SUPPLEMENTAL GROUNDWATER ASSESSMENT FINAL REPORT

VILLAGE OF ENDICOTT / TOWN OF UNION
BROOME COUNTY, NEW YORK

6NYCRR Part 373 Permit 7-0346-00032/00006

Volume 1 (Text, Tables, Figures and Plates)

Prepared for:

IBM Corporation

December 31, 2003

Revised and Updated May 17, 2004

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May 14, 2004

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Robert C. Knizek, P.E.
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New York State Department of Environmental Conservation
625 Broadway St.
Albany, NY 12233-7013

Re: Revised Supplemental Groundwater Assessment Report
Village of Endicott/Town of Union, Broome County, New York
Site # 7-040-14

Dear Mr. Knizek:

Attached please find the referenced report. This report has been prepared to address the comments and clarifications contained in your letter to me of April 12, 2004, which I received on April 19, 2004.

> "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Should you have any questions or comments, please direct them to me at (703) 257-1606.

Very truly yours,

M. E. Meyers

Mitchell E. Meyers
IBM Project Manager

Enclosure
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Village Clerk, Village of Endicott

P.E. Certification
Supplemental Groundwater Assessment Final Report
Village of Endicott/Town of Union
Broome County, New York
May 17, 2004

I certify that I have reviewed the Supplemental Groundwater Assessment Final Report for the Village of Endicott/Town of Union in Broome County, New York, revised and updated May 17, 2004 and prepared by Groundwater Sciences, P.C. for IBM Corporation. I certify that I have reviewed all figures, plates, appendices and attachments. To the best of my knowledge, all information contained in this report is complete and accurate.

I certify that all portions of this report have been prepared in accordance with good engineering practices and all work has been performed under my direct supervision.

No alterations to the information contained in this report may be made unless made in accordance with 145-Subsection 7209 of New York State Education Law.

Signature: _____ Date: 5/14/04
Name: Matthew T. Luckman
License No: 076619
State: New York

Executive Summary

This Executive Summary presents a summary of the information provided in the document entitled "Supplemental Groundwater Assessment, Village of Endicott/Town of Union, Broome County, New York," which is comprised of 123 pages of text, 24 plates, 22 figures, and three appendices. This SGA report is the culmination of more than nine months of investigations and data analysis and interpretation. The purpose of the SGA was to determine the feasibility of the means by which cleanup of groundwater plumes beneath the Village of Endicott and Town of Union could be accelerated to potentially alleviate any contribution of volatile organic compounds (VOCs) from these plumes to vapors in the unsaturated soils above the water table.

While this SGA was implemented to identify additional corrective actions that could be taken at this site, available information indicates that corrective actions ongoing at the site since 1980 have resulted in the excavation of contaminated soil at two locations and the removal by vertical extraction wells of more than 780,000 pounds of VOCs. Additionally, during the time period from 1979 through the implementation of the SGA, a total of 288 wells have been installed as part of the corrective action program at this site. From these wells, more than 25,000 groundwater samples have been collected and analyzed with roughly 60 percent of this total being from wells located on the Huron Real Estate, LLC (Huron) plant site.

While the SGA investigations extended over a large area of the village and town, the focus of data analysis and interpretation and the development of corrective actions in this report is on plume reduction in an area in which ventilation of structures has been offered under IBM's Groundwater Vapor Project (GVP) that extends from North Street to the Susquehanna River as shown on Figure ES-1. Investigative or remedial activities in areas beyond the limits of this ventilation area as shown on this figure are being addressed under other work plans developed either by IBM (in the case of the area referred to in this report as the Endicott Forging/Ideal Cleaners Area shown on Figure ES-1) or

the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) in the case of the Eastern and Western Areas shown on Figure ES-1.

Data collection performed as part of the SGA investigation included the installation of 55 monitoring wells at 42 locations, which represented a tripling of this component of the work plan, the drilling of seven geologic borings, and the installation of four test wells followed by aquifer testing in three of these wells. Data collection began on this project in March 2003 and concluded with the collection of recovery data following aquifer tests on December 22, 2003. In all, a total of over 750 groundwater samples were collected and analyzed in support of this investigation.

Following the collection, analysis, and interpretation of these data, the following conclusions have been drawn:

1. The reduction of plume area and concentrations in groundwater beneath the ventilation area shown on Figure ES-1 can be feasibly accelerated by the implementation of the following corrective actions:

    a. While source zones along the railroad corridor on the Huron plant site north of North Street are currently subject to hydraulic control from the operation of extraction wells in the this area, maintenance and enhancement of this hydraulic control will be an essential element in the overall strategy to reduce concentrations in plumes south of North Street. The plan for additional corrective actions therefore includes enhancement of the hydraulic control and VOC removal via groundwater pumping in this on-site area.

    b. Fast-track start-up of a new extraction well located just south of North Street, between Grant Avenue and Garfield Avenue, is anticipated to provide hydraulic control of VOCs in groundwater crossing North Street and to begin immediately to reduce plume size and concentrations in the area south of North Street. Startup of this extraction well will begin

within two months of approval of this plan by the New York State Department of Environmental Conservation (NYSDEC).

c. A combination of active groundwater extraction from a new extraction well and reinjection of clean groundwater, as well as natural flushing of the aquifer in the Southern Area (Figure ES-1) will be applied to the accelerated reduction of this plume area.

The implementation of these corrective actions is projected to result in a reduction in the amount of dissolved VOCs in groundwater within plume areas south of North Street by approximately 50 percent in the first five years and approximately 80 percent in the first ten years. Startup of these actions will range from two months in the case of the extraction well just south of North Street (where the existing test well can be used until permanent facilities are constructed), to approximately one year for the startup of the active plume reduction efforts in the Southern Area. The additional time to startup in this area is due to the need to collect design data for these corrective measures, perform pilot testing of injection wells, complete the design and install the system. However, to the extent VOCs crossing North Street are linked to the presence of VOCs in the Southern Area, plume reduction is anticipated to begin in this area in response to the interception of groundwater flow across North Street via pumping at a new extraction well located just south of North Street, between Grant Avenue and Garfield Avenue.

2. Based on analysis of the available data, the plumes that IBM has been remediating and is addressing under the SGA are not, and have not been, the source of trace levels of VOCs detected in supply wells at the Village of Endicott's South Street Well Field over the past twenty years at concentrations below New York State drinking water standards.

Both groundwater and soil gas monitoring will be performed in accordance with a NYSDEC-approved remedial action monitoring plan to demonstrate the effectiveness of the remedial measures recommended in this report.

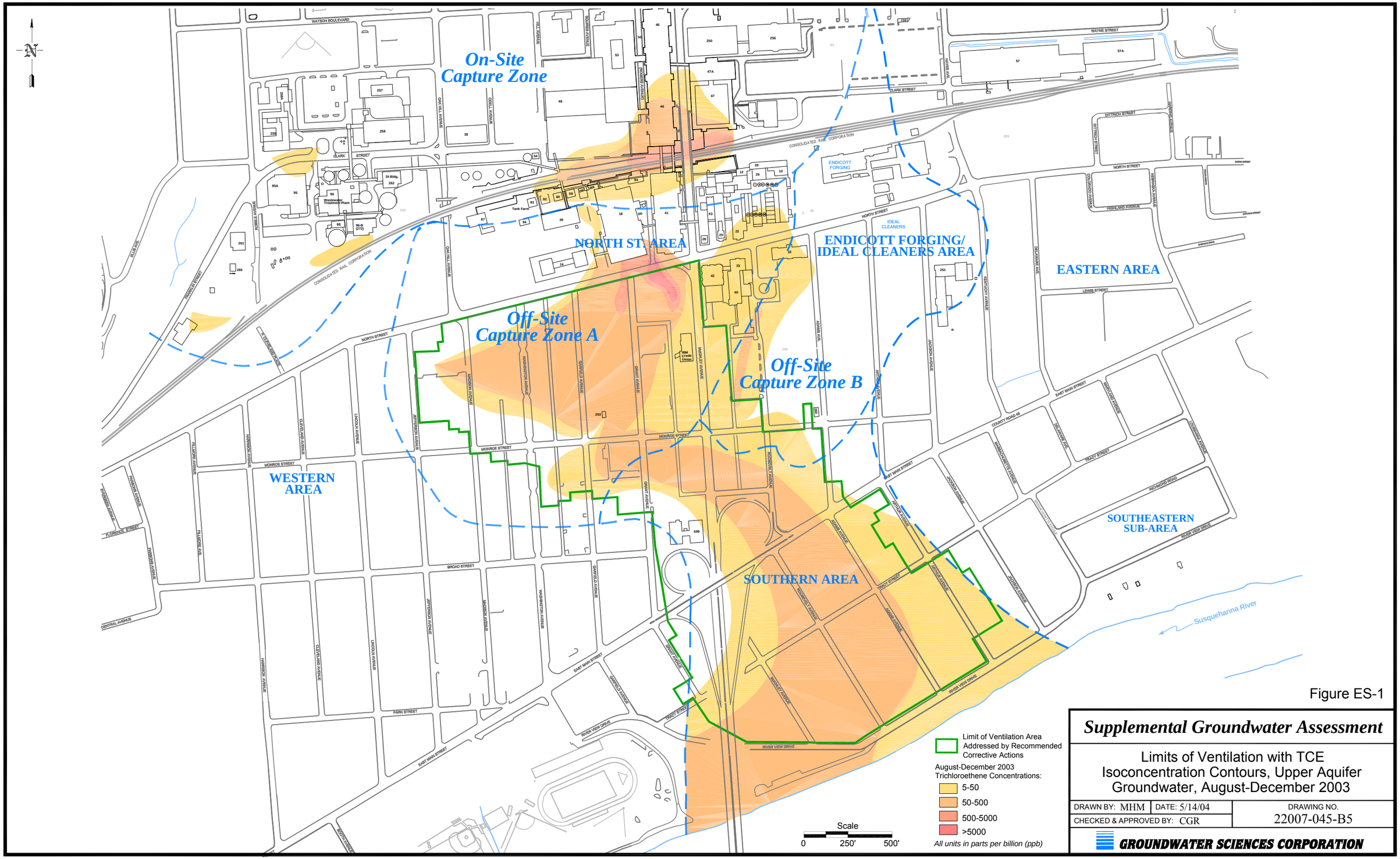

Figure ES-1

Supplemental Groundwater Assessment

Limits of Ventilation with TCE
Isoconcentration Contours, Upper Aquifer
Groundwater, August-December 2003

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR		22007-045-B5

GROUNDWATER SCIENCES CORPORATION

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1 INTRODUCTION

This report has been prepared by Groundwater Sciences Corporation (GSC) at the request of International Business Machines Corporation (IBM). As such, the assessment and evaluation presented in this report present the results of work performed pursuant to the "Supplemental Groundwater Assessment Work Plan," dated March 26, 2003. That work plan was prepared in response to a request from the New York State Department of Environmental Conservation (NYSDEC) that IBM perform an evaluation of measures that can be taken to accelerate, if feasible, the reduction of chemical concentrations in groundwater downgradient from the plant site owned by Huron Real Estate LLC (Huron) in the Village of Endicott and the Town of Union, Broome County, New York.

1.1 Background Information

As shown on Figure 1-1, the plant site covers a total area of 138.7 acres. The property is currently owned by Huron Real Estate, LLC, who purchased the parcels identified on Figure 1-2 from IBM in November 2002. IBM came to own the plant site through acquisitions of a variety of properties over the prior ten decades and through the mid-1990s from entities such as Endicott Johnson Corporation, Walter L. Johnson Company, Inc., Ideal Cleaners, the railroad, small businesses and residences. The corrective action history at this plant site covers a period of roughly 24 years, beginning with the discovery of contamination in groundwater in 1979. The following subsections present a summary description of the corrective actions performed to date, a summary of the Groundwater Vapor Project (GVP) history and the rationale for the Supplemental Groundwater Assessment (SGA) that is the subject of this report.

1.1.1 Corrective Action History

Corrective action activities at this site date back to early 1979 when the first groundwater investigations were performed. The results of that initial investigation and the extensive additional investigations and remedial activities performed since that time are summarized in the following subsections.

1.1.1.1 Discovery of Contamination

The initial investigations of groundwater quality at this site were begun in early 1979 when IBM retained the services of Dames & Moore (D&M), environmental consultants, to install and sample monitoring wells at five locations on, and one location presumably downgradient from, the plant site. The results of these initial investigations are documented in a report prepared by Dames & Moore and submitted to IBM in December 1979 (Dames & Moore 1979). D&M identified the presence of dissolved volatile organic compounds (VOCs) in groundwater at several monitoring wells at the site.

1.1.1.2 Regulatory History

As noted above, the investigations at this site began in early 1979 as a voluntary action by IBM under its Corporate Groundwater Protection Program. Following the discovery of contamination in 1979 and the identification of the TCA release in December 1979 as discussed in subsection 1.1.1.3.1, IBM reported these conditions to NYSDEC. Subsequent investigations and corrective action beginning in 1980 were performed under the oversight of NYSDEC's Division of Water (DOW). DOW oversight continued for a period of approximately twelve years until 1992 when the corrective actions being performed at this site were incorporated into the site's Resource Conservation and Recovery Act (RCRA) permit. Corrective Action at the site has been performed under this permit for the past eleven years. Between 1980 and 1982, IBM submitted quarterly reports to NYSDEC documenting the findings of investigations and groundwater monitoring results, and to obtain concurrence on proposed remedial options and effectiveness. Starting in 1983, IBM began submitting semiannual and annual reports to NYSDEC, which continue to this day.

1.1.1.3 Corrective Action Performed to Date

Corrective actions performed to date include two soil excavation activities, the removal and containment of dissolved and separate phase VOCs from source areas and the control of plumes south of North Street. In addition to these cleanup activities, extensive monitoring of groundwater quality has been performed from 1980 to this day. Each of these activities is summarized in the following subsections.

1.1.1.3.1 Early 1980 Excavation

In December 1979, IBM determined that a release of 4,200 gallons of 1,1,1-tricholorethane (TCA) had occurred at the location shown on Figure 1-3 between the Conrail tracks and Building 18. IBM reported this to NYSDEC at the time, and took immediate action to recover the released material as quickly as possible, including excavation and removal of contaminated soil. While little information exists to document the response to this release, a fairly extensive set of photographs of the soil excavation completed at the location of the release have survived to this date and are reproduced herein as Appendix A-1. These photos reveal the very difficult conditions that were encountered in this excavation, including the need to suspend utility piping on cables from overhanging supports and the need to use hand-digging methods in the close quarters of this excavation. Contaminated soil removed from this excavation down to the water table was disposed of by IBM in a secure landfill.

1.1.1.3.2 1984 Removal Action

Four years later, after purchasing from Endicott Johnson (EJ) a property known as the "Clark Street Campus" (see Figure 1-3), IBM determined from sampling performed prior to IBM commencing any activities including building upon or occupying the property that there was contamination of soil by chromium and several VOCs (tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (TCA), methylene chloride (dichloromethane (DCM)) and toluene). This contamination existed before IBM's acquisition of this property. As a consequence of this contamination, IBM performed a soil removal action before occupying the property that resulted in the offsite disposal of nearly 780 tons of contaminated soil at the CECOS Landfill in Niagara Falls, New York. This removal action was performed under the supervision of NYSDEC. Documentation for this removal action is included herein as Appendix A-2.

1.1.1.3.3 Source Containment and Removal

In early 1980, IBM began to control and remove sources of contamination beneath the plant site through the use of vertical extraction wells to remove both groundwater and separate-phase VOCs. Since 1980, recovery operations have been performed at twenty-two recovery wells on the Facility (defined as areas north of North Street) operating over various time periods (Figure 1-3). Mass

removed from these on-site operations currently totals approximately 773,500 pounds. A breakdown per well or well group is provided in Table 1-1.

