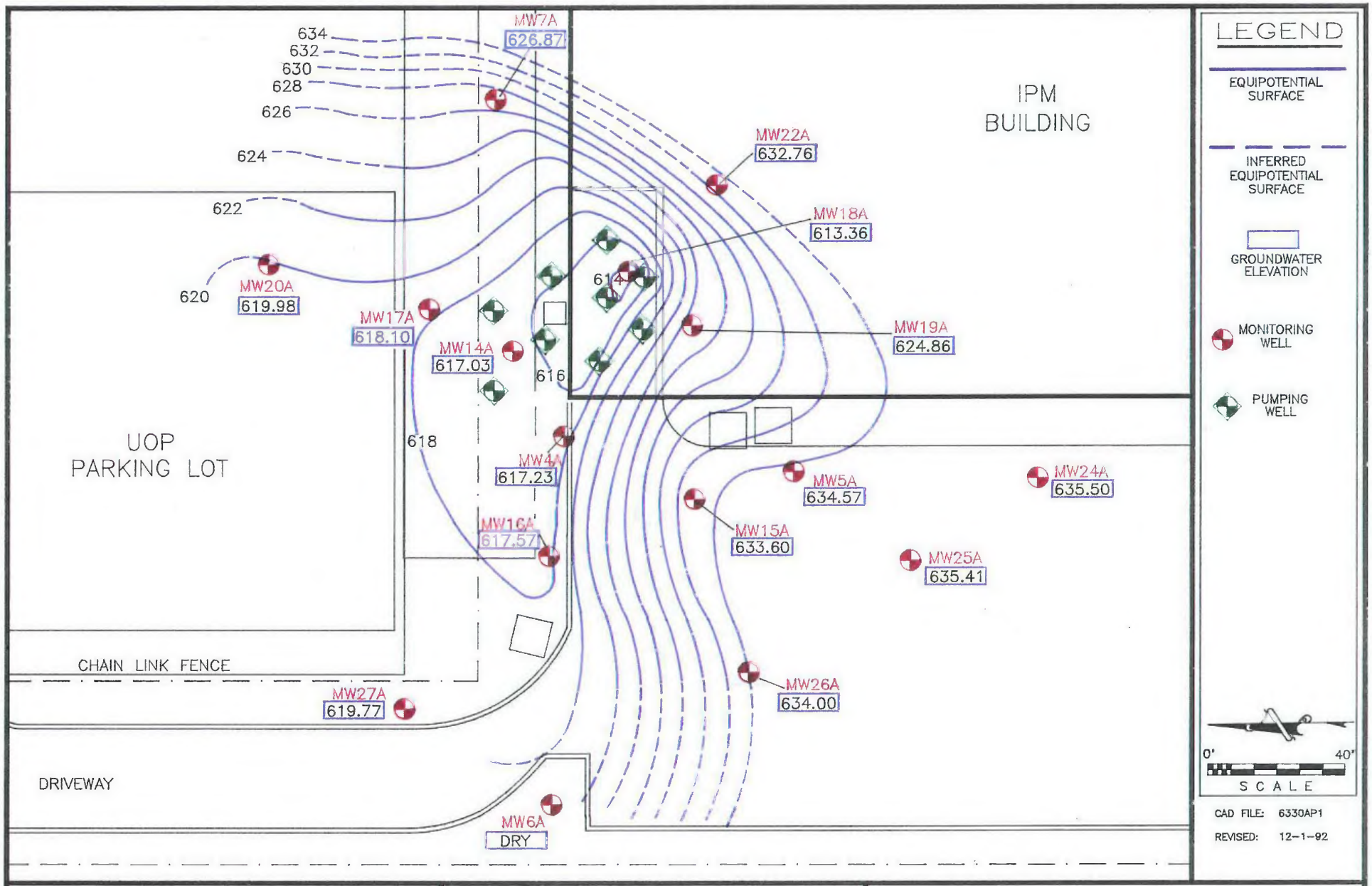

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FIGURE 13
POTENTIOMETRIC SURFACE
"A" WELLS – NOVEMBER 1992

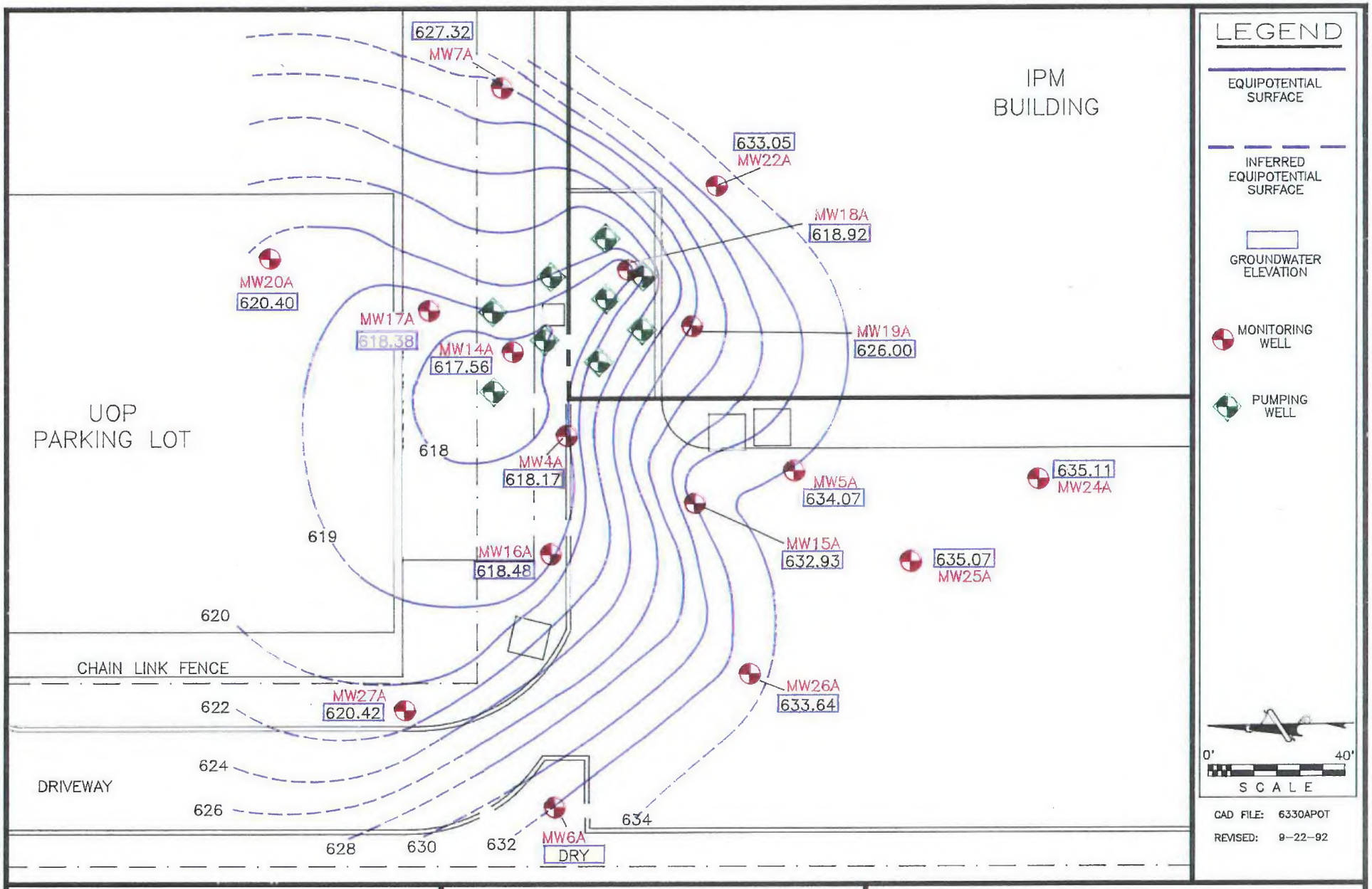

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FIGURE 14
POTENTIOMETRIC SURFACE
"A" WELLS – JULY 1992

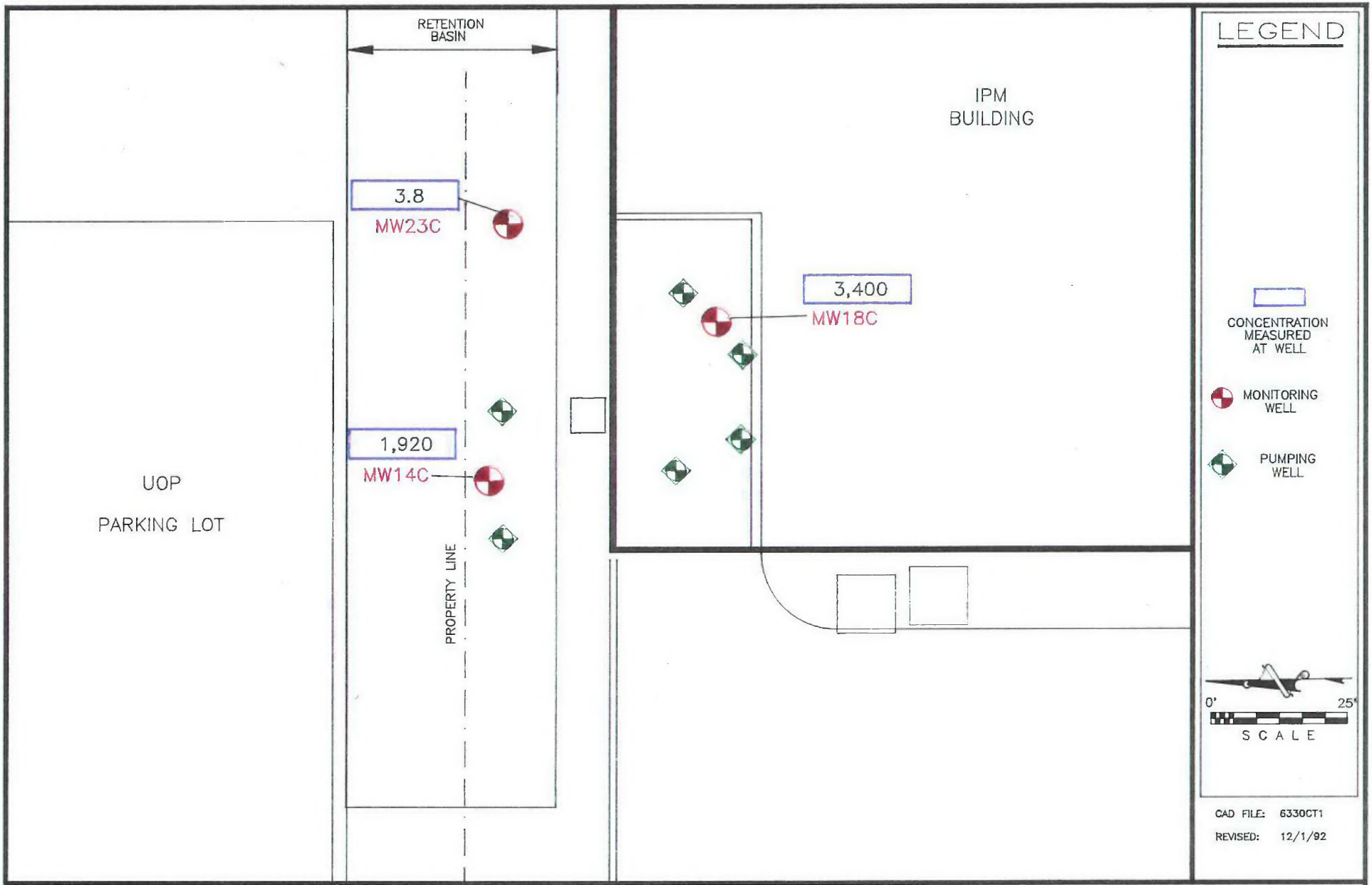

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FIGURE 15
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" WELLS – OCTOBER 1992

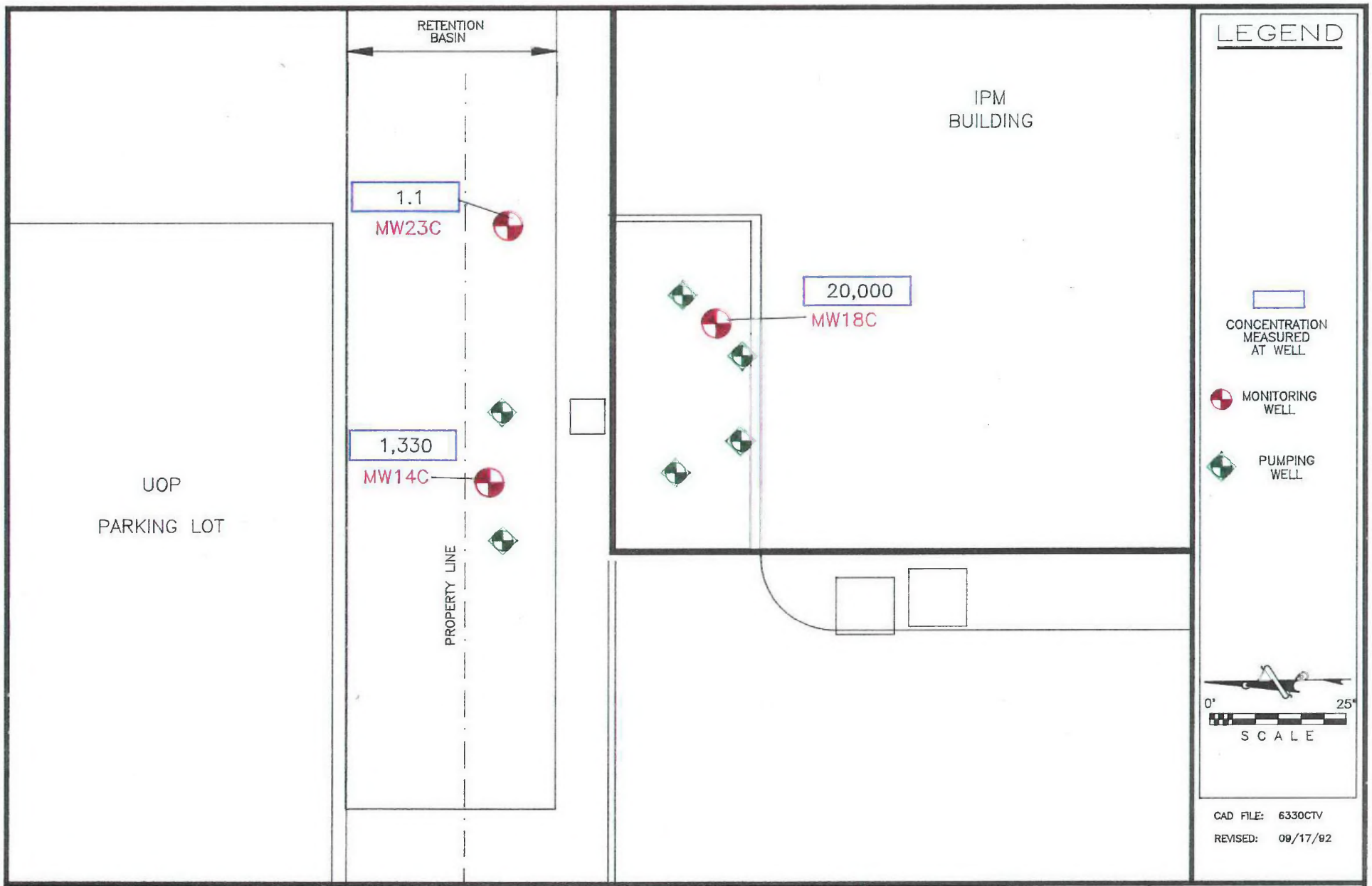

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FIGURE 16
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" WELLS – JULY 1992

monitoring wells MW-14C and MW-23C represent an expansion of the C-Zone contaminant plume between July 1992 and October 1992.

The potentiometric surface maps for the C-Zone monitoring wells in November 1992 and July 1992 are depicted in Figure 17 and Figure 18. Comparison of the two potentiometric surface maps indicate that while the groundwater flow direction remained northwest, the hydraulic gradient in October 1992 (between MW-18C and MW-14C) was nearly a factor of five less than the hydraulic gradient observed in July 1992. A possible explanation for the significant change in the C-Zone hydraulic gradient is the proximity of MW-14C and MW-18C to a number of groundwater extraction wells, which cause short-term variations in the local potentiometric surface.

3.2.4 D-Zone Monitoring Wells: The October 1992 and July 1992 TCVOC concentration data for the D-Zone monitoring wells, are presented in Figure 19 and Figure 20. Monitoring well MW-2D, which was sampled in July 1992, is not included in the quarterly groundwater sampling program, and therefore was not sampled in October 1992.

Comparison of the October 1992 and July 1992 D-Zone monitoring data indicate a shrinkage in the northern and western edge of the D-Zone contaminant plume, with decreasing contaminant concentrations in monitoring wells MW-5D and MW-14D. Although MW-18D was observed to exhibit the highest contaminant concentrations in both July 1992 and October 1992, the TCVOC concentration at MW-18D decreased from 410-μg/l in July 1992 to 81-μg/l in October 1992. Increasing contaminant concentrations in monitoring wells MW-28D and MW-29D between August 1992 and October 1992 indicate an expansion of the D-Zone contaminant plume to the south and east.

The November 1992 and September 1992 potentiometric surface maps for the monitoring wells screened in the D-Zone are provided in Figure 21 and Figure 22. While the November 1992 potentiometric surface map (Figure 21) indicates a variable D-Zone groundwater flow direction dominated by groundwater extraction from MW-18D, the

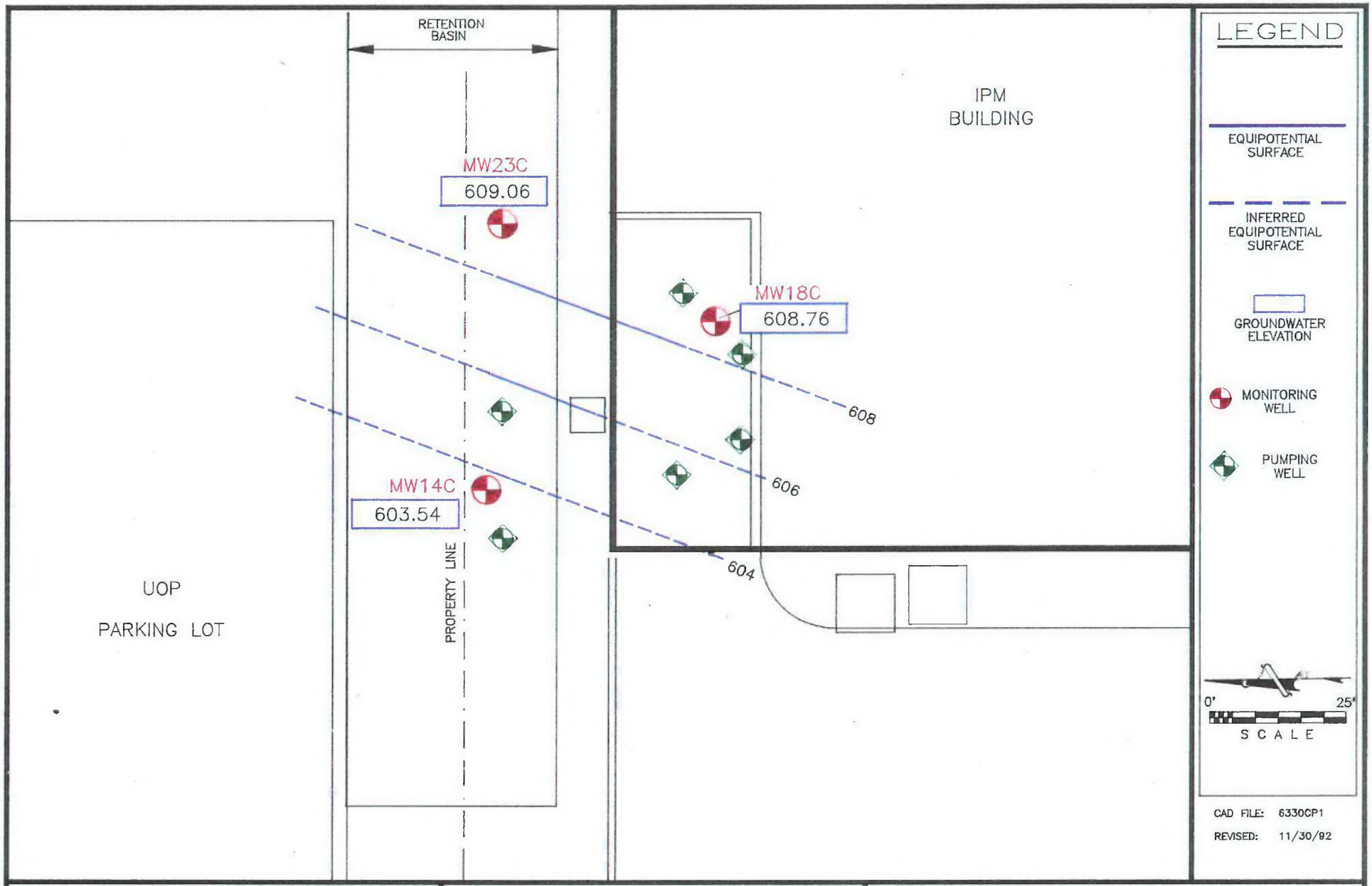

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FIGURE 17
POTENTIOMETRIC SURFACE
"C" WELLS – NOVEMBER 1992

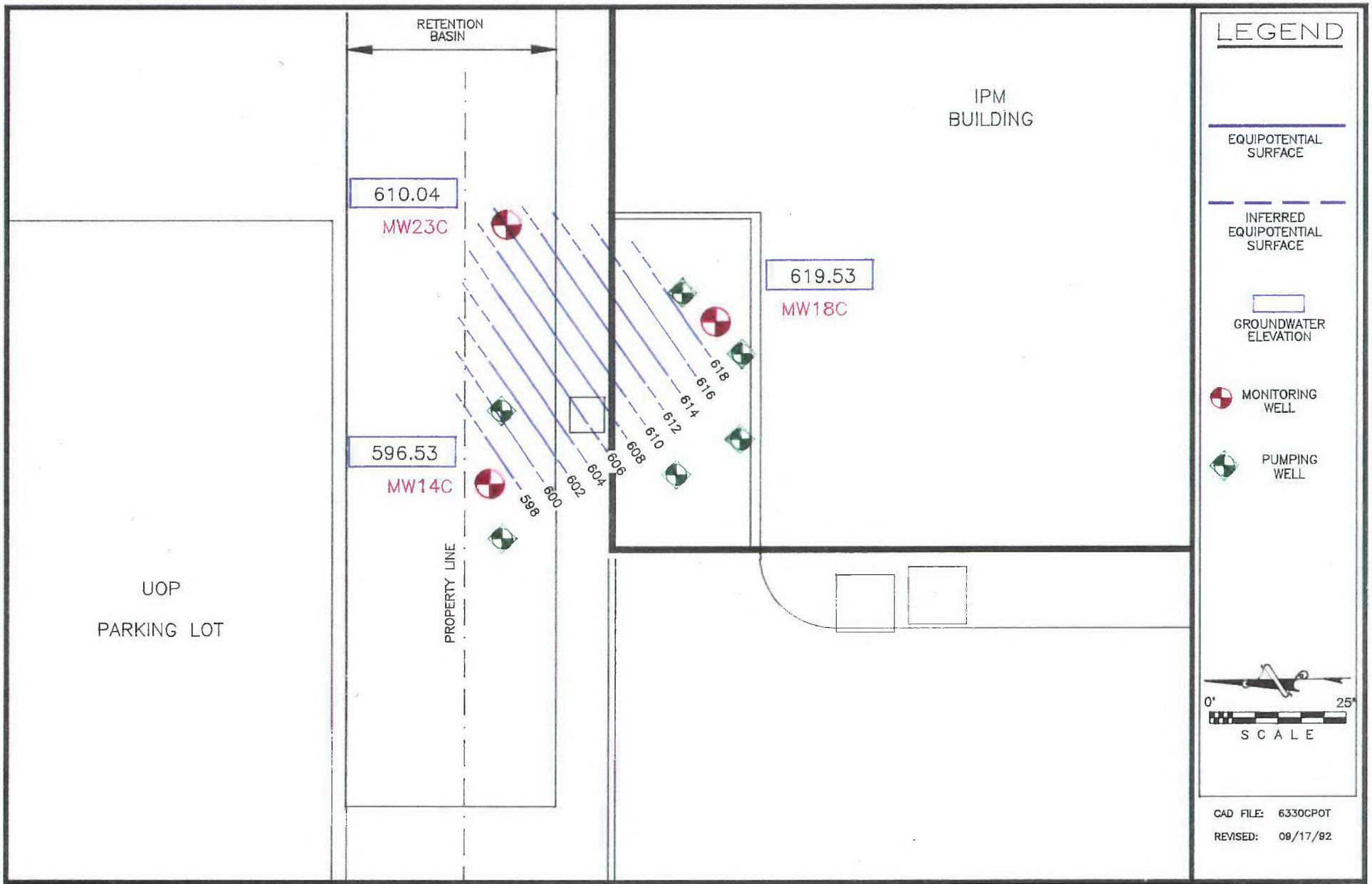

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FIGURE 18
POTENTIOMETRIC SURFACE
"C" WELLS – JULY 1992

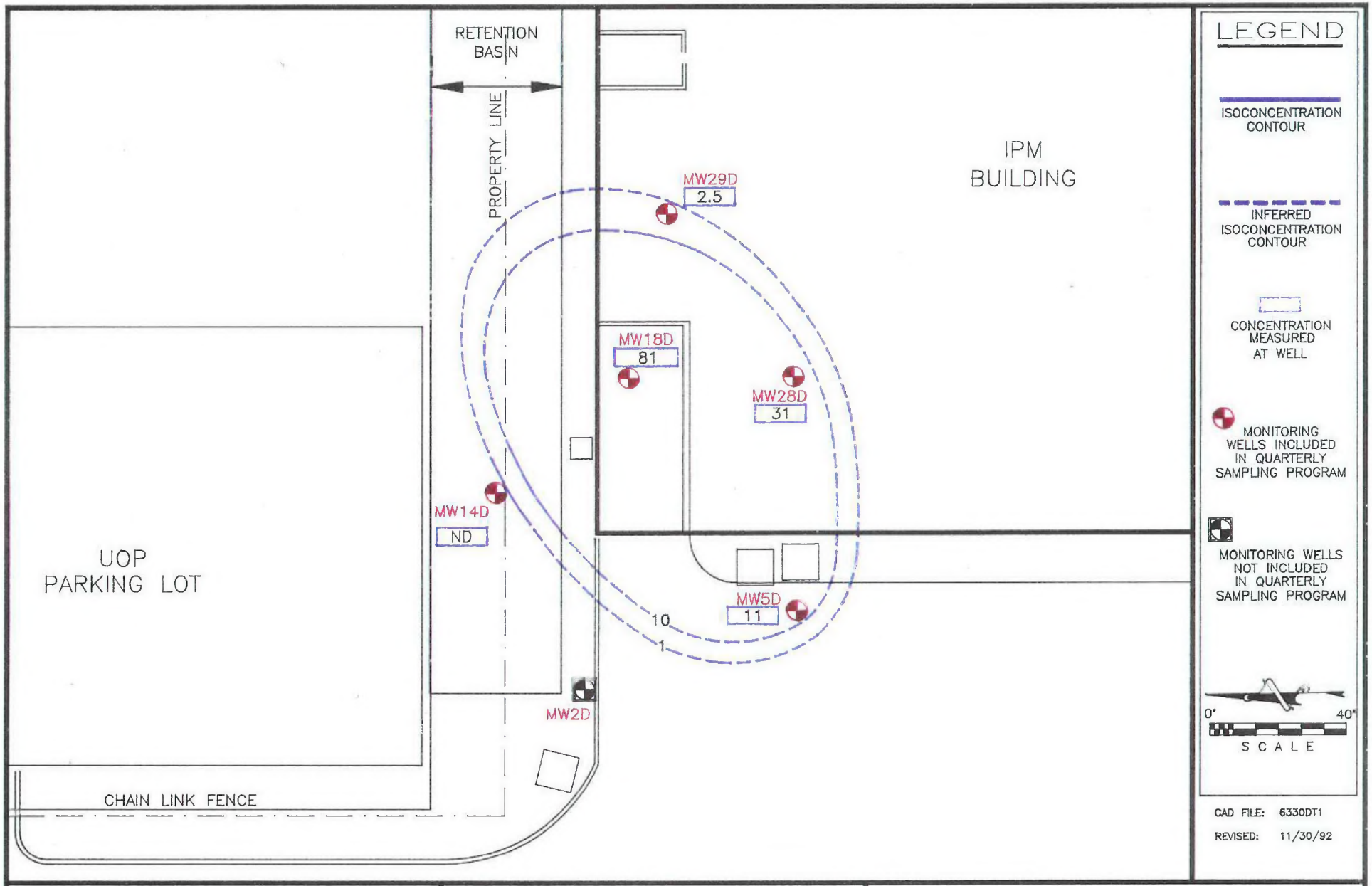

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FIGURE 19
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" WELLS – OCTOBER 1992

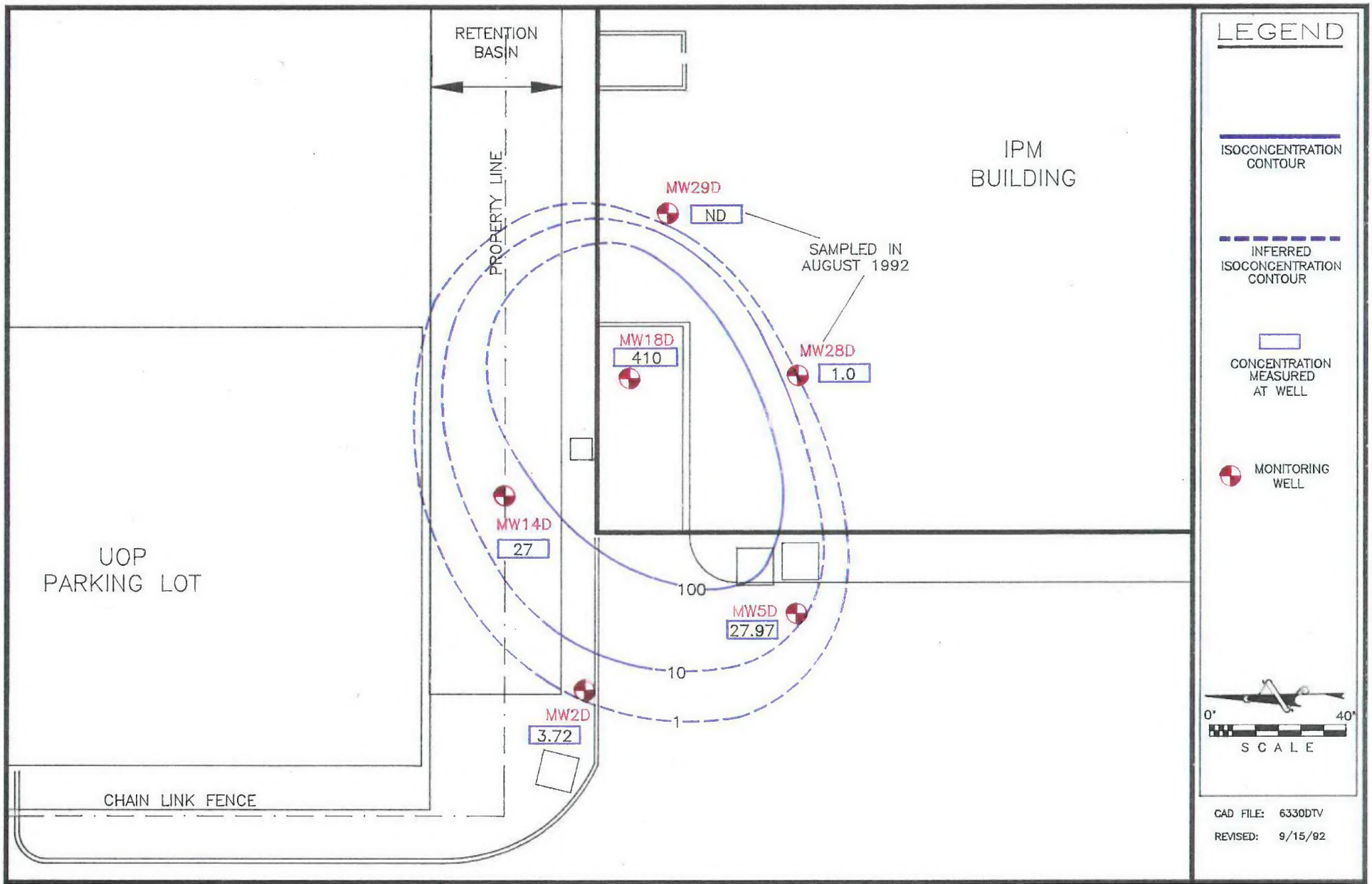

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FIGURE 20
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" WELLS – JULY 1992

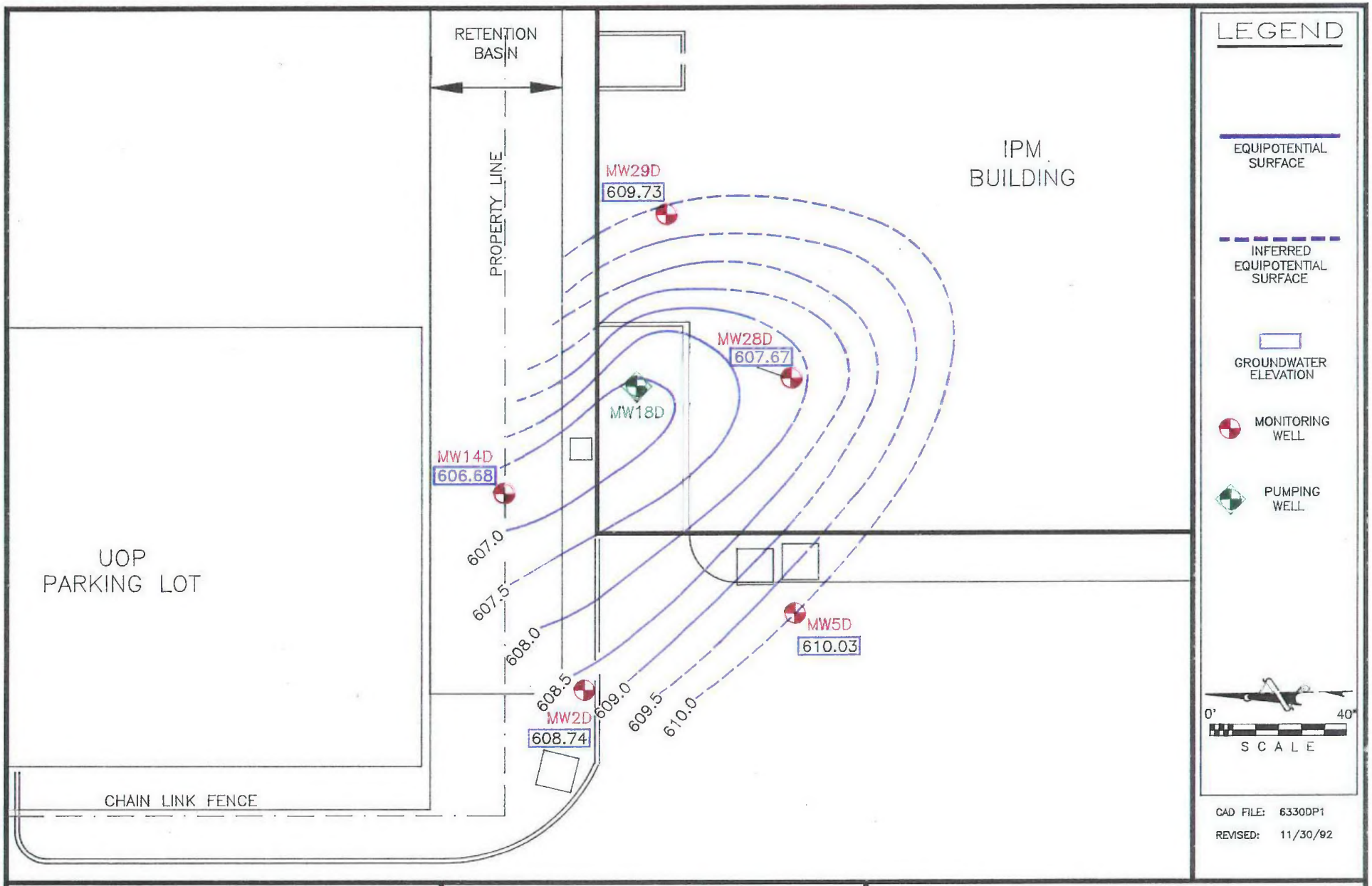

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FIGURE 21
POTENTIOMETRIC SURFACE
"D" WELLS – NOVEMBER 1992

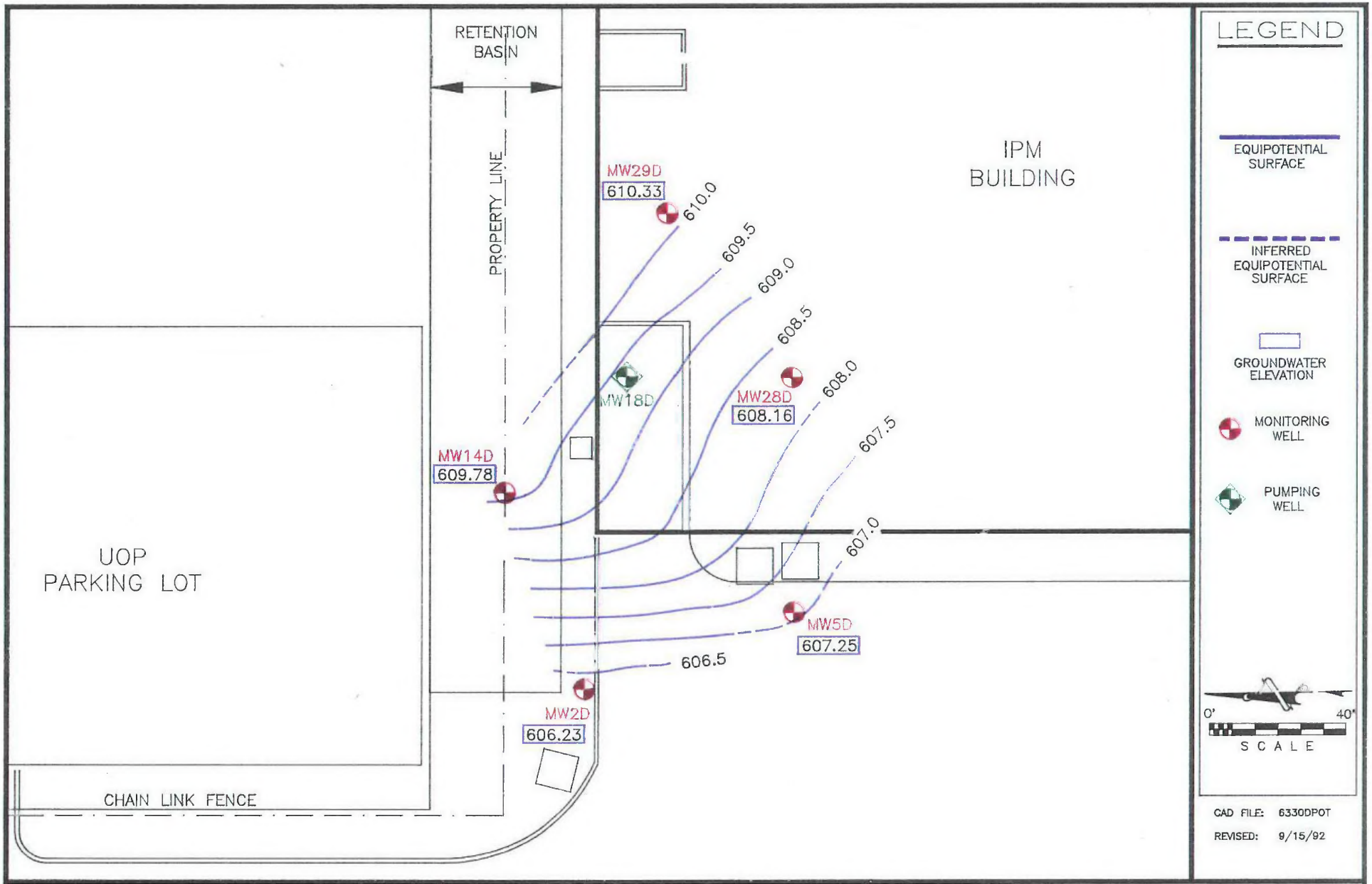

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FIGURE 22
POTENTIOMETRIC SURFACE
"D" WELLS – SEPTEMBER 1992

September 1992 potentiometric surface map indicates a D-Zone groundwater flow direction of west-southwest. It is not clear whether these data represent a real change in the D-Zone potentiometric surface between September 1992 and November 1992, or if the apparent change in the potentiometric surface maps is an artifact of limited D-Zone potentiometric surface data.

3.3 CONTAMINANT MASS RECOVERY

The groundwater recovery flowrate and NPDES sampling data indicate that the calculated rate of contaminant mass recovery has remained relatively constant over the last quarter of operation, with an estimated removal from the groundwater of 50-lbs of CVOCs between August 1992 and December 1992 (Figure 6).

3.4 SUMMARY OF GROUNDWATER REMEDIATION PROGRESS

Review of the groundwater concentration and potentiometric surface data indicate the following:

- Review of the B-Zone monitoring well data indicates a general shrinkage of the B-Zone contaminant plume between July 1992 and October 1992. Potentiometric surface data indicate that the groundwater extraction system is achieving containment and recovery of the B-Zone groundwater contamination.

- Review of the A-Zone monitoring well data indicates a general shrinkage of the A-Zone contaminant plume between July 1992 and October 1992. The A-Zone potentiometric surface data continues to indicate that groundwater extraction is achieving containment and recovery of the A-Zone groundwater contamination.

- The C-Zone monitoring well data indicate that MW-18C continues to exhibit the highest contaminant concentrations in the C-Zone groundwater. A significant decrease in contaminant concentrations at MW-18C was observed between July 1992 and October 1992. Comparison of the July 1992 and November 1992 potentiometric surface data indicate that while the C-Zone groundwater flow direction has remained northwest, the lateral hydraulic gradient observed in October 1992 was significantly less than the lateral hydraulic gradient observed in July 1992.

- The D-Zone monitoring well data indicate a shrinkage of the northern and western edge of the D-Zone contaminant plume, a reduction of contaminant concentrations at the center of the D-Zone contaminant plume, and an expansion of the southern and eastern edge of the D-Zone contaminant plume. Although the D-Zone potentiometric surface data indicate a change in the D-Zone lateral groundwater flow direction between September 1992 and November 1992, it is not clear whether these data represent a real change in the D-Zone potentiometric surface, or if the apparent change in the potentiometric surface maps is an artifact of limited D-Zone potentiometric surface data.

REFERENCES

Vogel, T.M., and P.L. McCarty, "Biotransformation of Tetrachloroethylene to Trichloroethylene, Dichloroethylene, Vinyl Chloride, and Carbon Dioxide under Methanogenic Conditions:, Applied and Environmental Microbiology, Vol. 49, No. 5, pp. 1080-1083 (1985)

Vogel, T.M., C.S. Criddle, and P.M. McCarty, "Transformation of Halogenated Aliphatic Compounds", Environmental Science and Technology, Vol. 21, No. 8, pp. 722-736 (1987)

Wilson, B.H., G.B. Smith, and J.F. Rees, "Biotransformations of Selected Alkylbenzenes and Halogenated Aliphatic Hydrocarbons in Methanogenic Aquifer Material: A Microcosm Study", Environmental Science and Technology, Vol. 20, No. 10, pp. 997-1002 (1986)

APPENDIX A

GROUNDWATER MONITORING WELL INFORMATION

B-ZONE MONITORING WELLS
Upper Water-Bearing Unit

Monitoring Well	Date Installed	Monitoring Well Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-1	09/28/88	B	19	15-19	661.15
MW-2	09/28/88	B	19	15-19	661.32
MW-3	09/28/88	B	19	15-19	660.53
MW-4B	02/09/89	B	30	20-30	660.68
MW-5B	02/09/89	B	30	20-30	657.11
MW-6B	02/09/89	B	25	15-25	660.82
MW-7B	02/09/89	B	28	18-28	657.99
MW-8	04/10/89	B	25	14-24	658.41
MW-9	04/10/89	B	25	14-24	658.31
MW-10	04/10/89	B	25	14-24	658.26
MW-11	04/10/89	B	25	14-24	658.16
MW-12	08/01/89	B	25	12.2-22.2	658.40
MW-13	08/01/89	B	25	12.7-22.7	658.42
MW-15B	06/29/90	B	22.7	12.7-22.7	656.89
MW-17B	07/02/90	B	23.35	13.35-23.35	657.54
MW-18B	07/05/90	B	32	7-32	657.33
MW-18B1	07/03/90	B	28.8	3.8-28.8	657.10
MW-18B2	07/02/90	B	29.0	4.0-29.0	657.51
MW-20B	11/21/90	B	37.0	30.5-35.5	657.32
MW-21B	11/19/90	B	37.0	30.5-35.5	657.94

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

A-ZONE MONITORING WELLS
Upper Elevation of Lower Water-Bearing Zone

Monitoring Well	Date Installed	Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-4A	01/16/89	A	54.0	44.0-54.0	660.55
MW-5A	01/16/89	A	55.0	45.0-55.0	657.40
MW-6A	01/18/89	A	55.0	45.0-55.0	660.71
MW-7A	01/24/89	A	54.0	44.0-54.0	658.01
MW-14A	06/30/90	A	47.3	42.3-47.3	657.18
MW-15A	06/27/90	A	40	35-40	656.87
MW-16A	06/26/90	A	49.5	44.5-49.5	660.90
MW-17A	11/28/90	A	45	40-45	658.10
MW-18A	11/30/90	A	53	47-52	657.65
MW-19A	07/05/90	A	49.9	44.9-49.9	658.20
MW-20A	12/20/90	A	54.5	44.5-49.5	657.41
MW-22A	11/02/90	A	56	45-55	657.78
MW-24A	02/27/91	A	51	45-50	657.41
MW-25A	02/27/91	A	49	43-48	656.54
MW-26A	02/27/91	A	53	47-52	656.67
MW-27A	02/26/91	A	51.5	45-50	661.09

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

C-ZONE MONITORING WELLS
Lower Elevation of Lower Water-Bearing Zone

Monitoring Well	Date Installed	Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-14C	11/27/90	C	65.75	59-64	654.73
MW-18C	11/29/90	C	74	68-73	657.53
MW-23C	12/14/90	C	71	62-67	657.25

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

D-ZONE MONITORING WELLS
Fractured Limestone

Monitoring Well	Date Installed	Designation	Well Depth (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-2D	03/10/91	D	97	91-96	660.53
MW-5D	03/21/91	D	94	89-94	657.53
MW-14D	03/10/91	D	83.5	78.3-83.3	653.58
MW-18D	01/28/92	D	96	91-96	657.09
MW-28D	08/21/92	D	96	91-96	657.67
MW-29D	08/21/92	D	96	91-96	657.83

[1]Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

APPENDIX B

CHEMICAL ANALYSIS FORMS

OCTOBER 1992 GROUNDWATER SAMPLING EVENT

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW 2 (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY _____ (see Instructions) (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	7993				644.31
	Well Depth Elevation (ft. MSL)	7020				639.60
	Depth to Water from Meas. Pt. (ft)	7209				17.01

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
IPC 168 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–19)

MONITOR POINT NUMBER MW2

CO. Cook

DATE COLLECTED 1 0 2 1 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLORETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180			<	0.50
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW 4A (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __ __/__ __/__ __ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __ __:__ __ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY _____ (see Instructions) (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE _____ (63) _____ (102)

COLLECTOR COMMENTS _____ (103) _____ (142)

LAB COMMENTS _____ (150) _____ (199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				617.23
Well Depth Elevation (ft. MSL)	72020				604.20
Depth to Water from Meas. Pt. (ft)	72109				43.32

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW4A (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 9 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLORETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180			<	0.50
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW 4B (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 2 1 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __ __:__ __ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY _____ (see Instructions) (60)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				642.61
Well Depth Elevation (ft. MSL)	72020				628.00
Depth to Water from Meas. Pt. (ft)	72109				18.07

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW4B (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 9 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
1	BROMODICHLOROMETHANE	32101			<	2.5
2	BROMOFORM	32104			<	5.0
3	BROMOMETHANE	34413			<	5.0
4	CARBON TETRACHLORIDE	32102			<	2.5
5	CHLOROBENZENE	34301			<	2.5
6	CHLOROETHANE	34311			<	5.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	2.5
8	CHLOROFORM	32106			<	2.5
9	CHLOROMETHANE	34418			<	5.0
10	DIBROMOCHLOROMETHANE	32105			<	2.5
11	1,2-DICHLOROBENZENE	34536			<	2.5
12	1,3-DICHLOROBENZENE	34566			<	2.5
13	1,4-DICHLOROBENZENE	34571			<	2.5
14	1,1-DICHLOROETHANE	34496			<	2.5
15	1,2-DICHLOROETHANE	34531			<	2.5
16	1,1-DICHLOROETHYLENE	34501			<	2.5
17	CIS-1,2-DICHLOROETHYLENE	34546				2,000
18	1,2-DICHLOROPROPANE	34541			<	2.5
19	CIS-1,3-DICHLOROPROPENE	34704			<	2.5
20	TRANS-1,3-DICHLOROPROPENE	34699			<	2.5
21	METHYLENE CHLORIDE	34423			<	5.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	2.5
23	TETRACHLORETHYLENE	34475			<	2.5
24	1,1,1-TRICHLOROETHANE	34506			<	2.5
25	1,1,2-TRICHLOROETHANE	34511			<	2.5
26	TRICHLOROETHYLENE	39180				88
27	TRICHLOROFLUOROMETHANE	34488			<	5.0
28	VINYL CHLORIDE	39175				130

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 5D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __ __:__ __ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Instr.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				610.03
Well Depth Elevation (ft. MSL)	72020				563.60
Depth to Water from Meas. Pt. (ft)	72109				47.50

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW5D (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	5.0 (38–47)
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLOROETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				11
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW 8 (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (64)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	7993				639.09
	Well Depth Elevation (ft. MSL)	7020				634.50
	Depth to Water from Meas. Pt. (ft)	7209				19.32

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW8

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			<	50 (38–47)
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546				240
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLORETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				3,700
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER MW 9 (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (69)

MONITOR POINT SAMPLED BY (see Instructions) ____ (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	7993				638.77
Well Depth Elevation (ft. MSL)	7020				634.50
Depth to Water from Meas. Pt. (ft)	7209				19.54

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW9 (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	50 (38–47)
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546				**1,700**
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLORETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				**2,900**
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW 12 (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __ __:__ __ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	7993				639.09
	Well Depth Elevation (ft. MSL)	7020				636.30
	Depth to Water from Meas. Pt. (ft)	7209				19.31

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER MW12

CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	2.5 (38–47)
2	BROMOFORM	32104			<	5.0
3	BROMOMETHANE	34413			<	5.0
4	CARBON TETRACHLORIDE	32102			<	2.5
5	CHLOROBENZENE	34301			<	2.5
6	CHLOROETHANE	34311			<	5.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	2.5
8	CHLOROFORM	32106			<	2.5
9	CHLOROMETHANE	34418			<	5.0
10	DIBROMOCHLOROMETHANE	32105			<	2.5
11	1,2-DICHLOROBENZENE	34536			<	2.5
12	1,3-DICHLOROBENZENE	34566			<	2.5
13	1,4-DICHLOROBENZENE	34571			<	2.5
14	1,1-DICHLOROETHANE	34496			<	2.5
15	1,2-DICHLOROETHANE	34531			<	2.5
16	1,1-DICHLOROETHYLENE	34501			<	2.5
17	CIS-1,2-DICHLOROETHYLENE	34546			<	2.5
18	1,2-DICHLOROPROPANE	34541			<	2.5
19	CIS-1,3-DICHLOROPROPENE	34704			<	2.5
20	TRANS-1,3-DICHLOROPROPENE	34699			<	2.5
21	METHYLENE CHLORIDE	34423			<	5.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	2.5
23	TETRACHLORETHYLENE	34475			<	2.5
24	1,1,1-TRICHLOROETHANE	34506			<	2.5
25	1,1,2-TRICHLOROETHANE	34511			<	2.5
26	TRICHLOROETHYLENE	39180				1,300
27	TRICHLOROFLUOROMETHANE	34488			<	5.0
28	VINYL CHLORIDE	39175			<	5.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW 13 (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __ __:__ __ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60)

OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	7993				639.17
	Well Depth Elevation (ft. MSL)	7220				635.80
	Depth to Water from Meas. Pt. (ft)	7209				19.25

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW13

CO. Cook

DATE COLLECTED 1 0 / 2 / 1 9 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	5.0 (38–47)
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLORETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				190
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

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**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 14A (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB ____ (29)

DATE RECEIVED __ __/__ __/__ __ (42 M D Y 47)

BACKGROUND SAMPLE (X) ____ (54)

TIME COLLECTED (24 Hr. Clock) __ __ : __ __ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) ____ (59)

MONITOR POINT SAMPLED BY (see Instructions) ____ (60) OTHER (SPECIFY) ____

SAMPLE FIELD FILTERED — INORGANICS (X) ____ (61) ORGANICS (X) ____ (62)

SAMPLE APPEARANCE (63) ____ (102)

COLLECTOR COMMENTS (103) ____ (142)

LAB COMMENTS (150) ____ (199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				617.03
Well Depth Elevation (ft. MSL)	72020				607.70
Depth to Water from Meas. Pt. (ft)	72109				40.15

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW14A (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	500 (38–47)
2	BROMOFORM	32104			<	1,000
3	BROMOMETHANE	34413			<	1,000
4	CARBON TETRACHLORIDE	32102			<	500
5	CHLOROBENZENE	34301			<	500
6	CHLOROETHANE	34311			<	1,000
7	2-CHLOROETHYLVINYL ETHER	34576			<	500
8	CHLOROFORM	32106			<	500
9	CHLOROMETHANE	34418			<	1,000
10	DIBROMOCHLOROMETHANE	32105			<	500
11	1,2-DICHLOROBENZENE	34536			<	500
12	1,3-DICHLOROBENZENE	34566			<	500
13	1,4-DICHLOROBENZENE	34571			<	500
14	1,1-DICHLOROETHANE	34496			<	500
15	1,2-DICHLOROETHANE	34531			<	500
16	1,1-DICHLOROETHYLENE	34501			<	500
17	CIS-1,2-DICHLOROETHYLENE	34546			<	500
18	1,2-DICHLOROPROPANE	34541			<	500
19	CIS-1,3-DICHLOROPROPENE	34704			<	500
20	TRANS-1,3-DICHLOROPROPENE	34699			<	500
21	METHYLENE CHLORIDE	34423			<	1,000
22	1,1,2,2-TETRACHLORETHANE	34516			<	500
23	TETRACHLORETHYLENE	34475			<	500
24	1,1,1-TRICHLOROETHANE	34506			<	500
25	1,1,2-TRICHLOROETHANE	34511			<	500
26	TRICHLOROETHYLENE	39180				32,000
27	TRICHLOROFLUOROMETHANE	34488			<	1,000
28	VINYL CHLORIDE	39175			<	1,000

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 14C (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __ __:__ __ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (69)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	7993				603.54
	Well Depth Elevation (ft. MSL)	7220				588.90
	Depth to Water from Meas. Pt. (ft)	7209				51.19

This Agency is authorised to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
IPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW14C (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 9 / 9 2 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	50 (38–47)
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546				120
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLORETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				1,800
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 14D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/22/92 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
	TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
	Elevation of GW Surface (ft. MSL)	71993				606.68
	Well Depth Elevation (ft. MSL)	72020				568.70
	Depth to Water from Meas. Pt. (ft)	72109				46.90

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW14D (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 9 / 9 2 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLORETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180			<	0.50
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER (see Instructions) MW 15A (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	7193				633.60
	Well Depth Elevation (ft. MSL)	7220				617.50
	Depth to Water from Meas. Pt. (ft)	7209				23.27

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW15A (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLORETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180			<	0.50
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213

LPC 160 1/90 (CONT)

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DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 15B (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				642.94
	Well Depth Elevation (ft. MSL)	72020				634.80
	Depth to Water from Meas. Pt. (ft)	72109				13.95

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7) TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW15B

CO. Cook

DATE COLLECTED 1 0 2 1 9 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180			<	0.50
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 17A (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 8 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
	TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
	Elevation of GW Surface (ft. MSL)	71993				618.10
	Well Depth Elevation (ft. MSL)	72020				610.20
	Depth to Water from Meas. Pt. (ft)	72109				40.00

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW17A (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 8 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
1	BROMODICHLOROMETHANE	32101			<	0.50
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				0.66
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7) TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW17A DUP

CO. Cook

DATE COLLECTED 1 0 / 2 8 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				0.86
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (8–18)

MONITOR POINT NUMBER (see Instructions) MW 17B (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/28/92 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
	TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
	Elevation of GW Surface (ft. MSL)	71993				640.44
	Well Depth Elevation (ft. MSL)	72020				632.30
	Depth to Water from Meas. Pt. (ft)	72109				17.10

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW17B

CO. Cook

DATE COLLECTED 1 0 / 2 8 / 9 2 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	50 (38–47)
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	50
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLOROETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				530
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 18A (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __ __:__ __ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				613.36
	Well Depth Elevation (ft. MSL)	72020				606.00
	Depth to Water from Meas. Pt. (ft)	72109				44.29

This Agency is authorised to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
IPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW18A (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	500 (38–47)
2	BROMOFORM	32104			<	1,000
3	BROMOMETHANE	34413			<	1,000
4	CARBON TETRACHLORIDE	32102			<	500
5	CHLOROBENZENE	34301			<	500
6	CHLOROETHANE	34311			<	1,000
7	2-CHLOROETHYLVINYL ETHER	34576			<	500
8	CHLOROFORM	32106			<	500
9	CHLOROMETHANE	34418			<	1,000
10	DIBROMOCHLOROMETHANE	32105			<	500
11	1,2-DICHLOROBENZENE	34536			<	500
12	1,3-DICHLOROBENZENE	34566			<	500
13	1,4-DICHLOROBENZENE	34571			<	500
14	1,1-DICHLOROETHANE	34496			<	500
15	1,2-DICHLOROETHANE	34531			<	500
16	1,1-DICHLOROETHYLENE	34501			<	500
17	CIS-1,2-DICHLOROETHYLENE	34546			<	500
18	1,2-DICHLOROPROPANE	34541			<	500
19	CIS-1,3-DICHLOROPROPENE	34704			<	500
20	TRANS-1,3-DICHLOROPROPENE	34699			<	500
21	METHYLENE CHLORIDE	34423			<	1,000
22	1,1,2,2-TETRACHLORETHANE	34516			<	500
23	TETRACHLORETHYLENE	34475			<	500
24	1,1,1-TRICHLOROETHANE	34506			<	500
25	1,1,2-TRICHLOROETHANE	34511			<	500
26	TRICHLOROETHYLENE	39180				6,000
27	TRICHLOROFLUOROMETHANE	34488			<	1,000
28	VINYL CHLORIDE	39175			<	1,000

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 18B (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 1 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (64)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (69)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				638.91
	Well Depth Elevation (ft. MSL)	72020				626.00
	Depth to Water from Meas. Pt. (ft)	72109				18.42

This Agency is authorised to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
IPC 165 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (9)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–19)

MONITOR POINT NUMBER MW18B

CO. Cook

DATE COLLECTED 1 0 / 2 9 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	50 (38–47)
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	50
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLORETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				1,700
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

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Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER MW 18B1 (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/92 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE _____ (see Instructions) (59)

MONITOR POINT SAMPLED BY _____ (see Instructions) (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (9) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
Elevation of GW Surface (ft. MSL)	71993				639.07
Well Depth Elevation (ft. MSL)	72020				629.20
Depth to Water from Meas. Pt. (ft)	72109				18.03

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW18B1

CO. Cook

DATE COLLECTED 1 0 / 2 / 1 9 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	250 (38–47)
2	BROMOFORM	32104			<	500
3	BROMOMETHANE	34413			<	500
4	CARBON TETRACHLORIDE	32102			<	250
5	CHLOROBENZENE	34301			<	250
6	CHLOROETHANE	34311			<	500
7	2-CHLOROETHYLVINYL ETHER	34576			<	250
8	CHLOROFORM	32106			<	250
9	CHLOROMETHANE	34418			<	500
10	DIBROMOCHLOROMETHANE	32105			<	250
11	1,2-DICHLOROBENZENE	34536			<	250
12	1,3-DICHLOROBENZENE	34566			<	250
13	1,4-DICHLOROBENZENE	34571			<	250
14	1,1-DICHLOROETHANE	34496			<	250
15	1,2-DICHLOROETHANE	34531			<	250
16	1,1-DICHLOROETHYLENE	34501			<	250
17	CIS-1,2-DICHLOROETHYLENE	34546			<	250
18	1,2-DICHLOROPROPANE	34541			<	250
19	CIS-1,3-DICHLOROPROPENE	34704			<	250
20	TRANS-1,3-DICHLOROPROPENE	34699			<	250
21	METHYLENE CHLORIDE	34423			<	500
22	1,1,2,2-TETRACHLORETHANE	34516			<	250
23	TETRACHLORETHYLENE	34475			<	250
24	1,1,1-TRICHLOROETHANE	34506			<	250
25	1,1,2-TRICHLOROETHANE	34511			<	250
26	TRICHLOROETHYLENE	39180				6,400
27	TRICHLOROFLUOROMETHANE	34488			<	500
28	VINYL CHLORIDE	39175			<	500

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Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER MW 18B2 (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/21/92 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				638.86
	Well Depth Elevation (ft. MSL)	72020				629.00
	Depth to Water from Meas. Pt. (ft)	72109				18.65

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW18B2 (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	500 (38–47)
2	BROMOFORM	32104			<	1,000
3	BROMOMETHANE	34413			<	1,000
4	CARBON TETRACHLORIDE	32102			<	500
5	CHLOROBENZENE	34301			<	500
6	CHLOROETHANE	34311			<	1,000
7	2-CHLOROETHYLVINYL ETHER	34576			<	500
8	CHLOROFORM	32106			<	500
9	CHLOROMETHANE	34418			<	1,000
10	DIBROMOCHLOROMETHANE	32105			<	500
11	1,2-DICHLOROBENZENE	34536			<	500
12	1,3-DICHLOROBENZENE	34566			<	500
13	1,4-DICHLOROBENZENE	34571			<	500
14	1,1-DICHLOROETHANE	34496			<	500
15	1,2-DICHLOROETHANE	34531			<	500
16	1,1-DICHLOROETHYLENE	34501			<	500
17	CIS-1,2-DICHLOROETHYLENE	34546			<	500
18	1,2-DICHLOROPROPANE	34541			<	500
19	CIS-1,3-DICHLOROPROPENE	34704			<	500
20	TRANS-1,3-DICHLOROPROPENE	34699			<	500
21	METHYLENE CHLORIDE	34423			<	1,000
22	1,1,2,2-TETRACHLORETHANE	34516			<	500
23	TETRACHLORETHYLENE	34475			<	500
24	1,1,1-TRICHLOROETHANE	34506			<	500
25	1,1,2-TRICHLOROETHANE	34511			<	500
26	TRICHLOROETHYLENE	39180				20,000
27	TRICHLOROFLUOROMETHANE	34488			<	1,000
28	VINYL CHLORIDE	39175			<	1,000

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213

LPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW 18C (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __ __:__ __ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				608.76
	Well Depth Elevation (ft. MSL)	72020				584.90
	Depth to Water from Meas. Pt. (ft)	72109				48.77

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER MW18C (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.

FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)		(35)	< (36–37)	50 (38–47)
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	50
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLORETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				3,400
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER MW18C DUP

CO. Cook

DATE COLLECTED 1 0 / 2 9 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	50 (38–47)
2	BROMOFORM	32104			<	100
3	BROMOMETHANE	34413			<	100
4	CARBON TETRACHLORIDE	32102			<	50
5	CHLOROBENZENE	34301			<	50
6	CHLOROETHANE	34311			<	100
7	2-CHLOROETHYLVINYL ETHER	34576			<	50
8	CHLOROFORM	32106			<	50
9	CHLOROMETHANE	34418			<	100
10	DIBROMOCHLOROMETHANE	32105			<	50
11	1,2-DICHLOROBENZENE	34536			<	50
12	1,3-DICHLOROBENZENE	34566			<	50
13	1,4-DICHLOROBENZENE	34571			<	50
14	1,1-DICHLOROETHANE	34496			<	50
15	1,2-DICHLOROETHANE	34531			<	50
16	1,1-DICHLOROETHYLENE	34501			<	50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	50
18	1,2-DICHLOROPROPANE	34541			<	50
19	CIS-1,3-DICHLOROPROPENE	34704			<	50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	50
21	METHYLENE CHLORIDE	34423			<	100
22	1,1,2,2-TETRACHLORETHANE	34516			<	50
23	TETRACHLORETHYLENE	34475			<	50
24	1,1,1-TRICHLOROETHANE	34506			<	50
25	1,1,2-TRICHLOROETHANE	34511			<	50
26	TRICHLOROETHYLENE	39180				3,200
27	TRICHLOROFLUOROMETHANE	34488			<	100
28	VINYL CHLORIDE	39175			<	100

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Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
LPC 160 1/90 (CONT)

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 18D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED ___/___/___ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __ __:__ __ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (9) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				
	Well Depth Elevation (ft. MSL)	72020				562.00
	Depth to Water from Meas. Pt. (ft)	72109				

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7) TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW18D

CO. Cook

DATE COLLECTED 1 0 / 2 9 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	5.0 (38–47)
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLORETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				81
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

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Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE (1–7): L P C S M 0 1
TRANS CODE (8): A

REPORT DUE DATE (36–41): 01/15/93 (M D Y)

FEDERAL ID NUMBER: ILD085352474

SITE INVENTORY NUMBER (9–18): 0310635072

MONITOR POINT NUMBER (see Instructions) (19–22): MW19A

REGION: Maywood CO.: Cook

DATE COLLECTED (23–28): 10/22/92 (M D Y)

FACILITY NAME: Kearney-National, Inc.