Table 1-1 Mass Removed (in pounds) by Well/Location
January 1980 to June 2003
Supplemental Groundwater Assessment, Endicott, New York

	Period		Parameter											
Well/Location	**From**	**To**	**1,1,1-TCA**	**TCE**	**PCE**	**DCM**	**VC**	**1,2-DCE**	**1,1-DCA**	**1,1-DCE**	**Freon 113**	**Benzene**	**Other**	**Total**
Drums	Jan-80	Dec-82	239,294.0	0.0	0.0	0.0	0.0	0.0	**	**	**	**	**	239,294
Sump-2	Jan-80	Dec-81	97,124.0	35.0	6.0	28.0	0.0	0.0	**	**	**	**	**	97,193
EN-004	Jan-80	Mar-82	4,043.0	15.0	2.0	340.0	0.0	0.0	**	**	**	**	**	4,400
EN-007	Apr-80	Sep-80	20.0	0.0	0.0	1.0	0.0	0.0	**	**	**	**	**	21
EN-008	Mar-80	Jun-81	734.0	20.0	1.0	23.0	0.0	0.0	**	**	**	**	**	778
EN-009	Mar-80	Mar-82	117,129.0	768.0	5.0	1,871.0	0.0	0.0	**	**	**	**	**	119,773
EN-011	Mar-80	Oct-81	34.0	1.0	5.0	3,385.0	0.0	0.0	**	**	**	**	**	3,425
EN-025	Feb-80	Jun-03	62,002.9	7,871.3	329.0	2,868.0	1.0	2,770.1	256.7	0.0	0.0	0.0	93.4	76,192
EN-038	Jul-80	Jun-03	79,173.2	3,951.5	676.6	7,315.1	0.0	1,545.7	351.9	0.0	0.0	0.0	44.5	93,058
EN-039	Jul-80	Dec-88	47,345.0	1,555.0	527.0	24,524.0	0.0	164.0	**	**	**	**	**	74,115
EN-042	Jul-80	Nov-81	531.0	75.0	88.0	858.0	0.0	0.0	**	**	**	**	**	1,552
EN-043	Jul-80	Oct-81	250.0	39.0	0.0	2.0	0.0	0.0	**	**	**	**	**	291
EN-046	Jul-80	Sep-81	1,564.0	309.0	0.0	0.0	0.0	0.0	**	**	**	**	**	1,873
EN-047	Feb-81	Mar-81	13.0	6.0	0.0	0.0	0.0	0.0	**	**	**	**	**	19
EN-050	Jul-80	Aug-80	15.0	3.0	44.0	58.0	0.0	0.0	**	**	**	**	**	120
EN-089	Jun-97	Jun-03	0.0	0.4	0.0	4.0	0.0	1.3	0.0	0.0	297.5	0.0	0.0	303
EN-096	Oct-80	Nov-83	157.0	61.0	5.0	0.0	1.0	2.0	**	**	**	**	**	226
EN-107	Feb-81	Jun-03	2,520.9	312.8	3,367.9	396.0	7.8	1,225.6	15.0	0.0	43.6	0.0	136.2	8,026
EN-118*	Sep-81	Jun-03	19,414.5	3,005.4	40.0	251.3	9.7	990.1	233.4	0.0	0.0	0.0	65.6	24,010
EN-119	Jan-82	Nov-97	7,932.0	87.0	24.0	22.0	0.0	215.0	10.0	0.0	0.0	0.0	14.0	8,304
EN-120/160/194	Jan-82	Jun-03	1,407.0	3,588.4	29.6	34.0	22.0	2,229.9	73.4	0.0	6.4	0.0	10.9	7,402
EN-133	Feb-83	Jun-03	359.0	896.2	51.9	1.0	0.0	443.2	28.2	0.3	2.6	0.0	6.0	1,788
EN-154	Dec-83	Jun-03	1,182.0	280.2	1,676.8	632.0	121.5	339.9	140.5	0.0	55.8	0.0	9.4	4,438
EN-175/185/195	Jun-85	Nov-99	1.0	36.3	12.7	0.0	185.7	390.9	0.0	0.0	0.0	0.0	0.0	627
EN-175/185/195/222	Dec-99	Nov-00	0.3	3.8	1.4	0.0	11.1	45.0	0.0	0.0	0.0	0.2	2.7	65
EN-175/185/222	Dec-00	Jun-03	0.3	8.2	3.2	0.0	27.6	67.9	0.0	0.0	0.0	0.2	0.3	108
EN-218	Jun-94	Jun-03	1.3	4.4	0.7	0.0	7.2	36.0	16.2	0.0	4.8	0.0	1.1	72
EN-219	Dec-96	Jun-03	5,264.1	744.4	0.0	0.0	0.0	1,344.6	241.3	0.0	306.9	0.0	31.7	7,933
EN-253	Jun-00	Jun-03	5,467.6	1,641.0	0.0	0.0	0.0	271.6	48.7	0.0	0.0	0.0	11.9	7,441
EN-276	Dec-00	Jun-03	15.5	2.2	3.0	0.1	0.0	0.7	0.5	0.2	7.7	0.0	0.2	30
EN-CAF	Dec-91	Jun-03	99.0	198.5	5.3	0.0	1.1	40.3	63.6	0.0	0.0	0.0	0.8	409
		Total	693,093.5	25,519.0	6,905.2	42,613.5	395.7	12,123.7	1,479.4	0.5	725.2	0.4	428.7	783,285

Key:

1,1,1-TCA: 1,1,1-Trichloroethane
TCE: Trichloroethene
PCE: Tetrachloroethene
DCM: Methylene Chloride
VC: Vinyl Chloride
1,2-DCE : 1,2-Dichloroethene
1,1-DCA: 1,1-Dichloroethane
1,1-DCE: 1,1-Dichloroethene
Freon 113: 1,1,2-Trichloro-1,2,2-trifluoroethane

All mass values are in pounds.
* 30 months of data from 6/97 to 11/99 are not available for this well.
** These parameters were not recorded before June 1992.

All values prior to June 1992 are from Table 24 of the document entitled "Corrective Measures Program, Quantity of Volatile Organic Compounds Removed from Ground Water, 1980 through May, 1992," prepared by Ground Water Associates, Inc., Westerville, Ohio, November 1992.
Values from June 1992 to present are from semiannual groundwater monitoring reports.

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1.1.1.3.4 Plume Control

In addition to these on-site operations to remove source material, extraction wells have been operated off-site (defined as south of North Street) since 1982 to intercept the off-site plume of dissolved VOCs in groundwater. These operations have been conducted at nine extraction wells operating over various periods of time (Figure 1-3). In total, these off-site extraction wells have recovered an additional 10,200 pounds of dissolved VOCs. A breakdown per well or well group by compound is provided in Table 1-1.

1.1.1.3.5 Corrective Action Monitoring

In the time period from early 1979 to the present (including the Supplemental Groundwater Assessment), a total of 288 wells have been installed as part of the corrective action program at this Facility. This includes 140 wells (monitoring and extraction) installed north of North Street on the Facility, and another 144 wells (monitoring and extraction) installed south of North Street off the Facility. Based on the available records for chemical analyses performed on samples from these wells, more than 25,000 groundwater samples have been collected and analyzed with roughly 60 percent of this total being from wells located on the Facility.

1.1.2 Groundwater Vapor Project

In November 2002, IBM and New York State announced the Groundwater Vapor Project to evaluate and address the potential for VOC vapors originating from groundwater to enter buildings located outside of the Facility. The announcement followed an initial program of investigations and testing to screen for VOC vapor intrusion potential that began in May 2002. The screening program was initiated as a normal component of the RCRA Environmental Indicators Initiative, which requires assessment of vapor intrusion to human occupied building space as a new focus of the RCRA program.

Coincident with the November 2002 announcement, IBM and the State notified more than 1,000 property owners whose buildings are located in a GVP study area developed with concurrence of the NYSDEC. In accordance with the Groundwater Vapor Project Action Plan approved by NYSDEC in December 2002, IBM conducted a program of concurrent sampling of indoor air, subsurface soil gas, and ambient (outdoor air) in the study area from January through April 2003. The investigation

proceeded from areas where vapor intrusion potential was perceived to be greater to areas of lower vapor intrusion potential. Where the findings of this sampling indicated the presence of VOCs in indoor air that may be attributable to groundwater vapor intrusion and meeting action criteria established by the NYSDEC and New York State Department of Health, IBM offered to provide mitigation in the form of a substructure ventilation system. The ventilation systems are designed to develop a negative pressure beneath the structure, thereby eliminating vapor intrusion.

Additional indoor air sampling was completed in January 2004 to confirm the limits of ventilation established during the previous heating season. As a result of implementing the Project Action Plan, IBM has offered to install ventilation systems to owners of about 480 properties with structures. The limits of ventilation established for the Groundwater Vapor Project are shown on Figure 1-4. At this time, about 450 ventilation systems have been installed in this area.

1.1.3 Supplemental Groundwater Assessment

With the GVP addressing the immediate issue of vapor intrusion into indoor air, the next step in the corrective action process was to address dissolved VOCs in groundwater to eliminate or substantially reduce this potential source of soil vapor. To this end, a Supplemental Groundwater Assessment Work Plan was prepared and submitted to NYSDEC on March 26, 2003. This work plan called for the performance of five tasks to address the measures that might be taken to accelerate, if feasible, the rate of groundwater cleanup in the assessment area. In addition to evaluating existing data and collecting and analyzing samples from existing groundwater monitoring wells, this work plan called for the installation of fifteen upper aquifer wells and two lower aquifer wells. Two additional well locations were to be determined following the installation of the planned wells. Based on the data that could be collected from these new monitoring wells, as well as existing monitoring wells, an assessment of the current corrective actions would be performed, and corrective action objectives would be established for accelerated remediation. Once these objectives were established, available corrective measure technologies would be screened to determine those that would be applicable to the acceleration of groundwater cleanup at this site. It was anticipated that a single alternative might be identified, however, provision was made to perform a comparative analysis of corrective measure alternatives should more than one alternative be identified. The work plan then required the identification of the preferred alternative, together with the appropriate justification for the selection of the corrective

measures involved. The results of this data collection and evaluation process would then be submitted in a final report.

During the implementation of this work plan, various modifications were approved by NYSDEC as discussed in Section 2. The most significant modification, however, was an increase in the scope of this assessment to include 55 monitoring wells at 42 locations. Delays were experienced that were beyond IBM's control, such as an eight-week delay in receiving permits to drill from the Village and a delay of one aquifer test due to access restrictions. In spite of this threefold expansion of the investigation under the SGA and these delays, this final report is being submitted only one month later than the originally scheduled date for completion of the final report.

1.2 Purpose, Scope and Organization of Report

1.2.1 Purpose and Scope

The purpose of this report is to provide the final report required by the SGA Work Plan and in so doing, document the work that has been performed, present the analysis and interpretation of those results, and make recommendations regarding accelerated cleanup of groundwater in the assessment area.

The scope of this report covers all work performed as part of the SGA in terms of reporting and validating the data that have been collected. However, with respect to the analysis and interpretation of data, the scope of this report has been narrowed based on discussions with and approvals from NYSDEC. In this regard, Figure 1-5 shows the delineation of a number of areas within the overall assessment area. Data collected in all of these areas is being submitted as part of this report. However, for the Eastern Area and the Western Area shown on this figure, data that have been collected are being submitted and posted on the appropriate plates, but only limited analysis and interpretation is being performed as necessary to assist the interpretation of data in the remaining portions of the assessment area. In the Eastern Area, extensive investigations have been performed as part of the GVP and the SGA. These investigations have revealed a pattern of soil vapor and groundwater chemical occurrence and concentrations that clearly shows that multiple sources of contamination unrelated to IBM's activities are responsible for extensive soil vapor and groundwater contamination in this portion of the assessment area.

Furthermore, NYSDEC has informed IBM that the Department's Division of Environmental Remediation (DER) will be performing additional investigations throughout this area to further understand the distribution of contaminants and their probable sources and associated responsible parties. Given the ongoing investigations by DER, IBM and NYSDEC have agreed that this report would provide data relative to the geology, hydrogeology and groundwater chemistry of this Eastern Area. However, with the exception of groundwater elevation contours, analysis or interpretations of that data, and conclusions or recommendations are not provided in this report, although some interpretation of the data will be shown in the area labeled "Southeastern Subarea" (Figure 1-5).

With respect to the Western Area, NYSDEC is pursuing additional investigation and corrective action through the DER.

The On-Site Capture Zone represents the area within which current groundwater extraction from recovery wells provides hydraulic control of the sources in this zone, which are therefore no longer contributing to the presence of VOCs dissolved in groundwater plumes south of North Street. This capture zone does not, however, control probable source zones that may be present between North Street and the groundwater divide that forms the southern limit of the On-Site Capture Zone. Consideration of this area in this report extends to the demonstration that this hydraulic control exists and to the evaluation of the effectiveness of extraction wells in this area. Evaluation of Corrective Measures for this area also addresses thirteen technologies that may be applied to maintaining or enhancing the existing hydraulic control or substantially reducing the mass in place.

The Endicott Forging/ Ideal Cleaners Area, also termed Off-Site Capture Zone B on Figure 1-5, is being addressed under a separate work plan submitted to NYSDEC on March 3, 2004. NYSDEC approval of this work plan was received by IBM on April 12, 2004 and the work is underway.

In summary, therefore, the Eastern and Western Areas are being investigated by NYSDEC due to the presence of contamination for which parties other than IBM are believed to be responsible and the area referred to on Figure 1-5 as the Endicott Forging / Ideal Cleaners Area is being investigated by IBM.

The remaining areas (Off-Site Capture Zone A, including the North Street Area and the Southern Area) are, in fact, the proper focus of the detailed analysis and interpretation of data and the evaluation of corrective measures to accelerate the cleanup of groundwater. In this regard, Figure 1-5 shows the Limits of Ventilation under the GVP for the largest contiguous area in which ventilation of structures has been offered by IBM. This report, therefore, addresses those measures that can be taken to accelerate the cleanup of groundwater in the largest contiguous area of ventilation extending from North Street to the Susquehanna River. Groundwater cleanup in the remaining ventilation areas shown on Figure 1-4 will be performed by the appropriate party or parties based on the results of future investigations.

1.2.2 Organization of Report

The remainder of this report is presented in six additional sections. Section 2 presents a description of the work that has been performed and the results of this assessment; Section 3 presents the analysis and interpretation of this data, Section 4 presents the screening and evaluation of corrective measures technologies, Section 5 presents the recommendation and justification of corrective measures including design data collection needs and a schedule of implementation, and Section 6 presents a list of references.

In addition to these report sections, there are three appendices attached hereto in Volume II. Appendix A presents documentation for historical cleanup activities, Appendix B presents physical data generated during the SGA, and Appendix C presents chemical data generated during the SGA.

1.3 Qualifications of Principal Investigators

The principal investigators for this project have been Craig G. Robertson, P.G., President, Groundwater Sciences Corporation, Stanley Feenstra, Ph.D., Principal, Applied Groundwater Research Limited, and Allan D. Randall, Emeritus, United States Geological Survey, Troy, New York. Brief descriptions of the qualifications of these principal investigators and their role in this project are presented in the following subsections.

1.3.1 Craig G. Robertson, P.G.

Mr. Robertson is president of Groundwater Sciences Corporation. He is the overall project director for the SGA. Mr. Robertson holds a B.A. in Geology, received in 1970 from Franklin and Marshall College; he also received graduate training in geology, hydrogeology and civil and waste water engineering at Southern Illinois University. Over the past 32 years, he has worked as a consultant in the field of hydrogeology on projects ranging from water supply development to hazardous waste site investigations with overall site remediation budgets as high as $60 million. He has performed environmental site assessments for transactions ranging as high as a $92 million asset purchase.

Since 1979, he has been involved primarily in site investigation and remediation under RCRA, CERCLA, and the Clean Water Act in EPA Regions 2, 3, 4, 5, 9, and 10; also, in the states of Pennsylvania, New York, New Jersey, Delaware, Maryland, Indiana, North Carolina, California, Washington, D.C., Washington State, Kentucky, Connecticut, Vermont, Maine, Massachusetts, South Carolina, Virginia, West Virginia, Colorado, Texas, Minnesota, Arizona, Nebraska, Ohio, Oregon and Hawaii; and in Ontario, Canada, Mexico, Brazil, Argentina and the United Kingdom. Mr. Robertson is a registered professional geologist in eighteen states and is a member and past chairperson of the Cleanup Standards Scientific Advisory Board to the Pennsylvania Department of Environmental Protection.

1.3.2 Stanley Feenstra, Ph.D.

Dr. Feenstra has contributed to the analysis of historical groundwater chemistry and the evaluation and screening of corrective action technologies as presented in Sections 3 and 4. He completed a B.Sc. (1978) in Earth Sciences, and M.Sc. (1980) and Ph.D. (1997) degrees in hydrogeology from the University of Waterloo. He was registered (2002) as a Professional Geoscientist in the Province of Ontario and a Certified Ground Water Professional (1989) by the Association of Ground Water Scientists and Engineers. He has been a groundwater consultant since 1980, and established his private consulting practice in 1987. From 1988 until 1998, he was involved also as a participating researcher in the University of Waterloo as part of the Research Consortium Solvents in Groundwater Research Program. Since 1984, he has authored more than 40 papers related to subsurface contamination by chlorinated solvents. Many of these papers have dealt specifically with conceptual models for the behavior of these chemicals in the subsurface, the interpretation of subsurface investigations, and the

challenges in remediation. Together with colleagues at the University of Waterloo and the Oregon Graduate Institute, a comprehensive book was completed in 1996 entitled: “Dense Chlorinated Solvents and other DNAPLs in Groundwater”. Dr. Feenstra was co-author on 5 of the 14 chapters for this volume, including chapters entitled "Diagnosis and Assessment of DNAPL Sites" and “Concepts for Remediation of Sites Contaminated with Dense Non-aqueous Phase Liquids (DNAPLs)”.

1.3.3 Allan D. Randall, U.S.G.S. Emeritus

Mr. Randall has contributed extensively to the interpretation of geologic data, including historical data and data collected as part of the SGA. This effort has included the preparation of three geologic cross sections and the related discussion in Section 3, descriptions of the geologic history of the assessment area, and a discussion of the water budget for this area, including representative average annual recharge rates.