FOR IEPA USE ONLY

LAB (29): _____

DATE RECEIVED (42–47): __/__/__ (M D Y)

BACKGROUND SAMPLE (X) (54): _____

TIME COLLECTED (24 Hr. Clock) (55–58): __:__ (H M)

UNABLE TO COLLECT SAMPLE (see Instructions) (59): _____

MONITOR POINT SAMPLED BY (see Instructions) (60): _____ OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) (61): _____ ORGANICS (X) (62): _____

SAMPLE APPEARANCE (63–102):

COLLECTOR COMMENTS (103–142):

LAB COMMENTS (150–199):

RECORD CODE (1–7): L P C S M 0 2 TRANS CODE (8): A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
Elevation of GW Surface (ft. MSL)	7193				624.86
Well Depth Elevation (ft. MSL)	7220				608.70
Depth to Water from Meas. Pt. (ft)	7209				33.34

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Columns 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7) TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER MW19A (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			< (37)	2.5 (38–47)
2	BROMOFORM	32104			<	5.0
3	BROMOMETHANE	34413			<	5.0
4	CARBON TETRACHLORIDE	32102			<	2.5
5	CHLOROBENZENE	34301			<	2.5
6	CHLOROETHANE	34311			<	5.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	2.5
8	CHLOROFORM	32106			<	2.5
9	CHLOROMETHANE	34418			<	5.0
10	DIBROMOCHLOROMETHANE	32105			<	2.5
11	1,2-DICHLOROBENZENE	34536			<	2.5
12	1,3-DICHLOROBENZENE	34566			<	2.5
13	1,4-DICHLOROBENZENE	34571			<	2.5
14	1,1-DICHLOROETHANE	34496			<	2.5
15	1,2-DICHLOROETHANE	34531			<	2.5
16	1,1-DICHLOROETHYLENE	34501			<	2.5
17	CIS-1,2-DICHLOROETHYLENE	34546			<	2.5
18	1,2-DICHLOROPROPANE	34541			<	2.5
19	CIS-1,3-DICHLOROPROPENE	34704			<	2.5
20	TRANS-1,3-DICHLOROPROPENE	34699			<	2.5
21	METHYLENE CHLORIDE	34423			<	5.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	2.5
23	TETRACHLORETHYLENE	34475			<	2.5
24	1,1,1-TRICHLOROETHANE	34506			<	2.5
25	1,1,2-TRICHLOROETHANE	34511			<	2.5
26	TRICHLOROETHYLENE	39180				240
27	TRICHLOROFLUOROMETHANE	34488			<	5.0
28	VINYL CHLORIDE	39175			<	5.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 / 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–19)

MONITOR POINT NUMBER (see Instructions) MW 20A (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 8 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (69)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (uq/L) (38–47)
	TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
	Elevation of GW Surface (ft. MSL)	71993				619.98
	Well Depth Elevation (ft. MSL)	72020				607.70
	Depth to Water from Meas. Pt. (ft)	72109				37.43

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Date in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW20A (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 8 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
1	BROMODICHLOROMETHANE	32101			<	0.50
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180			<	0.50
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 20B (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/28/92 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (69)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	7193				640.60
	Well Depth Elevation (ft. MSL)	7220				622.20
	Depth to Water from Meas. Pt. (ft)	7209				16.72

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER MW20B (19–22)

CO. Cook

Kearney-National, Inc.
FACILITY NAME

DATE COLLECTED 1 0 / 2 8 / 9 2 (23 M D Y 28)

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
1	BROMODICHLOROMETHANE	32101			<	0.50
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLOROETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180			<	0.50
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (8–18)

MONITOR POINT NUMBER (see Instructions) MW 22A (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	71993				632.76
	Well Depth Elevation (ft. MSL)	72020				603.50
	Depth to Water from Meas. Pt. (ft)	72109				25.02

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47

IL 532 1213
IPC 166 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW22A

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	5.0 (38–47)
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLOROETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				15
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

**Only Keypunch with Data in Column 35 or Columns 38-47*

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/93 (36 M D Y 41)

FEDERAL ID NUMBER ILD085352474

SITE INVENTORY NUMBER 0310635072 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 23C (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/22/92 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (160–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER (30–34)	Remarks See Inst. (35)	Replicate (36)	< or > (37)	VALUE (ug/L) (38–47)
	TEMP. OF WATER SAMPLE (unfiltered)	00011				60 °F
	Elevation of GW Surface (ft. MSL)	71993				609.06
	Well Depth Elevation (ft. MSL)	72020				587.70
	Depth to Water from Meas. Pt. (ft)	72109				48.19

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 (1–7)

TRANS CODE A (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW23C

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLORETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				3.8
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 01/15/93 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER (see Instructions) MW 28D (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 10/22/92 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED (24 Hr. Clock) __:__ (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (59)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) OTHER (SPECIFY) _____

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
Elevation of GW Surface (ft. MSL)	71993				607.67
Well Depth Elevation (ft. MSL)	72020				562.50
Depth to Water from Meas. Pt. (ft)	72109				50.00

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7) TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW28D (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	5.0 (38–47)
2	BROMOFORM	32104			<	10
3	BROMOMETHANE	34413			<	10
4	CARBON TETRACHLORIDE	32102			<	5.0
5	CHLOROBENZENE	34301			<	5.0
6	CHLOROETHANE	34311			<	10
7	2-CHLOROETHYLVINYL ETHER	34576			<	5.0
8	CHLOROFORM	32106			<	5.0
9	CHLOROMETHANE	34418			<	10
10	DIBROMOCHLOROMETHANE	32105			<	5.0
11	1,2-DICHLOROBENZENE	34536			<	5.0
12	1,3-DICHLOROBENZENE	34566			<	5.0
13	1,4-DICHLOROBENZENE	34571			<	5.0
14	1,1-DICHLOROETHANE	34496			<	5.0
15	1,2-DICHLOROETHANE	34531			<	5.0
16	1,1-DICHLOROETHYLENE	34501			<	5.0
17	CIS-1,2-DICHLOROETHYLENE	34546			<	5.0
18	1,2-DICHLOROPROPANE	34541			<	5.0
19	CIS-1,3-DICHLOROPROPENE	34704			<	5.0
20	TRANS-1,3-DICHLOROPROPENE	34699			<	5.0
21	METHYLENE CHLORIDE	34423			<	10
22	1,1,2,2-TETRACHLORETHANE	34516			<	5.0
23	TETRACHLORETHYLENE	34475			<	5.0
24	1,1,1-TRICHLOROETHANE	34506			<	5.0
25	1,1,2-TRICHLOROETHANE	34511			<	5.0
26	TRICHLOROETHYLENE	39180				31
27	TRICHLOROFLUOROMETHANE	34488			<	10
28	VINYL CHLORIDE	39175			<	10

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW28D DUP

CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)			<	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLORETHYLENE	34475				0.98
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				35
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

RECORD CODE: L P C S M 0 1 (1–7) TRANS CODE: A (8)

REPORT DUE DATE 0 1 1 5 / 9 3 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW 29D (see Instructions) (19–22)

REGION Maywood CO. Cook

DATE COLLECTED 1 0 / 2 2 / 9 2 (23 M D Y 28)

FACILITY NAME Kearney-National, Inc.

FOR IEPA USE ONLY

LAB _____ (29)

DATE RECEIVED __/__/__ (42 M D Y 47)

BACKGROUND SAMPLE (X) _____ (54)

TIME COLLECTED __:__ (24 Hr. Clock) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) _____ (69)

MONITOR POINT SAMPLED BY (see Instructions) _____ (60) _____ OTHER (SPECIFY)

SAMPLE FIELD FILTERED — INORGANICS (X) _____ (61) ORGANICS (X) _____ (62)

SAMPLE APPEARANCE (63–102)

COLLECTOR COMMENTS (103–142)

LAB COMMENTS (150–199)

RECORD CODE L P C S M 0 2 (1–7) TRANS CODE A (8) (COLUMNS 9-29 FROM ABOVE)

	FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
	TEMP. OF WATER SAMPLE (unfiltered)	00011 (30–34)	(35)	(36)	(37)	60 °F (38–47)
	Elevation of GW Surface (ft. MSL)	7193				609.73
	Well Depth Elevation (ft. MSL)	7202				562.50
	Depth to Water from Meas. Pt. (ft)	7209				48.10

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so so may result in a civil penalty up to $25,000 for each day the failure continues a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center. *Only Keypunch with Data in Column 35 or Columns 38-47*

IL 532 1213
LPC 160 01/90

IEPA/DLPC

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | 0 | 2 | (1–7)

TRANS CODE | A | (8)

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9–18)

MONITOR POINT NUMBER MW29D (19–22)

CO. Cook

DATE COLLECTED 1 0 / 2 9 / 9 2 (23 M D Y 28)

Kearney-National, Inc.
FACILITY NAME

LAB ____ (29)

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	Remarks See Inst.	Replicate	< or >	VALUE (ug/L)
1	BROMODICHLOROMETHANE	32101 (30–34)	(35)	(36)	< (37)	0.50 (38–47)
2	BROMOFORM	32104			<	1.0
3	BROMOMETHANE	34413			<	1.0
4	CARBON TETRACHLORIDE	32102			<	0.50
5	CHLOROBENZENE	34301			<	0.50
6	CHLOROETHANE	34311			<	1.0
7	2-CHLOROETHYLVINYL ETHER	34576			<	0.50
8	CHLOROFORM	32106			<	0.50
9	CHLOROMETHANE	34418			<	1.0
10	DIBROMOCHLOROMETHANE	32105			<	0.50
11	1,2-DICHLOROBENZENE	34536			<	0.50
12	1,3-DICHLOROBENZENE	34566			<	0.50
13	1,4-DICHLOROBENZENE	34571			<	0.50
14	1,1-DICHLOROETHANE	34496			<	0.50
15	1,2-DICHLOROETHANE	34531			<	0.50
16	1,1-DICHLOROETHYLENE	34501			<	0.50
17	CIS-1,2-DICHLOROETHYLENE	34546			<	0.50
18	1,2-DICHLOROPROPANE	34541			<	0.50
19	CIS-1,3-DICHLOROPROPENE	34704			<	0.50
20	TRANS-1,3-DICHLOROPROPENE	34699			<	0.50
21	METHYLENE CHLORIDE	34423			<	1.0
22	1,1,2,2-TETRACHLORETHANE	34516			<	0.50
23	TETRACHLORETHYLENE	34475			<	0.50
24	1,1,1-TRICHLOROETHANE	34506			<	0.50
25	1,1,2-TRICHLOROETHANE	34511			<	0.50
26	TRICHLOROETHYLENE	39180				2.5
27	TRICHLOROFLUOROMETHANE	34488			<	1.0
28	VINYL CHLORIDE	39175			<	1.0

All analytical procedures must be performed in accordance with the methods contained in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 or equivalent methods approved by the Agency. Proper sample chain of custody control and quality assurance/quality control procedures must be maintained in accordance with the facility sampling and analysis plan.

Only Keypunch with Data in Column 35 or Columns 38-47

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APPENDIX C

ANALYTICAL LABORATORY REPORTS

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-2	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0861	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-4A	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0874	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

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1380 Busch Parkway • Buffalo Grove, Illinois 60089
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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-4B	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0863	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	2.5	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	2,000
trans-1,2-Dichloroethene	2.5	4.0
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	N.D.
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	2.5	88
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	130

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-5D	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0879	Revised Report:	Dec 8, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	11
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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1380 Busch Parkway • Buffalo Grove, Illinois 60089
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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-8	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0865	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	**50**	**240**
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**3,700**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-9	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0868	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	1,700
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	2,900
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-12	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0864	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	2.5	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	N.D.
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	**2.5**	**1,300**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-13	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0867	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**190**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-14A	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0884	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	500	N.D.
Bromoform	1,000	N.D.
Bromomethane	1,000	N.D.
Carbon tetrachloride	500	N.D.
Chlorobenzene	500	N.D.
Chloroethane	1,000	N.D.
2-Chloroethylvinyl ether	500	N.D.
Chloroform	500	N.D.
Chloromethane	1,000	N.D.
Dibromochloromethane	500	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
1,1-Dichloroethane	500	N.D.
1,2-Dichloroethane	500	N.D.
1,1-Dichloroethene	500	N.D.
cis-1,2-Dichloroethene	500	N.D.
trans-1,2-Dichloroethene	500	N.D.
1,2-Dichloropropane	500	N.D.
cis-1,3-Dichloropropene	500	N.D.
trans-1,3-Dichloropropene	500	N.D.
Methylene chloride	1,000	N.D.
1,1,2,2-Tetrachloroethane	500	N.D.
Tetrachloroethene	500	N.D.
1,1,1-Trichloroethane	500	N.D.
1,1,2-Trichloroethane	500	N.D.
Trichloroethene	**500**	**32,000**
Trichlorofluoromethane	1,000	N.D.
Vinyl chloride	1,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

2100861.DEP <24>

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-14C	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0882	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	**50**	**120**
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**1,800**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-14D	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0873	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Laboratory Director

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-15A	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0875	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-15B	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0862	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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DePaul and Associates	Client Project ID:	6330 IPM	Sampled:	Oct 28, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-17A	Received:	Oct 28, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 3, 1992
Attention: James VanNortwick	Lab Number:	210-1125	Reported:	Nov 5, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**0.66**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

2101174.DEP <2>

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1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330 IPM	Sampled:	Oct 28, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-17A Dup	Received:	Oct 28, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 3, 1992
Attention: James VanNortwick	Lab Number:	210-1126	Reported:	Nov 6, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	0.86
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Kevin W. Keeley
Laboratory Director

2101174.DEP <3>

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(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330 IPM	Sampled:	Oct 28, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-17B	Received:	Oct 28, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 3, 1992
Attention: James VanNortwick	Lab Number:	210-1124	Reported:	Nov 5, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	530
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

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Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

2101174.DEP <1>

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-18A	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0883	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	500	N.D.
Bromoform	1,000	N.D.
Bromomethane	1,000	N.D.
Carbon tetrachloride	500	N.D.
Chlorobenzene	500	N.D.
Chloroethane	1,000	N.D.
2-Chloroethylvinyl ether	500	N.D.
Chloroform	500	N.D.
Chloromethane	1,000	N.D.
Dibromochloromethane	500	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
1,1-Dichloroethane	500	N.D.
1,2-Dichloroethane	500	N.D.
1,1-Dichloroethene	500	N.D.
cis-1,2-Dichloroethene	500	N.D.
trans-1,2-Dichloroethene	500	N.D.
1,2-Dichloropropane	500	N.D.
cis-1,3-Dichloropropene	500	N.D.
trans-1,3-Dichloropropene	500	N.D.
Methylene chloride	1,000	N.D.
1,1,2,2-Tetrachloroethane	500	N.D.
Tetrachloroethene	500	N.D.
1,1,1-Trichloroethane	500	N.D.
1,1,2-Trichloroethane	500	N.D.
Trichloroethene	**500**	**6,000**
Trichlorofluoromethane	1,000	N.D.
Vinyl chloride	1,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Kevin W. Keeley
Laboratory Director

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-18B	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0866	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**1,700**
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Laboratory Director

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-1BB1	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0869	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	250	N.D.
Bromoform	500	N.D.
Bromomethane	500	N.D.
Carbon tetrachloride	250	N.D.
Chlorobenzene	250	N.D.
Chloroethane	500	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	250	N.D.
Chloromethane	500	N.D.
Dibromochloromethane	250	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
1,1-Dichloroethane	250	N.D.
1,2-Dichloroethane	250	N.D.
1,1-Dichloroethene	250	N.D.
cis-1,2-Dichloroethene	250	N.D.
trans-1,2-Dichloroethene	250	N.D.
1,2-Dichloropropane	250	N.D.
cis-1,3-Dichloropropene	250	N.D.
trans-1,3-Dichloropropene	250	N.D.
Methylene chloride	500	N.D.
1,1,2,2-Tetrachloroethane	250	N.D.
Tetrachloroethene	250	N.D.
1,1,1-Trichloroethane	250	N.D.
1,1,2-Trichloroethane	250	N.D.
Trichloroethene	**250**	**6,400**
Trichlorofluoromethane	500	N.D.
Vinyl chloride	500	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 21, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-18B2	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0870	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	500	N.D.
Bromoform	1,000	N.D.
Bromomethane	1,000	N.D.
Carbon tetrachloride	500	N.D.
Chlorobenzene	500	N.D.
Chloroethane	1,000	N.D.
2-Chloroethylvinyl ether	500	N.D.
Chloroform	500	N.D.
Chloromethane	1,000	N.D.
Dibromochloromethane	500	N.D.
1,2-Dichlorobenzene	500	N.D.
1,3-Dichlorobenzene	500	N.D.
1,4-Dichlorobenzene	500	N.D.
1,1-Dichloroethane	500	N.D.
1,2-Dichloroethane	500	N.D.
1,1-Dichloroethene	500	N.D.
cis-1,2-Dichloroethene	500	N.D.
trans-1,2-Dichloroethene	500	N.D.
1,2-Dichloropropane	500	N.D.
cis-1,3-Dichloropropene	500	N.D.
trans-1,3-Dichloropropene	500	N.D.
Methylene chloride	1,000	N.D.
1,1,2,2-Tetrachloroethane	500	N.D.
Tetrachloroethene	500	N.D.
1,1,1-Trichloroethane	500	N.D.
1,1,2-Trichloroethane	500	N.D.
Trichloroethene	500	20,000
Trichlorofluoromethane	1,000	N.D.
Vinyl chloride	1,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-18C	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0885	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	3,400
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-18C Duplicate	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0886	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	50	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	50	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	50	N.D.
1,3-Dichlorobenzene	50	N.D.
1,4-Dichlorobenzene	50	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	50	3,200
Trichlorofluoromethane	100	N.D.
Vinyl chloride	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-18D	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0881	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**81**
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-19A	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0880	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	2.5	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	N.D.
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	N.D.
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	**2.5**	**240**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330 IPM	Sampled:	Oct 28, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-20A	Received:	Oct 28, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 3, 1992
Attention: James VanNortwick	Lab Number:	210-1129	Reported:	Nov 5, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330 IPM	Sampled:	Oct 28, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-20B	Received:	Oct 28, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 3, 1992
Attention: James VanNortwick	Lab Number:	210-1127	Reported:	Nov 5, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-22A	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0876	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	15
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-23C	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0872	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	3.8
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-28D	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0877	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	5.0	N.D.
Bromoform	10	N.D.
Bromomethane	10	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	31
Trichlorofluoromethane	10	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-28D Duplicate	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0878	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**0.98**
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	**0.50**	**35**
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330, Kearney National	Sampled:	Oct 22, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: MW-29D	Received:	Oct 22, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	10/24 - 10/29
Attention: James VanNortwick	Lab Number:	210-0871	Reported:	Oct 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	2.5
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

2100861.DEP <11>

GREAT
LAKES
ANALYTICAL

1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

DePaul and Associates	Client Project ID:	6330 IPM	Sampled:	Oct 28, 1992
5 Revere Dr. Suite 310	Sample Descript:	Water: Blank	Received:	Oct 28, 1992
Northbrook, IL 60622	Analysis Method:	EPA 5030/8010	Analyzed:	Nov 3, 1992
Attention: James VanNortwick	Lab Number:	210-1128	Reported:	Nov 5, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane	0.50	N.D.
Bromoform	1.0	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	0.50	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	1.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

CHAIN-OF-CUSTODY RECORD

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CLIENT NAME: Kearney National	PROJECT #: 6330	SUBMITTED TO: Great Lakes Analytical
	PURCHASE ORDER #: 366	SAMPLED BY: J. Puckett and Shawn Lane

SAMPLE NUMBER	SAMPLE LOCATON/ DESCRIPTION	SAMPLE DATE	SAMPLE TYPE (water, soil, composite, etc.)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
1	MW-2	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100861
2	MW-15B	10/21/92	water	2	8010 Chlorinated Hydrocarbons	2100862
3	MW-4B	10/21/92	water	2	8010 Chlorinated Hydrocarbons	2100863
4	MW-12	10/21/92	water	2	8010 Chlorinated Hydrocarbons	2100864
5	MW-8	10/21/92	water	2	8010 Chlorinated Hydrocarbons	2100865
6	MW-18B	10/21/92	water	2	8010 Chlorinated Hydrocarbons	2100866
7	MW-13	10/21/92	water	2	8010 Chlorinated Hydrocarbons	2100867
8	MW-9	10/21/92	water	2	8010 Chlorinated Hydrocarbons	2100868
9	MW-18B1	10/21/92	Water	2	8010 Chlorinated Hydrocarbons	2100869
10	MW-18B2	10/21/92	water	2	8010 Chlorinated Hydrocarbons	2100870
11	MW-29D	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100871
12	MW-23C	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100872

☞ Method Detection Limit of 0.01-ppm or less required ☜

SIGNATURE	FIRM	INCLUSIVE DATES	COMMENTS
John G. Puckett	DePaul & Assoc.	10/21-22/92	
Lesley Jankowsky	GLA	10/22/92 1635	

CHAIN-OF-CUSTODY RECORD

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CLIENT NAME: Kearney National	PROJECT #: 6330	SUBMITTED TO: Great Lakes Analytical
	PURCHASE ORDER #: 366	SAMPLED BY: J. Puckett and S. Lane

SAMPLE NUMBER	SAMPLE LOCATON/ DESCRIPTION	SAMPLE DATE	SAMPLE TYPE (water, soil, composite, etc.)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
13	MW-14D	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100873
14	MW-4A	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100874
15	MW-15A	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100875
16	MW-22A	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100876
17	MW28D	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100877
18	MW-28D Duplicate	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100878
19	MW-5D	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100879
20	MW-19A	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100880
21	MW-18D	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100881
22	MW-14C	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100882
23	MW-18A	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100883
24	MW-14A	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100884

☞ Method Detection Limit of 0.01-ppm or less required ☜

SIGNATURE	FIRM	INCLUSIVE DATES	COMMENTS
John G. Puckett	DePaul & Assoc.	10/22/92	
Lesley Jankausky	GLA	10/23/92 1635	

CHAIN-OF-CUSTODY RECORD

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CLIENT NAME: Kearney National	PROJECT #: 6330	SUBMITTED TO: Great Lakes Analytical
	PURCHASE ORDER #: 366	SAMPLED BY: J. Puckett and S. Lank

SAMPLE NUMBER	SAMPLE LOCATON/ DESCRIPTION	SAMPLE DATE	SAMPLE TYPE (water, soil, composite, etc.)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
25	MW-18C	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100885
26	MW-18C Duplicate	10/22/92	water	2	8010 Chlorinated Hydrocarbons	2100886

☞ Method Detection Limit of 0.01-ppm or less required ☜

SIGNATURE	FIRM	INCLUSIVE DATES	COMMENTS
John Puckett	DePaul & Assoc.	10/22/92	
Lesley Jankowsky	GLA	10/22/92 1635	

CHAIN-OF-CUSTODY RECORD

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

CLIENT NAME: IPM	PROJECT #: 6330	SUBMITTED TO: Great Lakes Anal
	PURCHASE ORDER #: 690	SAMPLED BY: M. Evans

SAMPLE NUMBER	SAMPLE LOCATON/ DESCRIPTION	SAMPLE DATE	SAMPLE TYPE (water, soil, composite, etc.)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED	COMMENTS
1	MW-17B	10/28	~~Soil~~ WATER	2	2101128010 - Chlorinated	ON ICE
2	MW-17A	10/28		2	2101125 Hydro carbons	
3	MW-17A Dup	10/28		2	2101126	
4	MW-20B	10/28		2	2101127	
5	~~[illegible]~~ Blank	10/28		2	2101128	
6	MW-20A	10/28	Water	2	2101129	
7	Effluent	10/28	water	1	2101130 pH	ASAP

☞ Method Detection Limit of 0.01-ppm or less required ☜

SIGNATURE	FIRM	INCLUSIVE DATES	COMMENTS
M. E.	DAI	10/28	
Lesley Jankowsky	GLA	10/28/92 1705	

APPENDIX D

SUMMARY OF ANALYTICAL RESULTS

GROUNDWATER MONITORING PROGRAM

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-1	07/30/92	<500	**52,000**	<500	<1,000	<500	<500
	07/25/91	**69**	<100	**3,300**	<100	**31**	<100
	01/24/91	**84**	**8,700**	<250	<250	<250	<250
	07/13/90	**222**	**21,400**	**6,151**	**115**	<5	**5.90**
	02/16/90	**100**	**10,000**	**6,100**	<100	<100	<100
	05/08/89	**2,150**	**440,000**	<1,000	<1,000	<1,000	<1,000
	03/09/89	**3,500**	**103,000**	<100	<100	<100	<100
	09/29/88	<10,000	**680,000**	<10,000	<10,000	<10,000	<10,000
MW-2	10/21/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	**1.4**	**21.55**	<1.0	<0.50	<0.50
	07/30/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	04/15/92	0.3	**1.7**	<1.0	<1.8	<0.3	<0.2
	01/13/92	<0.3	**2.8**	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	**6.76**	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	09/29/88	<1	**2**	<1	<1	<1	<1
MW-3	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/25/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	**1.94**	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	09/29/88	<1	**3**	**1**	<1	<1	<1
MW-4B	10/21/92	<2.5	**88**	**2,004**	**130**	<2.5	<2.5
	07/30/92	<2.5	**89**	**170**	<5.0	<2.5	<2.5
	04/15/92	<0.3	**63**	**180**	<1.8	<0.3	<0.2
	01/10/92	<0.3	**90**	**380**	<1.8	<0.3	<0.2
	10/08/91	<5	**65**	**310**	<5	<5	<5
	07/25/91	<5	**140**	**470**	<5	<5	<5
	04/25/91	<5	**190**	**970**	<5	**5**	<5
	01/24/91	**2**	<5	**10**	**100**	<5	**240**
	07/13/90	**1.43**	**252**	**538**	**14.4**	<1	<1
	05/08/89	<1	<1	**32**	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-5B	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-6B	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	2	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-7B	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/24/91	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-8	10/21/92	<50	3,700	240	<100	<50	<50
	07/30/92	<5.0	1,300	87	<10	<5.0	<5.0
	04/15/92	0.45	1,700	59	<1.8	<0.3	<0.2
	01/08/92	<0.3	400	<1	<1.8	<0.3	<0.2
	10/08/91	<1	190	6	<1	<1	<1
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	8	<1	<1	<1	<1
	05/08/89	<1	21	<1	<1	<1	<1
	04/14/89	<1	4	<1	<1	<1	<1
MW-9	10/21/92	<50	2,900	1,700	<100	<50	<50
	07/30/92	<500	6,700	<500	<1,000	<500	<500
	04/16/92	2.4	6,600	110	<1.8	<0.3	<0.20
	01/08/92	<0.3	3,700	110	<1.8	<0.3	<0.2
	10/08/91	<25	620	<25	<25	<25	<25
	07/25/91	<25	620	<25	<25	<25	<25
	04/25/91	<1	1,600	26	<1	<1	<1
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	1	<1	<1	<1	<1
	05/08/89	<1	4	<1	<1	<1	<1
	04/14/89	<1	4	<1	<1	<1	<1
MW-10	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	04/14/89	<1	2	<1	<1	<1	<1
MW-11	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	04/14/89	<1	<1	<1	<1	<1	<1

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-12	10/21/92	<2.5	1,300	<2.5	<5.0	<2.5	<2.5
	07/30/92	<2.5	870	8.6	<5.0	<2.5	<2.5
	04/15/92	<0.30	160	11	<4.0	<0.3	<0.20
	01/08/92	<0.3	340	25	<1.8	<0.3	<0.2
	10/08/91	<25	570	<25	<25	<25	<25
	07/25/91	<25	1,500	<25	<25	<25	<25
	04/25/91	4	770	38	<5	2	<5
	01/25/91	<5	330	<5	<5	2	<5
	07/13/90	1.40	566	39.1	<1	1.84	<1
	02/16/90	<1	1,400	30	<1	<1	<1
MW-13	10/21/92	<5.0	190	<5.0	<10	<5.0	<5.0
	07/30/92	<50	2,100	<50	<100	<50	<50
	04/17/92	0.52	200	8.4	<1.8	1.0	<0.20
	01/08/92	<0.3	19,000	130	<1.8	<0.3	<0.2
	10/08/91	<1	200	27	<1	<1	<1
	01/25/91	<1	74	<1	<1	<1	<1
	07/13/90	<1	1.70	26.4	7.21	<1	<1
	02/16/90	<1	180	2	<1	<1	<1
MW-15B	10/21/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	<0.50	12	<1.0	<0.50	<0.50
	04/15/92	<0.30	<1.2	<1.0	<1.8	<0.30	<0.20
	01/10/92	<0.30	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/11/90	<1	5.05	<1	<1	<1	<1
MW-17B	10/28/92	<50	530	<50	<100	<50	<50
	07/30/92	<5.0	1000	29	<10	<5.0	<5.0
	01/10/92	<0.3	980	58	<1.8	<0.3	<0.2
	10/08/91	<10	710	30	<10	<10	<10
	07/25/91	<10	1,800	33	<10	<10	<10
	04/25/91	<25	600	<25	<25	<25	<25
	01/24/91	<25	900	<25	<25	<25	<25
	07/11/90	25.1	12,600	6.06	<1	<1	<1
MW-18B	10/21/92	<50	1,700	<50	<100	<50	<50
	07/30/92	6.9	1,400	33	<10	<5.0	<5.0
	07/30/92	<20	1,100	<20	<40	<10	<10
	04/16/92	4.5	680	33	<4.0	<0.30	<0.20
	01/09/92	15	1,300	88	<1.8	<0.3	<0.2
	10/08/91	190	5,900	<100	<100	<100	<100
	07/25/91	<100	2,000	<100	<100	<100	<100
	04/25/91	<100	5,700	<100	<100	<100	<100
	01/25/91	<100	5,000	<100	<100	<100	<100
	07/11/90	226	48,500	<1	<1	<1	<1

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-18B1	10/21/92	<500	**6,400**	<500	<1,000	<500	<500
	07/30/92	<500	**7,300**	<500	<1,000	<500	<500
	04/16/92	**56**	**3,400**	**62**	<1.8	<0.3	<0.2
	01/09/92	**53**	**5,500**	**100**	<1.8	<0.3	<0.2
	10/08/91	**100**	**2,000**	**140**	<10	<10	<10
MW-18B2	10/21/92	<500	**20,000**	<500	<1,000	<500	<500
	07/30/92	<0.50	**17,000**	<0.50	<1.0	<0.50	<0.50
	04/16/92	**9.7**	**480**	<1	<4.0	<0.3	<0.2
	01/10/92	**51**	**2,600**	<1	<1.8	<0.3	<0.2
	10/08/91	**50**	**1,600**	<10	<10	<10	<10
MW-20B	10/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/13/92	<0.3	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
MW-21B	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/24/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

A-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-4A	10/22/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	**12**	<0.50	<1.0	<0.50	<0.50
	04/15/92	<0.3	<1.2	<1	<1.8	**1.2**	<0.2
	01/10/92	<0.3	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	**9**	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	**1**	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	**5.79**	**1.70**	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	03/06/90	**4**	**260**	**2**	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-5A	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	**3.49**	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	**2**	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-6A	07/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-7A	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/24/91	<1	<1	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-14A	10/22/92	<500	**32,000**	<500	<1,000	<500	<500
	07/30/92	<500	**20,000**	**1,100**	<1,000	**560**	<500
	04/17/92	**290**	**25,000**	**200**	<1.8	<0.30	<0.20
	01/13/92	**1,900**	**160,000**	**120**	<1.8	<0.3	<0.2
	10/08/91	**370**	**4,800**	**50**	<25	<25	<25
	07/25/91	**160**	**15,000**	**64**	<25	<25	<25
	04/25/91	<100	**1,200**	<100	<100	<100	<100
	01/24/91	<25	**7,400**	<25	<25	<25	<25
	07/11/90	**133**	**22,000**	<1	<1	<1	<1

A-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-15A	10/22/92	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	3.5	<0.50	<1.0	<0.50	<0.50
	04/20/92	<0.3	<0.90	<1	<1.8	<0.30	<0.20
	01/10/92	<0.3	22	<1	<1.8	<0.3	<0.2
	10/08/91	<1	1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/11/90	<1	5.39	<1	<1	<1	<1
MW-16A	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	18.4	<1	<1	<1	<1
MW-17A	10/28/92	<0.50	0.66	<0.50	<1.0	<0.50	<0.50
	10/28/92[1]	<0.50	0.86	<0.50	<1.0	<0.50	<0.50
	07/28/92	<0.50	1.9	<0.50	<1.0	<0.50	<0.50
	01/10/92	<0.3	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	1	<1	<1	<1	<1
	04/25/91	<1	1	<1	<1	<1	<1
MW-18A	10/22/92	<500	6,000	<500	<1,000	<500	<500
	07/30/92	<500	14,000	<500	<1,000	<500	<500
	04/16/92	68	6,200	<1.0	<1.8	<0.30	<0.2
	01/10/92	40	4,800	180	<1.8	<0.3	<0.2
	10/08/91	200	26,000	2,000	<200	<200	<200
	07/25/91	<200	15,000	470	<200	<200	<200
	04/25/91	50	12,000	1,300	<100	<100	<100
	01/25/91	<200	8,000	<200	<200	<200	<200
MW-19A	10/22/92	<2.5	240	<2.5	<5.0	<2.5	<2.5
	07/30/92	<2.5	260	7.5	<5.0	<2.5	<2.5
	04/15/92	<0.30	120	12	<4.0	0.55	<0.2
	01/08/92	<0.3	340	14	<1.8	<0.3	<0.2
	10/08/91	<1	180	4	<1	<1	<1
	01/25/91	<2	100	<2	<2	<2	<2
	07/11/90	<1	292	<1	<1	<1	<1
MW-20A	08/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/28/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	01/13/92	<0.3	<1.2	<1.0	<1.8	<0.3	<0.2
	10/08/91	<1	5	<1	<1	<1	<1
	07/25/91	<1	7	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1

[1] *Duplicate*

A-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER ($\mu g/L$)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-22A	10/22/92	<5.0	**15**	<5.0	<10	<5.0	<5.0
	07/28/92	<0.50	**8.2**	**4.3**	<1.0	<0.50	<0.50
	04/15/92	<0.30	<1.2	<1.0	<1.8	<0.3	<0.2
	01/08/92	<0.3	<1.2	<1.0	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	**6**	<1	<1	<1	<1
	04/25/91	<1	**2**	<1	<1	<1	<1
	01/25/91	<1	**2**	<1	<1	<1	<1
MW-24A	07/29/92	<0.50	**0.79**	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-25A	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-26A	07/29/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-27A	07/29/92	<0.50	**1.4**	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

C-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-14C	10/22/92	<50	**1,800**	**120**	<100	<50	<50
	07/30/92	<5.0	**1,100**	**230**	<10	<5.0	<5.0
	07/30/92	<500	**670**	<500	<1,000	<500	<500
	04/16/92	**4.4**	**1,300**	**130**	<4.0	<0.3	<0.2
	01/13/92	**3.0**	**510**	**140**	<1.8	<0.3	<0.2
	10/08/91	<25	**760**	<25	<25	<25	<25
	07/25/91	<25	**620**	<25	<25	<25	<25
	04/25/91	**2**	**880**	**210**	<1	<1	<1
	03/26/91	<1	**3**	<1	<1	<1	<1
	01/24/91	**8**	**1,130**	<25	<25	<25	<25
MW-18C	10/22/92	<50	**3,400**	<50	<100	<50	<50
	10/22/92[1]	<50	**3,200**	<50	<100	<50	<50
	07/30/92	<500	**20,000**	<500	<1,000	<500	<500
	04/17/92	**2.2**	**1,900**	**36**	<1.8	<0.3	<0.2
	01/10/92	**46**	**17,000**	**140**	<1.8	<0.3	<0.2
	10/08/91	<5	**940**	**84**	<5	<5	<5
	01/25/91	<2	**127**	<2	<2	<2	<2
MW-23C	10/22/92	<0.50	**3.8**	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	**1.1**	<0.50	<1.0	<0.50	<0.50
	04/15/92	**0.46**	<1.2	<1.0	<1.8	<0.3	<0.20
	01/13/92	<0.3	<1.2	<1	<1.8	<0.3	<0.2
	10/08/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

[1] *Duplicate*

D-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-2D	07/29/92	**0.92**	**2.8**	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-5D	10/22/92	<5.0	**11**	<5.0	<10	<5.0	<5.0
	07/29/92	**0.97**	**27**	<0.50	<1.0	<0.50	<0.50
	03/21/91	<1	<1	<1	<1	<1	<1
MW-14D	10/22/92	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50
	07/30/92	<0.50	<0.50	**27**	<1.0	<0.50	<0.50
	04/15/92	<0.3	**4.3**	<1	<1.8	<0.30	<0.2
	01/13/92	<0.3	**4.2**	<1	<1.8	<0.3	<0.2
	01/13/92	<0.3	<1.3	<1	<1.8	<0.3	<0.2
	10/08/91	<1	**3**	<1	<1	<1	<1
	07/25/91	<1	**54**	<1	<1	<1	<1
	04/25/91	<1	**3**	<1	<1	<1	<1
MW-18D	10/22/92	<5.0	**81**	<5.0	<10	<5.0	<5.0
	08/05/92	<5.0	**410**	<5.0	<10	<5.0	<5.0
	04/16/92	**4.1**	**300**	**1.2**	<4.0	<0.3	<0.2
	02/20/92	<2	**590**	<1	<1.8	<0.3	<0.2
	02/20/92	<2	**540**	<1	<1.8	<0.3	<0.2
MW-28D	10/22/92	<5.0	**31**	<5.0	<10	<5.0	<5.0
	10/22/92[1]	**0.98**	**35**	<0.50	<0.50	<0.50	<0.50
	08/26/92	<0.5	<0.5	**1.0**	<1.0	<0.5	<0.5
MW-29D	10/22/92	<0.50	**2.5**	<0.50	<1.0	<0.50	<0.50
	08/26/92	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

[1] *Duplicate*

APPENDIX E

GROUNDWATER ELEVATIONS

SUMMARY OF GROUNDWATER ELEVATIONS
(November 2, 1992)

MONITORING WELL	PARAMETERS Based on Mean Sea Level (ft)		
	Elevation of Datum	Depth to Groundwater	Elevation of Groundwater
MW-1	661.15	19.76	641.39
MW-2	661.32	17.01	644.31
MW-2D	660.53	51.79	608.74
MW-3	661.43	17.27	644.16
MW-4A	660.55	43.32	617.23
MW-4B	660.68	18.07	642.61
MW-5A	657.40	22.83	634.57
MW-5B	657.11	16.39	640.72
MW-5D	657.53	47.50	610.03
MW-6A	660.71	DRY	DRY
MW-6B	660.82	17.12	643.70
MW-7A	658.01	31.14	626.87
MW-7B	657.99	18.83	639.16
MW-8	658.41	19.32	639.09
MW-9	658.31	19.54	638.77
MW-10	658.26	19.35	638.91
MW-11	658.16	19.28	638.88
MW-12	658.40	19.31	639.09
MW-13	658.42	19.25	639.17
MW-14A	657.18	40.15	617.03
MW-14C	654.73	51.19	603.54
MW-14D	653.58	46.90	606.68
MW-15A	656.87	23.27	633.60
MW-15B	656.89	13.95	642.94

Continued on following page

SUMMARY OF GROUNDWATER ELEVATIONS
(November 2, 1992)

MONITORING WELL	PARAMETERS Based on Mean Sea Level (ft)		
	Elevation of Datum	Depth to Groundwater	Elevation of Groundwater
MW-16A	660.90	43.33	617.57
MW-17A	658.10	40.00	618.10
MW-17B	657.54	17.10	640.44
MW-18A	657.65	44.29	613.36
MW-18B	657.33	18.42	638.91
MW-18B1	657.10	18.03	639.07
MW-18B2	657.51	18.65	638.86
MW-18C	657.53	48.77	608.76
MW-18D	657.09	*	*
MW-19A	658.20	33.34	624.86
MW-20A	657.41	37.43	619.98
MW-20B	657.32	16.72	640.60
MW-21B	657.94	27.08	630.86
MW-22A	657.78	25.02	632.76
MW-23C	657.25	48.19	609.06
MW-24A	657.41	21.91	635.50
MW-25A	656.54	21.13	635.41
MW-26A	656.67	22.67	634.00
MW-27A	661.09	41.32	619.77
MW-28D	657.67	50.00	607.67
MW-29D	657.83	48.10	609.73

* Currently operated as an extraction well

APPENDIX F

GROUNDWATER RECOVERY WELL CONSTRUCTION DATA

GROUNDWATER RECOVERY (PURGE) WELLS

Well Number	Date Installed	Date Operation Begun	Designation	Well Diameter (inches)	Well Depth (ft bgs)	Screened Interval (ft bgs)
PW-1	8/89	2/91	B	4	30	15-30
PW-2	9/89	2/91	B	4	30	15-30
PW-3	9/89	2/91	B	4	30	15-30
PW-4	9/89	2/91	B	4	30	15-30
PW-5	9/89	2/91	B	4	30	15-30
PW-6	9/89	2/91	B	4	30	15-30
PW-7	9/89	2/91	B	4	30	15-30
PW-8	9/89	2/91	B	4	30	15-30
PW-9	9/89	2/91	B	4	30	15-30
PW-10	12/90	1/91	A,B	4	85	10-30, 35-65
PW-11	12/90	1/91	A,B	4	85	10-30, 35-65
PW-12	12/90	1/91	A,B	4	85	10-30, 35-60
PW-13	7/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-14	7/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-15	6/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-16	6/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-17	7/91	9/91	A,B,C	4	73	3-28, 33-48, 53-63
PW-18	7/91	9/91	A,B,C	4	73	3-28, 33-48, 53-63
PW-19	6/91	9/91	B	4	35.25	5.25-35.25
PW-20	6/91	9/91	B	4	35.25	5-35.25
PW-21	7/91	9/91	B	4	25	5-25
MW-18D	1/92	4/92	D	2	96	91-96

APPENDIX G

NPDES SAMPLING RESULTS

(EPA SW-846 Method 8010)

SUMMARY OF MONTHLY NPDES SAMPLING RESULTS ($\mu g/L$)

Sample Location	Sample Date	Parameters						
		PCE	TCE	1,1-DCE	cis-1,2-DCE	VC	1,1,1-TCA	1,1,2-TCA
Influent	12/28/90	<25	0	<25	*	<25	<25	<25
	01/04/91	<5	460	16	*	<5	<5	<5
	01/09/91	<5	340	<5	*	<5	<5	<5
	01/18/91	<1	300	<1	*	<1	<1	<1
	01/23/91	3	330	<5	*	<5	<5	<5
	02/01/91	<5	430	<5	*	<5	<5	<5
	02/06/91	<10	1,100	<10	*	<10	<10	<10
	02/21/91	40	1,400	<10	*	<10	8	<10
	03/06/91	<5	110	<5	<5	<5	<5	<5
	04/02/91	<5	680	<5	19	<5	<5	<5
	06/04/91	<5	370	<5	<5	<5	<5	<5
	07/01/91	<1	150	<1	<1	<1	<1	<1
	07/30/91	<10	5,400	<10	32	<10	<10	<10
	09/03/91	<3	75	<10	<10	<10	<3	<10
	10/24/91	<0.3	8,600	<100	<100	<100	<0.3	<100
	11/06/91	<0.3	7,100	<100	150	<100	<0.3	<100
	12/03/91	<30	15,000	<100	320	<100	<100	<100
	01/07/92	230	9,300	<100	290	<100	<30	<100
	02/05/92	480	23,000	<250	<250	<250	<75	<250
	03/03/92	140	19,000	<250	<250	<250	<75	<250
	04/10/92	480	28,000	<250	350	<250	<250	<75
	05/06/92	110	1,100	<10	<10	<10	7	<10
	06/04/92	<3	190	<10	20	<10	10	<10
	06/11/92	230	410	27	340	<10	<3	<10
	06/25/92	62	1,100	<10	330	<10	<3	<10
	07/02/92	<50	9,800	<50	40	<100	<50	<50
	08/05/92	<5,000	150,000	<5,000	<5,000	<10,000	<5,000	<5,000
	09/03/92	<5	2,200	<5	<5	<10	<5	<5
	10/08/92	<50	19,000	<50	370	<100	<50	<50
	11/30/92	<500	9,000	<500	<500	<1,000	<500	<500
	12/08/92	<500	5,900	<500	<500	<1,000	<500	<500

Results not included in laboratory reports.

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

SUMMARY OF MONTHLY NPDES SAMPLING RESULTS ($\mu g/L$)

Sample Location	Sample Date	Parameters						
		PCE	TCE	1,1-DCE	cis-1,2-DCE	VC	1,1,1-TCA	1,1,2-TCA
Between	12/28/90	<1	18	<1	*	<1	<1	<1
	01/04/91	<1	26	<1	*	<1	<1	<1
	01/09/91	<1	3	<1	*	<1	<1	<1
	01/18/91	<1	7	<1	*	<1	<1	<1
	01/23/91	<1	22	<1	*	<1	<1	<1
	02/01/91	<1	12	<1	*	<1	<1	<1
	02/06/91	<1	9	<1	*	<1	<1	<1
	02/21/91	0.3	<1	<1	*	<1	<0.3	<1
	03/06/91	<1	<1	<1	<1	<1	<1	<1
	04/02/91	<1	<1	<1	<1	<1	<1	<1
	06/04/91	<1	<1	<1	<1	<1	<1	<1
	07/01/91	<1	<1	<1	<1	<1	<1	<1
	07/30/91	<1	<1	<1	<1	<1	<1	<1
	09/03/91	<0.3	<1	<1	<1	<1	<0.3	<1
	10/24/91	0.4	150	<1	5	<1	<0.3	<1
	11/06/91	<0.3	85	<1	<1	<1	<0.3	<1
	12/03/91	<0.3	40	<1	2	<1	<0.3	<1
	01/07/92	<1	1	<1	<1	<1	<1	<1
	02/05/92	<0.3	29	<1	<1	<1	0.9	<1
	03/03/92	<0.3	4	<1	<1	<1	<0.3	<1
	04/10/92	13	102	<1	69	<1	<0.3	<1
	05/06/92	<0.3	3	<1	<1	<1	<0.3	<1
	06/04/92	<0.3	<1	<1	61	<1	<0.3	<1
	06/11/92	<0.3	77	3	39	<1	<0.3	<1
	06/25/92	0.8	110	<1	65	<1	<0.3	<1
	07/02/92	<50	1,600	<50	93	<100	<50	<50
	08/05/92	<50	810	<50	<50	<100	<50	<50
	09/03/92	<50	110	<50	7.0	<100	<50	<50
	10/08/92	<5.0	140	<5.0	6.2	<10	<5.0	<5.0
	11/30/92	<10	31	<10	<10	<20	<10	<10
	12/08/92	<50	59	<50	<50	<100	<50	<50

Results not included in laboratory reports.

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

Sample Location	Sample Date	Parameters						
		PCE	TCE	1,1-DCE	cis-1,2-DCE	VC	1,1,1-TCA	1,1,2-TCA
Effluent	12/28/90	<1	5	<1	*	<1	<1	<1
	01/04/91	1	49	<1	*	<1	<1	<1
	01/09/91	<1	2	<1	*	<1	<1	<1
	01/18/91	<1	3	<1	*	<1	<1	<1
	01/23/91	<1	8	<1	*	<1	<1	<1
	02/01/91	<1	2	<1	*	<1	<1	<1
	02/06/91	<1	2	<1	*	<1	<1	<1
	02/21/91	<0.3	<1	<1	*	<1	<0.3	<1
	03/06/91	<1	<1	<1	<1	<1	<1	<1
	04/02/91	<1	<1	<1	<1	<1	<1	<1
	06/04/91	<1	<1	<1	<1	<1	<1	<1
	07/01/91	<1	<1	<1	<1	<1	<1	<1
	07/30/91	<1	<1	<1	<1	<1	<1	<1
	09/03/91	<0.3	<1	<1	<1	<1	<0.3	<1
	10/24/91	<0.3	<1	<1	<1	<1	<0.3	<1
	11/06/91	<0.3	<1	<1	<1	<1	<0.3	<1
	12/03/91	<0.3	41	<1	<1	<1	<1	<1
	01/07/92	<1	5	<1	<1	<1	<1	<1
	02/05/92	<0.3	6	<1	<1	<1	<0.3	<1
	03/03/92	<0.3	<1	<1	<1	<1	<0.3	<1
	04/10/92	<0.3	88	<1	<1	<1	<0.3	<1
	05/06/92	<0.3	<1	<1	<1	<1	<0.3	<1
	06/04/92	<0.3	3	<1	<1	<1	<0.3	<1
	06/11/92	<0.3	2	<1	<1	<1	<0.3	<1
	06/11/92[1]	<0.3	3	<1	<1	<1	<0.3	<1
	06/25/92	<0.3	1	1	2	<1	<0.3	1
	06/25/92[1]	<0.3	<1	<1	<1	<1	<0.3	<1
	07/02/92	<0.50	6.2	<0.50	5.5	<1.0	<0.50	<0.50
	08/05/92	<0.50	43	<0.50	<0.50	<1.0	<0.50	<0.50
	09/03/92	<1	12	<0.5	<0.5	<1	<0.5	<0.5
	10/08/92	<0.50	3.5	<0.50	<0.50	<1.0	<0.50	<0.50
	11/30/92	<50	450	<50	<50	<100	<50	<50
	12/08/92	<0.50	170	<0.50	17	<1.0	<0.50	<0.50

Results not included in laboratory reports.

*Sampling results may not be representative due to leakage of carbon into samples.

PCE = Tetrachloroethylene
TCE = Trichloroethylene
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane

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[1] *Duplicate*

DEPAUL
AND ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS

TELEPHONE (312) 527-5380
154 W. HUBBARD ST.
SUITE 400
CHICAGO, ILLINOIS 60610

TAMPA, FLORIDA

LOS ANGELES, CALIFORNIA

QUARTERLY GROUNDWATER MONITORING AND GROUNDWATER REMEDIATION PROGRESS REPORT IPM COMPANY SITE ILD085352474/RCRA CLOSURE

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JAN 10 1992
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KEARNEY-NATIONAL, INC.
IPM COMPANY SITE
DES PLAINES, ILLINOIS
DAI Project No. 6330

Prepared for: Illinois Environmental Protection Agency
Prepared by: DePaul & Associates, Inc.
Date: January 6, 1992

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1.0 INTRODUCTION

1.1 BACKGROUND

International Products and Manufacturing Company (IPM) maintained an underground spill containment tank and chemical storage room at their facility in Des Plaines, Illinois. In September 1988, IPM engaged ASI Environmental Technologies (ASI) to remove the underground tank (see Figure 1). Volatile organic compound (VOC) contamination, principally trichloroethylene (TCE), was identified in the surrounding soils and groundwater. In response to the presence of contamination, the Illinois Environmental Protection Agency (IEPA) required that a remedial investigation be conducted and corrective actions be initiated to remediate the subsurface contamination following Resource Conservation and Recovery Act (RCRA) regulations. The results of the remedial investigation and the design of the soil and groundwater remediation system have been summarized in previous submittals to IEPA by ASI on behalf of IPM, and Kearney-National, Inc., the current property owner. As part of the containment tank closure plan, a groundwater remediation system has been installed at the site. Groundwater cleanup objective levels for the contaminants of interest were set by IEPA in a letter dated December 27, 1990. The groundwater cleanup objective levels are presented in Table 1.

TABLE 1. GROUNDWATER CLEANUP OBJECTIVE LEVELS (μg/L)

CONTAMINANT	OBJECTIVE LEVEL	CONTAMINANT	OBJECTIVE LEVEL
Trichloroethylene	25.0	1,1,1,2-Tetrachloroethane	210.0
Tetrachloroethylene	25.0	1,1,2-Trichloroethane	25.0
trans-1,2-Dichloroethylene	500.0	1,1,1-Trichloroethane	1,000.0
cis-1,2-Dichloroethylene	200.0	Xylene (total)	10,000.0
Vinyl Chloride	10.0	Ethylbenzene	1,000.0
Carbon Tetrachloride	25.0	Toluene	5,000.0

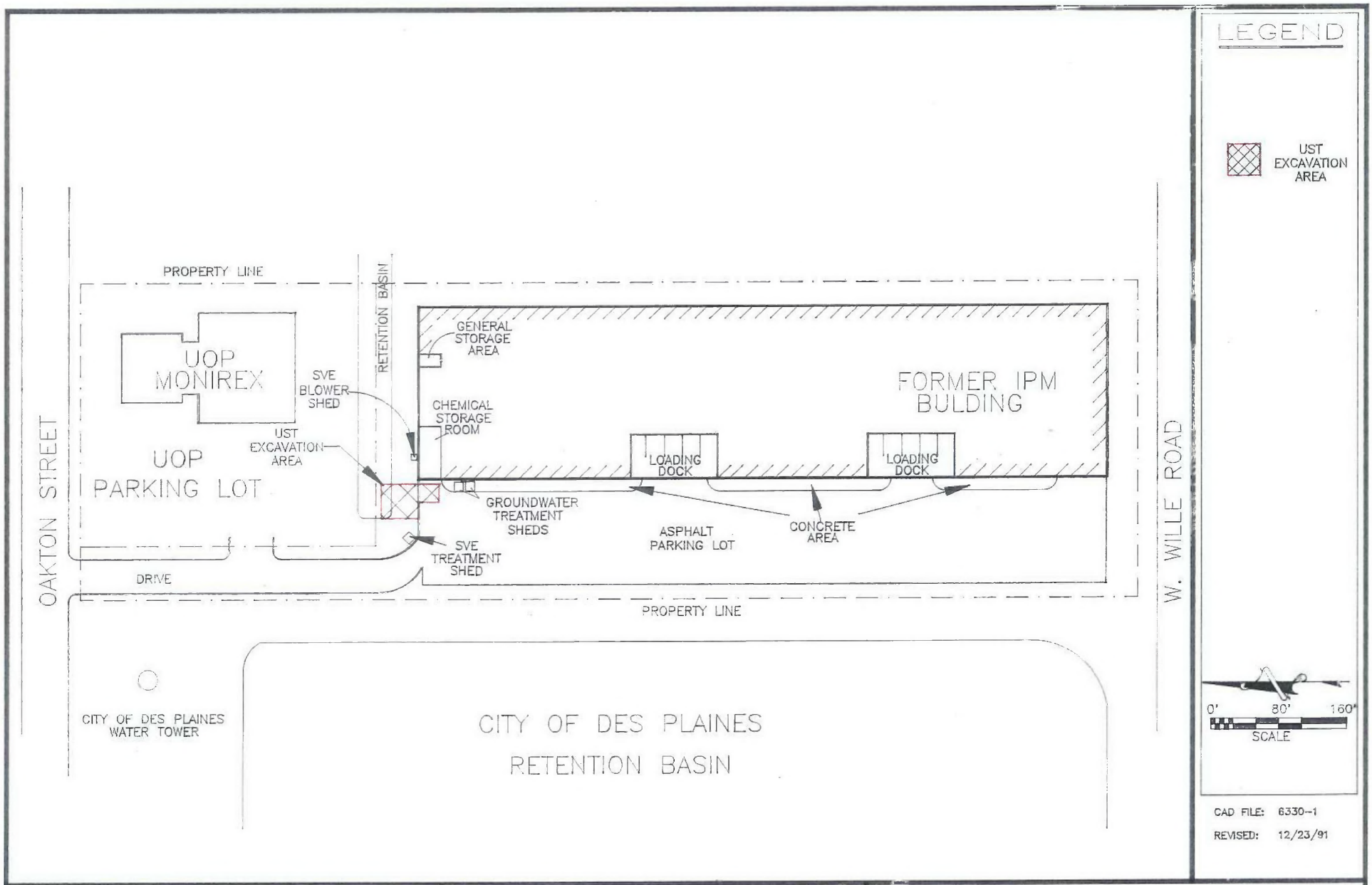

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FIGURE 1
SITE PLAN

1.2 QUARTERLY REPORTING REQUIREMENTS

In the December 27, 1990, closure plan approval letter, the IEPA required the submission of quarterly progress reports. Specifically, IEPA required that "Each quarterly progress report shall contain an assessment of the effectiveness of the corrective action program to reduce groundwater contaminant concentration and prevent further migration of the contaminant plume(s). At a minimum, these reports should include an assessment of the extent of groundwater contamination and the rate of plume migration (spreading or shrinking)." This quarterly progress report is being submitted to comply with IEPA's requirement for quarterly reports on the progress of the groundwater corrective action program. Previous quarterly reports were submitted by ASI. This report is the first quarterly submittal prepared by DePaul & Associates, Inc. (DAI).

1.3 QUARTERLY PROGRESS REPORT OBJECTIVES

The objectives of this quarterly progress report are as follows:

- Describe the existing groundwater monitoring system and summarize the groundwater monitoring results to date
- Describe the existing groundwater remediation system and summarize the groundwater remediation activities to date
- Provide an assessment of the effectiveness of the groundwater corrective actions to date

2.0 GROUNDWATER MONITORING AND REMEDIATION SYSTEM

2.1 GROUNDWATER MONITORING SYSTEM

2.1.1 Groundwater Monitoring Wells: To determine the extent of groundwater contamination, forty-two (42) groundwater monitoring wells were installed on the IPM site and the neighboring property adjacent to the spill containment tank. The location of the monitoring wells are provided in Figure 2. To verify the locations and casing elevations of the monitoring wells, the wells were surveyed on November 7, 1991, by James Ellman Land

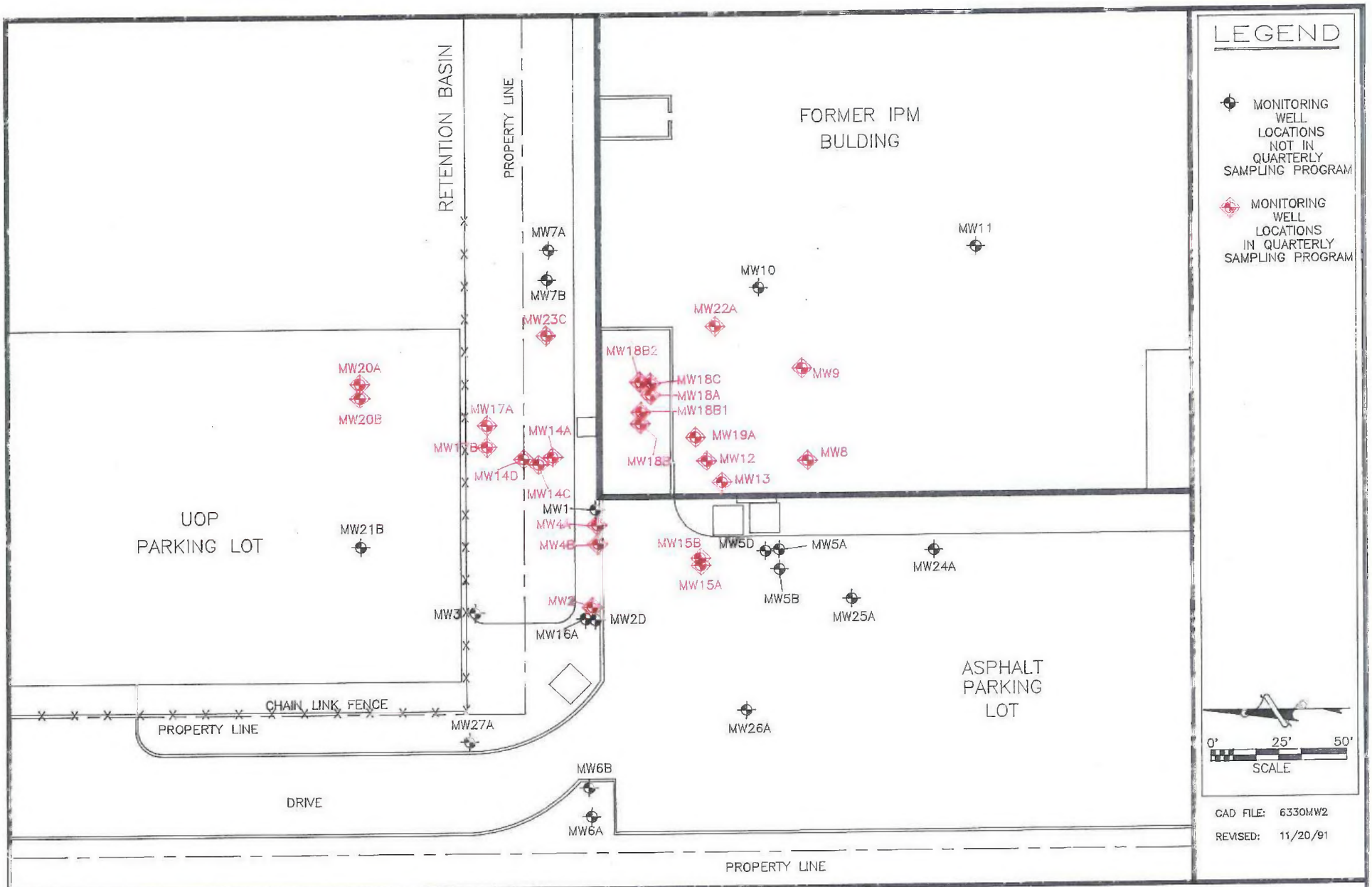

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FIGURE 2
MONITORING WELL LOCATIONS

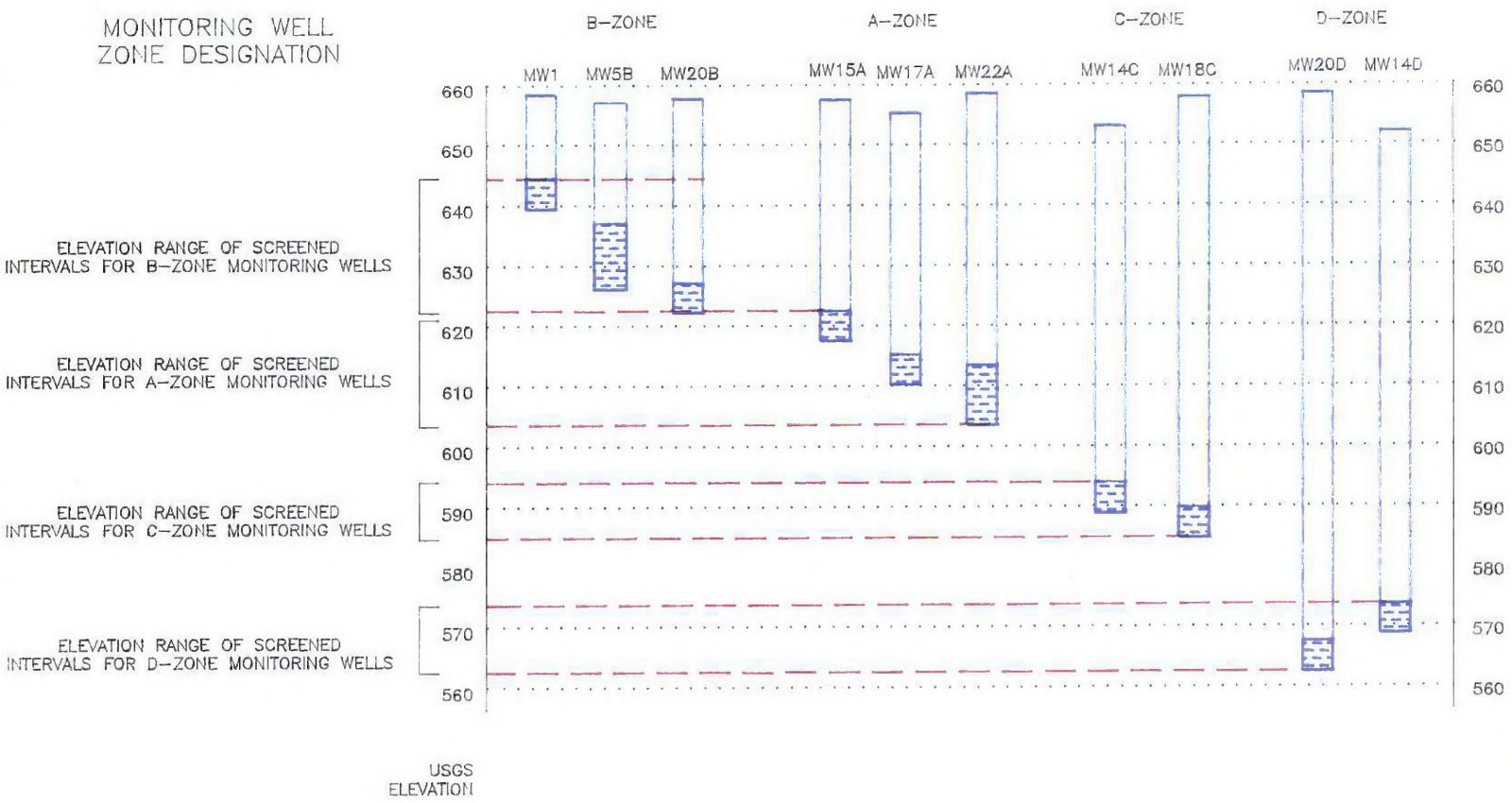
Surveyor Company of Arlington Heights, Illinois. Well construction and soil boring logs for the wells have been supplied to IEPA in closure plans and closure plan modifications prepared by ASI.

ASI interpreted the subsurface stratigraphy to consist of three distinct hydrogeological units. These units were described as the Upper Formation, the Lower Formation, and the Fractured Limestone Formation (Bedrock). Monitoring wells were screened at variable depths to determine the extent of contamination in each unit. Based on the depths of the monitoring well screened intervals, four monitoring well designations were assigned by ASI. Table 2 summarizes the monitoring well designations and the typical below ground surface (bgs) screened intervals for each set of monitoring wells. A summary of well construction information for all monitoring wells is provided in Appendix A. Figure 3 provides a cross-sectional view of selected monitoring wells from each of the four monitoring well designations.

TABLE 2. GROUNDWATER MONITORING WELLS

ASI Monitoring Well Designation	Hydrogeological Classification	Typical Screened Interval (ft-bgs)
B-Zone	Upper Water Bearing Zone	15-25
A-Zone	Upper Elevation Lower Water Bearing Zone	45-50
C-Zone	Lower Elevation Lower Water Bearing Zone	60-70
D-Zone	Fractured Limestone Water Bearing Zone	90-95

2.1.2 Quarterly Groundwater Sampling: In a closure plan approval letter dated June 26, 1991 (revised July 10, 1991), the IEPA required that twenty-four (24) of the monitoring wells be sampled on a quarterly basis and analyzed for groundwater



LEGEND

SCREENED INTERVAL

REPORT: IPMGWQ1
CAD FILE: 6330SECT
REVISED: 12/31/91

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FIGURE 3
CROSS SECTIONAL VIEW OF
SELECTED MONITORING WELLS

contaminants using SW-846 Methods 8010 and 8020. In the September 27, 1991, closure plan approval letter, the IEPA stated that SW-846 Method 8020 could be excluded from the routine quarterly groundwater sample analyses. Table 3 presents the monitoring wells required in the quarterly groundwater sampling.