Mr. Randall holds a B. A. in Geology received from the University of Connecticut in 1953, where he was a university scholar. He subsequently received an M.S. in geology from the University of Illinois in1955. He was employed by the U.S. Geological Survey's Water Resources Division from June 1953 through April 1991, chiefly in areal water-resources investigations in Connecticut and in the Appalachian Plateau of New York, which included preparation of ground-water flow models of four localities, including the Endicott area. Other studies included migration of leachate from a municipal landfill, from a low-level radioactive-waste landfill, and from a commercial fertilizer plant. From 1983 through 1991, Mr. Randall participated in a regional evaluation of stratified-drift aquifers throughout the glaciated northeastern United States. From 1991 through 2003, he continued working part-time for the U.S. Geological Survey in emeritus (volunteer) status; he also undertook one or more paid hydrogeology consulting assignments for 25 clients, plus 3 hometown pro bono investigations. His bibliography includes 27 reports published by the U.S. Geological Survey or co-operating state agencies, 5 articles and an abstract in professional journals or monographs, and 5 articles in field guidebooks published by the New York Geological Association.

Mr. Randall’s principal research interests are glacial geology and its influence on the geometry and distribution of stratified-drift aquifers; recharge to stratified-drift aquifers; use of surficial geology and

other basin properties to estimate low flow of streams; and recharge to bedrock in till-mantled upland areas.

2 DESCRIPTION OF WORK PERFORMED AND RESULTS

This section presents a description of the work that has been performed in implementing the SGA Work Plan and the results of that data collection effort. As will be discussed, collection of data began in March 2003 prior to the approval of the SGA Work Plan and the collection of data has extended to December 22, 2003, just nine days prior to the final report due date. The last data collected is aquifer test recovery data, which is presented in this report, but has not been completely analyzed. With respect to chemical concentration data, the last samples were collected at the end of the aquifer tests on December 16, 17 and 18. While these data are presented herein, data validation for samples collected after November 2, 2003, including these latest samples, will not be completed until after the submission of the final report. Therefore, a separate quality assurance report will be prepared and submitted to document the validation of this latest data, and to present the overall quality assurance report for chemical data collected during this investigation.

The subsections that follow document the data collection that has been performed and present the results of that data collection in the same sequence in which the data collection efforts were described in the SGA Work Plan.

2.1 Acquisition of Aerial Photography and Topographic Mapping

Aerial photography of this assessment area was flown by L. Robert Kimball & Associates (Kimball) of Ebensburg, Pennsylvania on April 13, 2003. The photography was flown to support the preparation of digital maps at two scales, 1" = 200 feet with a 5-foot contour interval and 1" = 40 feet at a 1-foot contour. Digital mapping of the assessment area was then prepared at these scales and contour intervals by Kimball. The 1" = 200-foot contour map was received by GSC on September 18, 2003, and the final 1"=40-foot scale maps were received by GSC on September 11, 2003. Plate 2-1 presents the 1"=200-foot topographic contour map with all culture represented.

2.2 Identification of Current Groundwater Users

Current groundwater users were identified by contacting the Broome County Department of Health, the Village of Endicott, and Huron Real Estate, LLC. Based on these contacts, it was determined that within or adjacent to the assessment area, there are two principal wellfields that are used for water supply. These are the Village of Endicott's South Street wellfield and Huron's wellfield, both located as shown on Plate 2-2. Two wells at the South Street Well Field (SSWF) are used for potable water supply for residents of the Village and surrounding areas of the Town of Union. These two wells are designated by the Village as wells #5 and #28. In the Huron Well Field (HWF) wells 2, 3, 4, and 5 are currently used for supplying the industrial water use requirements of the Huron facilities. Historical data on the use of these well fields is presented in Appendix B-1.

2.3 Surveying of Well Locations and Elevations

At the outset of this project, surveying of all existing monitoring wells and extraction wells was performed by Hawk Engineering. This surveying activity began on March 26, 2003 and was concluded on May 9, 2003. In all, 198 existing monitoring wells were surveyed to a common datum with a horizontal tolerance of one foot and a vertical tolerance of 0.01 feet. Subsequently, the locations of the HWF wells were included in this survey, as well as the two production wells and two monitoring wells at the SSWF, and the three monitoring wells and two recovery wells at the Union-Endicott High School (which were installed in response to a release of petroleum products).

During and following the subsequent installation of additional monitoring wells, each new monitoring well was tied into this overall well survey so that the entire monitoring, extraction and supply well system would be tied into the same datum and survey coordinates. Plate 2-2 shows the surveyed locations of all of these wells. This map forms the basis for the posting of physical and chemical data collected from each of these locations. Both the survey coordinates and the measuring point elevations for each of these well locations are included in the physical well data tables attached hereto in Appendix B-2.

2.4 Sampling of Existing Monitoring Wells

The table at the beginning of Appendix B-6 ("2003 Groundwater Elevation Schedule") lists the wells where groundwater elevations were measured in the course of completing the SGA and performing routine monitoring activities in 2003. A similar table at the beginning of Appendix C ("2003 Groundwater Sampling Schedule") lists the wells where groundwater samples were collected for the SGA and for routine monitoring activities in 2003. As shown in these tables, sampling of existing wells was performed from March 10 to March 13, 2003, during a scheduled quarterly sampling round required by the approved Groundwater Monitoring Plan under the Part 373 permit, 56 inactive existing monitoring wells were sampled and analyzed for VOCs by SW-846 Method 8260, along with the 87 samples (plus eight duplicate samples) from monitoring wells required to be monitored under the site's approved groundwater monitoring plan. Subsequently, between August 11 and August 14, 2003, during another scheduled quarterly sampling round, a total of 42 previously existing inactive monitoring wells were sampled in addition to the 142 monitoring wells required to be sampled under the site's approved groundwater monitoring plan. The results of both of these sampling rounds are appended hereto in Appendices C-1 and C-2.

2.5 Analysis of Data from Existing Wells

During both the March and August 2003 groundwater sampling rounds, comprehensive groundwater elevation measurements were acquired from virtually all of the existing active or inactive monitoring wells. These groundwater elevations were derived from depth-to-groundwater measurements made from the newly surveyed measuring point at the top of casing (TOC) at each monitoring well. The results of these groundwater elevation measurements were used to create groundwater elevation contour maps for each of these events.

Similarly, the groundwater chemistry data derived from each of the sampling rounds described above was used to interpret, in particular, the distribution of TCE in groundwater through progressive revisions to the TCE concentration contour map for the upper aquifer, and the creation of "bubble" maps that depict the relative concentrations of various VOCs at each monitoring well through the use of pie charts.

2.6 Installation, Testing, Sampling and Surveying of Additional Monitoring and Test Wells

This subsection discusses the installation, testing, sampling and surveying of additional monitoring and test wells as proposed in the original SGA Work Plan and modified with approval from NYSDEC during implementation.

2.6.1 Borings, Monitoring Wells and Test Wells

Following the analysis of data from existing wells, the SGA called for the drilling of borings and the drilling and installation of monitoring wells and test wells. The following subsections describe these drilling and well construction activities. The locations of all borings, monitoring wells and test wells are shown on Plate 2-2.

2.6.2 Drilling of Geologic Borings

The SGA Work Plan called for the drilling of four test borings, one each at the locations of proposed test wells (EN-19, EN-80, EN-214, and EN-284). Test borings were actually completed at three of these locations (EN-80, EN-214, and EN-284). No test boring was completed at EN-19 due to the determination that there was insufficient saturated thickness at this location to construct and test a test well. As an alternative to performing an extraction test at EN-19, such a test was proposed at EN-206 in the Southern Area and approved by NYSDEC. Therefore, the fourth planned boring was moved from EN-19 to EN-206. Since these borings were completed for the purpose of determining the appropriate design for a test well, gradation analyses were run on samples collected from these borings in the anticipated screened intervals for these test wells. Both the boring logs and the gradation analyses for these borings are included in Appendix B-3.

In addition to these four borings completed for test well design, an additional three borings were drilled at locations EN-423, EN-424, and EN-425, as shown on Plate 2-2. The purpose of these additional borings was to gain more information on the top of silt elevation. Geologic logs for these borings are also included in Appendix B-3.

2.6.3 Monitoring Well Drilling and Installation

As noted previously, the SGA Work Plan initially called for the installation of 15 monitoring wells in the upper aquifer (with two additional locations to be determined later), and two monitoring wells in the lower aquifer. During the implementation of the SGA investigation, the total number of wells added to the original 17 was 39, as contrasted with two anticipated to be added based on the SGA work plan. One of these 39 additional wells was determined to be dry at the time of drilling and no well was constructed. Therefore, a total of 55 monitoring wells were constructed, including the original 17 and the additional 38. Many of these wells were installed as clusters at individual locations, such that the total number of locations at which the 55 wells were installed is 42. One of these additional wells is constructed in the lower aquifer, and the remainder were constructed in the upper aquifer. Plate 2-2 shows, the locations of the monitoring wells in both the upper and lower aquifers, including color-coding of the wells installed as part of the SGA. Geologic logs with well construction details for these monitoring wells are contained in Appendix B-3.

2.6.4 Test Well Drilling and Construction

The SGA Work Plan called for the installation and testing of four test wells, which, as previously noted, were to be constructed at locations EN-19, EN-80, EN-214, and EN-284. As discussed earlier in this report, the saturated thickness at location EN-19 was less than four feet when measured prior to mobilization to drill geologic test borings at each of these locations; therefore, this test well site was deleted from the plan with NYSDEC's approval. Similarly, the test boring drilled at EN-80 revealed that there was inadequate saturated thickness, and the characteristics of the material that was saturated was insufficient to support the construction and testing of the test well. Therefore, this site was also deleted from the plan as a test well location, again with NYSDEC's approval. However, in an effort to better characterize the potential effectiveness of an extraction well in the Southern Area, well EN-206 was identified as an additional location at which a test well could be constructed and tested. This additional location was, therefore, added to the test well program with NYSDEC's approval.

In all, five test wells were constructed, two at the EN-284 location, two at the EN-214 location and one at the EN-206 location. Logs for all of these test wells are included herein in Appendix B-3. In designing and constructing these test wells, the objective was to screen the lower one-third to one-half of the saturated thickness encountered at each location. This was first and foremost to follow proper

practice in constructing extraction wells in water table aquifers. However, it was also to provide a basis for potentially increasing the yield available from each well through the use of a vacuum-assisted system. This involves creating a vacuum in the well casing by sealing all of the casing joints and the surface cap and then attaching the suction intake of a water jet exhauster to the casing to maintain more than 25 inches of mercury vacuum, if necessary. A complete description of the vacuum-assisted extraction technology is presented in the report, "Evaluation of Existing Corrective Measures Systems", (GSC, April 30, 2004). The effect of this vacuum assist is to increase the available drawdown in the well so long as the water level in the aquifer is not drawn down to the top of the screen, in which case the vacuum would be broken. Given a net-positive suction head required (NPSHR) for typical submersible pumps of approximately 14 feet, this vacuum assist could add as much at 18 feet to the available drawdown in the well. When dealing with relatively thin, shallow water table aquifers, such as the upper aquifer at Endicott, this can result in a more than doubling of the available drawdown in a given well.

Two wells were constructed at the EN-284 location to evaluate the relative merits of an extraction well constructed in the shallow portion of the Upper Aquifer at this location versus the deeper portion. In this regard, EN-284 penetrates a kettle hole extending to a depth of 57 feet below ground surface. As a result, there is an exceptionally high saturated thickness (33 feet) in the upper aquifer at this location; however, the saturated sediments are characterized by interbedded coarser- and finer-textured units. Therefore, there was a concern that simply constructing an extraction well in the bottom one-third of the saturated thickness of this unit might not have the desired effect on the shallow portions of the Upper Aquifer. To examine this concern, two test wells were constructed, one in the bottom third of the aquifer (EN-284TD) and one in the top third of the aquifer (EN-284TS). Short-term tests were performed in each of these wells and the deeper well was selected to be used in the test. This choice was validated based on the dewatering of the shallow test well during the test performed in the deeper well.

Two test wells were constructed at EN-214 due to the fact that the initial test well (labeled EN-214C on Plate 2-2) exhibited an unacceptable yield during well development. This well was replaced with a well screened in the same bottom interval as EN-214C, but also screened in a second higher interval that appeared to have better hydraulic characteristics. The Upper Aquifer in which well EN-214C and the other wells at this location were drilled is comprised of saturated Outwash. As described in Section 3.1.2.1, Depositional

Environment Near Endicott, this Outwash unit is a sequence of prograding deltas in the glacial lake that at one time existed in Endicott and resulted in the deposition of the Lacustrine silt that underlies the Outwash. Deltaic sequences typically exhibit a coarsening-upward sedimentary texture that reflects the deposition of coarser sediments at the head of the delta over finer sediments in the pro-delta area. However, although this pattern may generally apply, especially to geographically large, thick deltaic sequences, on the scale of the infilling of this pro-glacial lake, the pattern, although generally recognizable, can be more variable and at times produce coarser-textured basal units immediately above the Lacustrine silt. One possible explanation of this occurrence may be the rapid influx of coarser material due to a breakout of meltwater from a nearby distributary channel into an area where no significant pro-glacial deposition had, as yet, taken place. Above this basal unit, one would then expect to see a typical coarsening-upward sequence.

Based on the log of well EN-214B and gradation analyses of samples collected during its drilling, which were relied on to design the test well constructed at EN-214C, there was just such a sequence in the saturated Outwash unit that comprises the Upper Aquifer at this location. There is, therefore, a basal sand and gravel unit (42 to 49 ft bgs) overlain by a fine-grained sand (37.5 to 42 ft bgs), which is in turn overlain by a sand and gravel unit (35 to 37.5 ft bgs).

In designing extraction well EN-214C, the objective was to screen roughly the bottom third of the saturated thickness of the aquifer, which extends over a depth interval of approximately 25 feet from the water table at 24 ft bgs to the top of the silt at 49 ft. bgs. The other consideration in this design was the desire to maintain the top of the screen as deep as possible to permit the use of vacuum-enhanced recovery with the maximum effect possible.

Given the first consideration, the length of the screen would nominally be eight feet. However, with the base of the screen set at 48 ft. bgs (one foot above the top of the silt to avoid pumping silt through the sand pack) the top of the screen would be at 40 ft. bgs, which would have been above the top of the basal sand and gravel extending two feet into the overlying fine sand. At this point there were two choices. The first was to install an eight-foot long screen with variable slot size and pack sand gradation to match the gradation of the two units and the second was to recognize that the fine sand would be likely to produce much less water than the sand and gravel and to, therefore, screen only the basal sand and gravel. This would also fit well with the second consideration to maintain the top of the screen as deep as possible. As a consequence of these and other considerations, the final design of this well included a 4.75 ft. screen interval from 43.25 to 48 ft bgs. Setting the top of the screen 15 inches below the bottom of the fine sand was to avoid the possibility that, during development, sufficient formation material might be

removed to cause the contact between the sand and gravel and the fine sand to slump below the top of the screen, resulting in a well that would be a sand-pumper.

With the test well constructed in this manner, a short-term test was run to determine its specific capacity. At the beginning of this test, there was approximately 18 feet of available drawdown with the intake of the pump set at the top of the screen. Over the course of a 20-minute test at just under 20 gallons per minute, the water level drew down 18 feet, yielding a specific capacity of only 1 gpm/foot of drawdown. This was much lower than expected based on the characteristics of the aquifer and the history at other wells.

Based on the outcome of this initial attempt to construct a test well at this location, a decision was made to construct a second test well (EN-214T) which would incorporate the screened interval from the first well and add to it a second section of screen in the sand and gravel overlying the fine sand unit. The fine sand unit was again not included in the screened interval because it would not have contributed significantly to the yield of the well and its inclusion would have complicated even further the design and installation of the screen and associated pack sand.

At the conclusion of the long-term test at well EN-214T, it exhibited a specific capacity of nearly 60 gpm/ft. Clearly this indicates that the decision to construct the second well was a good one. It also shows that the substantial majority of the water was produced from the shallower of the two screen intervals. However, this is an observation that relates to the hydraulics of this well, not the hydraulics of the aquifer. At other locations, including the other two test wells, the units that produce the extracted groundwater are at the base of the aquifer (at EN-284TD this corresponds to the bottom 13 feet of a 44-foot saturated thickness and at EN-206T this corresponds to the bottom two feet of an eleven-foot saturated thickness).

Given the variation in the strata that comprise the Upper Aquifer, this understanding of the significance of the various screen segments cannot be extrapolated very far from the location of test well EN-214T. In the end, each production well, and for that matter injection well, will have to be designed based on the data for that location as it would reflect the likely hydraulics of the well and the considerations that go into the design of a screened interval(s) and associated pack sand.

A single test well was constructed at location EN-206T. Due to the limited saturated thickness (11 feet) and the presence of coarser-textured materials at the base of the Upper Aquifer, only the bottom two feet of the aquifer were screened. This construction took advantage of the higher hydraulic conductivity of these basal materials as well as permitting the use of the vacuum-assisted extraction technology.

Geologic logs and well construction details for these five test wells are included in Appendix B-3, and the locations of the individual test wells are shown on Plate 2-2.

2.7 Shutdown and Aquifer Tests

To determine the probable areal influence of the existing extraction wells, the characteristics of the upper aquifer, and the potential areal influence of additional extraction wells, a shutdown test, three aquifer tests and pulse tests were performed in monitoring and extraction wells at this site. The following subsections describe each of these data collection activities.

2.7.1 Shutdown Tests

A shutdown test of the existing extraction wells was performed prior to the performance of aquifer tests in an effort to determine the probable areal influence of the existing extraction wells. This shutdown test, as well as the aquifer tests, was performed in accordance with an aquifer test work plan summary submitted to NYSDEC on October 23, 2003, the text of which is included herein in Appendix B-5. As shown on Plate 2-3, in all, eight existing extraction wells were shut down, including EN-133 at the Jefferson Avenue site, EN-120, EN-160, and EN-194 at the Garfield Avenue cluster, EN-185, EN-195, and EN-222 at the Adams Avenue cluster, and EN-276 near Building 14 on the plant site (just north of North Street). To monitor this shutdown test, transducers equipped with dataloggers were installed in 27 wells, including the seven of the extraction wells (EN-276 was not accessible), three days prior to the beginning of the test (October 22, 2003) to collect antecedent data, and they continued to monitor water levels in these 27 wells throughout the ten-day period of shutdown that extended from October 25, 2003 to November 4, 2003. At that time, water level monitoring equipment was redeployed to support the aquifer tests, as described in the next subsection.

The volume of data collected by these instruments is so great that it is not possible to print it out with a legible font size on a sufficiently small number of 8½ x 11 sheets of paper to permit it to be published in hard copy in this report. Therefore, this data has been transferred to a compact disc (CD). All data for this shutdown test has been transferred to a folder labeled "Shutdown Test Data" on the CD attached hereto in Appendix B-5. In addition to this CD, time versus groundwater elevation plots have been produced for each of the 27 monitoring locations and are reproduced herein in Appendix B-5.

2.7.2 Aquifer Tests

As noted above, constant-rate aquifer tests were performed at three locations: EN-206T, EN-214T, and EN-284TD. EN-284TD was selected as a test well location due to its proximity to the principal area of flux across North Street and its position within an ice block depression. EN-214T was selected for testing due to its location in an area of greater saturated thickness as well as elevated VOC concentrations. EN-206T was selected for testing because it exhibits higher saturated thickness than any other well in the area along and south of Tracy Street within the Southern Area, although it does not appear to be located along the "spine" of the plume. Both of these factors are discussed further in Section 3. The locations of these three test wells are shown on Plate 2-3, along with the 23 locations at which transducers with data-loggers were deployed to monitor drawdown effects in response to these aquifer tests. This redeployment of transducers was completed on November 4 and 5, 2003, in advance of the of the first aquifer test, to acquire antecedent data. The following three subsections present brief descriptions of each of these pumping tests. The aquifer test plan and a complete chronology for each of the pumping tests, as well as the shutdown test, are presented in Appendix B-5, along with printouts of time versus groundwater elevation data for each of the continuous water level monitoring locations. As in the case of the shutdown data, the data is so voluminous that a printout is impractical. Therefore, the pumping test data for each of these aquifer tests is presented in three folders on the CD in Appendix B-5: EN-284TD Aquifer Test Data, EN-214T Aquifer Test Data, and EN-206 Aquifer Test Data. In addition to this data and the associated printouts, graphical analyses of the pumping test data and a table of aquifer characteristics derived from these tests is also published in Appendix B-5. The following subsections give brief descriptions of each aquifer test.

2.7.2.1 EN-284TD Aquifer Test

Figure 2-1 is a time versus groundwater elevation plot for the water levels recorded in EN-284 (the closest observation well to test well EN-284TD). In addition to showing the response in this observation well to the testing activities at this location, this graph also shows important time lines associated with the progress of this test. As shown on this figure, the datalogger was installed in this well late on November 4, 2003 and collected approximately three days of antecedent water level data prior to the beginning of the test. On November 2, 2003 at 16:00 hours, the constant rate test at EN-284TD was begun at a pumping rate of 80 gallons per minute. This constant rate test continued for a period of 116 hours until 12 noon on November 12, 2003. At that time, the test was shut down due to the detection of breakthrough on one of the primary carbon treatment units being used to treat this water prior to discharge (treatment by the polishing unit prevented any detection of VOCs in the final effluent, however, the treatment protocol required 100% redundancy in the carbon capacity). It was subsequently determined that the apparent breakthrough on this primary carbon unit was actually due to breakthrough on a small in-line carbon canister used to provide a carbon sample for analysis to determine the management requirements for the spent carbon following the test. However, since the test had been interrupted, the well was allowed to recover for nearly two and one-half days and the test was restarted on November 14, 2003 at 22:30 hours. The test was resumed at that time at a pumping rate of 80 gallons per minute, and operated for an additional five days until November 19, 2003 at 16:30 hours. At this point in time, the test was shut down to permit time for additional carbon vessels to be acquired and wetted so the duration of the test could be extended through the Thanksgiving holiday and into mid-December. When the test was restarted on November 25, 2003 at 00:35 hours, the pumping rate was increased to 90 gallons per minute, which was sustained until 18:30 hours on December 5, 2003. At that time, the yield began to drop as the remaining column of water above the pump intake was approaching the NPSHR of the pump (approximately 14 ft) The rate dropped to a low of approximately 29 gpm on December 8 and was eventually stabilized at a rate of approximately 55 gpm on December 10. At the conclusion of the test on December 16, the pumping rate was approximately 50 gpm with 18 feet of water above the pump and a vacuum in the well casing of 27.5" of mercury (corresponding to 31 feet). This means the available drawdown for this test was increased by 13 feet due to the use of the vacuum assist system.

Finally, the last measured groundwater elevation in observation well EN-284 (Figure 2-1) was 808.69 feet (amsl). The top of screen elevation in test well T-284TD is 807.16 feet (amsl), a difference of 1.53 feet. Given the distance from the test well to the observation well, it is likely that the water level in the aquifer outside the test well was very close to reaching the top of the screen, at which point the vacuum assist would no longer have been effective. It, therefore, appears that the test was run to the point that no further drawdown could have been created in the aquifer as a result of further pumping at this test well.

Since this test well is located in an ice block depression, there might be a concern that the absence of the lacustrine silt would result in an opportunity for contamination in the Upper Aquifer to enter the Lower Aquifer. A corollary concern would relate to the relative proportions of the extraction rate that were derived from the Upper and Lower Aquifers. As discussed further in Section 3, the well logs for this well and the surrounding monitoring wells were examined by Allan Randall of the USGS in Troy, N.Y. along with the continuous soil samples collected during the drilling at boring EN-284. From this and other information, it is his opinion that there are no ice contact deposits (Lower Aquifer) at this location. Rather, there is a thick sequence of Outwash filling an ice block depression. It follows, therefore, that the groundwater extracted from this well was withdrawn from the Upper Aquifer associated with the saturated Outwash deposits. There is therefore no basis for concerns relating to the potential for contamination entering the Lower Aquifer and no need to determine the relative contributions from the Upper and Lower Aquifers.

2.7.2.2 EN-214T Aquifer Test

Following short-term and step-drawdown tests, the aquifer test was begun at location EN-214T on November 13, 2003 at 17:52 hours at a pumping rate of 40 gallons per minute. This rate was selected based on the results of the step drawdown test, which indicated that the well could sustain this rate for the full duration of the test and provide assurance that potential negative boundary conditions associated with thinning of the aquifer to the northeast and southwest would not result in the need to adjust the constant rate downward. In the end, the test continued at that rate uninterrupted for 33 days, until the test was terminated on December 16, 2003 with no boundary conditions encountered. In fact, the results of the test show that the well is capable of sustaining an extraction rate far higher than the 40 gpm test rate. Water level recovery data were then recorded from December 16 to December 22, 2003. Figure 2-2 presents a time versus groundwater elevation plot for the nearest observation well

(EN-214C). All data collected from the pumping well and observation wells are included on the CD in Appendix B-5, along with time versus groundwater elevation plots for the pumping well and observation wells.

2.7.2.3 EN-206T Aquifer Test

The performance of the aquifer test at EN-206T required acquisition of access rights to private property for the purpose of installing a temporary treatment system for the extracted groundwater. Therefore, the start-up of this pumping test was delayed to the beginning of Thanksgiving week while IBM obtained the necessary access agreement from the property owners. Based on the results of the step drawdown test at this site, the long-term test was started up on November 24, 2003 at a rate of 12 gallons per minute and was shut down two days later on November 26, 2003, the day before Thanksgiving. Pumping was discontinued over the Thanksgiving holiday weekend for security reasons. The test was restarted on December 1, 2003, following some adjustments to the vacuum-assist system, at a pumping rate of 20 gallons per minute and continued for eight days, at which point it was shut down on December 9, 2003 in accordance with the private access agreement for the treatment system. Recovery data in this well and associated observation wells were then collected from the end of the test to December 22, 2003. Figure 2-3 presents the time versus groundwater elevation plot for the nearest observation well (EN-206). All water level data for this test is included on the CD attached hereto in Appendix B-5.

2.7.3 Pulse Tests

In addition to the shutdown and aquifer tests, information on the characteristics of the upper aquifer was developed from the performance of pulse tests. Pulse tests have been performed at 20 wells in the upper aquifer and at three wells in the lower aquifer. The purpose of these tests is to measure the local hydraulic conductivity in the vicinity of each of the wells in which the tests were performed. The raw data and analytical plots for each of these pulse tests are attached hereto in Appendix B-5, and the resulting hydraulic conductivity values are printed in a table in Appendix B-5.

2.8 Groundwater Elevation Measurements

In accordance with the SGA Work Plan, comprehensive groundwater elevations were measured throughout the assessment area on several occasions (refer to table at the beginning of Appendix B-6). The first of these was in March 2003 as part of the routine first quarter groundwater sampling event. The second was in August 2003 as part of the third quarter sampling event. During this second comprehensive groundwater elevation round, all but one of the original proposed SGA monitoring wells had been drilled, constructed and was available for groundwater elevation measurements. A third, less comprehensive round of water level measurements was performed in late September 2003, which focused on the Eastern Area and adjoining portions of the assessment area. The fourth round of such measurements was performed on November 2 and November 3 to determine groundwater elevations ten days after the shutdown of eight extraction wells, as discussed in Section 2.6.2.1. The last groundwater elevation measurement event was performed just prior to shutdown of the aquifer test wells between December 14 and December 16, 2003.

In addition to these comprehensive groundwater elevation measurement events, groundwater elevations were measured in each of the new monitoring wells constructed as part of the SGA during each of three groundwater sampling events at each of these wells. Data from the five major groundwater elevation measurement events are published in groundwater elevation tables in Appendix B-6.

2.9 Chemical Sampling and Analysis

Chemical sampling and analysis, primarily of groundwater, but also of soil, was performed during the SGA. The following two subsections discuss these sampling and analysis activities.

2.9.1 Groundwater

Groundwater sampling was performed during the SGA, beginning with a comprehensive groundwater sampling round conducted in March 2003. This sampling round coincided with the routine quarterly groundwater monitoring program at the site required by the Part 373 permit, but was expanded to include inactive wells that are no longer a part of the site's approved Groundwater Monitoring Plan (GMP). In all, a total of 143 wells were sampled during this sampling event, including 87 wells in the GMP and 56 non-GMP wells.

As the drilling and construction of SGA monitoring wells began in June 2003, the wells were developed, purged and sampled, with that sampling being repeated until a minimum of three samples had been collected and analyzed from each new monitoring well. The individual well sampling events were, in each case, separated by a minimum of two weeks to avoid serial correlation in the monitoring data. With a total of 55 new monitoring wells installed, groundwater sampling associated with these wells totaled at least 165 groundwater samples collected and analyzed.

A second comprehensive groundwater sampling event occurred in August 2003, again in conjunction with routine groundwater monitoring at the site. This second comprehensive round was more inclusive and expanded from the first round in March due to the construction of SGA monitoring wells in the intervening time period. Therefore, during the August 2003 sampling event, a total of 214 groundwater samples were collected and analyzed, including 20 duplicate samples that were analyzed by a secondary laboratory.

Finally, many groundwater samples were collected during the aquifer tests. These included: raw water from each of the extraction wells prior to treatment daily during each of the active pumping tests, sampling of 17 monitoring wells at the mid-point of the five-day initial constant rate test at EN-284TD, and sampling of 18 monitoring wells at the conclusion of the aquifer tests in the middle of December. The results of these groundwater analyses are presented in Appendix C in tables that are organized by well and analyte.

All of the groundwater samples collected and analyzed as part of the SGA have been through the third party data validation procedure. A quality assurance report documenting the results of data validation was prepared and submitted to NYSDEC on February 20, 2004.

In addition to the samples that were collected to analyze for VOCs, groundwater samples were collected from 13 monitoring wells in the assessment area and two water supply wells and two monitoring wells at the SSWF for the purpose of analyzing them to determine the inorganic chemistry of groundwater in the associated aquifer. Analyses that were performed include inorganic parameters typically related to the natural geochemistry of the aquifer, and transformation indicators that would aid in characterizing

the potential for chemical transformations of VOCs to occur. The results of these analyses are also presented in Appendix C.

Finally, samples were collected from each of the aquifer test wells at the conclusion of the tests. These samples were analyzed for VOCs and RCRA metals, as well as inorganic parameters and Langelier Saturation Index (LSI). The purpose of these end-of-test samples was, in part, to develop data that would be useful in determining the treatment and discharge requirements for groundwater that might be extracted from one or more of these wells. These results are also presented in Appendix C.

2.9.2 Soil Sampling and Analysis

Soil samples were also collected for very specific analyses associated with understanding the fate and transport of VOCs in groundwater and potential limitations to the application of in-situ chemical oxidation as a remedial technology. In this regard, samples from seven wells were analyzed for total organic carbon to determine the fraction organic carbon of the aquifer materials themselves. This was done in order to understand the significance of adsorption and desorption as a retardation factor in the transport and remediation of groundwater contamination. These results are presented in Appendix C-8. Samples were also collected from four borings for analysis of the natural oxidant consumption rate, which is used to determine the rate at which the natural formation materials will consume an oxidant that may be injected to oxidize VOCs. From each of these four borings, samples of both the sand and gravel outwash and the underlying silt were collected and analyzed for this purpose. These results are presented in Appendix C-9. The TOC analyses were performed by Analytical Laboratories of Middletown, Pennsylvania, and the oxidant consumption analyses were performed by Carus Chemical Company of Peru, Illinois. The method used to perform this analysis is described in Carus report in Appendix C-9.

3 DATA ANALYSIS AND INTERPRETATION

This section presents the analysis and interpretation of data collected as described in Section 2. As such, this section presents descriptions of the geology and hydrogeology of the assessment area, the groundwater chemistry, the configuration of current corrective action, and concludes with a statement of the corrective action objectives for this project.

3.1 Geology

This subsection presents both the regional and site-specific geology of the assessment area. As such, this discussion will focus on the unconsolidated sediments contained within the valley of the Susquehanna River, as it is these glacial and deglacial sediments which form the upper and lower aquifers at this site and define the geometry of their relationship to each other and to other sediments, which separate or bound them. The bedrock beneath this site is comprised of the Devonian Age Catskill Formation, which is comprised primarily of gray siltstones and shales and, in some places, sandstone. While the focus of this discussion is not on the bedrock beneath the assessment area, the presence of fragments of this local bedrock unit are important in discerning the stratigraphic separation between the Lower Aquifer within which rock fragments from these local bedrock units predominate) and the Upper Aquifer, within which fragments of bedrock types from beyond this local area predominate.

In the two subsections that follow, the first discusses the regional deglacial history of the area and puts in proper context the site-specific geology of the assessment area, which is the subject of the second subsection.