TABLE 3. QUARTERLY GROUNDWATER SAMPLING PROGRAM

WATER-BEARING ZONE				
Upper		Lower		Fractured Limestone
MW-2	MW-15B	MW-4A	MW-20A	MW-14D
MW-4B	MW-17B	MW-14A	MW-22A	
MW-8	MW-18B	MW-15A	MW-14C	
MW-9	MW-18B1	MW-17A	MW-18C	
MW-12	MW-18B2	MW-18A	MW-23C	
MW-13	MW-20B	MW-19A		

In compliance with the required quarterly groundwater monitoring program, groundwater samples were collected from the designated quarterly groundwater monitoring wells on October 8, 1991, and submitted for laboratory analysis for Halogenated Volatile Organics by SW-846 Method 8010. The sample collection and laboratory analyses were performed by Anatech Analytical Laboratories (Anatech) of Ludington, Michigan, under the supervision of ASI. Completed IEPA Chemical Analysis Forms summarizing the results of the analyses of groundwater samples collected October 8, 1991, are provided in Appendix B. Tables summarizing the results of all groundwater sampling and laboratory analysis by SW-846 Method 8010, including the results of the October 8, 1991, sampling event, are provided in Appendix C.

In the closure plan approval letter dated June 26, 1991 (revised July 10, 1991), the IEPA requested that additional deep monitoring wells be installed to determine the extent of groundwater contamination in the fractured limestone. On December 5, 1991, Kearney responded to this request with a proposal to install an additional deep monitoring well. The

proposed location of the monitoring well (MW-18D) is provided in Figure 4. Upon approval from IEPA, MW-18D will be installed and sampled, and will subsequently be included in the quarterly groundwater sampling program.

2.2 GROUNDWATER REMEDIATION SYSTEM

2.2.1 Groundwater Recovery Wells: To remediate the contaminated groundwater, twenty-one (21) groundwater recovery wells were installed under the supervision of ASI. The locations of the groundwater recovery wells are given in Figure 5. A table summarizing the groundwater recovery well construction details is provided in Appendix D.

2.2.2 Groundwater Recovery and Treatment System

System Design

Groundwater is extracted from the recovery wells using electrical submersible pumps. Because the groundwater recovery yields from the recovery wells are not adequate to allow continuous pumping, the recovery pumps are operated intermittently. Low water level and high water level sensors placed in the recovery wells are used to turn the pumps on and off. Extracted groundwater from the twenty-one recovery wells is combined in a manifold and routed to granular activated carbon adsorption units for treatment. The activated carbon adsorption system consists of two activated carbon canisters operated in series. The treated groundwater is discharged to the City of Des Plaines stormwater retention basin located immediately east of the IPM Company site. A National Pollutant Discharge Elimination System (NPDES) permit for the discharge of the treated groundwater was granted by IEPA in August 1990. The conditions of the NPDES permit require continuous discharge flow monitoring, weekly monitoring of discharge pH, and monthly monitoring of Halogenated Volatile Organics using SW-846 method 8010.

System Operation

Operation of the groundwater remediation system began in January 1991, when recovery wells PW-10, PW-11 and PW-12 became operational. Recovery wells PW-1 through PW-9 were activated in February 1991 and recovery wells PW-13 through PW-21 were activated

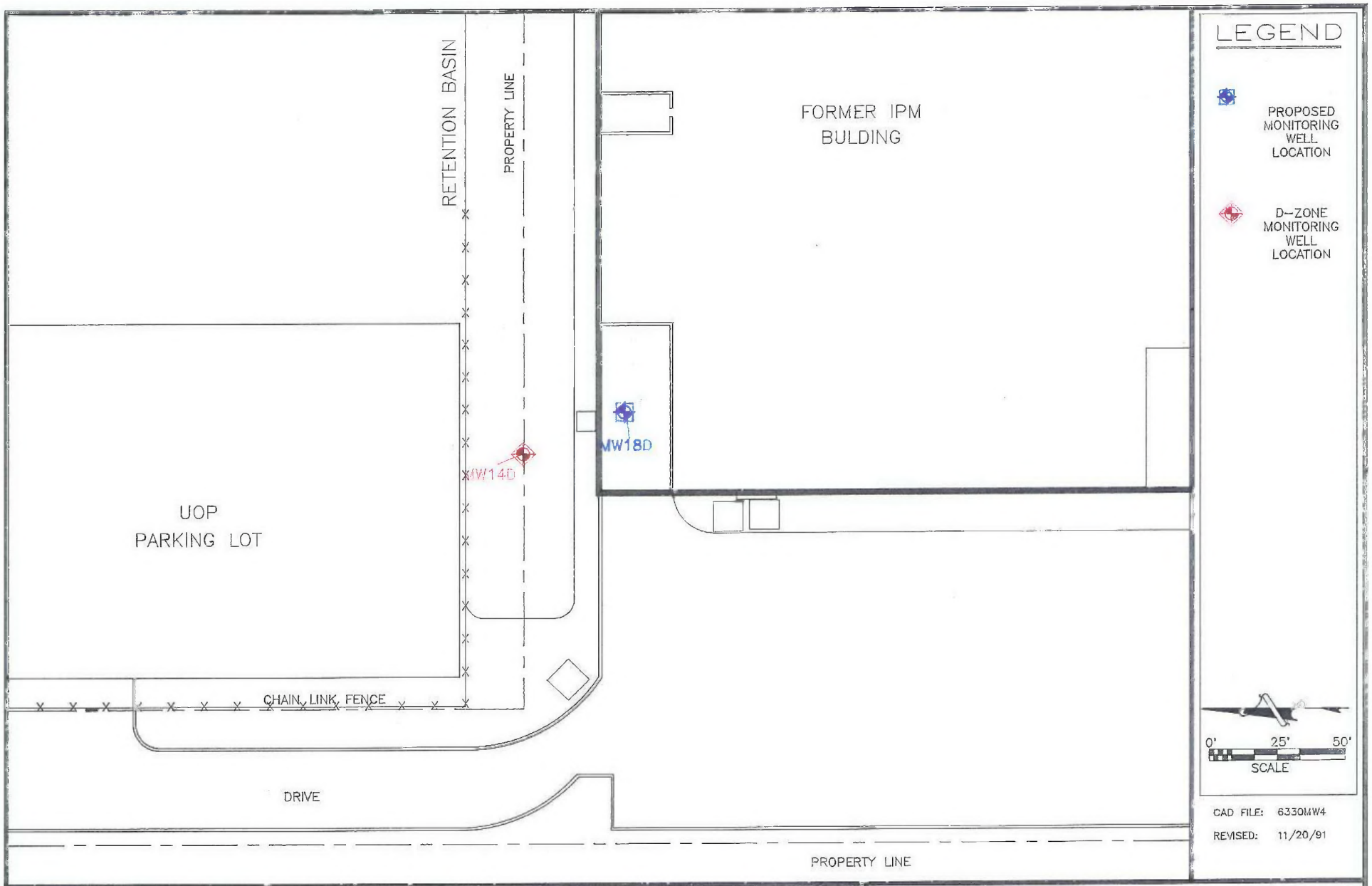

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FIGURE 4
PROPOSED LOCATION OF D-ZONE
MONITORING WELL

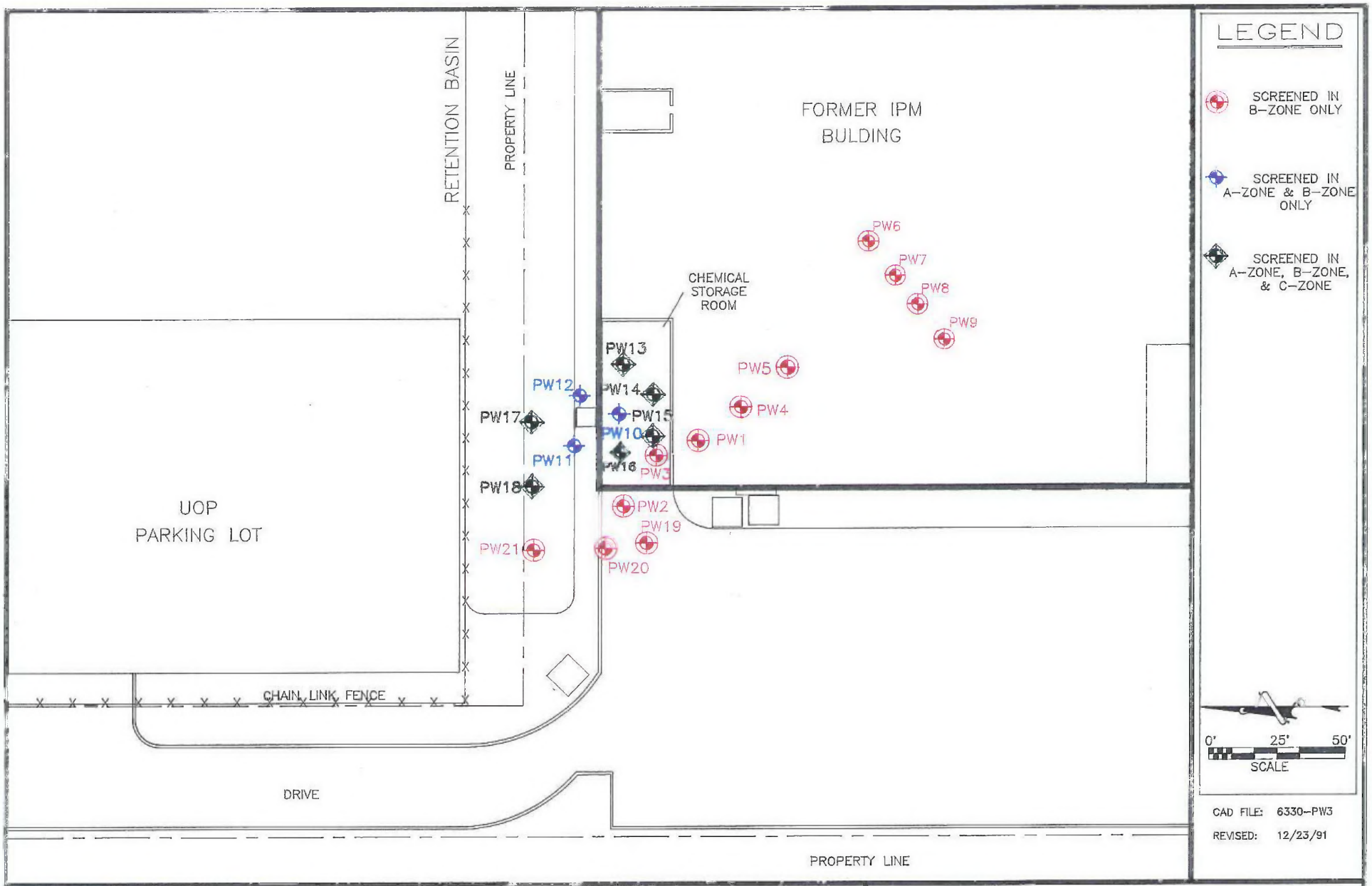

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FIGURE 5
GROUNDWATER RECOVERY WELLS

in September 1991. The total groundwater recovery system flowrates have ranged from approximately 300-gpd to approximately 2,000-gpd. The groundwater recovery system is currently extracting approximately 2,000-gpd. 294,728-gallons of groundwater have been extracted and treated as of December 23, 1991. Figure 6 summarizes the cumulative extracted groundwater volume since startup in January 1991.

To monitor the rate of activated carbon usage and treatment system efficiency, groundwater samples are collected once a month from the following sampling points:

- Influent to the first activated carbon unit (untreated groundwater)
- Between the two activated carbon units
- Effluent of the second activated carbon unit (treated groundwater)

Because the groundwater samples are collected after the inlet manifold, these samples are composites of the groundwater recovered from the recovery wells operating at the time of sampling. A summary of the results of the monthly groundwater treatment system sampling and analysis is provided in Appendix E. The TCE concentrations in the untreated groundwater samples have ranged from a low of 75-μg/l on September 3, 1991, to a high of 7,100-μg/l on November 6, 1991.

3.0 ASSESSMENT OF GROUNDWATER REMEDIATION SYSTEM

3.1 OVERVIEW

To assess the effectiveness of the groundwater remediation system, the following information was evaluated:

- Pre-pumping and post-pumping groundwater contaminant concentrations were compared to determine the effect of groundwater recovery
- Pre-pumping and post-pumping potentiometric surfaces were compared to assess the effective contaminant capture zone

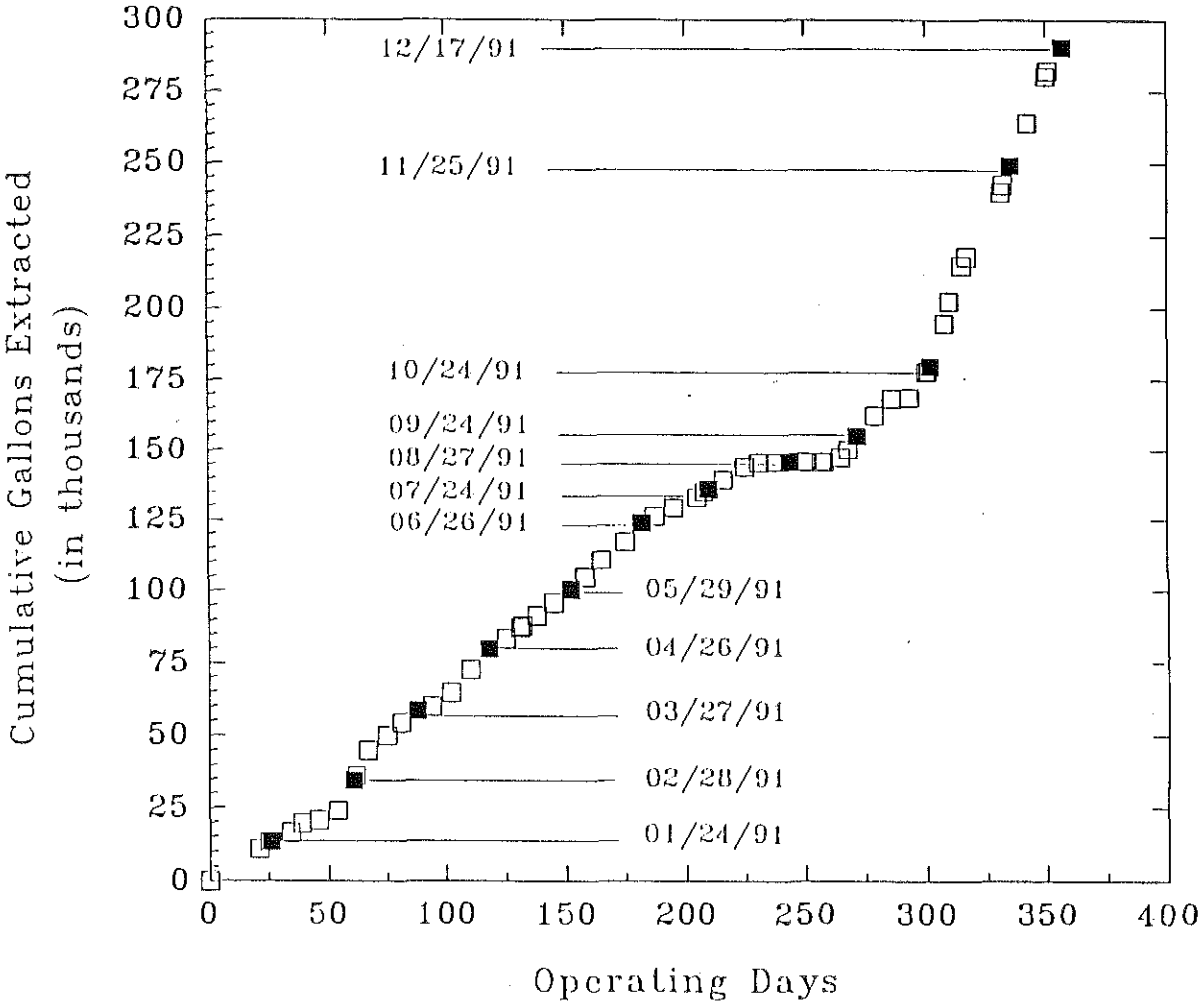

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FIGURE 6
GROUNDWATER EXTRACTION
SYSTEM DATA

To remediate the groundwater, the combined capture zone of the groundwater recovery system should encompass the extent of groundwater contamination. The capture zone is defined as the area of an aquifer from which the water will be captured by a groundwater recovery well within a certain time period and is dependent upon the recovery well recovery rates and hydrogeological properties of the aquifer (Javendel and Tsang, 1986). Because the capture zone is directly dependent upon the groundwater recovery flowrate, a groundwater remediation system is optimized by maximizing the recovery flowrate. With measurements of groundwater recovery flowrates and estimates of hydrogeological properties, recovery well capture zones can be calculated (McElwee, 1991).

Due to operational problems with startup of the groundwater recovery system, the groundwater recovery pumps have experienced high rates of failure and required frequent replacement. This has reduced the effective recovery rate of the groundwater recovery system and negatively impacted the remediation progress. The operational problems with the groundwater recovery system are being corrected, and as a result, the groundwater recovery rates since October 1991 have been increasing. Once the groundwater recovery system is fully optimized, single well recovery flowrates will be measured and the recovery well capture zones will be calculated. With this information, the anticipated period of groundwater remediation can be better assessed.

3.2 GROUNDWATER CONTAMINANT CONCENTRATIONS

3.2.1 Data Summary: Review of the groundwater monitoring data indicates that the only groundwater contaminants observed above the cleanup objective levels have been chlorinated VOCs. The principal groundwater contaminant is TCE. Other contaminants identified in the groundwater are dichloroethylene (DCE), vinyl chloride (VC) and trichloroethane (TCA). Tables summarizing the results of all groundwater analysis for chlorinated VOCs are presented in Appendix C. The earliest data are from September 1988 and the most recent data are from the quarterly groundwater sampling event of October 1991. Review of the results in Appendix C indicate the following:

- The B-Zone monitoring wells that have exhibited TCE concentrations above the groundwater cleanup objective level (25-μg/l) are

MW-1	MW-12	MW-18B
MW-4B	MW-13	MW-18B1
MW-8	MW-17B	MW-18B2
MW-9		

The B-Zone monitoring wells which have exhibited TCE concentrations greater than 1,000-μg/l are

MW-1	MW-17B	MW-18B1
MW-9	MW-18B	MW-18B2

Currently (October 1991), only MW-18B, MW-18B1, and MW-18B2 have TCE concentrations greater than 1,000-μg/l.

- The A-Zone monitoring wells that have exhibited TCE concentrations above the groundwater cleanup objective level (25-μg/l) are MW-4A, MW-14A, MW-18A, and MW-19A. The A-Zone monitoring wells which have exhibited TCE concentrations greater than 1,000-μg/l are MW-14A, and MW-18A. Currently (October 1991), both MW-14A and MW-18A have TCE concentrations greater than 1,000-μg/l.

- The C-Zone monitoring wells that have exhibited TCE concentrations above the groundwater cleanup objective level (25-μg/l) are MW-14C and MW-18C. Only MW-14C has exhibited TCE concentrations greater than 1,000-μg/l, and currently (October 1991), none of the C-Zone monitoring wells have TCE concentrations greater than 1,000-μg/l.

- Of the three D-Zone monitoring wells, only MW-14D has exhibited TCE concentrations above the laboratory analytical detection limits. The TCE concentrations in MW-14D have ranged from <1-μg/l to 54-μg/l.

3.2.2 Isoconcentration Contours of Groundwater Contamination: The groundwater sampling and analysis results were summarized using isoconcentration contours. Because TCE can be biotransformed to other chlorinated hydrocarbons such as dichloroethylene and vinyl chloride (Vogel and McCarty, 1985), it is appropriate to quantify the groundwater contamination in terms of total chlorinated volatile organic compound (TCVOC)

concentrations. To evaluate the effect of groundwater recovery on the extent of groundwater contamination (TCVOC), isoconcentration contours developed using the October 1991 groundwater monitoring data were compared to TCVOC isoconcentration contours developed using the July 1990 data.

B-Zone Monitoring Wells: Figures 7 and 8 present the TCVOC isoconcentration contours based on the B-Zone (screened from 15-ft to 25-ft bgs) groundwater monitoring data of July 1990 and October 1991, respectively. The July 1990 data indicate that the center of the contaminant plume was near MW-18B, where the TCVOC concentration was 48,726-μg/l. The October 1991 data indicate that the plume center remained near MW-18, but the TCVOC concentration decreased to 5,090-μg/l. Comparison of the two plumes indicates that contamination migrated southeast toward MW-9. Although MW-8 and MW-9 were not sampled in July 1990, a review of the monitoring data presented for these wells in Appendix C indicates a trend of increasing concentrations between January 1991 and October 1991. This southeasterly migration of the contaminants in the B-Zone is potentially due to groundwater recovery from groundwater recovery wells PW-4 through PW-9, which are located southeast of the center of the contaminant plume.

A-Zone Monitoring Wells: TCVOC isoconcentration contours for A-Zone monitoring wells (screened from 45-ft to 50-ft bgs) based on July 1990 and October 1991 groundwater monitoring data are presented in Figures 9 and 10. The data presented in Figure 9 indicates that in July 1990, the center of the contaminant plume for the A-Zone monitoring wells was near MW-14A, where a TCVOC concentration of 22,133-μg/l was measured. The October 1991 sampling data (Figure 10) indicate that the center of the contaminant plume has migrated toward MW-18A, where a TCVOC concentration of 28,200-μg/l was measured. The total chlorinated hydrocarbon concentration in MW-14A had decreased to 5,220-μg/l in October 1991. Therefore, it appears that the center of the contaminant plume migrated from MW-14A to MW-18A between July 1990 and October 1991. This is consistent with a trend of increasing concentrations in MW-18A from January 1991 to October 1991 (See Appendix C). However, because MW-18A was not sampled in July 1990, a direct

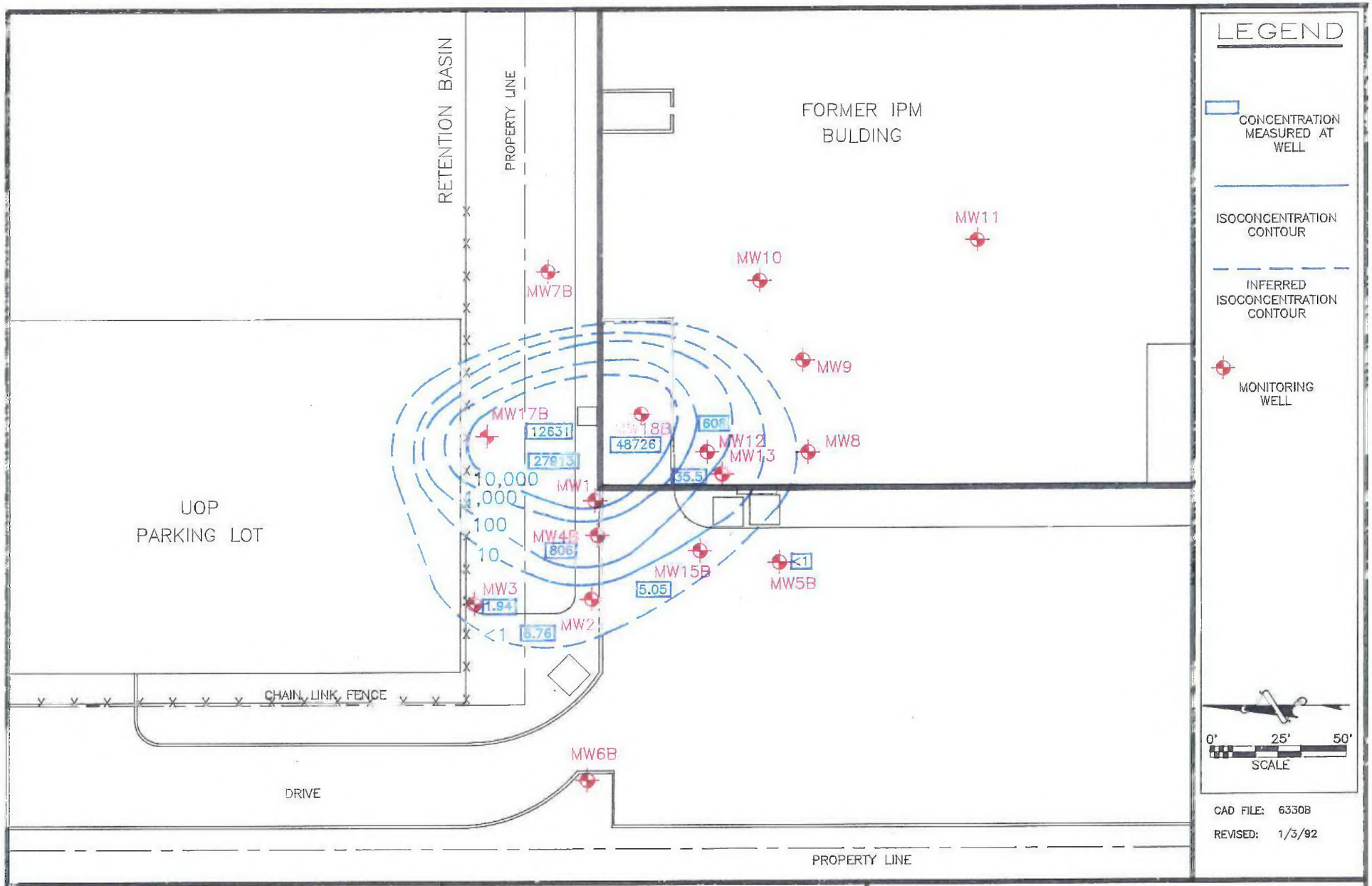

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FIGURE 7
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"B" ZONE WELLS – JULY, 1990

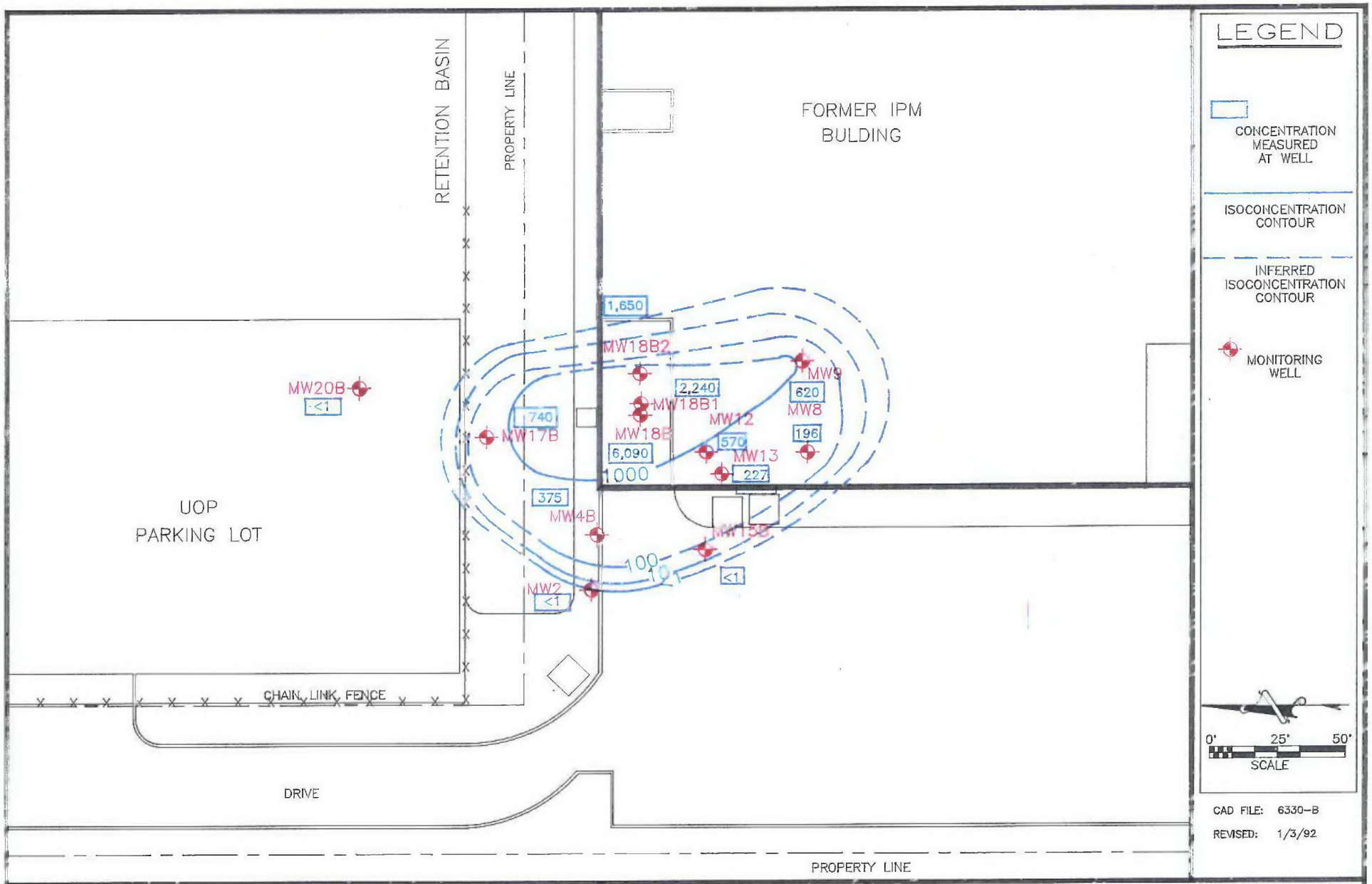

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FIGURE 8
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"B" ZONE WELLS – OCTOBER 1991

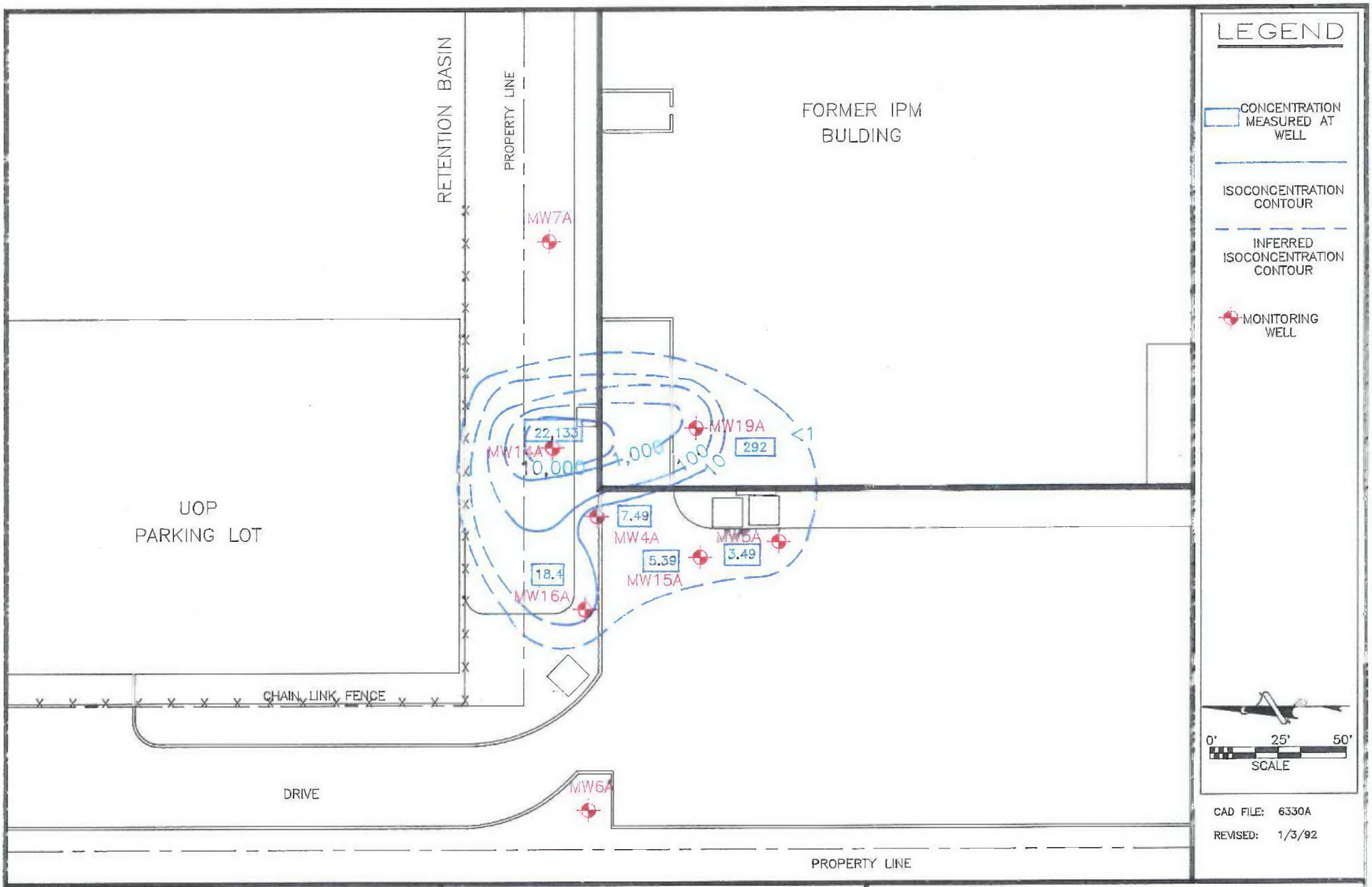

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FIGURE 9
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"A" ZONE WELLS – JULY, 1990

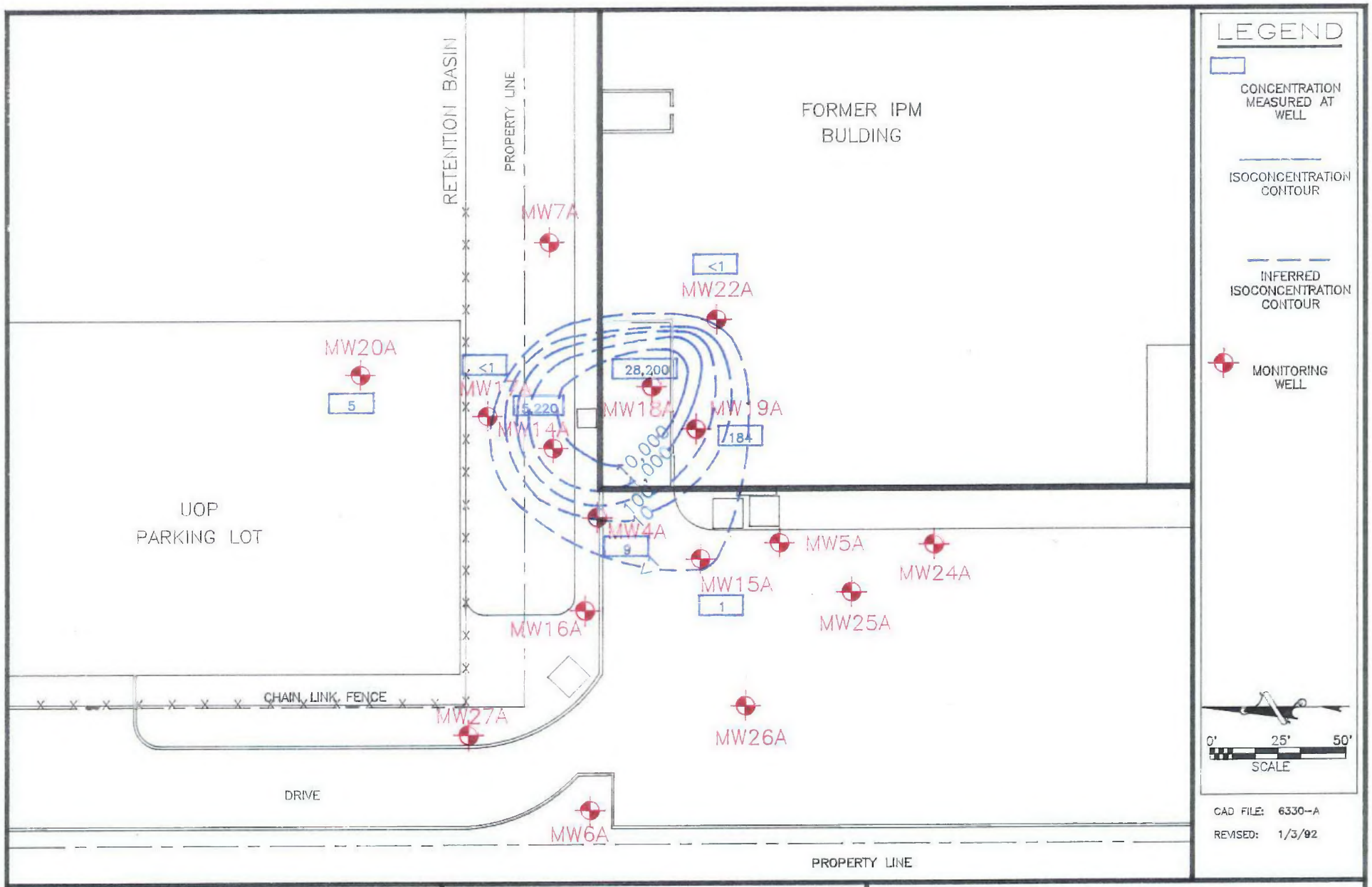

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FIGURE 10
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"A" ZONE WELLS – OCTOBER 1991

comparison of the TCVOC concentrations measured at MW-18A in July 1990 and October 1991 could not be made. Based on the isoconcentration contours, it appears the A-Zone areal extent of contamination decreased from July 1990 to October 1991.