3.1.1 Regional Deglacial History

At the peak of the last glaciation about 20,000 years ago, all of Broome County was buried beneath a thick sheet of ice, which extended south as far as Berwick, Pennsylvania, a few miles beyond Wilkes-Barre (Crowl and Sevon, 1980). At this time, "streams" of rapidly flowing ice followed and generally scoured out the major, broad valleys in Broome County (as was the case in most of the glaciated Northeast; see Randall, 2001, p. 4-7). Several feet of till were commonly deposited on the valley floors,

probably as the ice margin was retreating from its maximum extent. Relatively thick till accumulations are found in valley reaches oriented east-west rather than parallel to the south-southwesterly direction of ice-surface slope. The retreating ice margin passed through Broome County at least 16,500 years ago (Cadwell, 1972). As the ice margin retreated into New York, a large lake formed in the Susquehanna valley near Great Bend, Pennsylvania, spilling across a saddle on the topographic divide near New Milford, Pennsylvania. This lake was extinguished by a brief readvance into Pennsylvania (Braun, 2003). No evidence of readvance has thus far been recognized in Endicott, however. Between Binghamton and Waverly/Sayre, several tributary valleys ranging in length from 5 to 12 miles drain northward to the Susquehanna River. None of these valleys is known to contain surficial stratified drift deposited during deglaciation. Apparently the meltwater generated within these valleys and from the region to the north drained to and down the Susquehanna valley, probably through crevasses and tunnels in the ice (Randall, 2001, p. 46-7). Buried ridges of unconsolidated, variably silty gravel and sand have been described along the lower Chenango River valley in Binghamton (Reynolds and Williams, 1988) and along the Susquehanna River valley in Johnson City (Coon and others, 1997) and Endicott (Randall, 2001, p. 60-61). It seems likely that the sediment in these ridges was deposited in or at the mouths of subglacial tunnels, and that a network of subglacial tunnels along the major valleys may have been principal conduits for meltwater and sediment, at least in the outer several miles of the retreating ice sheet (Randall, 2001, p. 27-51).

3.1.2 Site-Specific Geology

The following discussion of the site-specific geology is focused primarily on a discussion of three cross sections, and then a top of silt contour map which, as will be shown in Section 3.2, substantially affects the geometry of the Upper Aquifer and the potential for hydraulic communication between the Upper Aquifer and the Lower Aquifer.

3.1.2.1 Depositional Environment Near Endicott

The unconsolidated sediments in the Susquehanna River valley in the towns of Union and Vestal were deposited in an environment characterized by progressively melting ice, declining lake levels and stream profiles, increasing content of rock fragments derived from remote locations, and, in the later stages, presence of organic matter. The earliest stratified sediments were deposited when ice still occupied most of the valley, in water-filled tunnels, crevasses, or moulins within or beneath ice, and in

ponds that formed where thin ice along the sides of the valley stagnated and melted while the ice tongue in midvalley continued in motion. Meltwater velocities were high, so sediments were predominantly coarse-grained; mass movements (landslides) resulted in interbedded layers of resedimented diamicton (flowtill). Eventually, the entire ice tongue remaining west of the Chenango River valley stagnated, after which most coarse sediment was trapped near Binghamton while continued melting in Endicott resulted in a large lake in which fine-grained sediment could settle. Eventually, coarse sediment prograded westward across the lake as multiple deltas of sandy, pebbly outwash. The lake in Endicott, like the earlier valley-marginal ponds, spilled across the surface of stratified drift that had previously been deposited for many miles downvalley, to the west. Whenever sediment built up to the lake surface, meltwater streams built a westward-sloping depositional surface, termed an outwash plain or valley train. Over time, erosion of the stratified drift farther downvalley lowered the level of ponding near Endicott, so later depositional surfaces are lower than earlier ones. Many portions of these depositional surfaces were subsequently downwarped (collapsed) when subjacent buried ice melted. Scattered ice block remained, gradually shrinking in size, through part or all of the period of lacustrine and outwash deposition. Where ice blocks projected above lake level until after outwash prograded past the site, no fine-grained lake-bottom sediment was deposited, so outwash now rests directly on till or bedrock. Where these ice blocks did not melt completely until after outwash deposition ceased locally, the adjacent or overlying outwash collapsed to form an "ice-block depression" visible in the modern topography, which commonly contains a pond, swamp, or unusually broad floodplain.

The earliest stratified deposits are termed "drab" because gravel and all but the smallest sand grains consist very largely of fragments of siltstone and shale similar to the local bedrock, gray or olive-gray in color. Later deposits generally contain progressively larger percentages of limestone, chert, quartzite, red shales, metamorphic rocks, and other exotic lithologies, derived from regions far to the north and transported south along the Chenango River valley (Denny and Lyford, 1963; Randall, 1978). The youngest outwash is termed "bright" because 30 to 50 percent of the stones are exotic lithologies of varied appearance, and the sand is highly calcareous with a mixture of gray shale grains and light-colored grains of quartz and other minerals.

3.1.2.2 Geologic Cross Sections

This subsection presents a discussion of the site specific geology of the assessment area through descriptions of three cross sections located as shown on Figure 3-1, one running east-west along the north bank of the Susquehanna River and two running north-south in the center of the Village of Endicott. They are all shown on Plate 3-1.

The stratigraphy shown in these three cross sections consists of five units. From youngest to oldest, they are:

1. Post-glacial alluvium ("Qal" on the cross sections), in only three localities: near the Susquehanna River, in an ice-block depression near the south valley wall, and in a shallow late-deglacial channel near the north valley wall.

The other three units seem to be continuous all across the valley.

2. Outwash ("O"): Typically 25-30 feet thick but thicker where downwarped or collapsed in a few ice-block depressions. To the extent that it is saturated (i.e., below the water table) this outwash unit constitutes the Upper Aquifer

3. Lacustrine deposits ("L"): Fine-grained lake-bottom deposits, typically varved silt with pink clay seams, but locally grading to silty very fine sand. The top of this unit generally defines the bottom of the Upper Aquifer. Where it is absent, the Upper Aquifer rests on till or on coarse-textured ice contact deposits that comprise the Lower Aquifer where they are not silt-bound.

4. Ice contact deposits ("I"): Stratified drift deposited by subglacial meltwater in tunnels or crevasses. This stratified drift, when present and of proper texture and sorting, makes up the Lower Aquifer.

5. Till ("T"): Dense, poorly sorted mixtures of clay, silt, sand and angular rock fragments deposited directly by glacial action.

In the descriptions of cross sections that follow, references are made to a "basal unit." A "basal unit" is the lowermost unit in a sequence of sedimentary units, in this case the one in contact with the underlying bedrock. There are places where the Ice Contact Deposits rest on bedrock and are the "basal unit", and there are places where the Till rests on bedrock and is therefore the "basal unit".

3.1.2.2.1 Cross Section A-A': McKinley Avenue – Route 26 Sections

This is an exceptionally well-documented north-south section across the entire Susquehanna River valley.

BASAL UNIT. The lithologic character of the basal unit is not clearly defined. From Main Street in Endicott south to Old Vestal Road, the upper surface of this unit is delineated by highway borings that penetrate only a few feet into what is generally described as sand, or sand and gravel; a test well near the former Endicott stable well is believed to have tapped water-yielding gravel at a depth of 179 feet. Several highway borings south of Old Vestal Road penetrated 15 to 25 feet into material generally described as silt, stone, and clay, which is interpreted as likely to be till. North of Main Street, at least 10 test holes or wells penetrate this unit. EN-D31 logs a rapid transition over less than a two-foot depth interval from till with very poor sorting and high compaction (based on geologist's observations and blow counts) to varved silt with pink clay laminations typical of the lacustrine unit. There is no unit at this location that can be interpreted as being equivalent to the ice contact deposits that make up the Lower Aquifer. EN-D11 logged the upper part of the basal unit as till. EN-D12 and EN-D13/14 logged the upper 3 to 10 feet of the basal unit as gravel and sand, overlying till. EN-D2 logged gravel with some silt and gravel with clay that exhibited high blow counts indicating densely packed sediments typical of till. However, a pulse test on this well yielded a hydraulic conductivity of 48 ft/day, suggesting this well may be at the northern edge of the ice contact deposits that form the Lower Aquifer along the axis of the valley. EN-D7 logged only very poorly sorted silty gravelly sand, hard with angular siltstone fragments, a description that strongly suggests till. EN-D14 was pumped at 7 gpm for 25 minutes with a drawdown roughly stabilized at 28 feet, not very productive but more than obtainable from till. Well 16-42 reportedly obtained 100 gpm just above rock. Other test wells nearby in Endicott unquestionably penetrated till above rock, whereas wells up and down valley from this section demonstrate that near the valley axis the basal unit is a thick and highly productive aquifer. These materials are interpreted as having been deposited largely beneath the ice sheet, in part as till and in part by high-velocity meltwater in tunnels or subglacial sheetlike cavities. On the north side of the valley, as shown in this section, the more transmissive ice contact deposits ("I") that comprise the Lower Aquifer in the valley axis are, therefore, not continuous from north to south and are separated from similar deposits to the north beneath the site by till. In some places up and down the valley, the basal unit is

thicker, and sandy in part, suggesting deposition by tunnel-mouth subaquatic fans, but that phase is not evident in this section.

LACUSTRINE UNIT. With the exception of discreet areas in which the presence of ice blocks prevented the deposition of Lacustrine Silt, the lacustrine unit is almost certainly continuous all across the valley. Except for two highway borings south of Old Vestal Road, every test-hole log explicitly describes silt with thin pink clay seams that are presumably the winter layers of annual varves. Clearly, a large open proglacial lake was present here for a time. However, this unit is absent, as discussed below, at locations where ice blocks may have been present during the existence of the lacustrine depositional environment.

OUTWASH. The surficial outwash is presumably deltaic, filling the shoaling proglacial lake, but the broad 850-ft terrace is not a single prograding delta in which the underlying lacustrine silt would be expected to grade up into medium to fine sand (foresets) capped by pebble gravel (topsets and fluvial braided channels). Some well logs report gravels overlying fine to medium sands, others report gravels underlying sands.

3.1.2.2.2 Cross Section B-B': Washington Avenue / Hill Avenue Section

BASAL UNIT. The well data along this section indicate a deep or basal aquifer composed of ice-contact deposits in midvalley, beneath lacustrine silt. In this section, all well logs north of Monroe Street report only till beneath the silt. Most of these wells penetrated only a few feet into the material reported as till, but test boring 18B63 penetrated 27 feet, as shown in the section. Boring 18B62 penetrated 26 feet of mostly till, interbedded with 5 feet of gravelly silty coarse to medium sand. Four other borings near this section penetrated 7 to 16 feet of apparent till. Therefore, the basal unit in this section north of Monroe Street is tentatively interpreted as till, with the understanding that the till is probably interbedded with lenses of silty sand and gravel.

LACUSTRINE UNIT: This silt unit extends from beneath the site at the north end of this cross section to the river with only one interruption. This interruption is an ice-block depression discussed below.

ICE-BLOCK DEPRESSION NEAR EN-284: One striking feature of this section is the presence at EN-284 of unusually thick, deep outwash and the absence at this location of the lacustrine silt that normally underlies the outwash. A remnant ice block must have projected above the surface of the proglacial lake here until after the outwash reached this site. As a result, there is fifty-seven feet of outwash deposited at this location, resting directly on till.

OUTWASH. In general, outwash throughout Endicott consists predominantly of gravel and fine to coarse sand. In the northern part of this section, the outwash is so described in most well logs. In a few wells, fine or medium-fine sand separates the gravel and the underlying silt, which suggests a classic deltaic depositional sequence. Near the middle of this section, however, from Broad Street to about 500 feet north of Monroe Street, the uppermost 15 to 30 feet of outwash are consistently medium to fine sand, overlying gravel and coarse sand that occur near the base of the outwash. The same sand-over-gravel sequence was penetrated by 20 or so wells in a broad swath extending westward from the intersection of East Main and Arthur Ave at least to Jefferson Ave. This sequence might reflect a recessional depositional history in which retreat of the ice margin resulted in most gravel being trapped farther upvalley with only sand reaching Endicott late in the deposition of the outwash plain.

3.1.2.2.3 Cross Section C-C': North Bank of Susquehanna River

This cross section extends from the SSWF to the HWF along the north bank of the Susquehanna River. Between these two well fields is a well location that is labeled "Stable" on the cross section. It is actually the location of two wells, one drilled, as shown on the section, to the base of the ice contact deposits. This was reportedly completed as a monitoring well and is still in existence. The other was a water supply well completed at the base of the outwash unit.

1. SOUTH STREET WELL FIELD: The stratigraphic interpretation in the vicinity of the Endicott Water Dept facilities at South Street is uncertain. Clearly, the production wells are finished in coarse-grained ice-contact deposits not far above bedrock. However, there are only two reliable geologic logs in this locality. One is a test well by Catoh drilled in 1987, for which a description of split-spoon samples at 10-ft intervals was obtained. The other is a Kelly well (#27) drilled in 1944, for which a print prepared by the driller was examined. Allan Randall is confident that production wells 1-5 were drilled by a local well driller James Cline (not by Rinbrand as recorded by John Ferris in a 1946 USGS report), which discredits a log for well #4 obtained by Ferris. The fine sand reported from about 25 ft to nearly 40 ft in the Catoh test well is tentatively interpreted as distal deltaic outwash and correlated with the lacustrine silt unit, for

two reasons:The materials from 45 to 68 feet were logged by Catoh as "cobbles, gravel, and sand" and apparently were too coarse to sample successfully. This description seems more appropriate for ice-contact deposits than for outwash.

2. The Catoh log reports clayey silt and clayey fine sand from 95+ to 107+ ft depth; an alternative interpretation would be to correlate these sediments with the widespread lacustrine silt unit beneath the outwash. However, no comparable unit is reported in the log of well 27, only 150 ft distant.

3.1.2.3 Lacustrine Silt Aquitard

As noted previously, the top of the lacustrine silt unit, for the most part, represents the bottom of the Upper Aquifer. The configuration of this surface, therefore, plays a very important role in determining the geometry of the Upper Aquifer. Furthermore, where it is absent, such as in the ice block depression near EN-284 discussed above, the thickness of the Upper Aquifer may increase substantially and it may rest either on Lower Aquifer materials or on till. Additionally, where this unit is coarser-textured (i.e., fewer clay varves or composed of sandy silt to silty fine sand) there is greater (although still low) potential for vertical leakage through this unit from the Upper Aquifer to the Lower Aquifer. The following two subsections deal with these significant characteristics of this silt unit.

3.1.2.3.1 Top of Silt Unit

The topographic contours for the top of silt, as shown on Plate 3-2, reveal four important features. The first of these is an east-northeast to west-southwest trending valley north of the railroad between McKinley Avenue and Franklin Street, where this buried valley's orientation turns to the southwest. Within this feature, there are three depressions with closed contours, each of them at elevations that extend below 815 feet amsl. (Question marks on some of the contours that define these depressions on Plate 3-2 reflect another possible interpretation of these data whereby these depressions may run together as one long valley in the top of the silt layer.) Adjacent to this feature to the south is an area of higher elevations for the top of silt that runs parallel to the railroad, generally from McKinley Avenue to the shopping plaza located west of Oak Hill Avenue and north of North Street. A further eastern extension of this feature runs south of North Street from Grant Avenue to Adams Avenue. This feature is generally defined by the 825-ft. top of silt contour. The third feature is a distinct valley in these contours that extends from the intersection of Cleveland Avenue and North Street in an east-

southeasterly direction terminating near the intersection of Adams Avenue and Tracy Street. In the deepest part of this valley, extending from the intersection of Grant Avenue and Monroe Street to the intersection of Roosevelt Avenue and East Main Street, the elevation of the top of silt drops below 800 ft. amsl. Throughout most of the remainder of this valley, the top of silt elevation is below 805 ft. amsl. The fourth feature apparent on Plate 3-2 is an area of higher top of silt elevation that extends from near the intersection of Broad Street and Cleveland Avenue to the Route 26 interchange at East Main Street. This area of higher top of silt elevation is generally characterized by the 820-ft. amsl elevation contour. To the south of this last feature, the top of silt elevation slopes downward to the south in the direction of the Susquehanna River.

3.1.2.3.2 Occurrence and Composition of Silt Unit

Plate 3-2 also shows, by cross-hatching and labeling, areas within which this silt has been determined to be absent or its composition is not the typical interlaminated silt and pink clay. The following text describes the conditions that exist in each of the alphabetically labeled areas on Plate 3-2:

A. Complete and typical section: Lacustrine unit is predominantly silt, consistently interbedded with thin layers of pink clay; generally several tens of feet thick but tends to thin northward; clay may become less abundant with depth. This is the predominant condition present within the assessment area, as shown on Plate 3-2.

B. Entire lacustrine unit is described predominantly as fine sand to silt, with little or no clay; overlain by outwash. In two localities, one near the north end of Delaware Avenue and the other immediately north of Clark Street near Oak Hill Ave, logs of several boreholes describe the lacustrine unit as fine sand to silt with no mention of interbedded clay. Both localities are adjacent to or part of ice-block depressions. Vertical hydraulic conductivity may be somewhat greater here than in the more typical silt/clay lithology. In a third locality, near the railroad corridor between North Street and Franklin Street, a few test holes penetrated outwash, then sands with a few thin pink clay layers to depths of 40-50 ft, overlying coarser sediment not easily classified; this locality may constitute another area of enhanced vertical hydraulic conductivity. Just to the south, near North St, similar sand or silty sand overlies typical silt with pink clay layers at depths of 45 to 70 ft. In all three localities, the fine sand to silt may have been deposited as deltaic outwash closely approached, after part of the ice block that that previously prevented deposition of varved silt and clay had melted.

C. Lacustrine unit generally absent in deepest part of an ice-block depression; outwash is downwarped and generally overlain by postglacial peat and/or organic-rich silt and fine sand. Such areas of absence of the lacustrine silt unit include:

1. The area around monitoring well EN-284, where the previously discussed ice block depression occurs. The full extent of this ice block

depression has not yet been defined; however, existing information shows that at this location the absence of silt results in a 57-ft. thickness of outwash material, the bottom of which rests on glacial till (labeled "EN-284 Ice Block Depression" on Plate 3-2). Due to the absence of ice contact deposits above the till in this area, the absence of the lacustrine silt does not create the potential for vertical hydraulic communication from the Upper Aquifer to the Lower Aquifer.

2. An area in the vicinity of the Huron Well Field. This appears to be a larger feature than that observed around EN-284, and monitoring well data indicate that the absence of silt results in outwash material associated with the Upper Aquifer being in direct contact with ice contact deposits associated within the Lower Aquifer.

3. An area centered on Lewis Street and its intersection with Delaware Avenue.

D. Lacustrine unit is generally absent, probably eroded during incision of late-deglacial channel. In this area, about 10 feet of postglacial alluvial silt with organic matter overlies 2 to 8 feet of late-deglacial alluvial gravel on former channel floor, which in turn overlies basal drift (predominantly till). In this extensive area between North St and Wayne St or Watson Blvd, east of the projected alignment of Adams Ave, none of several sparsely distributed boreholes record the lacustrine unit; probably it was eroded by incision of a shallow meltwater channel into the outwash terrace late in deglaciation. The typical surficial outwash is also missing, but beneath surficial postglacial silty alluvium is generally a few feet of gravel and sand that may represent a lag outwash or channel alluvium deposited by the meltwater that incised the channel. Due to the apparent absence of ice contact deposits above the till in this area, the absence of the lacustrine silt does not create the potential for vertical hydraulic communication from the Upper Aquifer to the Lower Aquifer because the latter aquifer is not present.

Note: the area between the Railroad and the southern limit of map unit F (including all of map unit D) is low-lying and was generally mantled by a few feet of surficial alluvial silt under natural conditions. Much of the land surface is now underlain by fill, consisting reworked and imported natural materials mixed with ashes, cinders, refuse, and construction debris. In most places the land surface has been raised several feet.

E. Ice-block depression; thick organic-rich postglacial sediments overlie fine sand to silt that is probably also postglacial but may be continuous with the lacustrine unit, and that overlies till. No outwash present. There is only one area characterized by this pattern. It is located in the northeast corner of the Clark Street Campus in the vicinity of B257. Due to the apparent absence of ice contact deposits above the till in this area, the absence of the lacustrine silt does not create the potential for vertical hydraulic communication from the Upper Aquifer to the Lower Aquifer because the latter aquifer is not present.

F. Valley wall: earth materials at land surface (or immediately beneath any surficial fill) are generally glacial till, or colluvium derived from till. These conditions occur along the entire northern margin of the assessment area. Between McKinley Avenue and Hayes Avenue, however, fine-grained stratified sediment overlies the till in places; it may constitute alluvium of Brixius Creek and/or early-deglacial meltwater deposits. Outwash, the lacustrine unit and ice contact deposits are all absent. There is, therefore, no potential for hydraulic communication between the Upper Aquifer and the Lower Aquifer because both are absent in this area.

3.2 Hydrogeology

This subsection describes the hydrogeology of the assessment area, beginning with its regional setting within the Clinton Street-Ballpark Aquifer and continuing with a description of site-specific characteristics of the assessment area. This subsection then concludes with a discussion of flow rates and flushing frequency within the Upper Aquifer.

3.2.1 Clinton Street-Ballpark Aquifer

The SGA assessment area falls within the footprint of the Clinton Street-Ballpark Aquifer, which is a major valley fill aquifer system in the Binghamton/Johnson City/Endicott area. Figure 3-1 is a reproduction of Figure 2 from the latest USGS Water Resources Investigation Report for this area (Wolcott and Coon, 2001). This figure shows the general outline of the valley fill aquifer system and surrounding upland areas that contribute unchanneled recharge to this system. As shown on this figure, the aquifer system extends from east to west, with the SGA assessment area being located in the western portion of the aquifer system. The principal aquifer from which groundwater is withdrawn in this system is the Lower Aquifer, which is comprised of thick ice contact deposits occurring along the axis of the Susquehanna River valley. The following excerpts from Wolcott and Coon (2001), describe the general hydraulic characteristics of what they have termed upper and lower aquifers:

> "The valley-fill aquifer system can be considered to consist of an upper and a lower aquifer. Both consist of sand and gravel with interbedded stringers of silt and clay in some areas. The upper and lower aquifers are separated in most places by a silt and clay confining unit, but where this unit is absent the two aquifers are in direct hydraulic contact with each other. The horizontal hydraulic conductivity of the upper aquifer ranges from 10 ft/d to 225 ft/d and averages about 130 ft/d. The vertical water-transmitting capacity of the confining unit (represented as leakance between layers and defined as the vertical hydraulic conductivity divided by the thickness of the confirming unit) is about 0.6 (ft/d)/ft in areas where the upper and lower aquifers are in direct contact with each other, and about 2.0×10^{-5} (ft/d)/ft in areas where the confining layer clearly separates the upper from the lower aquifer."

Wolcott and Coon (2001) goes on to discuss groundwater flow patterns as follows:

> "Under average climatic conditions, ground water flows downgradient from recharge areas such as the valley floor, or as unchanneled runoff near the valley walls or as channeled runoff from tributary streams, moves though the aquifer discharging to production wells or to the Chenango or Susquehanna Rivers. Most of the recharge that enters the upper aquifer discharges to these two rivers in the valley; the rest moves unimpeded into the lower aquifer in areas where the confining unit is absent."

Figure 3-2 is an excerpted version of Figure 1 from Wolcott and Coon (2001). This figure shows a more detailed view of the valley fill aquifer system from Binghamton to Endicott. In addition to showing the areal extent of the valley fill aquifer system, this figure shows the location of numerous water supply wells within this aquifer system. Specific to this project, the location of the Village of Endicott's South Street Well Field wells ("Endicott, 5/28" on Figure 3-2) and the "IBM 5" well (Figure 3-2) (now owned by Huron) are the supply wells that are currently operated within the assessment area for municipal and private industrial water supply.

3.2.2 Site-Specific hydrogeology

This section presents a discussion of the site-specific hydrogeology of the assessment area. Since the focus of the SGA is on accelerating the cleanup of the VOC plume in the Upper Aquifer, this discussion is focused on the hydraulic characteristics, geometry, groundwater flow, water budget and recharge rates and flow velocities and flow rates in this Upper Aquifer.

3.2.2.1 Upper Aquifer Characteristics

As noted above, the USGS has estimated that the hydraulic conductivity of the Upper Aquifer ranges between ten feet per day and 225 feet per day. This is based on aquifer tests performed by the USGS and model calibrations for the latest USGS model of this aquifer system. For the purposes of this report, the assessment of these hydraulic characteristics is based on field testing that has been performed within the assessment area.

The initial assessment of the hydraulic conductivity (or permeability) of the Upper Aquifer was performed by D & M during the initial investigation at this site (Dames & Moore, 1980). Based on

short term extraction tests at ten well locations performed in 1979 and 1980, Dames & Moore calculated hydraulic conductivities for the Upper Aquifer ranging from a low of 2.5 feet per day to a high of 1,260 feet per day. Table 2 of the Dames & Moore report, which presents the results of these tests, is attached hereto in Appendix B-5. As shown in this table, the predominant permeability determinations ranged from 11 to 23 feet per day. The 1,260-foot per day hydraulic conductivity was determined at location EN-93, which is in an area of thicker and coarser Upper Aquifer sediments.

Table B-1 of Appendix B-5 presents a summary of aquifer characteristics calculated from either aquifer tests or pulse tests performed during the SGA. Based on this table, the hydraulic conductivity of the Upper Aquifer ranges from a low of two feet per day in silty sand and gravel just above the lacustrine silt in EN-214B to 865 feet per day at location EN-29A in sand and gravel. In general, the range of hydraulic conductivities identified during the SGA investigations and those determined by D&M in 1980 is very similar. They both indicate a range that extends over three orders of magnitude and they both indicate minimum and maximum values that are less than and greater than the values derived by the USGS through calibration of their model. The average hydraulic conductivity based on the Dames & Moore determinations in 1980 is 170 feet per day while the average hydraulic conductivity calculated from SGA results is 118 feet per day. As noted previously, the USGS estimated an average of 130 feet per day. Combining the Dames & Moore calculated values and the SGA calculated values, the overall average for measured hydraulic conductivities is also 130 feet per day. Therefore, both the model calibrated hydraulic conductivity and the average of the measured values converges on an average hydraulic conductivity of 130 feet per day. It is important to note, however, that there is significant variability in the hydraulic conductivity of the sediments as reflected in the calculated hydraulic conductivity values from field tests. This variation in hydraulic conductivity is directly related to the texture and sorting of the sediments. Given, however, that any portion of the aquifer is likely to contain sediments representing the full range of hydraulic conductivities, the use of 130 feet per day as a bulk hydraulic conductivity for the aquifer is not unreasonable.

3.2.2.2 Upper Aquifer Geometry

The geometry of the Upper Aquifer is defined by the difference between two surfaces: the surface that defines the top of the lacustrine silt, and the surface that defines the top of saturated zone in the outwash unit (i.e., the water table). The former has been determined based on the elevation contours for the top of silt as shown on Plate 3-2 and the latter has been defined on the basis of the most complete recent

groundwater elevation survey (August 2003) as shown on Plate 3-3. In order to derive a map showing the variation in saturated thickness of the Upper Aquifer, it was necessary to cross contour the top of silt contour map and the August 2003 groundwater elevation contour map. The resultant Upper Aquifer saturated thickness contour map is shown on Plate 3-4. This map generally parallels the contours for the top of silt as shown on Plate 3-2. In this regard there are four principal features that are shown on the saturated thickness contour map that resemble those on the top of silt contour map. Beginning in the north of the site, these include a buried valley in the top of silt in which the saturated thickness of the Upper Aquifer is over 15 feet near McKinley Avenue; over 10 feet south of Clark Street in the western portion of the plant site; and increases to over 25 feet in the southwestern portion of the plant site. This buried valley is bounded on the south by an area of low saturated thickness including an area in which the Upper Aquifer is dry between Oakhill Avenue and North Cleveland Place. Between this dry area and McKinley Avenue, the saturated thickness of the Upper Aquifer is generally less than five feet. This area of low saturated thickness then extends south of North Street in the vicinity of McKinley and is generally present between McKinley and Adams Avenues south of North Street. In fact in the area between McKinley Avenue and Adams Avenue there is a significant area of the aquifer in which the saturated thickness is less than two feet.

South of this area of low saturated thickness, the thickness of the aquifer increases substantially in the buried valley of the silt unit. In this buried valley, extending from the intersection of Adams Avenue and Tracy Street in the southeast to the intersection of North Street and Cleveland Avenue in the northwest, the saturated thickness of the Upper Aquifer is in places greater than 20 feet and consistently greater than 15 feet. South of this buried valley is another area of low saturated thickness generally bordering and south of Broad Street. This feature extends to the Route 26 interchange at East Main Street. In a portion of this area, there is no saturation in the Upper Aquifer (it is dry) and over an even larger area the saturated thickness is less than two feet. South of this area the saturated thickness increases in the direction of the Susquehanna River.

3.2.2.3 Upper Aquifer Groundwater Flow

This subsection examines groundwater flow within the Upper Aquifer under various pumping and non-pumping conditions. These include the initial groundwater flow conditions in 1980 prior to the initiation of groundwater extraction in offsite wells; similar conditions observed at the conclusion of the shut-down test performed as part of the SGA; the most complete recent flow conditions with all

extraction wells operating; and the configuration of groundwater flow at the conclusion of the aquifer tests performed under the SGA.

3.2.2.3.1 Non-Pumping Conditions

Plate 3-5 shows a reproduction of the groundwater elevation contour map prepared by Dames & Moore for data collected in the Upper Aquifer on September 27, 1980. While this map reflects groundwater extraction on the plant site in the vicinity of the railroad to recover separate-phase liquid, there were at this time in 1980 no offsite groundwater extraction activities occurring. From this map and the text of the associated report (Dames & Moore, 1980), it is apparent that there was a concern at that time that the plume of dissolved VOCs in groundwater south of North Street had the potential to flow in a southwesterly direction toward the Village of Endicott South Street Well Field. While the 1980 report took into account the low saturated thickness in the vicinity and south of Broad Street, it did not recognize that the groundwater elevation contours, if drawn to reflect the effects of transmissivity due to greater or lesser saturated thickness, would show a groundwater divide roughly parallel to Broad Street that would preclude groundwater flow to the southwest in the direction of the South Street Well Field. This interpretation of the groundwater elevation contours is shown on Plate 3-6. Also shown on this groundwater elevation contour map is the saturated thickness of the Upper Aquifer determined on the basis of the current knowledge and understanding of the top of silt surface (including borings EN-423 through EN-425 completed as part of the SGA) and the groundwater elevation contours from the 1980 data. What this plate shows is a groundwater divide extending parallel to and just north of Broad Street on the northern edge of the area of low saturated thickness in the Upper Aquifer. Based on this interpretation of the data, groundwater flow is shown to be from north to south in the area just south of North Street diverging near the intersection of Garfield Avenue and Monroe Street with some of the groundwater flow extending to the southeast and another component of groundwater flow extending to the west northwest in the direction of current extraction well EN-133.

Plate 3-7 shows non-pumping conditions at the end of the 10-day shutdown period extending from October 25 to November 4, 2003. The pattern of groundwater elevations and flow is strikingly similar to that observed in the reinterpretation of the 1980 groundwater flow directions as shown on Plate 3-6. In this regard, groundwater flow in the area south of North Street is from north to south and in the vicinity of Monroe Street this flow diverges to the southeast and west. Similarly, groundwater flow from the vicinity of the groundwater divide just north of Broad Street is to the north diverging in the

same manner to the southeast and west within the channel of relatively high saturated thickness in the Upper Aquifer.

From this analysis of non-pumping conditions in offsite areas, it is appropriate to conclude that both the 1980 groundwater elevation contours and the 2003 groundwater elevation contours show that groundwater flow to the southwest across Broad Street in the direction of the South Street Well Field was, and is, not possible, due to the presence of a groundwater flow divide near and parallel to Broad Street. This barrier to groundwater flow to the southwest is reinforced by the area of low or no saturated Upper Aquifer sediments around and south of Broad Street.

3.2.2.3.2 Pumping Conditions

As noted above, Plate 3-3 shows the groundwater elevation contours for the Upper Aquifer based on a comprehensive round of groundwater elevation measurements on August 10, 2003. It should be noted that all of the SGA wells had not yet been drilled, however, this water level survey represents the most comprehensive survey to date with all extraction wells pumping.

As shown on this map, with all extraction wells operating both on and off the plant site, there are three capture zones established on the basis of contouring of groundwater elevation data. These are: the Onsite Capture Zone, Off-Site Capture Zone A, and Off-Site Capture Zone B. Figure 3-3 has also been prepared to show the relative extraction rates at each of the pumping centers associated with these capture zones.

The Onsite Capture Zone is well-documented by groundwater elevation data on the plant site. As can be seen from Plate 3-3 and Figure 3-3, control of groundwater flow in the vicinity of the railroad and McKinley Avenue is primarily as a result of the volume of groundwater extracted at wells EN-107, EN-253, and EN-219. As will be discussed later in this report, the other extraction wells in the railroad area, while removing only relatively low volumes of groundwater, extract a substantial mass of VOCs. In the western portion of the onsite capture zone, well EN-154 controls groundwater flow in the southwestern area while EN-218 provides control of groundwater flow in the vicinity of Clark Street. However, it should be noted that the groundwater extracted at EN-218 would nonetheless be prevented from discharging offsite by the operation of downgradient well EN-154 if EN-218 were shut down.

In the Off-Site Capture Zone A, control of groundwater flow in the south-central portion of the plant site and in the adjoining area south of North Street is accomplished through the operation of extraction well EN-133 and extraction wells EN-120, EN-160, and EN-194 (Plate 3-3 and Figure 3-3). A portion of this capture zone includes groundwater flow from the divide near and parallel to Broad Street northward toward these extraction wells.

Off-Site Capture Zone B is associated with the Endicott Forging/Ideal Cleaners area. As shown on Plate 3-3, this capture zone encompasses all of the Ideal Cleaners property and a substantial portion of the Endicott Forging property. Based on the existing groundwater elevation data, capture of groundwater flow within this area is accomplished through the operation of extraction wells EN-185, EN-195, and EN-222.

The last area of interest on this map is the Southern Area, which lies beyond the capture zones associated with existing extraction wells. As shown on Plate 3-3, unless new data would show a gap in the southern-most limits of control associated with Off-Site Capture Zones A and B, groundwater flow in the Southern Area would be derived exclusively from direct recharge to the aquifer in this area. This would result from the isolation of this area from other sources of flow due to the existence of the upgradient capture zones and groundwater flow divides on both the east and west sides of this area.

Further consideration of groundwater chemistry for the evaluation of the effectiveness of the pumping systems in capturing groundwater containing VOCs in the Onsite Capture Zone, Off-Site Capture Zone A and Off-Site Capture Zone B is provided in Section 3.4 following the general discussion of groundwater chemistry.

Plate 3-8 shows the groundwater elevation contours at the end of the aquifer tests on December 14, 2003. The most striking feature on this groundwater elevation contour map is the area of influence associated with the operation of test well EN-284 TD. In this regard, not only did the operation of this test well for five weeks cause eight feet of drawdown in observation well EN-278 approximately 100 feet away, it also caused a reversal of the gradient between this test well and existing extraction well EN-133 (which had resumed operation one week before the end of this test). This flow reversal extends to Washington Avenue. While this pattern of groundwater elevation contours is also affected by the

operation of the Garfield Avenue cluster of wells (EN-120, EN-160, and EN-194), these wells had also only been restarted roughly three weeks prior to the end of this test. Nonetheless, it has been anticipated that the operation of EN-284TD as an additional extraction well would be in combination with the Garfield Avenue cluster. The encouraging feature of this map is that the hydraulic influence of EN-284TD extends over a substantial area in spite of the fact that it was still competing with EN-133, a well that is to be shut down under the future pumping strategy. In the Southern Area, the effects of test well EN-214T are less easily seen in this groundwater elevation contour map because the transmissivity at this location is so high. Therefore, the cone of depression associated with the operation of this well was broad and shallow. Nonetheless, it is possible to see the gradient reversal in this area was accomplished downgradient to observation well EN-204 and the influence of pumping extended northward to EN-161. One concern regarding the influence of EN-214T in this northerly direction is a desire not to weaken the effectiveness of the Adams Avenue well cluster in controlling groundwater flow associated with the Endicott Forging/Ideal Cleaners area. Although the differences may seem slight, it must be noted that the gradient between EN-170 in the middle of the Adams Avenue cluster and EN-161 roughly 150 feet downgradient from that cluster increased during the EN-214 T aquifer test by 50%. While the usefulness of EN-214T to control groundwater chemical flux into the Southern Area would be a benefit, there would be a significant downside if the operation of this well were to weaken or overcome the capture effectiveness of the Adams Avenue well cluster, which captures groundwater flow in the area referred to in this report as the Endicott Forging / Ideal Cleaners Area.

3.2.2.3.3 Eastern Area

For various reasons, the previously referenced water level contour maps do not show the full extent of groundwater elevation contours in the Eastern Area. The August 2003 data were collected as the synoptic round required by the SGA Work Plan after the originally planned monitoring wells had been installed. At that time, many of the wells installed in the Eastern Area as an expansion of the work plan had not yet been drilled. The November 2003 and December 2003 rounds were focused on the area of the shutdown and aquifer tests, which did not extend into the Eastern Area. Only the September 2003 water level measurement round focused on the Eastern Area after the wells had been installed in this area. Therefore, in order to publish a map of groundwater elevation contours in the Eastern Area, as requested by NYSDEC, Figure 3-4 has been prepared to present the interpretation of groundwater elevation data for the Upper Aquifer in the Eastern Area.

3.2.2.4 Water Budget and Recharge Rates

Recharge to surficial valley-fill stratified drift aquifers in the glaciated Northeast is derived from the four sources listed below, the first three of which constitute recharge under natural conditions.

1. Precipitation directly on the surficial aquifer. (This may include exfiltration from storm sewers that otherwise convey runoff to the Susquehanna River.)
2. Unchanneled upland runoff (storm runoff in surface rills and shallow subsurface flow, from till-mantled hillsides adjacent to the aquifer, plus a small steady ground-water flux through till and bedrock.)
3. Seepage losses from upland tributary streams where they cross a surficial aquifer in the valley.
4. Induced infiltration from the master stream in the valley. (Much of the water pumped by municipal and commercial wells in the Triple Cities is derived from induced infiltration, but this source is not discussed further in this report because it is not pertinent to the outwash terrace aquifer in Endicott, whose base is consistently above river level.)

Of these, only the first is significant within the assessment area. Morrissey and others (1988) and Kontis and others (in press) reviewed the historical evolution of conceptualization and estimation of natural recharge to stratified-drift aquifers. Under natural conditions, nearly all precipitation on surficial sand and gravel either evaporates or infiltrates to become recharge to the water table. Therefore, as a first approximation, annual runoff from a watershed may be equated to annual recharge to areas of stratified drift within that watershed. Ku and others (1975, fig 11) depicted mean annual runoff in the Susquehanna River basin of New York for 1931-60 by means of contours. Randall (1996) did the same for the entire glaciated Northeast for 1951-80.

Both maps used the areal distribution of both runoff and precipitation to control runoff contours, and both came up with similar estimates of long-term mean runoff near Endicott (about 18.5 inches and 19.5 inches, respectively). The presence of impervious surfaces (pavement, buildings) can be expected to increase storm runoff at the expense of recharge. However, in areas of urban residential development on surficial sand and gravel, most rooftop runoff is discharged onto the landsurface, where it infiltrates, and much runoff from paved streets infiltrates at the edge of the pavement or is diverted to open-bottom catch basins. In some areas north of North Street in Endicott, however, where much of the land surface is covered by large buildings and parking lots, infiltration may be much less than under natural conditions.

It also seems likely that on this sandy terrace, where the water table is commonly 20 feet or more below grade, evapotranspiration is less than the basin-wide average (as argued by Randall, 1986, p. 21), so 1951-80 recharge in unpaved areas would be greater than basin-wide average runoff.

The Triple Cities steady-state model was calibrated to data from April and May 1981, when water levels in wells and Susquehanna River stage were approximately steady. Precipitation during these two months was about 5.45 inches (as averaged from four local stations), equivalent to an annual rate of 32.6 inches, substantially less than the 1951-80 average annual precipitation of 38.5 inches (Randall, 1996). Recharge to surficial stratified drift throughout the modeled area was initially estimated as 1.55 inches per month (18.6 inches per year) by a water-budget method, but was reduced to 1.28 inches per month (15.4 inches per year) during model calibration. One may speculate that this result would have been as much as 6 inches higher (38.5 in. - 32.6 in. = 6 in.), or about 21 inches per year, if the steady-state period had represented long-term average 1951-80 conditions.

From the foregoing considerations, it is appropriate to estimate long-term average recharge from precipitation on the Endicott outwash terrace as about 18 inches per year in residential or undeveloped areas. In areas with many large buildings and paved parking lots, this rate may be substantially less. However, it is also appropriate to take into account losses from public water supply systems and leakage out of storm sewers.

3.2.2.5 Aquifer Storage

In designing an aquifer restoration plan, it is important to understand the volume of water that is in storage in any portion of the aquifer that is to be remediated. Therefore, calculations have been made of the water in storage for Off-Site Capture Zone A and the Southern Area (Plate 3-3). These calculations have been performed by manual integration of the individual contour segments on the saturated thickness contour map (Plate 3-4) (e.g., multiplying the map area between the five-foot saturated thickness contour and the ten-foot contour by a representative thickness for that map area). For Off-Site Capture Zone A, this process yields an aquifer storage of approximately 51.9 million gallons. For the Southern Area, this calculation yields an aquifer storage of approximately 40.8 million gallons. The basis for these calculations will be reviewed in greater detail in Section 3.3.3.4.

3.2.2.6 Flow Rates and Flushing Frequency

The flushing of one pore volume of water through the aquifer represents that absolute minimum required to remove dissolved contaminants from the aquifer, assuming there is no "tailing" of concentrations due to dispersion, desorption from the aquifer solids, or reverse diffusion from fine-grained beds. Researchers have considered various models to attempt to predict the effect of these "tailing" processes on the number of pore volumes of water required to remove groundwater contaminants from an aquifer. Various models and laboratory studies suggest that 1 to 2 pore volumes might be required to reduce concentrations or non-sorbing contaminants by 90% in relatively homogeneous sand [see Brusseau, M. L. 1996. Evaluation of Simple Methods for Estimating Contaminant Removal by Flushing, Ground Water, v. 34, no. 1, p. 19-22]. More pore volumes are required for greater percent reductions and for more heterogeneous aquifers. GSC's experience at other sites has shown that substantial reductions in chlorinated ethene and ethane concentrations of 90-99% in sandy aquifers can be achieved with flushing by 5 to 7 pore volumes.

In order to calculate the time that would be necessary to flush one pore volume through each of the areas of interest (Off-Site Capture Zone A and the Southern Area), it is appropriate to calculate the rate at which groundwater flows through each of these areas and to compare that rate to the aquifer storage calculated above. For Off-Site Capture Zone A, this task is made easier by the fact that two pumping centers control groundwater flow within this area, and, therefore, the rate at which groundwater is extracted from this capture zone over the long term is equivalent to the rate at which water is flushed through the aquifer; this rate is also equivalent to the rate of recharge to the aquifer in this area. Based on nominal extraction rates for the four extraction wells in this capture zone (EN-120, EN-133, EN-160, and EN-194), the long-term average combined pumping rate from these wells is 85 gallons per minute. This corresponds to 44.7 million gallons per year. When applied to the volume of water in storage calculated above, at this pumping rate, one pore volume of water is removed in 1.16 years. This flow rate also corresponds to an average annual recharge rate of 21".

Based on the discussion above regarding recharge rates, this rate appears to be high for an area that is characterized by a high percentage of coverage by buildings and paved areas. It would suggest that there may be other contributions to groundwater recharge than just precipitation. Although leakage from the public water supply system might be a source, this source is not considered likely due to the low number of detections of trihalomethanes (e.g., chloroform) in groundwater. However, leakage from

the storm sewer system may represent a more plausible explanation. Such leakage may come in two forms. The first would be leakage out of these sewers when they are surcharged with runoff from precipitation events. Effects of local runoff are apparent in the high dissolved chloride, calcium and sodium concentrations observed in test well EN-284TD (greater than 2000 mg/l Cl). This is clear evidence of recharge to groundwater from deicing salts placed on roads and parking lots in the area.

The second form of recharge from these sewers could be related to the discharge of treated groundwater from both the Jefferson Avenue and Garfield Avenue Treatment Plants. All of the 85 gpm average extraction rate from the Upper Aquifer is treated in these systems and discharged to the stormwater system. This means there is a constant flow in the storm sewers related to these discharges and therefore a constant source of leakage from them to the Upper Aquifer in the area of Off-Site Capture Zone A. However, available information on the direction of stormwater flow away from both of these treatment systems indicates that such flow is to the west and out of the limits of Off-Site Capture Zone A.

For the Southern Area, this calculation is somewhat more complicated. This area is not, as yet, subject to control by groundwater extraction wells, so there is no easy, direct way to calculate the rate at which water is being flushed through this portion of the aquifer. Therefore, a groundwater flow calculation was made along the 815-foot groundwater elevation contour on Plate 3-3 from the dry aquifer area near the Route 26 interchange to the point at which this contour intersects the Susquehanna River. This calculation was based on a hydraulic conductivity of 58 feet per day, which is the average of measured hydraulic conductivities in the Southern Area south of Tracy Street times a gradient of 0.02 in the immediate vicinity of the 815 foot contour and a cross sectional area of 6,100 square feet. On the basis of these parameters, the groundwater flow in the Southern Area is on the order of 52,900 gallons per day. This corresponds to 37 gallons per minute or 19.4 million gallons per year. Flow across the 815-foot groundwater elevation contour does not include approximately 20 acres of the Southern Area that are downgradient from this contour. Therefore, this flow rate must be compared to the average annual recharge over the 50-acre area upgradient from this contour. This calculation yields an average annual recharge rate in this area of 14.25 inches. This compares very favorably to the average annual recharge rate for residential areas as described above. Applying this average annual recharge rate to the entire 72 acres, would give a total of 27.9 million gallons per year of average annual recharge to this area.

3.3 Groundwater Chemistry

This section deals with the analysis and interpretation of groundwater chemistry data related to the constituents of concern at this site, including examination of the temporal and spatial distribution of historical data and the spatial distribution of current data. Consideration is also given to factors that would affect the fate and transport of these constituents in groundwater. The final two subsections address the effectiveness of the current corrective measures and the potential relationship of the occurrence of VOCs in the Upper Aquifer within the areas of interest and detections of VOCs in nearby water supply wells.

3.3.1 Chemicals of Concern

The chemicals of concern at this site include chlorinated ethenes, chlorinated ethanes, and other compounds. In terms of the mitigation of soil vapor as part of the GVP, the principal compound of concern is trichloroethene (TCE). Therefore, in this analysis of groundwater chemistry data, particular attention will be paid to this compound.

3.3.1.1 Chlorinated Ethenes

The chlorinated ethenes present in groundwater at this site include tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (c12-DCE), 1,1-dichloroethene (11-DCE), and vinyl chloride (VC). All of these chlorinated ethenes are present in some portion of the source zones or plumes being remediated by IBM. PCE is a primary solvent used typically in degreasing operations and dry cleaning and does not occur in groundwater as a degradation product of another compound. TCE is also a primary solvent used for various industrial applications and historically in dry cleaning and can occur either as a degradation product of PCE by reductive dechlorination or as a primary solvent itself. c12-DCE is a degradation product of PCE and TCE by reductive dechlorination. 1,1-DCE is a transformation product of 1,1,1-trichloroethane (TCA) by an abiotic elimination reaction discussed later in this report. Finally, vinyl chloride is a reductive dechlorination product of either c12-DCE or 1,1-DCE.

3.3.1.2 Chlorinated Ethanes

1,1,1-trichloroethane (TCA) is a primary solvent used in many industrial applications and in printing operations among other uses. Its principal transformation products are 1,1-dichloroethane (1,1-DCA) by reductive dechlorination and 1,1-DCE by the abiotic elimination reaction. As noted above, 1,1-DCE may transform by reductive dechlorination to vinyl chloride and 1,1-DCA may transform to chloroethane (CEA) again by reductive dechlorination.

3.3.1.3 Other Compounds

Other compounds that are present in groundwater at this site include methylene chloride (dichloromethane, DCM), Freon 113, and benzene. DCM has not been observed in groundwater south of North Street because it degrades both aerobically and anaerobically and is rarely transported beyond the immediate vicinity of any particular source zone. Freon 113, likewise, has not been observed as a significant constituent in groundwater south of North Street in the areas of interest for this report. While benzene has been observed at low concentrations in some monitoring wells in the Endicott Forging/Ideal Cleaners area, these occurrences are believed to relate to the presence of petroleum products in this area that are unrelated to source zones or transport from the plant site.

3.3.2 Historical Data Analysis

This subsection presents an analysis of historical data beginning with a review of the spatial distribution of chemistry based on monitoring results for the year 1980 and comparison of those results with the current distribution of groundwater chemistry based on monitoring data from August through December 2003.

3.3.2.1 Spatial Distribution

3.3.2.1.1 1980 Data

Plate 3-9 shows a bubble chart of the 1980 groundwater data for six principal compounds, TCE, 1,1,1-TCA, PCE, DCM, benzene and Freon 113. These are the six principal compounds for which analyses were performed during the 1980 characterization efforts. As shown on this plate, the areas adjacent to the railroad on either side of McKinley Avenue were characterized by a predominance of

TCA, particularly in the more eastern area. At that time, total concentrations of TCA and TCE in the railroad area west of McKinley Avenue exceeded their solubility limits, and, therefore, were known to be present as separate-phase liquid. This was confirmed by the recovery of separate-phase DNAPL from extraction wells in this area. DCM and aromatic hydrocarbons (benzene, toluene, ethyl benzene and xylenes) were present also in the Railroad Area in the early 1980s as reflected in the presence of benzene in this area. Concentrations of DCM declined rapidly during the early 1980s and were less than detection by the mid-1980s in most wells beyond the Railroad Area. Concentrations of aromatic hydrocarbons also declined during the early 1980s and are now generally not detected.

Farther west along the railroad tracks in the area north of the intersection of Washington Avenue and North Street and south of the railroad tracks, the predominant compound detected at that time was PCE. Farther east along North Street near its intersection with Grant Avenue very discrete changes in chemistry are apparent. Some wells exhibited predominantly TCA and other wells exhibited predominantly TCE. This suggests the influence of fairly discrete source zones characterized by one or the other of these compounds. South of North Street the data from 1980 show predominantly TCA and TCE in downgradient monitoring wells between Monroe Street and North Street. South of Monroe Street, however, there are two wells between Broad Street and Monroe Street which do not show TCE to be present in this area at all. There are only low detections of TCA and Freon 113. Farther south, monitoring well EN-63 shows the presence of TCE. This TCE occurrence is entirely separate from the TCE plume north of Monroe Street on the basis of both the groundwater flow analysis presented in the preceding subsection which indicated groundwater from the vicinity of Monroe Street did not flow in a southwesterly direction, and also on the basis of the absence of TCE in the intervening wells between Broad Street and Monroe Street. Furthermore, an initial review of the available maps for sanitary and storm sewers in the vicinity of EN-63 indicates that none of these sewers could be responsible for the contamination at EN-63 unless that contamination was due to a discharge to the sewer from a local source. This is based on the fact that sanitary and storm sewers either originate in this area or convey discharges from other areas where the invert elevation of the sewer is above the water table. None of the storm or sanitary sewer lines in the vicinity of EN-63 convey flow that originates from any sewer located north of East Main Street. The available mapping of storm sewers shows that there are very few storm sewer lines in the vicinity of EN-63, but all of them convey storm water flow away from the area of EN-63, rather than into the area of EN-63.