C-Zone Monitoring Wells: Figure 11 presents the October 1991 TCVOC isoconcentration contours for C-Zone monitoring wells (screened from 60-ft to 70-ft bgs). The July 1990 isoconcentration data for the C-Zone are not available because these monitoring wells were installed after July 1990. A review of the C-Zone monitoring well data (Appendix C) indicate that both MW-14C and MW-18C have had TCE contamination above the groundwater cleanup objective levels. Because there are limited C-Zone monitoring data, no historical trend in the data can be ascertained.

D-Zone Monitoring Wells: Figure 12 presents the October 1991 TCVOC isoconcentration data for the three D-Zone monitoring wells. These fractured limestone zone monitoring wells were installed in March 1991. A review of the D-Zone monitoring well data (Appendix C) indicates that only MW-14D has had detectable TCE contamination. On one occasion, July 1991, the TCE concentration was above the groundwater cleanup objective levels. Because there are limited D-Zone monitoring data, no historical trend in the data can be ascertained.

3.3 POTENTIOMETRIC SURFACE DATA

To determine the effect of groundwater pumping on the groundwater flow direction and velocity, potentiometric surface data from July 1990 and November 1991 were compared. The July 1990 data is representative of the hydrogeological conditions before the operation of the groundwater recovery system (pre-pumping) and the November 1991 data is representative of the hydrogeological conditions during operation of the groundwater recovery system (pumping).

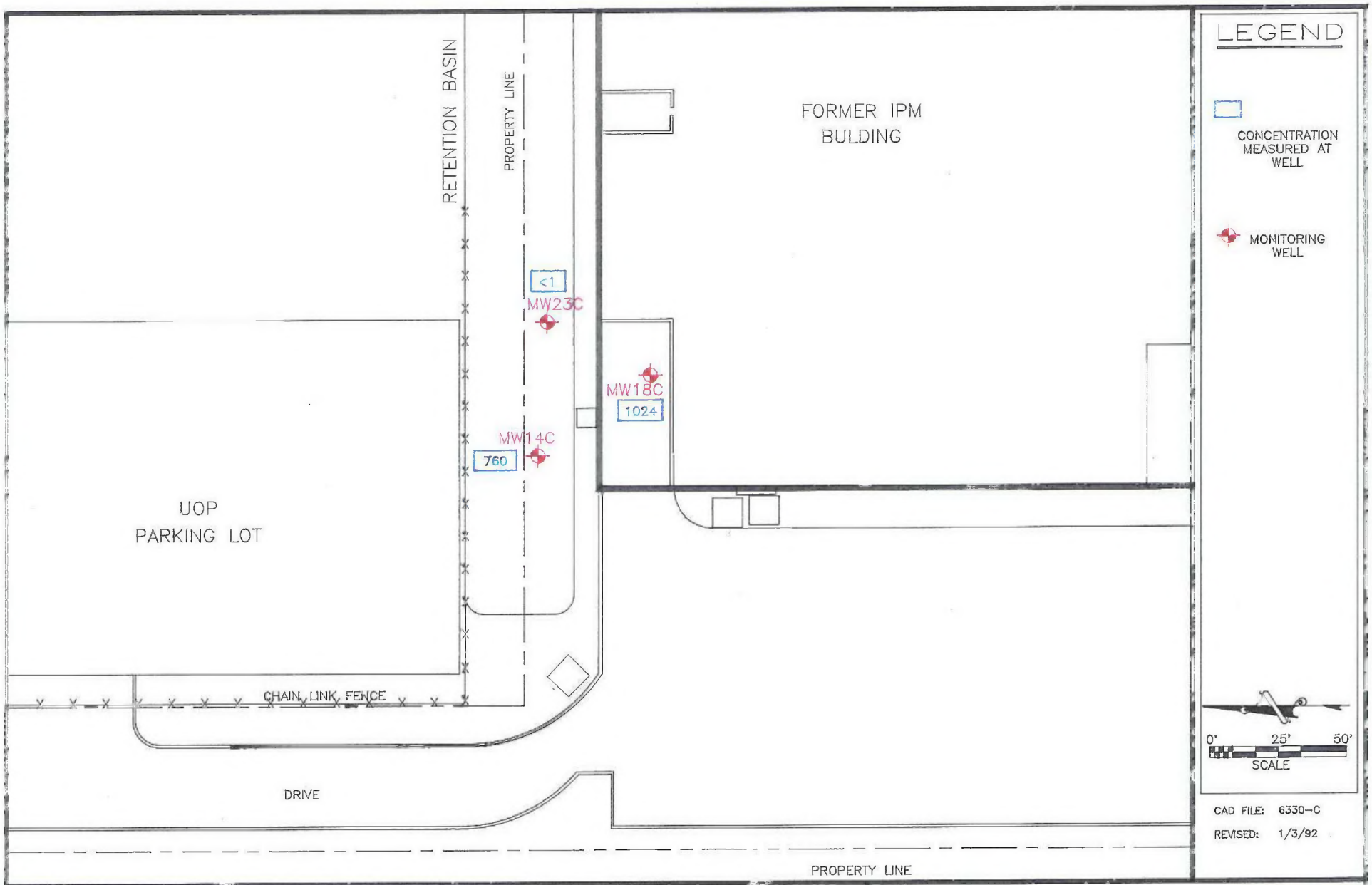

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FIGURE 11
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"C" ZONE WELLS – OCTOBER 1991

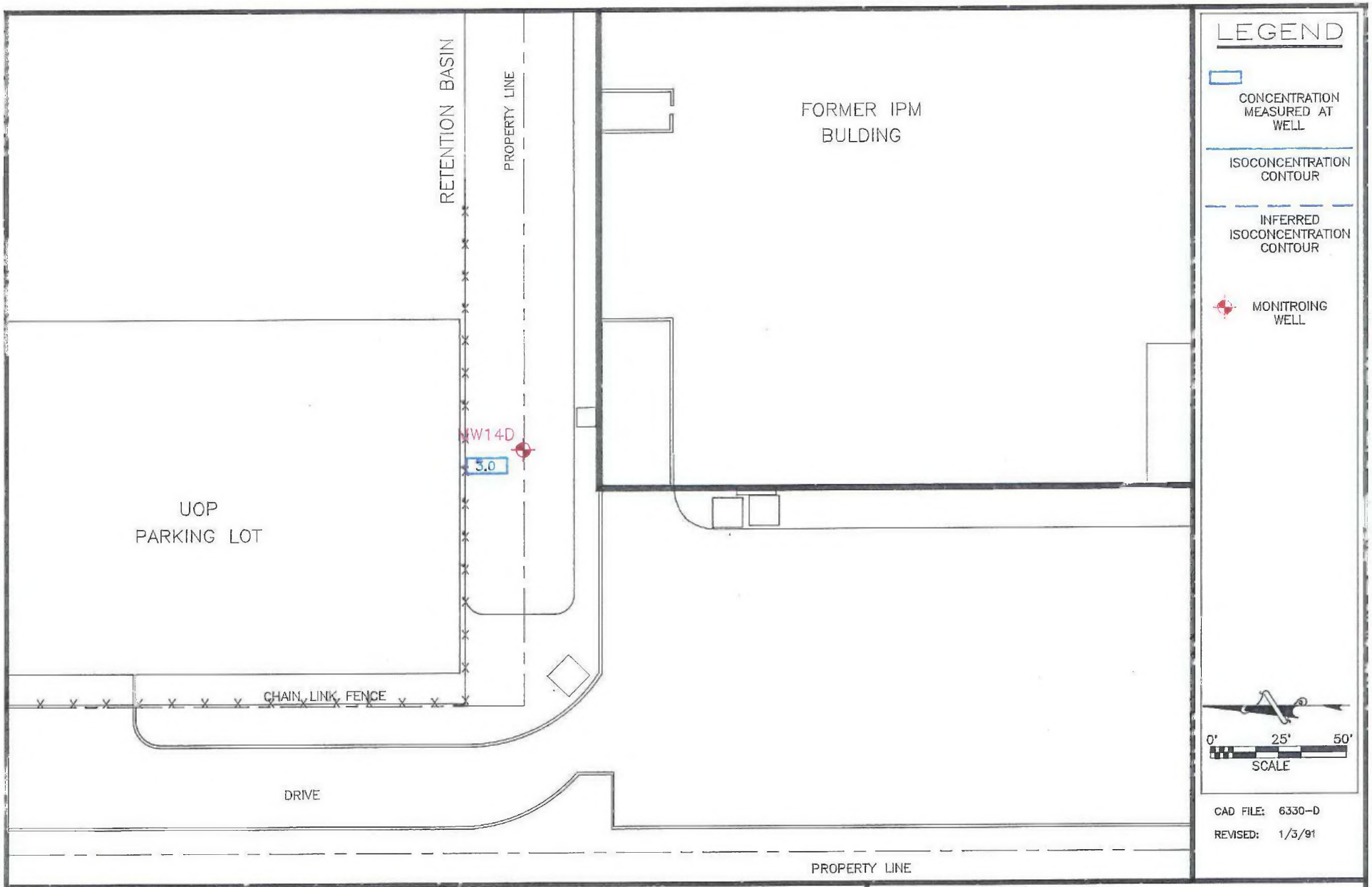

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FIGURE 12
TOTAL CHLORINATED VOLATILE ORGANIC CARBON CONCENTRATION IN GROUNDWATER ($\mu g/L$)
"D" ZONE WELLS – OCTOBER 1991

Static water elevations were calculated based on static water level measurements and the monitoring well casing elevations determined from the site survey performed in November 1991. The static water level data for July 1990 were taken from the values reported in the October 1990 Closure Plan Modification prepared by ASI. Because the C-Zone and D-Zone groundwater monitoring wells were installed after the startup of the groundwater recovery system, pre-pumping static water level data for the C-Zone and D-Zone monitoring wells are not available.

B-Zone Monitoring Wells: The potentiometric surfaces for the B-Zone monitoring wells (screened from 15-ft to 25-ft bgs) in July 1990 and November 1991 are presented in Figures 13 and 14. Figure 13 shows that prior to pumping, the general groundwater flow direction in the B-Zone ranged from southeast to southwest. Static water level elevations ranged from 644.77-ft (MW-5B) to 647.40 (MW-3). Figure 14 shows that under pumping conditions, the local groundwater flow direction has been affected. Specifically, the data indicates that under pumping conditions, groundwater flow at depths of 15-ft to 25-ft bgs is being drawn towards the recovery wells in the area of the chemical storage room (PW-13 through PW-16) and towards recovery wells PW-6 through PW-9. Also, groundwater recovery has lowered the potentiometric surface of the B-Zone monitoring wells under the chemical storage room approximately 5-ft to 6-ft below the potentiometric surface elevations observed in July 1990.

The hydraulic gradient has increased in the B-Zone due to pumping. In July 1990, the hydraulic gradient between MW-3 and MW-13 was approximately 0.02-ft/ft. In November 1991, the hydraulic gradient between MW-6B and MW-18B1 was approximately 0.04-ft/ft. Therefore, the data suggest that pumping from the recovery wells has increased the gradient by a factor of two.

A-Zone Monitoring Wells: The potentiometric surfaces for the A-Zone monitoring wells for July 1990 and November 1991 are presented in Figures 15 and 16. Figure 15 shows that prior to pumping (July 1990), the groundwater flow direction ranged from southeast to

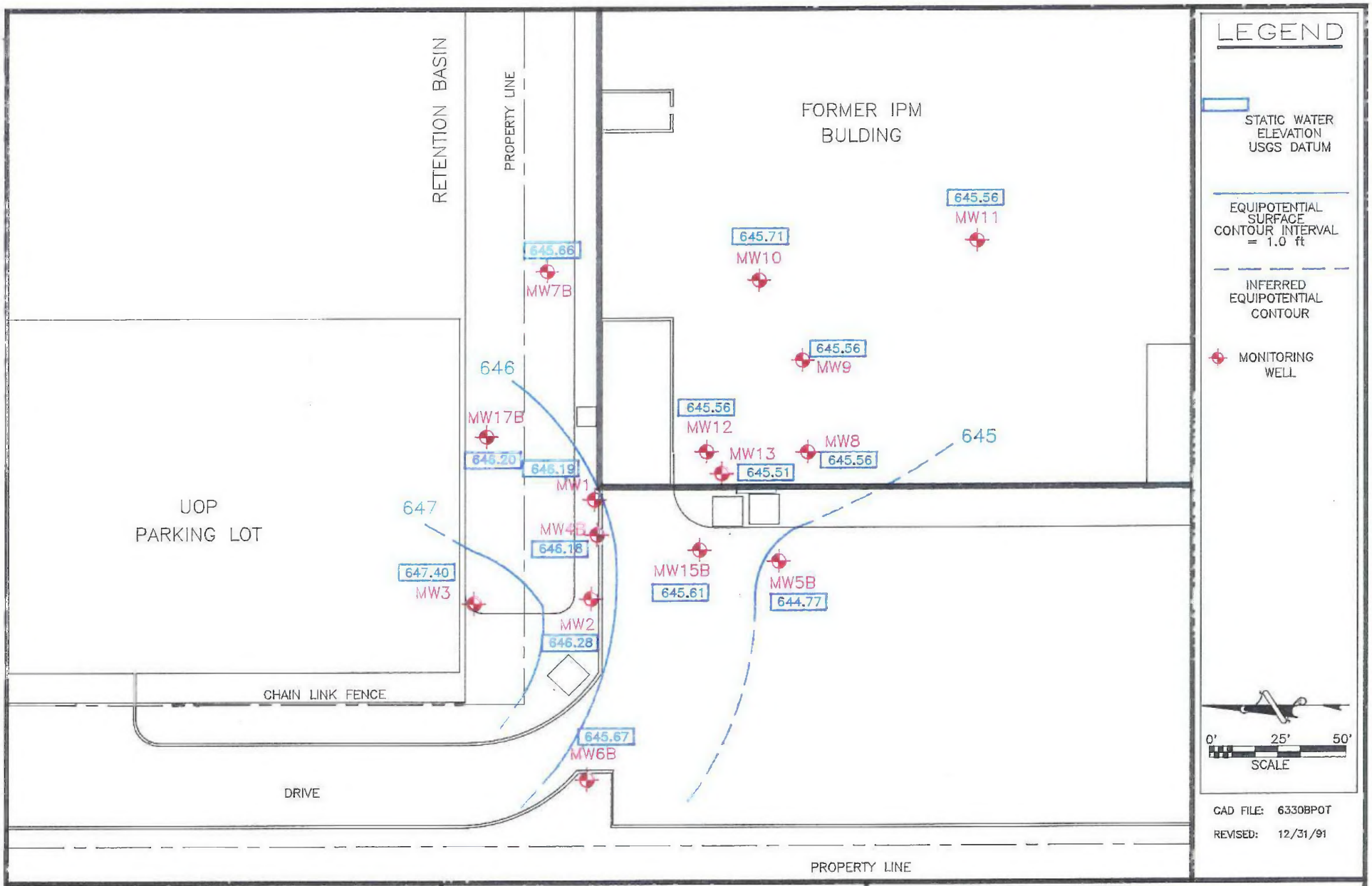

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FIGURE 13
POTENTIOMETRIC SURFACE
"B" ZONE WELLS – JULY 1990

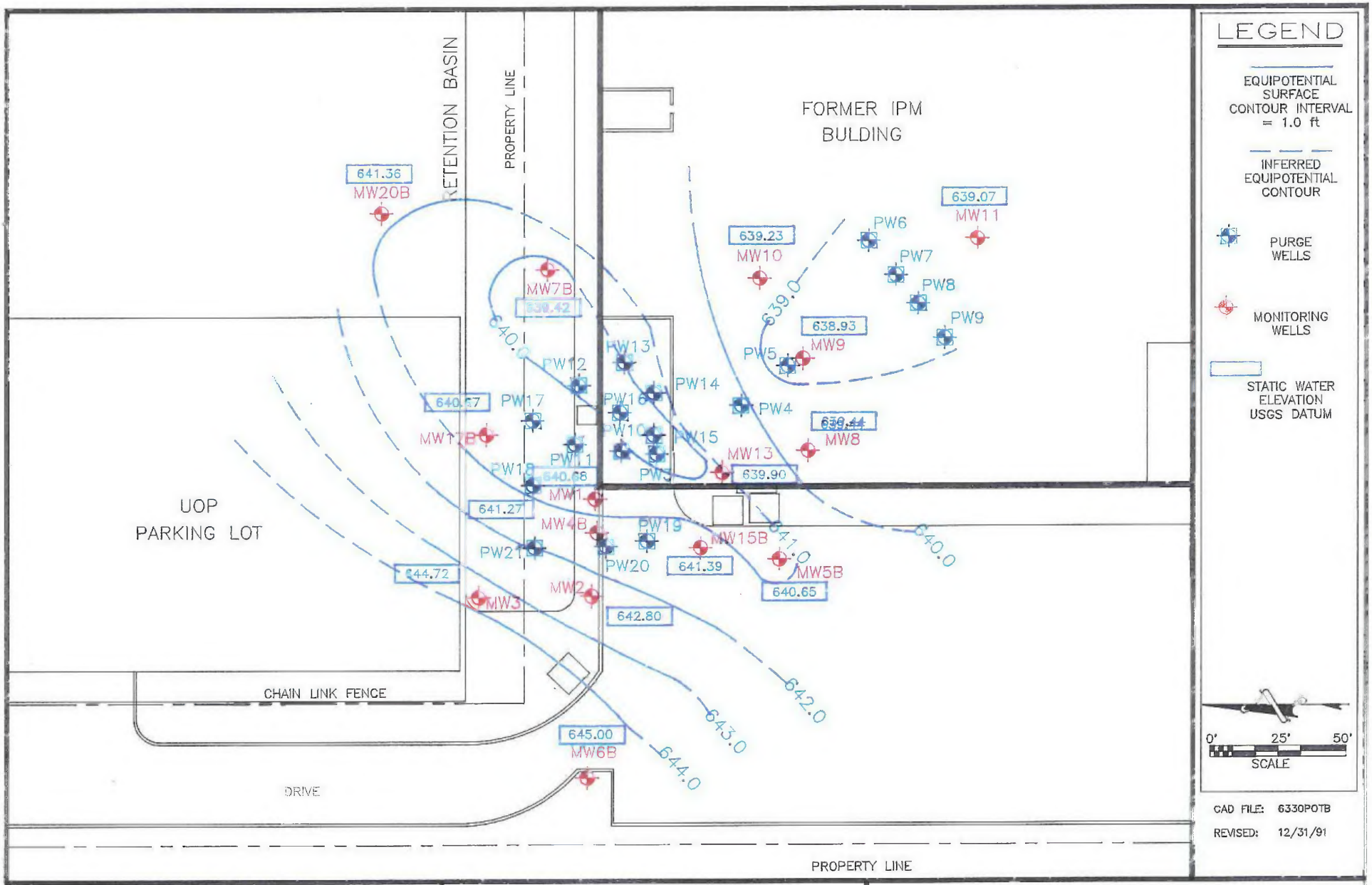

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FIGURE 14
POTENTIOMETRIC SURFACE
"B" ZONE WELLS – NOVEMBER 1991

southwest and static water elevations ranged from 637.55-ft (MW-19A) to 640.63-ft (MW-7A). Figure 16 shows that under pumping conditions, a minima in the potentiometric surface of the A-Zone has been created in the area of MW-14A (618.07-ft).

The potentiometric surface of the A-Zone monitoring wells has decreased between July 1990 and October 1991. The static water elevations of MW-14A changed from 639.21-ft in July 1990 to 618.07-ft in November 1991. The hydraulic gradient also appears to have been affected by the groundwater recovery system. In July 1990 under the non-pumping conditions, the hydraulic gradient between MW-14A and MW-19A was approximately 0.03-ft/ft, with the flow direction from MW-14A towards MW-19A (south). In October 1991 under pumping conditions, the hydraulic gradient between MW-14A and MW-19A was 0.25-ft/ft with the groundwater flow direction from MW-19A towards MW-14A (north), a reversal from the flow direction in July 1990. Therefore, the operation of the groundwater recovery system has lowered the potentiometric surface elevations, and in some areas of the A-Zone, reversed the groundwater flow direction.

C-Zone Monitoring Wells: The potentiometric surface for the C-Zone monitoring wells in November 1991 is presented in Figure 17. The limited data (3-wells) suggest that the groundwater flow direction at this depth is northwest. Because the C-Zone monitoring wells were installed after start-up of the groundwater recovery system, there is no available pre-pumping data for the C-Zone wells.

D-Zone Monitoring Wells: The potentiometric surface for the monitoring wells screened in the fractured limestone (D-Zone monitoring wells) in November 1991 is presented in Figure 18. The limited data (3-wells) suggest that the groundwater flow direction at this depth is west. Because the D-Zone monitoring wells were installed after start-up of the groundwater recovery system, there is no available pre-pumping data for these monitoring wells.

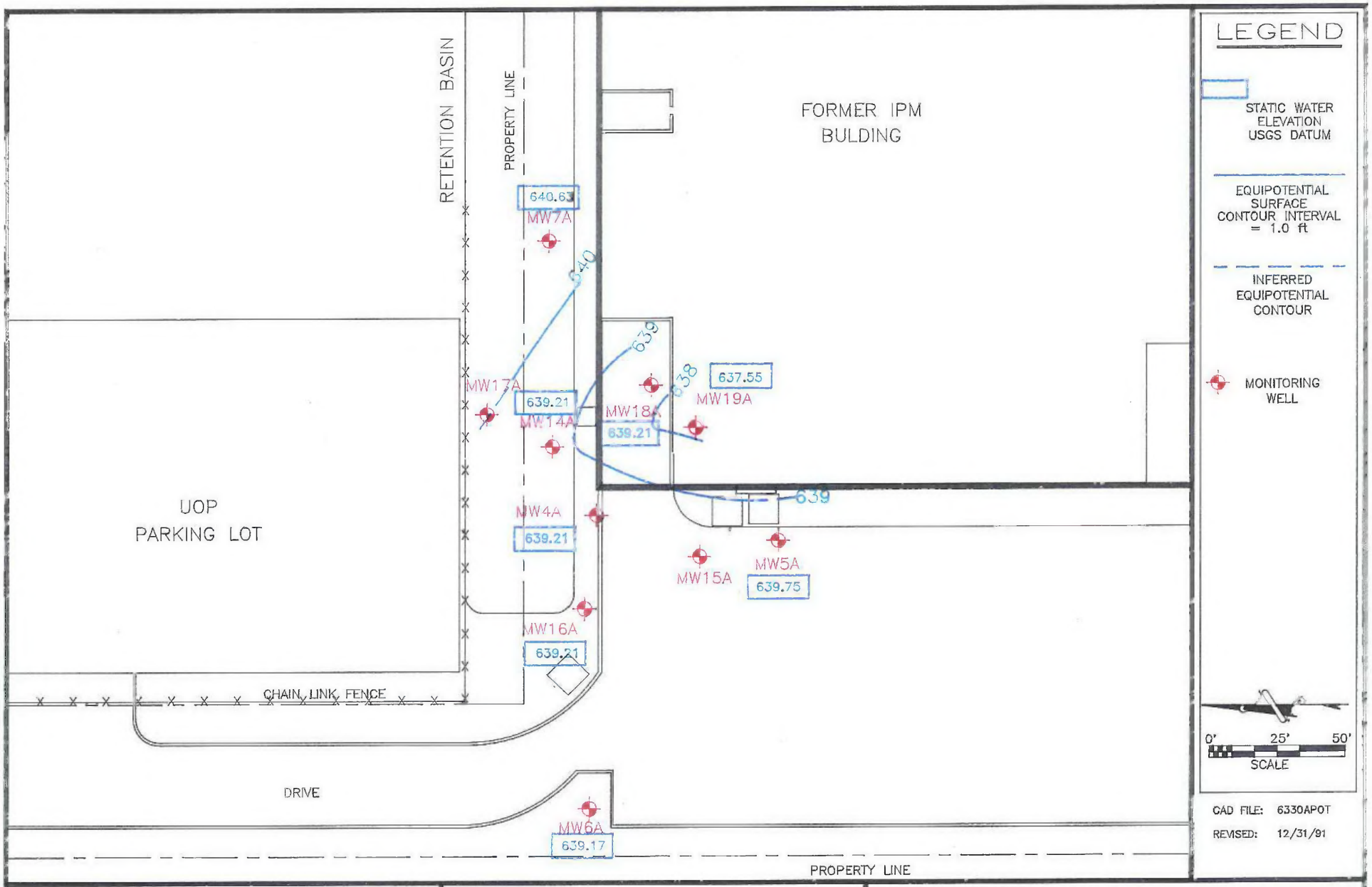

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FIGURE 15
POTENTIOMETRIC SURFACE
"A" ZONE WELLS – JULY 1990

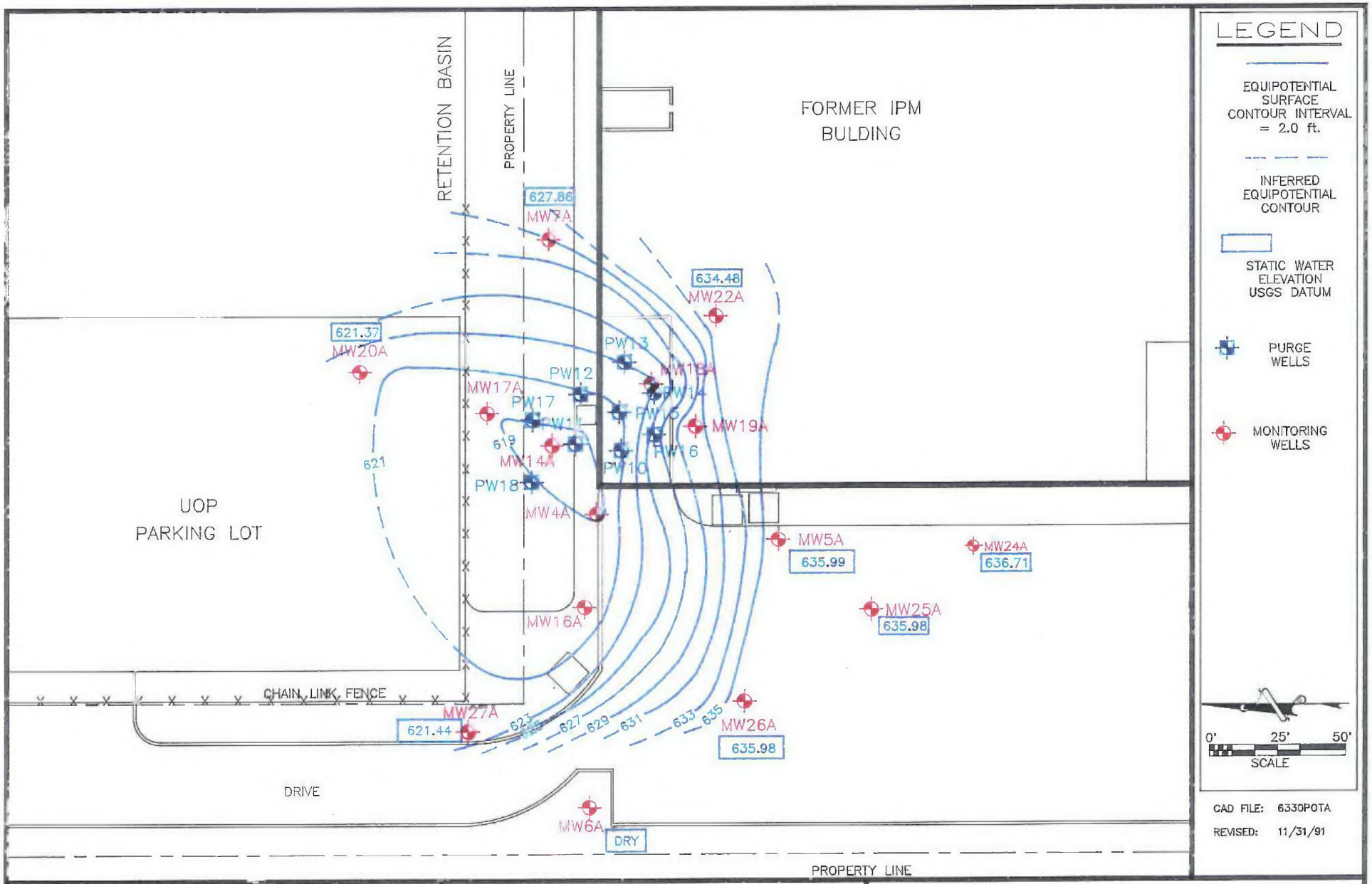

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FIGURE 16
POTENTIOMETRIC SURFACE
"A" ZONE WELLS – NOVEMBER 1991

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FIGURE 17
POTENTIOMETRIC SURFACE
"C" ZONE WELLS – NOVEMBER 1991

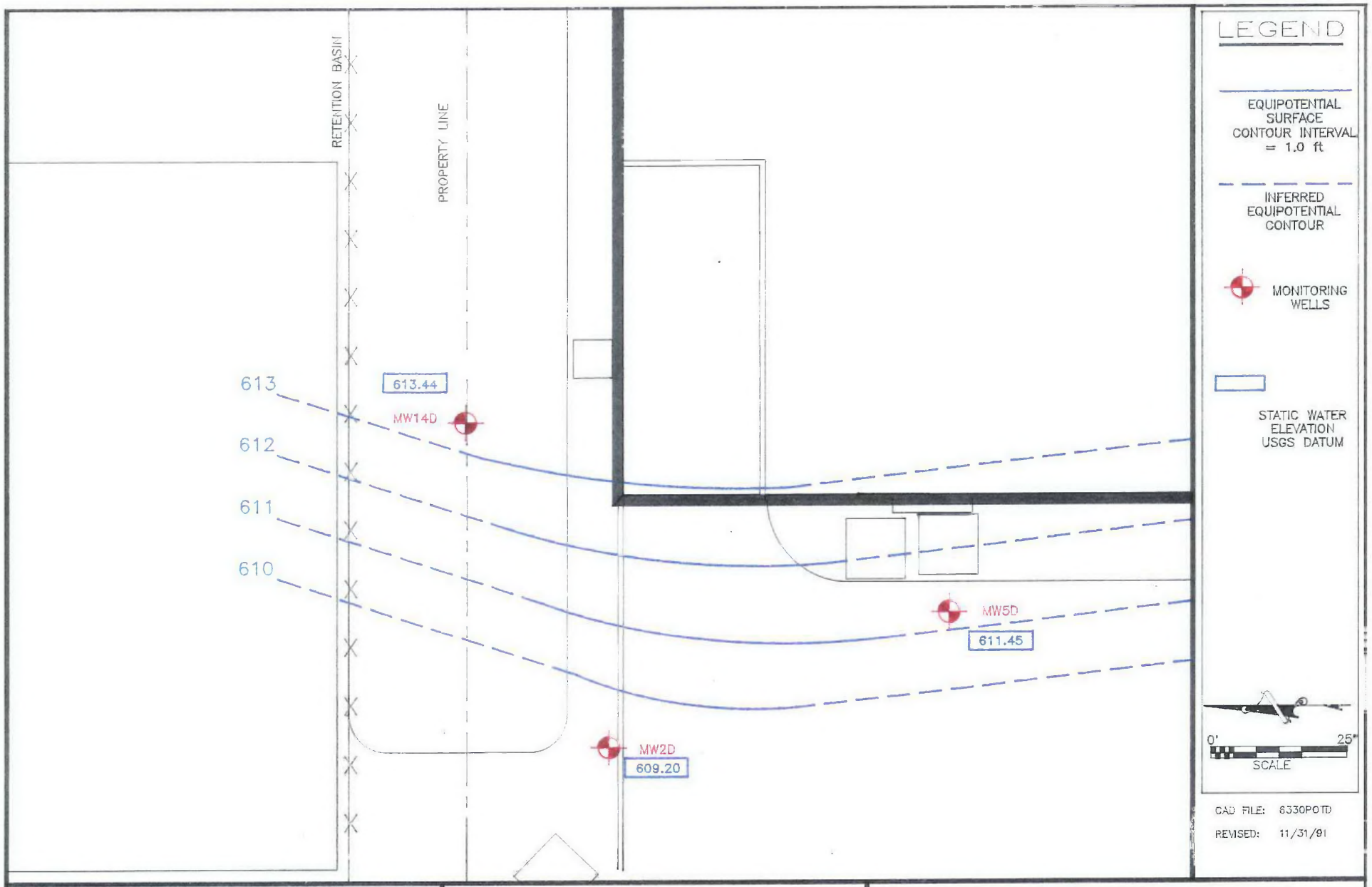

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FIGURE 18
POTENTIOMETRIC SURFACE
"D" ZONE WELLS – NOVEMBER 1991

3.4 SUMMARY OF GROUNDWATER REMEDIATION PROGRESS

Review of the groundwater concentration and potentiometric surface data indicate the following:

- The groundwater recovery system has decreased the potentiometric surface elevations in the B-Zone and A-Zone monitoring wells. Minima in the potentiometric surface contours of B-Zone and A-Zone monitoring wells have been created by groundwater recovery.

- Contaminant concentrations measured in B-Zone monitoring wells have generally been decreasing. The A-Zone monitoring well contaminant concentrations indicate the center of the contaminant plume at groundwater depths of 45-ft to 50-ft bgs may be migrating. However, the data currently available is not sufficient to confirm this.

- The available C-Zone monitoring well data are not sufficient to draw any conclusions concerning the progress of the remediation of groundwater at depths of 60-ft to 70-ft bgs. The results of future groundwater sampling events will allow a better determination of the progress of the remediation of the C-Zone groundwater.

- The installation of the proposed D-Zone monitoring well will allow a better determination of groundwater quality in the fractured limestone zone.

With improvements in the groundwater recovery equipment, and optimization of the groundwater recovery flowrate, the effectiveness of the groundwater remediation system will be optimized and the anticipated period of groundwater remediation can be better assessed. Single-well groundwater recovery flowrates will be measured in the upcoming quarter. This information and additional groundwater sampling data will be used to provide a better assessment of the groundwater remediation system than can be made at the present time.

REFERENCES

Javendel, I., and C. Tsang, "Capture Zone Type Curves: A Tool for Aquifer Cleanup", Groundwater, Vol. 24, No. 5, pp. 616-625 (1986).

McElwee, C. D. "Capture Zones for Simple Aquifers", Groundwater, Vol. 29, No. 4, pp. 587-590 (1991).

Vogel, T.M., and P.L. McCarty, "Biotransformation of Tetrachloroethylene to Trichloroethylene, Dichloroethylene, Vinyl Chloride, and Carbon Dioxide under Methanogenic Conditions", Applied and Environmental Microbiology, Vol 49, No. 5, pp. 1080-1083 (1985).

APPENDIX A

GROUNDWATER MONITORING WELL INFORMATION

B-ZONE MONITORING WELLS
Upper Water-Bearing Unit

Monitoring Well	Date Installed	Monitoring Well Designation	Depth of Monitoring Well (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-1	09/28/88	B	19	15-19	661.15
MW-2	09/28/88	B	19	15-19	661.32
MW-3	09/28/88	B	19	15-19	660.53
MW-4B	02/09/89	B	30	20-30	660.68
MW-5B	02/09/89	B	30	20-30	657.11
MW-6B	02/09/89	B	25	15-25	660.82
MW-7B	02/09/89	B	28	18-28	657.99
MW-8	04/10/89	B	25	14-24	658.41
MW-9	04/10/89	B	25	14-24	658.31
MW-10	04/10/89	B	25	14-24	658.26
MW-11	04/10/89	B	25	14-24	658.16
MW-12	08/01/89	B	25	12.2-22.2	658.40
MW-13	08/01/89	B	25	12.7-22.7	658.42
MW-15B	06/29/90	B	22.7	12.7-22.7	656.89
MW-17B	07/02/90	B	23.35	13.35-23.35	657.54
MW-18B	07/05/90	B	32	7-32	657.33
MW-18B1	07/03/90	B	28.8	3.8-28.8	657.10
MW-18B2	07/02/90	B	29.0	4.0-29.0	657.51
MW-20B	11/21/90	B	37.0	30.5-35.5	657.32
MW-21B	11/19/90	B	37.0	30.5-35.5	657.94

[1] Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

A-ZONE MONITORING WELLS
Upper Elevation of Lower Water-Bearing Zone

Monitoring Well	Date Installed	Monitoring Well Designation	Depth of Monitoring Well (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-4A	01/16/89	A	54.0	44.0-54.0	660.55
MW-5A	01/16/89	A	55.0	45.0-55.0	657.40
MW-6A	01/18/89	A	55.0	45.0-55.0	660.71
MW-7A	01/24/89	A	54.0	44.0-54.0	658.01
MW-14A	06/30/90	A	47.3	42.3-47.3	657.18
MW-15A	06/27/90	A	40	35-40	656.87
MW-16A	06/26/90	A	49.5	44.5-49.5	660.90
MW-17A	11/28/90	A	45	40-45	658.10
MW-18A	11/30/90	A	53	47-52	657.65
MW-19A	07/05/90	A	49.9	44.9-49.9	658.20
MW-20A	12/20/90	A	54.5	44.5-49.5	657.41
MW-22A	11/02/90	A	56	45-55	657.78
MW-24A	02/27/91	A	51	45-50	657.41
MW-25A	02/27/91	A	49	43-48	656.54
MW-26A	02/27/91	A	53	47-52	656.67
MW-27A	02/26/91	A	51.5	45-50	661.09

[1] Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

C-ZONE MONITORING WELLS
Lower Elevation of Lower Water-Bearing Zone

Monitoring Well	Date Installed	Monitoring Well Designation	Depth of Monitoring Well (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-14C	11/27/90	C	65.75	59-64	654.73
MW-18C	11/29/90	C	74	68-73	657.53
MW-23C	12/14/90	C	71	62-67	657.25

[1] Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

D-ZONE MONITORING WELLS
Fractured Limestone

Monitoring Well	Date Installed	Monitoring Well Designation	Depth of Monitoring Well (ft bgs)	Screened Interval (ft bgs)	Well Casing Elevation[1] (ft)
MW-2D	3/10/91	D	97	91-96	660.53
MW-5D	3/21/91	D	94	89-94	657.53
MW-14D	3/10/91	D	83.5	78.3-83.3	653.58

[1] Surveyed Well Casing Elevations Referenced to USGS Benchmark Located at N.W. Corner of Oakton and Mt. Prospect Ave. (Elevation 657.39)

APPENDIX B

CHEMICAL ANALYSIS FORMS

OCTOBER 1991 GROUNDWATER SAMPLING EVENT

CODE L P C S M 0 1 CODE A

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 2 (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10 / 08 / 91 (M D Y)

IEPA LAB (x or Blank) (see Instructions)

IPM

FACILITY NAME

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED M / D / Y

SAMPLING PURPOSE CODE (see Instructions)

TIME CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				643.09		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				639.02		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				18.23		

[illegible] is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil [illegible] to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
0 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 36-42

CODE | P | C | S | M | 0 | 1 | CODE | A |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 2 (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10 / 08 / 91 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY

COMPLAINT NO.

D. E RECEIVED M / D / Y

SAMPLING PURPOSE CODE (see Instructions)

TI E CARD

PR GRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

L COMMENTS

SUPERVISOR SIGNATURE

CORD CODE | L | P | C | S | M | 0 | 2 | TRANS CODE | A | (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				643.09		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				639.02		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				18.23		

This agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

-1218
50 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 25 or Columns 36-47

RECORD CODE L P C S M O 2 TRANS CODE A

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 2

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180			<	1		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 2

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

CODE L P C S M 0 1 CODE A

...NOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01/02/92 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

...TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9 18)

MONITOR POINT NUMBER M W 0 4A (19 22) (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91 (23 M D Y 28)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions) 29

FOR IEPA USE ONLY

COMPLAINT NO.

BACKGROUND SAMPLE (X) 34

TIME COLLECTED (24 HR CLOCK) 55 H M 58

D...TE RECEIVED 42 M D Y 47

UNABLE TO COLLECT SAMPLE (see Instructions) 59

SAMPLING PURPOSE CODE 46 (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) 60 OTHER (SPECIFY)

...E CARD

...GRAM CODE 49 52 & UNIT CODE 53

SAMPLE FIELD FILTERED - INORGANICS (X) 61 ORGANICS (X) 62

SAMPLE APPEARANCE 64 102

COLLECTOR COMMENTS 104 142

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

...B SAMPLE NO. LAB NAME LAB ID NO. 146 149

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

...MPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

L... COMMENTS 150 159

SUPERVISOR SIGNATURE

...ORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				637.92		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				604.95		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				22.63		

...ency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil ...ty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
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*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 TRANS CODE A

LINE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 4A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10 / 0 / 89 / 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101				2		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106				15		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180				9		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

TPM

FACILITY NAME

MONITOR POINT NUMBER MW04A

DATE COLLECTED 10/08/91

IEPA LAB (c or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Data Keypunch Issue with Data in Columns [illegible] or Columns [illegible]

CODE L P C S M 0 1 | CODE A

...OIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 0 1/0 2/9 2 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

...TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 4B (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0/0 8/9 1 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY

COMPLAINT NO.

DATE RECEIVED M D Y

SAMPLING PURPOSE CODE (see Instructions)

TIME CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°F)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				642.05		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				629.28		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				18.63		

This agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

2-1218
40 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER M W 0 4B

DATE COLLECTED 1 0 / 0 8 / 9 1

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	5		
BROMOFORM	32104			<	5		
BROMOMETHANE (Methyl Bromide)	34413			<	5		
CARBON TETRACHLORIDE	32102			<	5		
CHLOROBENZENE	34301			<	5		
CHLOROETHANE	34311			<	5		
2-CHLOROETHYL VINYL ETHER				<	5		
CHLOROFORM	32106				40		
CHLOROMETHANE	34418			<	5		
DIBROMOCHLOROMETHANE	32105			<	5		
1,2-DICHLOROBENZENE	34536			<	5		
1,3-DICHLOROBENZENE	34566			<	5		
1,4-DICHLOROBENZENE	34571			<	5		
DICHLORODIFLUOROMETHANE	34668			<	5		
1,1-DICHLOROETHANE	34496			<	5		
1,2-DICHLOROETHANE	34531			<	5		
t-1,2-DICHLOROETHANE	34546			<	5		
1,2-DICHLOROPROPANE	34541			<	5		
c-1,3-DICHLOROPROPANE	34704			<	5		
t-1,3-DICHLOROPROPANE	34699			<	5		
METHYLENE CHLORIDE	34423			<	5		
1,1,2,2-TETRACHLOROETHANE	34516			<	5		
TETRACHLOROETHENE	34475			<	5		
1,1,1-TRICHLOROETHANE	34506			<	5		
1,1,2-TRICHLOROETHANE	34511			<	5		
TRICHLOROETHENE	39180				65		
TRICHLOROFLUOROMETHANE	34488			<	5		
VINYL CHLORIDE	39175			≤	5		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 4B

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0/0 8/9 1

TPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	5		
TOLUENE	34010			<	5		
XYLENES	81551			<	5		
c-1,2, Dichloroethene	45627				310		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

L | P | C | S | M | 0 | 1 | A

DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (M / D / Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W - 0 8 (see Instructions)

REGION Maywood (TPM) CO. Cook

RCRA

DATE COLLECTED 10 / 08 / 91 (M / D / Y)

IEPA LAB (x or Blank) (see Instructions)

FACILITY NAME

FOR IEPA USE ONLY

COMPLAINT NO.

DATE RECEIVED M / D / Y

SAMPLING PURPOSE CODE (see Instructions)

TEST CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H : M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L | P | C | S | M | 0 | 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				641.39		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				633.81		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				17.02		

IEPA is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty of up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
0 (Rev. 10/84)

*Only Keypunch Lines with Data in Columns 25 or Columns 26-47

RECORD CODE L P C S M 0 2 TRANS CODE A

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER M W 0 8

DATE COLLECTED 1 0 / 0 8 / 9 1

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106				8		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180				190		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 8

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627				6		

*Only Keypunch Lines with Data in Column 25 or Columns 26-47

CODE | P | C | S | M | 0 | 1 | CODE | A |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 0 1/0 2 / 9 2 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 9 (see Instructions)

REGION Maywood (IPM) CO. Cook RCRA

DATE COLLECTED 1 0/0 8/ 9 1 (M D Y)

FACILITY NAME

IEPA LAB (x or Blank) - (see Instructions)

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED (M / D / Y)

SAMPLING PURPOSE CODE (see Instructions)

SITE CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE | L | P | C | S | M | 0 | 1 | TRANS CODE | A | (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER				< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	0 0 0 1 1					5 2 . °F		
ELEVATION OF GW SURFACE (ft. ref MSL)	7 1 9 9 3					6 4 0 . 7 2		
WELL DEPTH ELEVATION (ft. ref MSL)	7 2 0 2 0					6 3 3 . 8 1		
DEPTH TO WATER FROM MEAS. PT. (ft)	7 2 1 0 9					1 7 . 5 9		

This is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the fraud continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

Only Keypunch Lines with Data in Column 35 or Columns 36-47

RECORD CODE L P C S M 0 2 TRANS CODE A

INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

IEPA

FACILITY NAME

MONITOR POINT NUMBER M W 0 9

DATE COLLECTED 1 0 / 0 8 / 9 1 (M / D / Y)

IEPA LAB (c or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	25		
BROMOFORM	32104			<	25		
BROMOMETHANE (Methyl Bromide)	34413			<	25		
CARBON TETRACHLORIDE	32102			<	25		
CHLOROBENZENE	34301			<	25		
CHLOROETHANE	34311			<	25		
2-CHLOROETHYL VINYL ETHER				<	25		
CHLOROFORM	32106				200		
CHLOROMETHANE	34418			<	25		
DIBROMOCHLOROMETHANE	32105			<	25		
1,2-DICHLOROBENZENE	34536			<	25		
1,3-DICHLOROBENZENE	34566			<	25		
1,4-DICHLOROBENZENE	34571			<	25		
DICHLORODIFLUOROMETHANE	34668			<	25		
1,1-DICHLOROETHANE	34496			<	25		
1,2-DICHLOROETHANE	34531			<	25		
t-1,2-DICHLOROETHANE	34546			<	25		
1,2-DICHLOROPROPANE	34541			<	25		
c-1,3-DICHLOROPROPANE	34704			<	25		
t-1,3-DICHLOROPROPANE	34699			<	25		
METHYLENE CHLORIDE	34423			<	25		
1,1,2,2-TETRACHLOROETHANE	34516			<	25		
TETRACHLOROETHENE	34475			<	25		
1,1,1-TRICHLOROETHANE	34506			<	25		
1,1,2-TRICHLOROETHANE	34511			<	25		
TRICHLOROETHENE	39180				620		
TRICHLOROFLUOROMETHANE	34488			<	25		
VINYL CHLORIDE	39175			<	25		

*Note: Keypunch Lines with Data in Columns [illegible] or Columns [illegible]

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 0 9

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IEPA LAB (x or Blank)

TPM

FACILITY NAME

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	25		
TOLUENE	34010			<	25		
XYLENES	81551			<	25		
c-1,2, Dichloroethene	45627			<	25		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CODE L | P | C | S | M | 0 | 1 | CODE | A |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01/02/92 (M D Y) FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 MONITOR POINT NUMBER M W 1 2 (see Instructions)

REGION Maywood CO. Cook RCRA DATE COLLECTED 10/08/91 (M D Y)

TPM

FACILITY NAME IEPA LAB (x or Blank) - (see Instructions)

FOR IEPA USE ONLY COMPLAINT NO.

DATE RECEIVED M / D / Y

SAMPLING PURPOSE CODE (see Instructions)

CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X) TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L | P | C | S | M | 0 | 2 | TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.0 °F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				649.01		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				636.1		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				9.39		

IEPA is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a Civil Penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.
IL 1213
IL (Rev. 10/84)

Only Keypunch Lines with Data in Columns 25 or Columns 26-47

CHEMICAL ANALYSIS FORM

R. CORD CODE L P C S M O 2 TRANS CODE A

I.E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 2

RECTION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	25		
BROMOFORM	32104			<	25		
BROMOMETHANE (Methyl Bromide)	34413			<	25		
CARBON TETRACHLORIDE	32102			<	25		
CHLOROBENZENE	34301			<	25		
CHLOROETHANE	34311			<	25		
2-CHLOROETHYL VINYL ETHER				<	25		
CHLOROFORM	32106			<	25		
CHLOROMETHANE	34418			<	25		
DIBROMOCHLOROMETHANE	32105			<	25		
1,2-DICHLOROBENZENE	34536			<	25		
1,3-DICHLOROBENZENE	34566			<	25		
1,4-DICHLOROBENZENE	34571			<	25		
DICHLORODIFLUOROMETHANE	34668			<	25		
1,1-DICHLOROETHANE	34496			<	25		
1,2-DICHLOROETHANE	34531			<	25		
t-1,2-DICHLOROETHANE	34546			<	25		
1,2-DICHLOROPROPANE	34541			<	25		
c-1,3-DICHLOROPROPANE	34704			<	25		
t-1,3-DICHLOROPROPANE	34699			<	25		
METHYLENE CHLORIDE	34423			<	25		
1,1,2,2-TETRACHLOROETHANE	34516			<	25		
TETRACHLOROETHENE	34475			<	25		
1,1,1-TRICHLOROETHANE	34506			<	25		
1,1,2-TRICHLOROETHANE	34511			<	25		
TRICHLOROETHENE	39180				570		
TRICHLOROFLUOROMETHANE	34488			<	25		
VINYL CHLORIDE	39175			≤	25		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 2

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	25		
TOLUENE	34010			<	25		
XYLENES	81551			<	25		
c-1,2, Dichloroethene	45627			<	25		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

L P C S M 0 1 | A

DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 3 (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10 / 08 / 91 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY

COMPLAINT NO.

DATE RECEIVED (M D Y)

SAMPLING PURPOSE CODE (see Instructions)

TIME CARD PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK)

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

WORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				642.76		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				635.52		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				15.66		

[illegible] is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil [illegible] up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
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*Only Keypunch Lines with Data in Column 35 or Columns 36-47

RECORD CODE L P C S M 0 7 2 TRANS CODE A

INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 3

REGION Matteson CO. Cook RCRA

DATE COLLECTED 10/08/91

TPM

FACILITY NAME

EPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106				3		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180				200		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Note: Keypunch Lines with Data in Columns 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

IE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 7

MONITOR POINT NUMBER M W 1 3

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IBM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627				27		

*Only Keypunch Lines with Data in Column 25 or Columns 26-47

CODE P C S M 0 1 — TRANS CODE A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01/02/92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 4A (see Instructions)

REGION Maywood IEPA CO. Cook RCRA

DATE COLLECTED 10/08/91 (M D Y)

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY — COMPLAINT NO.

DATE RECEIVED M D Y

SAMPLING PURPOSE CODE (see Instructions)

ID CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				636.78		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				609.88		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				20.4		

The Agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½. Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
31 (Rev. 10/84)

*Only Keypunch Lines with Data in Columns 25 or Columns 26-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M o 3 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 4A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1 (M D Y)

TPM

FACILITY NAME

IEPA LAB (E or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	25		
BROMOFORM	32104			<	25		
BROMOMETHANE (Methyl Bromide)	34413			<	25		
CARBON TETRACHLORIDE	32102			<	25		
CHLOROBENZENE	34301			<	25		
CHLOROETHANE	34311			<	25		
2-CHLOROETHYL VINYL ETHER				<	25		
CHLOROFORM	32106			<	25		
CHLOROMETHANE	34418			<	25		
DIBROMOCHLOROMETHANE	32105			<	25		
1,2-DICHLOROBENZENE	34536			<	25		
1,3-DICHLOROBENZENE	34566			<	25		
1,4-DICHLOROBENZENE	34571			<	25		
DICHLORODIFLUOROMETHANE	34668			<	25		
1,1-DICHLOROETHANE	34496			<	25		
1,2-DICHLOROETHANE	34531			<	25		
t-1,2-DICHLOROETHANE	34546			<	25		
1,2-DICHLOROPROPANE	34541			<	25		
c-1,3-DICHLOROPROPANE	34704			<	25		
t-1,3-DICHLOROPROPANE	34699			<	25		
METHYLENE CHLORIDE	34423			<	25		
1,1,2,2-TETRACHLOROETHANE	34516			<	25		
TETRACHLOROETHENE	34475				370		
1,1,1-TRICHLOROETHANE	34506			<	25		
1,1,2-TRICHLOROETHANE	34511			<	25		
TRICHLOROETHENE	39180				4800		
TRICHLOROFLUOROMETHANE	34488			<	25		
VINYL CHLORIDE	39175			<	25		

*Only Keypunch lines with Data in Column 25 or Columns 26-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 4A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 00 / 0 8 / 9 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	25		
TOLUENE	34010			<	25		
XYLENES	81551			<	25		
c-1,2, Dichloroethene	45627				50		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CODE | P | C | S | M | 0 | 1 | CODE | A |

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 0 1/0 2/9 2 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 4C (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0/0 8/9 1 (M D Y)

IEPA LAB (x or Blank) (see Instructions)

FACILITY NAME

FOR IEPA USE ONLY | COMPLAINT NO.

D. E RECEIVED (M D Y)

SAMPLING PURPOSE CODE (see Instructions)

TI CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) (H M)

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

CORD CODE | L | P | C | S | M | 0 | 2 | TRANS CODE | A | (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				635.84		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				588.63		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				18.89		

...is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

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*Only Keypunch Lines with Data in Column 35 or Columns 38-47

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 4C

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IEPA LAB (x or Blank)

IPM

FACILITY NAME

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	25		
BROMOFORM	32104			<	25		
BROMOMETHANE (Methyl Bromide)	34413			<	25		
CARBON TETRACHLORIDE	32102			<	25		
CHLOROBENZENE	34301			<	25		
CHLOROETHANE	34311			<	25		
2-CHLOROETHYL VINYL ETHER				<	25		
CHLOROFORM	32106			<	25		
CHLOROMETHANE	34418			<	25		
DIBROMOCHLOROMETHANE	32105			<	25		
1,2-DICHLOROBENZENE	34536			<	25		
1,3-DICHLOROBENZENE	34566			<	25		
1,4-DICHLOROBENZENE	34571			<	25		
DICHLORODIFLUOROMETHANE	34668			<	25		
1,1-DICHLOROETHANE	34496			<	25		
1,2-DICHLOROETHANE	34531			<	25		
t-1,2-DICHLOROETHANE	34546			<	25		
1,2-DICHLOROPROPANE	34541			<	25		
c-1,3-DICHLOROPROPANE	34704			<	25		
t-1,3-DICHLOROPROPANE	34699			<	25		
METHYLENE CHLORIDE	34423			<	25		
1,1,2,2-TETRACHLOROETHANE	34516			<	25		
TETRACHLOROETHENE	34475			<	25		
1,1,1-TRICHLOROETHANE	34506			<	25		
1,1,2-TRICHLOROETHANE	34511			<	25		
TRICHLOROETHENE	39180				760		
TRICHLOROFLUOROMETHANE	34488			<	25		
VINYL CHLORIDE	39175			<	25		

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER M W 1 4C

DATE COLLECTED 1 0 / 0 8 / 9 1

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	25		
TOLUENE	34010			<	25		
XYLENES	81551			<	25		
c-1,2, Dichloroethene	45627			<	25		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CODE L P C S M 0 1 CODE A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01/02/92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 4D (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91 (M D Y)

IEPA LAB (x or Blank) (see Instructions)

FACILITY NAME

FOR IEPA USE ONLY | COMPLAINT NO.

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK)

DATE RECEIVED (M D Y)

UNABLE TO COLLECT SAMPLE (see Instructions)

SAMPLING PURPOSE CODE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

TO CARD

PROGRAM CODE & UNIT CODE

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (YES/NO) SAMPLE PROPERLY PRESERVED (YES/NO) DATE COMPLETED 10/21/91 FORWARD

COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				618.88		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				566.98		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				34.7		

The IEPA is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1213
0 (Rev. 10/84)

"Only Keypunch Letter with Data in Column 35 or Column 36-47"

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O C TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook

RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER M W 1 4D

DATE COLLECTED 10/08/91

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180				3		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

TPM

FACILITY NAME

MONITOR POINT NUMBER M W 1 4D

DATE COLLECTED 100 / 0 8 / 9 1

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Only Keypunch Lines with Data in Columns 35 or Columns 36-47

L P C S M 0 1 | CODE A

DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 5 A (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10 / 08 / 91 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED M / D / Y

SAMPLING PURPOSE CODE (see Instructions)

TIME CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

WORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				636.57		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				616.37		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				20.3		

Agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil fine up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
0 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 25 or Columns 36-47

RECORD CODE L P C S M O 2 TRANS CODE A

INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 5 A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IEPA LAB (x or Blank)

IPM

FACILITY NAME

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180				1		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 5 A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

TPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

L P C S M 0 1 A

DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9 18)

MONITOR POINT NUMBER M W 1 5 B (see Instructions) (19 22)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10 / 08 / 91 (23 M D Y 28)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions) (29)

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED (42 M / D / Y 47)

SAMPLING PURPOSE CODE (see Instructions) (46)

TIME CARD

PROGRAM CODE (49 — 51) & UNIT CODE (52)

BACKGROUND SAMPLE (X) (54)

TIME COLLECTED (24 HR CLOCK) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) (59)

MONITOR POINT SAMPLED BY (see Instructions) (60) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) (61) ORGANICS (X) (62)

SAMPLE APPEARANCE (63) (102)

COLLECTOR COMMENTS (103) (141)

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO. (146 — 149)

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS (150) (199)

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				642.46		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				633.39		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				14.43		

This form is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
0 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

RECORD CODE L P C S M O 2 TRANS CODE A

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 5 B

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

TPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180			<	1		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch lines with Data in Column [illegible] or Columns [illegible]

RECORD CODE L P C S M O 2 TRANS CODE A

S E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 5 B

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

TPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CODE | L | P | C | S | M | 0 | 1 | CODE | A |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01/02/92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

WELL INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER MW 17A (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91 (M D Y)

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED (M D Y)

SAMPLING PURPOSE CODE (see Instructions)

CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY
Larry Poynter	LDP	ASI		ASI

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 LAB ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE | L | P | C | S | M | 0 | 1 | TRANS CODE | A | (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	7193.				637.02		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				610.7		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				21.08		

This form is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
0 (Rev. 10/84)

*Only Keypunch Lines with Data in Columns 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 7A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180			<	1		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 7

MONITOR POINT NUMBER M W 1 7A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CODE | P | C | S | M | 0 | 1 | CODE | A |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 0 1/0 2/9 2 (M D Y) FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9 18) RCRA

MONITOR POINT NUMBER M W 1 7B (see Instructions)

REGION Maywood CO. Cook

DATE COLLECTED 1 0/0 8/91 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED (M D Y)

SAMPLING PURPOSE CODE (see Instructions)

TIME CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) (H M)

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

CORD CODE | L | P | C | S | M | 0 | 2 | TRANS CODE | A | (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				642.26		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				634.14		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				15.28		

This agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
0 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook

RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER M W 1 7B

DATE COLLECTED 1 0 / 0 8 / 9 1

EPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	10		
BROMOFORM	32104			<	10		
BROMOMETHANE (Methyl Bromide)	34413			<	10		
CARBON TETRACHLORIDE	32102			<	10		
CHLOROBENZENE	34301			<	10		
CHLOROETHANE	34311			<	10		
2-CHLOROETHYL VINYL ETHER				<	10		
CHLOROFORM	32106			<	10		
CHLOROMETHANE	34418			<	10		
DIBROMOCHLOROMETHANE	32105			<	10		
1,2-DICHLOROBENZENE	34536			<	10		
1,3-DICHLOROBENZENE	34566			<	10		
1,4-DICHLOROBENZENE	34571			<	10		
DICHLORODIFLUOROMETHANE	34668			<	10		
1,1-DICHLOROETHANE	34496			<	10		
1,2-DICHLOROETHANE	34531			<	10		
t-1,2-DICHLOROETHANE	34546			<	10		
1,2-DICHLOROPROPANE	34541			<	10		
c-1,3-DICHLOROPROPANE	34704			<	10		
t-1,3-DICHLOROPROPANE	34699			<	10		
METHYLENE CHLORIDE	34423			<	10		
1,1,2,2-TETRACHLOROETHANE	34516			<	10		
TETRACHLOROETHENE	34475			<	10		
1,1,1-TRICHLOROETHANE	34506			<	10		
1,1,2-TRICHLOROETHANE	34511			<	10		
TRICHLOROETHENE	39180				710		
TRICHLOROFLUOROMETHANE	34488			<	10		
VINYL CHLORIDE	39175			<	10		

*Units Keypunch Same with Data in Column 55 or Columns 56-67

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

TPM

FACILITY NAME

MONITOR POINT NUMBER M W 1 7B

DATE COLLECTED 1 0/ 0 8 / 9 1

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	10		
TOLUENE	34010			<	10		
XYLENES	81551			<	10		
c-1,2, Dichloroethene	45627				30		

*Units: Keypunch Lines with Data in Column 35 or Columns 36-47

CODE L P C S M 0 1 CODE A

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01/02/92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 8A (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY

COMPLAINT NO.

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK)

DATE RECEIVED (M D Y)

UNABLE TO COLLECT SAMPLE (see Instructions)

SAMPLING PURPOSE CODE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions)

OTHER (SPECIFY)

TIME CARD

PROGRAM CODE & UNIT CODE

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

COMMENTS

SUPERVISOR SIGNATURE

CORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				632.48		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				605.45		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				25.17		

...ency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111-1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

1218
0 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

IEPA

FACILITY NAME

MONITOR POINT NUMBER M W 1 8A

DATE COLLECTED 10/08/91 (M D Y)

IEPA LAB (E or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	200		
BROMOFORM	32104			<	200		
BROMOMETHANE (Methyl Bromide)	34413			<	200		
CARBON TETRACHLORIDE	32102			<	200		
CHLOROBENZENE	34301			<	200		
CHLOROETHANE	34311			<	200		
2-CHLOROETHYL VINYL ETHER				<	200		
CHLOROFORM	32106			<	200		
CHLOROMETHANE	34418			<	200		
DIBROMOCHLOROMETHANE	32105			<	200		
1,2-DICHLOROBENZENE	34536			<	200		
1,3-DICHLOROBENZENE	34566			<	200		
1,4-DICHLOROBENZENE	34571			<	200		
DICHLORODIFLUOROMETHANE	34668			<	200		
1,1-DICHLOROETHANE	34496			<	200		
1,2-DICHLOROETHANE	34531			<	200		
t-1,2-DICHLOROETHANE	34546			<	200		
1,2-DICHLOROPROPANE	34541			<	200		
c-1,3-DICHLOROPROPANE	34704			<	200		
t-1,3-DICHLOROPROPANE	34699			<	200		
METHYLENE CHLORIDE	34423			<	200		
1,1,2,2-TETRACHLOROETHANE	34516			<	200		
TETRACHLOROETHENE	34475				200		
1,1,1-TRICHLOROETHANE	34506			<	200		
1,1,2-TRICHLOROETHANE	34511			<	200		
TRICHLOROETHENE	39180				26,000		
TRICHLOROFLUOROMETHANE	34488			<	200		
VINYL CHLORIDE	39175			≤	200		

*Only Keypunch Lines with Data in Columns 25 or Columns 26-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 8A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	200		
TOLUENE	34010			<	200		
XYLENES	81551			<	200		
c-1,2, Dichloroethene	45627				2,000		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CODE L P C S M 0 1 CODE A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01/02/92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 8B (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY

COMPLAINT NO.