To the west, the 1980 data shows some TCE as far west as Harrison Avenue, but with predominantly TCA at this location. Beyond that occurrence, TCE is not detected in downgradient monitoring wells. At the southern edge of this map, the South Street Well Field is shown including supply wells EN-5 and EN-28, and monitoring wells MW-1 and MW-2. Low concentrations of c1,2-DCE, TCA, and 1,1,1-DCA have been detected in each of these wells since 1981. The relationship of these detections to the plume shown to be north of Monroe Street on the 1980 map will be discussed in more detail in a later section. However, it is apparent just from Plate 3-9 and the preceding analysis of groundwater flow in 1980 that the detections of these VOCs in the South Street Well Field are not related to the plume north of Monroe Street.

3.3.2.1.2 2003 Data

Plate 3-10 shows a comparable bubble chart for the current 2003 data. In the intervening time period, analysis of groundwater samples from this site included the reporting of concentrations for transformation products of each of the principal compounds shown on Plate 3-9 from 1980. Therefore, Plate 3-10 shows results for seven compounds including TCE, TCA, PCE, and their transformation products with the exception of chloroethane (CEA), which does not occur very frequently. In general, the pattern of chemical occurrence on this map is very similar to the 1980 map in that the railroad area east and west of McKinley Avenue is characterized by the predominance of TCA while the area between North Street and the railroad tracks just east of Oakhill Avenue is characterized by the predominance of PCE. However, in the area just north of North Street near its intersection with Grant Avenue, there has been a change in the chemistry such that the predominance of TCA in the area between Buildings 018 and 041 is no longer apparent, most likely due to the hydraulic control that is currently exerted over the railroad area source zones. Instead, the area between these two buildings is predominantly characterized by TCE degradation products and near North Street by TCE itself. The same is true on the west side of Building 018 where the chemistry is currently predominantly PCE, TCE and their degradation products as opposed to 1980 when the chemistry was predominantly TCA. Again, this most likely reflects the hydraulic control of the TCA source zones near the railroad tracks. However, TCA is still the predominant compound near the southwest corner of Building 018 while TCE is the predominant compound near the southeast corner of Building 018. South of North Street, the chemistry of the plume in Off-Site Capture Zone A is predominantly TCE and its degradation products. This suggests that the onsite extraction well EN-276 near the southwest corner of Building 018 is effective in substantially controlling the flux of TCA across North Street. In the vicinity of the Garfield

Avenue extraction well cluster (between Grant and Garfield Avenues north of Monroe Street), the predominance of TCE in the monitoring wells and extraction wells is apparent with a higher percentage of degradation products occurring in monitoring wells to the west of the extraction wells and a higher percentage of TCE in monitoring wells to the east of the extraction wells. One anomaly in this cluster is well EN-215 at the southeast corner of Grant Avenue and Monroe Street. This well shows a chemical signature that is unlike the other wells surrounding it to the northeast and northwest. It does, however, show a marked resemblance to the chemical signature at well EN-214B located to the southeast of well EN-215 in the vicinity of the Route 26 interchange. This apparent anomaly is discussed further in later sections of this report. In the Southern Area, the chemistry of groundwater is dominated by TCE and its degradation product c12DCE. There are, however, detections of PCE and even lower detections of TCA in this area. The Southern Area is distinguished from two adjoining areas by sharp differences in their chemical signature. In this regard, the Southeastern Subarea of the Eastern Area shows distinctly different chemical signatures in several monitoring wells that border the Southern Area. In one case, the predominant chemical is PCE at a well located just east of Jackson Avenue on Tracy Street while the adjoining well in the Southern Area is predominantly TCE. At another location on Jackson Avenue between Tracy Street and Riverview Drive, the predominant compound in the Southeastern Subarea is TCA while the adjoining well in the Southern Area is, again, predominantly TCE. It is quite obvious from Plate 3-10 that there are distinct differences in the chemical makeup of groundwater in the Southeastern Subarea as compared to the Southern Area.

Similarly, to the north of the Southern Area, in what has been referred to in this report as the Endicott Forging/Ideal Cleaners Area, there is a very distinct difference in the chemistry here versus any of the surrounding areas. In this regard, as a result of the presence of petroleum products in the subsurface, the predominant compounds in this area are the degradation products of PCE and TCE (c1,2-DCE and VC). This reflects the reducing conditions that are caused by the presence of the petroleum products in an otherwise oxygenated aquifer.

Once again, this map also reinforces the separation between the chemistry of the plume within Off-Site Capture Zone A and the Southern Area, and the area between these plumes and the South Street Well Field. In this regard, as shown on this map, at locations EN-062 and EN-064, which are south of Monroe Street and north of Broad Street in the vicinity of Washington Avenue, none of the VOCs of interest were detected. Further south at EN-063, just north of East Main Street between Madison and

Washington Avenues, the chemical signature is not only different from that in the plumes to the north and east, but also the analysis of groundwater elevation contours in the preceding section demonstrated that this well location is on the other side of a groundwater divide from these other plumes. Finally, the chemical signatures observed at the South Street Well Field show only degradation products of TCE (c1,2-DCE) and TCA (1,1-DCA) and neither of the parent compounds. A similar chemical signature is seen in MW-1 northeast of these wells in the direction of the former Village of Endicott dump. The chemical signature in these wells is clearly not at all similar to the chemical signature in the Southern Area or Off-Site Capture Zone B.

3.3.2.2 Temporal Distribution

Monitoring of temporal changes in chlorinated ethene and ethane concentrations in groundwater in the Railroad Area, North Street Area, Off-Site Capture Zone A and Southern Area has been underway since the early 1980s. The following subsections present an analysis of significant observations that have been made with respect to trends in concentrations at this site.

3.3.2.2.1 Railroad Area

During the early 1980s within the Railroad Area, concentrations of TCA were typically greater than 1,000,000 µg/l and TCE concentrations were greater than 100,000 µg/l. Groundwater concentrations in the pumping wells exceeded the solubility of TCA in many circumstances because DNAPL (dense nonaqueous phase liquid) was being recovered at the same time. By the mid-1980s the recovery of substantial amounts of DNAPL by the pumping wells ceased and concentrations of TCE gradually declined. During this time period, the relative concentrations of the transformation products of TCA and TCE increased. Examples of these trends are shown for well EN-118 (see graph in Appendix C-10). Unlike TCA and TCE, the high concentrations of DCM and aromatic hydrocarbons present in the groundwater in the1980 declined rapidly during the early 1980s. DCM concentrations were as high a 1,000,000 µg/l or more in the Railroad Area initially and declined to be generally less than detection by the mid-1980s. Concentrations of aromatic hydrocarbons (benzene, toluene, ethyl benzene and xylenes) in 1980 were reported to be as high as 10,000,000 µg/l or more. Such concentrations far exceed the pure-phase solubility of these compounds but this is likely to have been the result of inference by the very high concentrations of chlorinated ethenes and ethanes present also in the samples in that time period. If the high concentrations of aromatic hydrocarbons were the result of substantial

hydrocarbon NAPL, dissolved concentrations in the groundwater would have persisted much longer. Aromatic hydrocarbon concentrations were much lower in 1981, typically 10,000 µg/l or less, and after that time concentrations were typically a few 1,000 µg/l. The detection limit for these samples is generally about 1,000 µg/l due to the continued presence of high concentrations of chlorinated ethenes and ethanes. In downgradient monitoring wells, the concentrations of aromatic solvents in 1980-1987 have been typically a few 100 µg/l or less and are now generally not detected.

3.3.2.2.2 North Street Area

In the North Street Area, temporal fluctuations in concentrations have been relatively complex. Pumping commenced in the Railroad Area in early 1980 and concentrations downgradient in the North Street Area declined from their highest levels (10,000s µg/l) as a result of control of this source area. Since the early 1980s, some wells in the North Street Area have experienced spikes in concentration. During the late 1980s and 1990s, the wells in the North Street Area have shown spikes in concentrations, that in some of the North Street Area wells have been as high as a few 10,000s µg/l and appear to be superimposed on underlying concentrations of 100s µg/l to a few 1,000s µg/l. This pattern is shown in wells EN-019, EN-20, and EN-21 located between North Street and the railroad (see graphs in Appendix C-10).

3.3.2.2.3 Off-Site Capture Zone A

Throughout Off-Site Capture Zone A, the highest concentrations of chlorinated ethenes and ethanes were present in the early 1980s. In response to control of the Railroad Area by pumping beginning in 1980, concentrations of all the chlorinated ethenes and ethanes declined markedly over a period of 2 to 3 years. Some wells exhibited declines in concentration from 10,000s µg/l to 100s µg/l. In well EN-120, the first pumping well in the Off-Site Capture Zone A near Garfield Avenue, TCE concentrations declined from about 40,000 µg/l to about 1,000 µg/l in about 2 years, remained in the same range until the early 1990s and have declined slowly since then (see graph in Appendix C-10). The persistence of concentrations in the range of about 1,000 µg/l to a few 100s µg/l suggests an on-going but diminishing source of chlorinated ethanes and ethenes that is not controlled at the present time, likely in the area north of North Street.

Figure 3-5 shows a plot of time versus concentration for two wells, EN-133, which is an extraction well in the western part of this area and EN-94, which is a monitoring well west of this extraction well. The pattern of concentrations in these two wells is different because EN-133 is still influenced by groundwater chemical flux in the aquifer and EN-94 is shielded from this influence by the operation of EN-133 as an extraction well. The strong declining trend of concentrations in EN-94 demonstrates the benefit that can be gained in plume reduction if sources of flux are controlled.

3.3.2.2.4 Southern Area

No monitoring wells were installed in the Southern Area until the early 1990s after groundwater pumping commenced at Garfield Avenue and Adams Avenue. Since that time, concentrations of all the chlorinated ethenes and ethanes in the Southern Area have exhibited a slow decline comparable to that observed in wells in the Off-Site Capture Zone A.

3.3.3 Analysis of Current Data

This subsection presents an analysis of current data developed during the SGA. It includes an analysis and interpretation of the inorganic geochemistry of the aquifer, and analysis of fate and transport factors associated with VOCs dissolved in groundwater, and a description of the spatial distribution of the chemicals of concern.

3.3.3.1 Inorganic Chemistry

Groundwater samples were collected in October 2003 from 13 monitoring wells for the analysis of inorganic constituents and redox indicators. The redox indicators considered were ammonia, nitrate, ferrous iron, dissolved manganese, sulfate, sulfide, and dissolved oxygen. The presence of dissolved oxygen and/or nitrate indicates oxidizing conditions. The presence of elevated concentrations of ferrous iron, dissolved manganese and sulfide indicate reducing conditions. Sulfate concentrations are commonly low under strongly reducing conditions. Details of the sample collection procedures are presented in the SGA Work Plan.

These data are tabulated in Appendix C-6. Six of the wells were located in the North Street Area, four of the wells were located in the Southern Area, and the remaining wells were located in the Eastern

Area, which will be considered in later studies. Some of the key parameters are summarized in the following table.

Table 3-1. Summary of Groundwater Inorganic Chemistry Data		
Parameter	**North Street Area (Wells EN-018, EN-019, EN-020, EN-021, EN-283, EN-284)**	**Southern Area (Wells EN-206, EN-208A, EN-214A, EN-214B)**
Specific Conductance (µS/cm)	718 - 2,390	940 - 2,580
Total Dissolved Solids [TDS] (mg/l)	406 - 2,346	543 - 1,624
Chloride (mg/l)	28 - 2,640	124 - 640
Sodium (mg/l)	114 - 1,810	34 - 267
Dissolved Oxygen (mg/l)	2.0 - 4.4	5.2 - 6.9
Nitrate (mg/l)	0.35 - 4.8	4.0 - 6.9
Ammonia (mg/l)	<0.05 - 1.2	<0.05
Ferrous Iron (mg/l)	0.03 - 0.64	0.05 - 0.31

The groundwater in both the North Street Area and the Southern Area has specific conductance and concentrations of total dissolved solids [TDS], chloride and sodium elevated above typical background levels but in the range common for shallow groundwater in urban settings. Elevated TDS, chloride and sodium can be caused by winter road deicing or leakage from sanitary sewer systems. Chloride can be derived also from reductive dechlorination of chlorinated solvents (i.e. PCE, TCE, TCA, etc.) but in this case the presence of sodium balancing the chloride suggests a rock salt source.

The groundwater in both the North Street Area and Southern Area appears to be oxidizing (aerobic) with detectable dissolved oxygen and nitrate and exhibited by the low concentrations of ferrous iron in all the wells.

3.3.3.2 Analysis of Fate and Transport Parameters

The following subsections present a discussion of various fate and transport factors that will affect the distribution and transport of VOCs dissolved in groundwater at this site.

3.3.3.2.1 Reductive Dechlorination

Under reducing (anaerobic) conditions, the principal chlorinated solvents found in the groundwater in the assessment area can undergo biotic reductive degradation and be transformed into less chlorinated compounds. These reactions are mediated by natural groundwater and soil bacteria. The sequence of

reductive dechlorination for the ethenes is: PCE - TCE- c12DCE - VC - Ethene. The sequence of reductive dechlorination for the ethanes is: TCA - 11DCA - CEA. In most aquifers, the rate of each transformation step slows as reductive dechlorination proceeds so that the concentrations of the later transformation products (i.e. c12DCE, VC, 11DCA) can appear to increase relative to the concentrations of the parent solvents. The increase in the relative concentrations of the transformation products occurs commonly with increasing distance from the source zone (provided geochemical conditions continue to favor reductive dechlorination), and may occur also with increasing time at a given location as biogeochemical conditions may become more favorable with time.

One or more of the products of reductive dechlorination (i.e. c12DCE, VC, 11DCA, CEA) are found in almost every well in the Railroad Area, the North Street Area, the Off-Site Capture Zone A, and the Southern Area. However, the concentrations of the parent solvents (PCE, TCE, TCA) are generally higher than the concentrations of the transformation products (i.e. ratio greater than 1).

In general, monitoring wells in the North Street Area exhibit higher relative concentrations of transformation products than wells in the Railroad Area. In some wells, c12DCE concentrations exceed those of TCE. This suggests some degree of reductive dechlorination in this area although the current general groundwater chemistry suggests oxidizing conditions. It is possible that some degree of reductive dechlorination may be occurring in localized zones associated with secondary sources between the Railroad Area and North Street.

Under present conditions, the wells in Off-Site Capture Zone A and the Southern Area have relative concentrations of transformation products comparable to, or lower than, the North Street Area. The fact that the relative proportion of transformation products does not increase generally downgradient of the source areas suggests further reductive dechlorination is not important south of the North Street Area. For those wells that have a monitoring record since the early 1980s, it appears that the concentrations of transformation products have increased relative to the parent solvents throughout the Railroad Area, North Street Area, Off-Site Capture Zone A and Southern Area. This suggests that conditions in the source areas have become more favorable to reductive dechlorination so that the relative proportion of transformation products emitted from the source zones has increased over time. However, because the residence time of VOCs in the groundwater system is only a few years after migrating from the source zones, these long-term changes are not evident the posting of recent monitoring data.

Plates 3-11 and 3-12 are bubble maps showing the relative distribution of dissolved TCE and TCA (respectively) and their degradation products. For Plate 3-11, this includes PCE, TCE and their degradation products c1,2-DCE and VC and for Plate 3-11 this includes 1,1,1-trichloroethane and its transformation products 1,1,-DCE, 1,1-DCA, and CEA. Discussion of the distribution of each of these VOCs in groundwater is presented in the next subsection of this report.

3.3.3.2.2 Abiotic Degradation

TCA will undergo an abiotic hydrolysis reaction that forms 11DCE and acetate. The rate of this reaction is not dependent on bacteria or the geochemical conditions in the groundwater. The half-life for the TCA - 11DCE reaction ranges from 0.5 to 2.5 years depending on the groundwater temperature.

Murphy and Gauthier (2003) described the use of 11DCE/TCA ratios for estimation of residence time of the contaminants in groundwater. The TCA-11DCE hydrolysis reaction begins when TCA is released to the groundwater from a source zone. As TCA degrades and 11DCE is formed, the ratio of 11DCE / TCA increases. The magnitude of the 11DCE/TCA ratio can be related mathematically to the residence time of TCA in the groundwater based on the hydrolysis rate constant determined experimentally for the reaction and the temperature. The application of this method for determining residence time assumes no TCA is