DATE RECEIVED M D Y

SAMPLING PURPOSE CODE (see Instructions)

TIME CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				647.18		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				627.53		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				10.15		

The Agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

Z-1218
(Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 8B

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	100		
BROMOFORM	32104			<	100		
BROMOMETHANE (Methyl Bromide)	34413			<	100		
CARBON TETRACHLORIDE	32102			<	100		
CHLOROBENZENE	34301			<	100		
CHLOROETHANE	34311			<	100		
2-CHLOROETHYL VINYL ETHER				<	100		
CHLOROFORM	32106			<	100		
CHLOROMETHANE	34418			<	100		
DIBROMOCHLOROMETHANE	32105			<	100		
1,2-DICHLOROBENZENE	34536			<	100		
1,3-DICHLOROBENZENE	34566			<	100		
1,4-DICHLOROBENZENE	34571			<	100		
DICHLORODIFLUOROMETHANE	34668			<	100		
1,1-DICHLOROETHANE	34496			<	100		
1,2-DICHLOROETHANE	34531			<	100		
t-1,2-DICHLOROETHANE	34546			<	100		
1,2-DICHLOROPROPANE	34541			<	100		
c-1,3-DICHLOROPROPANE	34704			<	100		
t-1,3-DICHLOROPROPANE	34699			<	100		
METHYLENE CHLORIDE	34423			<	100		
1,1,2,2-TETRACHLOROETHANE	34516			<	100		
TETRACHLOROETHENE	34475				190		
1,1,1-TRICHLOROETHANE	34506			<	100		
1,1,2-TRICHLOROETHANE	34511			<	100		
TRICHLOROETHENE	39180				5,900		
TRICHLOROFLUOROMETHANE	34488			<	100		
VINYL CHLORIDE	39175			<	100		

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 7

MONITOR POINT NUMBER M W 1 8B

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	100		
TOLUENE	34010			<	100		
XYLENES	81551			<	100		
c-1,2, Dichloroethene	45627			<	100		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

CODE L P C S M 0 1 2 — CODE A

REPORT DUE DATE 01/02/92 — FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 — MONITOR POINT NUMBER M W 18B-1 (see Instructions)

REGION Maywood CO. Cook — RCRA — DATE COLLECTED 10/08/91

TPM

FACILITY NAME — IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY — COMPLAINT NO.

D TE RECEIVED — BACKGROUND SAMPLE (X) — TIME COLLECTED (24 HR CLOCK)

SAMPLING PURPOSE CODE (see Instructions) — UNABLE TO COLLECT SAMPLE (see Instructions)

T E CARD — MONITOR POINT SAMPLED BY (see Instructions) — OTHER (SPECIFY)

PS GRAM CODE & UNIT CODE — SAMPLE FIELD FILTERED - INORGANICS (X) — ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Povnter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. — LAB NAME AND ADDRESS — LAB ID NO.

DATE RECEIVED 10/10/91

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) — SAMPLE PROPERLY PRESERVED (Y/N) — DATE COMPLETED 10/21/91 — FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 — TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER				< OR >	VALUE	REPORTING LIMIT	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011					52.0°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993					643.46		
WELL DEPTH ELEVATION (ft. ref MSL)	72020					628.6		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109					13.64		

IEPA is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil fine up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

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(IEPA Rev. 10/84)

*Only Keypunch Later with Date in Column 25 or Columns 26-47

RECORD CODE L P C S M O 2 TRANS CODE A

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook

RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER M W 18B-1

DATE COLLECTED 1 0 / 0 8/9 1

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			≤	10		
BROMOFORM	32104			≤	10		
BROMOMETHANE (Methyl Bromide)	34413			≤	10		
CARBON TETRACHLORIDE	32102			≤	10		
CHLOROBENZENE	34301			≤	10		
CHLOROETHANE	34311			≤	10		
2-CHLOROETHYL VINYL ETHER				≤	10		
CHLOROFORM	32106			<	10		
CHLOROMETHANE	34418			≤	10		
DIBROMOCHLOROMETHANE	32105			≤	10		
1,2-DICHLOROBENZENE	34536			<	10		
1,3-DICHLOROBENZENE	34566			<	10		
1,4-DICHLOROBENZENE	34571			≤	10		
DICHLORODIFLUOROMETHANE	34668			<	10		
1,1-DICHLOROETHANE	34496			<	10		
1,2-DICHLOROETHANE	34531			<	10		
t-1,2-DICHLOROETHANE	34546			≤	10		
1,2-DICHLOROPROPANE	34541			≤	10		
c-1,3-DICHLOROPROPANE	34704			≤	10		
t-1,3-DICHLOROPROPANE	34699			<	10		
METHYLENE CHLORIDE	34423			<	10		
1,1,2,2-TETRACHLOROETHANE	34516			<	10		
TETRACHLOROETHENE	34475				100		
1,1,1-TRICHLOROETHANE	34506			≤	10		
1,1,2-TRICHLOROETHANE	34511			≤	10		
TRICHLOROETHENE	39180				2000		
TRICHLOROFLUOROMETHANE	34488			<	10		
VINYL CHLORIDE	39175			≤	10		

*Only Keypunch Lines with Data in Columns 32 or Columns 38-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 7

MONITOR POINT NUMBER M W 18B-1

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0/ 0 8 / 9 1

IEPA LAB (x or Blank)

IPM

FACILITY NAME

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	10		
TOLUENE	34010			<	10		
XYLENES	81551			<	10		
c-1,2, Dichloroethene	45627				140		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CODE L P C S M 0 1 | CODE A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 0 1/ 0 2/ 9 2 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 18B-2 (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0/ 0 8/ 91 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY | COMPLAINT NO.

D TE RECEIVED M / D / Y

SAMPLING PURPOSE CODE (see Instructions)

E CARD

GRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

L COMMENTS

SUPERVISOR SIGNATURE

ORD CODE L P C S M 0 1 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				644.58		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				632.81		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				12.93		

... is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil ... up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

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(Rev. 10/84)

*Only Keypunch Lines with Data in Column 25 or Columns 26-47

RECORD CODE L P S M 0 3 TRANS CODE A

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 18B-2

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

TPM

FACILITY NAME

EPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	10		
BROMOFORM	32104			<	10		
BROMOMETHANE (Methyl Bromide)	34413			<	10		
CARBON TETRACHLORIDE	32102			<	10		
CHLOROBENZENE	34301			<	10		
CHLOROETHANE	34311			<	10		
2-CHLOROETHYL VINYL ETHER				<	10		
CHLOROFORM	32106			<	10		
CHLOROMETHANE	34418			<	10		
DIBROMOCHLOROMETHANE	32105			<	10		
1,2-DICHLOROBENZENE	34536			<	10		
1,3-DICHLOROBENZENE	34566			<	10		
1,4-DICHLOROBENZENE	34571			<	10		
DICHLORODIFLUOROMETHANE	34668			<	10		
1,1-DICHLOROETHANE	34496			<	10		
1,2-DICHLOROETHANE	34531			<	10		
t-1,2-DICHLOROETHANE	34546			<	10		
1,2-DICHLOROPROPANE	34541			<	10		
c-1,3-DICHLOROPROPANE	34704			<	10		
t-1,3-DICHLOROPROPANE	34699			<	10		
METHYLENE CHLORIDE	34423			<	10		
1,1,2,2-TETRACHLOROETHANE	34516			<	10		
TETRACHLOROETHENE	34475				50		
1,1,1-TRICHLOROETHANE	34506			<	10		
1,1,2-TRICHLOROETHANE	34511			<	10		
TRICHLOROETHENE	39180				1600		
TRICHLOROFLUOROMETHANE	34488			<	10		
VINYL CHLORIDE	39175			<	10		

*Data Keypunch Issue with Data in Column [illegible] or Column [illegible]

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O C TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook

RCRA

TPM

FACILITY NAME

MONITOR POINT NUMBER M W 18B-2

DATE COLLECTED 1 0/ 0 8 / 9 1

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	10		
TOLUENE	34010			<	10		
XYLENES	81551			<	10		
c-1,2, Dichloroethene	45627			<	10		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

L P C S M 0 1 A

DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 0 1/0 2/9 2 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9 16)

MONITOR POINT NUMBER M W 1 8 C (19 22) (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0/0 8/9 1 (22 M D Y 28)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions) 29

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED 42 M / D / Y 47

SAMPLING PURPOSE CODE (see Instructions) 48

TIME CARD PROGRAM CODE 49 — 51 & UNIT CODE 52

BACKGROUND SAMPLE (X) 54

TIME COLLECTED (24 HR CLOCK) 55 H M 58

UNABLE TO COLLECT SAMPLE (see Instructions) 59

MONITOR POINT SAMPLED BY (see Instructions) 60 OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) 61 ORGANICS (X) 62

SAMPLE APPEARANCE 62 — 102

COLLECTOR COMMENTS 103 — 142

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO. 146 — 149

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS 150 — 159

SUPERVISOR SIGNATURE

CARD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				643.32		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				583.33		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				14.21		

The Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

*Only Keypunch Lines with Data in Column 25 or Columns 38-47

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RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 8 C

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	5		
BROMOFORM	32104			<	5		
BROMOMETHANE (Methyl Bromide)	34413			<	5		
CARBON TETRACHLORIDE	32102			<	5		
CHLOROBENZENE	34301			<	5		
CHLOROETHANE	34311			<	5		
2-CHLOROETHYL VINYL ETHER				<	5		
CHLOROFORM	32106			<	5		
CHLOROMETHANE	34418			<	5		
DIBROMOCHLOROMETHANE	32105			<	5		
1,2-DICHLOROBENZENE	34536			<	5		
1,3-DICHLOROBENZENE	34566			<	5		
1,4-DICHLOROBENZENE	34571			<	5		
DICHLORODIFLUOROMETHANE	34668			<	5		
1,1-DICHLOROETHANE	34496			<	5		
1,2-DICHLOROETHANE	34531			<	5		
t-1,2-DICHLOROETHANE	34546			<	5		
1,2-DICHLOROPROPANE	34541			<	5		
c-1,3-DICHLOROPROPANE	34704			<	5		
t-1,3-DICHLOROPROPANE	34699			<	5		
METHYLENE CHLORIDE	34423			<	5		
1,1,2,2-TETRACHLOROETHANE	34516			<	5		
TETRACHLOROETHENE	34475			<	5		
1,1,1-TRICHLOROETHANE	34506			<	5		
1,1,2-TRICHLOROETHANE	34511			<	5		
TRICHLOROETHENE	39180				940		
TRICHLOROFLUOROMETHANE	34488			<	5		
VINYL CHLORIDE	39175			<	5		

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

[illegible] FORM

RECORD CODE L P C S M 0 2 TRANS CODE A

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 8 C

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 0 8 9 1

IEPA LAB (x or Blank)

TPM

FACILITY NAME

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	5		
TOLUENE	34010			<	5		
XYLENES	81551			<	5		
c-1,2, Dichloroethene	45627				84		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

L | P | C | S | M | 0 | 1 | [A]

DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 9 A (see Instructions)

REGION Maywood (TPM) CO. Cook

RCRA

DATE COLLECTED 10 / 08 / 91 (M D Y)

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED (M D Y)

SAMPLING PURPOSE CODE (see Instructions)

TIME CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE | L | P | C | S | M | 0 | 1 | TRANS CODE | A | (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LIMIT	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				641.53		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				607.9		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				16.67		

1218
D (Rev. 10/84)

*Only Keypunch Lines with Data in Columns 35 or Columns 36-47

RECORD CODE L P C S M O 2 TRANS CODE A

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 9 A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

TPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180				180		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 1 9 A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627				4		

*Only Keypunch Lines with Data in Column 22 or Columns 38-47

CODE L P C S M 0 1 CODE A

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01/02/92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 0A (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91 (M D Y)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY

COMPLAINT NO.

D TE RECEIVED (M D Y)

SAMPLING PURPOSE CODE (see Instructions)

E CARD

GRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) (H M)

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

COMMENTS

SUPERVISOR SIGNATURE

CORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				639.57		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				608.91		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				17.84		

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111-1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

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0 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M O 2 TRANS CODE A

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 0A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180				5		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch Lines with Data in Column 32 or Columns 39-47

RECORD CODE L P C S M 0 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER M W 2 0A

DATE COLLECTED 10/08/91

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Only Keypunch Lines with Data in Column 33 or Columns 38-47

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

CODE L P C S M 0 1 — CODE A

REPORT DUE DATE 01/02/92 (M/D/Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 0B (see Instructions)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91 (M/D/Y)

IEPA LAB (x or Blank) (see Instructions)

FACILITY NAME

FOR IEPA USE ONLY — COMPLAINT NO.

DATE RECEIVED M/D/Y

SAMPLING PURPOSE CODE (see Instructions)

CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

COMMENTS

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 1 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.0°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				642.43		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				632.02		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				14.89		

This is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty of up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

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0 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

CHEMICAL ANALYSIS FORM

RECORD CODE L P C S M 0 3 TRANS CODE A

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER M W 2 OB

DATE COLLECTED 10/08/91

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180			<	1		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch lines with Data in Columns 35 or Columns 36-47

RECORD CODE L P C S M D 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 0B

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IEPA LAB (x or Blank)

IEPM

FACILITY NAME

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

CODE L P C S M 0 1 CODE A

REPORT DUE DATE 01/02/92 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9 – 18)

MONITOR POINT NUMBER M W 2 2A (see Instructions) (18 – 22)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91 (22 M D Y 23)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions) (29)

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED (42 M D Y 47)

SAMPLING PURPOSE CODE (see Instructions) (48)

TIME CARD

PROGRAM CODE (49 – 50) & UNIT CODE (51)

BACKGROUND SAMPLE (X) (54)

TIME COLLECTED (24 HR CLOCK) (55 H M 58)

UNABLE TO COLLECT SAMPLE (see Instructions) (59)

MONITOR POINT SAMPLED BY (see Instructions) (60) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) (61) ORGANICS (X) (62)

SAMPLE APPEARANCE (63 – 102)

COLLECTOR COMMENTS (103 – 140)

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS (140 – 143)	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO. (146 – 149)

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

COMMENTS (150 – 159)

SUPERVISOR SIGNATURE

CORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				638.12		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				603.28		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				19.66		

The Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

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10 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

RECORD CODE L P C S M O 2 TRANS CODE A

S E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 2A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180			<	1		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 38-47

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 2A

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10/08/91

IPM

FACILITY NAME

EPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

L P C S M 0 1 A

DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (M D Y)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 3 C (see Instructions)

REGION Maywood TPM CO. Cook RCRA

DATE COLLECTED 10 / 08 / 91 (M D Y)

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions)

FOR IEPA USE ONLY | COMPLAINT NO.

DATE RECEIVED M / D / Y

SAMPLING PURPOSE CODE (see Instructions)

UNIT CARD

PROGRAM CODE & UNIT CODE

BACKGROUND SAMPLE (X)

TIME COLLECTED (24 HR CLOCK) H : M

UNABLE TO COLLECT SAMPLE (see Instructions)

MONITOR POINT SAMPLED BY (see Instructions) OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) ORGANICS (X)

SAMPLE APPEARANCE

COLLECTOR COMMENTS

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO.

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY SAMPLE PROPERLY PRESERVED DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS

SUPERVISOR SIGNATURE

ORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LIMIT	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				634.29		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				587.65		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				22.96		

1218
3 (Rev. 10/84)

Only Keypunch Lines with Data in Columns 35 or Columns 36-47

RECORD CODE L P C S M O C TRANS CODE A

E INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 3 C

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

UPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BROMODICHLOROMETHANE	32101			<	1		
BROMOFORM	32104			<	1		
BROMOMETHANE (Methyl Bromide)	34413			<	1		
CARBON TETRACHLORIDE	32102			<	1		
CHLOROBENZENE	34301			<	1		
CHLOROETHANE	34311			<	1		
2-CHLOROETHYL VINYL ETHER				<	1		
CHLOROFORM	32106			<	1		
CHLOROMETHANE	34418			<	1		
DIBROMOCHLOROMETHANE	32105			<	1		
1,2-DICHLOROBENZENE	34536			<	1		
1,3-DICHLOROBENZENE	34566			<	1		
1,4-DICHLOROBENZENE	34571			<	1		
DICHLORODIFLUOROMETHANE	34668			<	1		
1,1-DICHLOROETHANE	34496			<	1		
1,2-DICHLOROETHANE	34531			<	1		
t-1,2-DICHLOROETHANE	34546			<	1		
1,2-DICHLOROPROPANE	34541			<	1		
c-1,3-DICHLOROPROPANE	34704			<	1		
t-1,3-DICHLOROPROPANE	34699			<	1		
METHYLENE CHLORIDE	34423			<	1		
1,1,2,2-TETRACHLOROETHANE	34516			<	1		
TETRACHLOROETHENE	34475			<	1		
1,1,1-TRICHLOROETHANE	34506			<	1		
1,1,2-TRICHLOROETHANE	34511			<	1		
TRICHLOROETHENE	39180			<	1		
TRICHLOROFLUOROMETHANE	34488			<	1		
VINYL CHLORIDE	39175			<	1		

*Only Keypunch lines with Data in Column 35 or Columns 36-47

RECORD CODE L P C S M O 2 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

MONITOR POINT NUMBER M W 2 3 C

REGION Maywood CO. Cook RCRA

DATE COLLECTED 1 0 / 0 8 / 9 1

IPM

FACILITY NAME

IEPA LAB (x or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE (All in ug/L)	REPORTING LEVEL	
BENZENE	34030			<	1		
TOLUENE	34010			<	1		
XYLENES	81551			<	1		
c-1,2, Dichloroethene	45627			<	1		

*Units: Keypunch lines with Data in Column 25 or Columns 26-47

CODE L P C S M 0 1 CODE A

ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHEMICAL ANALYSIS FORM

REPORT DUE DATE 01 / 02 / 92 (36 M D Y 41)

FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 (9 18)

MONITOR POINT NUMBER M W 0 2 (see Instructions) (19 22)

REGION Maywood CO. Cook RCRA

DATE COLLECTED 10 / 08 / 91 (23 M D Y 28)

IPM

FACILITY NAME

IEPA LAB (x or Blank) (see Instructions) 29

FOR IEPA USE ONLY

COMPLAINT NO.

DATE RECEIVED 42 M / D / Y 47

SAMPLING PURPOSE CODE (see Instructions) 48

TIME CARD

PROGRAM CODE 49 — 50 & UNIT CODE 51

BACKGROUND SAMPLE (X) 54

TIME COLLECTED (24 HR CLOCK) 55 H M 58

UNABLE TO COLLECT SAMPLE (see Instructions) 59

MONITOR POINT SAMPLED BY (see Instructions) 60 OTHER (SPECIFY)

SAMPLE FIELD FILTERED - INORGANICS (X) 61 ORGANICS (X) 62

SAMPLE APPEARANCE 63 — 102

COLLECTOR COMMENTS 103 — 142

SPECIAL INSTRUCTIONS TO LAB

Larry Poynter	LDP	ASI		ASI
COLLECTED BY	INITIALS	DIVISION OR COMPANY	TRANSPORTED BY	DIVISION OR COMPANY

LAB USE ONLY

LAB SAMPLE NO. LAB NAME LAB ID NO. 146 — 149

DATE RECEIVED 10/10/91 AND ADDRESS

TIME RECEIVED

SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRESERVED (Y/N) DATE COMPLETED 10/21/91 FORWARD

LAB COMMENTS 150 — 159

SUPERVISOR SIGNATURE

RECORD CODE L P C S M 0 2 TRANS CODE A (COLUMNS 9-29 FROM ABOVE)

FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			< OR >	VALUE	REPORTING LEVEL	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011				52.°F		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993				643.09		
WELL DEPTH ELEVATION (ft. ref MSL)	72020				639.02		
DEPTH TO WATER FROM MEAS. PT. (ft)	72109				18.23		

This form is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1004 and 1021. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $25,000 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to nine year. This form has been approved by the Forms Management Center.

1218
0 (Rev. 10/84)

*Only Keypunch Lines with Data in Column 35 or Columns 36-47

APPENDIX C

SUMMARY OF ANALYTICAL RESULTS

GROUNDWATER MONITORING PROGRAM

A-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-4A	10/08/91[a]	<1	9	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	5.79	1.70	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	03/06/90	4	260	2	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-5A	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	3.49	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	2	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-6A	07/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-7A	01/24/91	<1	<1	<1	<1	<1	<1
	04/09/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-14A	10/08/91	370	4,800	50	<25	<25	<25
	07/25/91	160	15,000	64	<25	<25	<25
	04/25/91	<100	1,200	<100	<100	<100	<100
	01/24/91	<25	7,400	<25	<25	<25	<25
	07/11/90	133	22,000	<1	<1	<1	<1
MW-15A	10/08/91	<1	1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/11/90	<1	5.39	<1	<1	<1	<1
MW-16A	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	18.4	<1	<1	<1	<1
MW-17A	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	1	<1	<1	<1	<1
	04/25/91	<1	1	<1	<1	<1	<1
MW-18A	10/08/91	200	26,000	2,000	<200	<200	<200
	07/25/91	<200	15,000	470	<200	<200	<200
	04/25/91	50	12,000	1,300	<100	<100	<100
	01/25/91	<200	8,000	<200	<200	<200	<200

A-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-19A	10/08/91	<1	180	4	<1	<1	<1
	01/25/91	<2	100	<2	<2	<2	<2
	07/11/90	<1	292	<1	<1	<1	<1
MW-20A	10/08/91	<1	5	<1	<1	<1	<1
	07/25/91	<1	7	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
MW-22A	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	6	<1	<1	<1	<1
	04/25/91	<1	2	<1	<1	<1	<1
	01/25/91	<1	2	<1	<1	<1	<1
MW-24A	03/21/91	<1	<1	<1	<1	<1	<1
MW-25A	03/21/91	<1	<1	<1	<1	<1	<1
MW-26A	03/21/91	<1	<1	<1	<1	<1	<1
MW-27A	03/21/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = cis 1,2 Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

Notes:

a. Chloroform = 15-μg/L; Bromodichloromethane = 2-μg/L

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-1	07/25/91	69	<100	3,300	<100	31	<100
	01/24/91	84	8,700	<250	<250	<250	<250
	07/13/90[a]	222	21,400	6,151	115	<5	5.90
	02/16/90	100	10,000	6,100	<100	<100	<100
	05/08/89	2,150	440,000	<1000	<1000	<1000	<1000
	03/09/89	3,500	103,000	<100	<100	<100	<100
	09/29/88	<10,000	680,000	<10,000	<10,000	<10,000	<10,000
MW-2	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	6.76	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	09/29/88	<1	2	<1	<1	<1	<1
MW-3	01/25/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	1.94	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	09/29/88[b]	<1	3	1	<1	<1	<1
MW-4B	10/08/91	<5	65	310	<5	<5	<5
	07/25/91	<5	140	470	<5	<5	<5
	04/25/91	<5	190	970	<5	5	<5
	01/24/91[c]	2	<5	10	100	<5	240
	07/13/90	1.43	252	538	14.4	<1	<1
	05/08/89[d]	<1	<1	32	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-5B	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/13/90	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-6B	07/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	2	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-7B	01/24/91	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	01/11/89	<1	<1	<1	<1	<1	<1
MW-8	10/08/91[e]	<1	190	6	<1	<1	<1
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	8	<1	<1	<1	<1
	05/08/89	<1	21	<1	<1	<1	<1
	04/14/89	<1	4	<1	<1	<1	<1

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-9	10/08/91[f]	<25	620	<25	<25	<25	<25
	07/25/91	<25	620	<25	<25	<25	<25
	04/25/91	<1	1,600	26	<1	<1	<1
	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	1	<1	<1	<1	<1
	05/08/89	<1	4	<1	<1	<1	<1
	04/14/89	<1	4	<1	<1	<1	<1
MW-10	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	04/14/89	<1	2	<1	<1	<1	<1
MW-11	01/25/91	<1	<1	<1	<1	<1	<1
	02/16/90	<1	<1	<1	<1	<1	<1
	05/08/89	<1	<1	<1	<1	<1	<1
	04/14/89	<1	<1	<1	<1	<1	<1
MW-12	10/08/91	<25	570	<25	<25	<25	<25
	07/25/91	<25	1,500	<25	<25	<25	<25
	04/25/91	4	770	38	<5	2	<5
	01/25/91	<5	330	<5	<5	2	<5
	07/13/90	1.40	566	39.1	<1	1.84	<1
	02/16/90	<1	1,400	30	<1	<1	<1
MW-13	10/08/91[g]	<1	200	27	<1	<1	<1
	01/25/91	<1	74	<1	<1	<1	<1
	07/13/90	<1	1.70	26.4	7.21	<1	<1
	02/16/90	<1	180	2	<1	<1	<1
MW-15B	10/08/91	<1	<1	<1	<1	<1	<1
	01/23/91	<1	<1	<1	<1	<1	<1
	07/11/90	<1	5.05	<1	<1	<1	<1
MW-17B	10/08/91	<10	710	30	<10	<10	<10
	07/25/91	<10	1,800	33	<10	<10	<10
	04/25/91	<25	600	<25	<25	<25	<25
	01/24/91	<25	900	<25	<25	<25	<25
	07/11/90[h]	25.1	12,600	6.06	<1	<1	<1
MW-18B	10/08/91	190	5,900	<100	<100	<100	<100
	07/25/91	<100	2,000	<100	<100	<100	<100
	04/25/91	<100	5,700	<100	<100	<100	<100
	01/25/91	<100	5,000	<100	<100	<100	<100
	07/11/90	226	48,500	<1	<1	<1	<1
MW-18B1	10/08/91	100	2,000	140	<10	<10	<10
MW-18B2	10/08/91	50	1,600	<10	<10	<10	<10

B-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)
(Cont.)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-20B	10/08/91	<1	<1	<1	<1	<1	<1
	07/25/91	<1	<1	<1	<1	<1	<1
	04/25/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1
MW-21B	01/24/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = cis 1,2 Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

Notes:

a. 1,1-Dichloroethane = 5.94-μg/L; 1,1,1,2-Tetrachloroethane = 13.6-μg/L
b. Carbon Tetrachloride = 10-μg/L
c. Chloroform = 70-μg/L
d. o-Dichlorobenzene = 152-μg/L
e. Chloroform = 8-μg/L
f. Chloroform = 200-μg/L
g. Chloroform = 3-μg/L
h. Toluene = 4.40-μg/L

C-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-14C	10/08/91	<25	**760**	<25	<25	<25	<25
	07/25/91	<25	**620**	<25	<25	<25	<25
	04/25/91	**2**	**880**	**210**	<1	<1	<1
	03/26/91	<1	**3**	<1	<1	<1	<1
	01/24/91	**8**	**1130**	<25	<25	<25	<25
MW-18C	10/08/91	<5	**940**	**84**	<5	<5	<5
	01/25/91	<2	**127**	<2	<2	<2	<2
MW-23C	10/08/91	<1	<1	<1	<1	<1	<1
	01/24/91	<1	<1	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = cis 1,2 Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

D-ZONE MONITORING WELLS
CHEMICAL ANALYSIS OF GROUNDWATER (μg/L)

SAMPLE LOCATION	SAMPLE DATE	PARAMETERS					
		PCE	TCE	DCE	VC	1,1,1-TCA	1,1,2-TCA
MW-2D	03/21/91	<1	<1	<1	<1	<1	<1
MW-5D	03/21/91	<1	<1	<1	<1	<1	<1
MW-14D	10/08/91	<1	3	<1	<1	<1	<1
	07/25/91	<1	54	<1	<1	<1	<1
	04/25/91	<1	3	<1	<1	<1	<1

PCE = Tetrachloroethene
TCE = Trichloroethene
DCE = cis 1,2 Dichloroethene
VC = Vinyl Chloride
TCA = Trichloroethane

APPENDIX D

GROUNDWATER RECOVERY WELL CONSTRUCTION DATA

GROUNDWATER EXTRACTION WELLS

Monitoring Well	Date Installed	Date Operation Begun	Monitoring Well Designation	Well Diameter (inches)	Depth of Monitoring Well (ft bgs)	Screened Interval (ft bgs)
PW-1	8/89	2/91	B	4	30	15-30
PW-2	9/89	2/91	B	4	30	15-30
PW-3	9/89	2/91	B	4	30	15-30
PW-4	9/89	2/91	B	4	30	15-30
PW-5	9/89	2/91	B	4	30	15-30
PW-6	9/89	2/91	B	4	30	15-30
PW-7	9/89	2/91	B	4	30	15-30
PW-8	9/89	2/91	B	4	30	15-30
PW-9	9/89	2/91	B	4	30	15-30
PW-10	12/90	1/91	A,B	4	85	10-30, 35-65
PW-11	12/90	1/91	A,B	4	85	10-30, 35-65
PW-12	12/90	1/91	A,B	4	85	10-30, 35-60
PW-13	7/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-14	7/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-15	6/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-16	6/91	9/91	A,B,C	4	85.58	5-30, 35-55, 60-75
PW-17	7/91	9/91	A,B,C	4	73	3-28, 33-48, 53-63
PW-18	7/91	9/91	A,B,C	4	73	3-28, 33-48, 53-63
PW-19	6/91	9/91	B	4	35.25	5.25-35.25
PW-20	6/91	9/91	B	4	35.25	5-35.25
PW-21	7/91	9/91	B	4	25	5-25

APPENDIX E

NPDES SAMPLING RESULTS (SW-846 Method 8010)

SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

Sample Location	Sample Date	Parameters						
		PCE	TCE	1,1-DCE	cis-1,2-DCE	VC	1,1,1-TCA	1,1,2-TCA
Influent	12/28/90	<25	0	<25	*	<25	<25	<25
	01/04/91	<5	460	16	*	<5	<5	<5
	01/09/91	<5	340	<5	*	<5	<5	<5
	01/18/91	<1	300	<1	*	<1	<1	<1
	01/23/91	3	330	<5	*	<5	<5	<5
	02/01/91	<5	430	<5	*	<5	<5	<5
	02/06/91	<10	1,100	<10	*	<10	<10	<10
	02/21/91	40	1,400	<10	*	<10	8	<10
	03/06/91	<5	110	<5	<5	<5	<5	<5
	04/02/91	<5	680	<5	19	<5	<5	<5
	06/04/91	<5	370	<5	<5	<5	<5	<5
	07/01/91	<1	150	<1	<1	<1	<1	<1
	07/30/91	<10	5,400	<10	32	<10	<10	<10
	09/03/91	<3	75	<10	<10	<10	<3	<10
	10/24/91	<0.3	8,600	<100	<100	<100	<0.3	<100
	11/06/91	<0.3	7,100	<100	150	<100	<0.3	<100
Intermediate	12/28/90	<1	18	<1	*	<1	<1	<1
	01/04/91	<1	26	<1	*	<1	<1	<1
	01/09/91	<1	3	<1	*	<1	<1	<1
	01/18/91	<1	7	<1	*	<1	<1	<1
	01/23/91	<1	22	<1	*	<1	<1	<1
	02/01/91	<1	12	<1	*	<1	<1	<1
	02/06/91	<1	9	<1	*	<1	<1	<1
	02/21/91	0.3	<1	<1	*	<1	<0.3	<1
	03/06/91	<1	<1	<1	<1	<1	<1	<1
	04/02/91	<1	<1	<1	<1	<1	<1	<1
	06/04/91	<1	<1	<1	<1	<1	<1	<1
	07/01/91	<1	<1	<1	<1	<1	<1	<1
	07/30/91	<1	<1	<1	<1	<1	<1	<1
	09/03/91	<0.3	<1	<1	<1	<1	<0.3	<1
	10/24/91	0.4	150	<1	5	<1	<0.3	<1
	11/06/91	<0.3	85	<1	<1	<1	<0.3	<1

SUMMARY OF MONTHLY NPDES SAMPLING RESULTS (μg/L)

Sample Location	Sample Date	Parameters						
		PCE	TCE	1,1-DCE	cis-1,2-DCE	VC	1,1,1-TCA	1,1,2-TCA
Effluent	12/28/90	<1	5	<1	*	<1	<1	<1
	01/04/91	1	49	<1	*	<1	<1	<1
	01/09/91	<1	2	<1	*	<1	<1	<1
	01/18/91	<1	3	<1	*	<1	<1	<1
	01/23/91	<1	8	<1	*	<1	<1	<1
	02/01/91	<1	2	<1	*	<1	<1	<1
	02/06/91	<1	2	<1	*	<1	<1	<1
	02/21/91	<0.3	<1	<1	*	<1	<0.3	<1
	03/06/91	<1	<1	<1	<1	<1	<1	<1
	04/02/91	<1	<1	<1	<1	<1	<1	<1
	06/04/91	<1	<1	<1	<1	<1	<1	<1
	07/01/91	<1	<1	<1	<1	<1	<1	<1
	07/30/91	<1	<1	<1	<1	<1	<1	<1
	09/03/91	<0.3	<1	<1	<1	<1	<0.3	<1
	10/24/91	<0.3	<1	<1	<1	<1	<0.3	<1
	11/06/91	<0.3	<1	<1	<1	<1	<0.3	<1

* Results not included in laboratory reports.

PCE = Tetrachloroethene
TCE = Trichloroethene
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
VC = Vinyl Chloride
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane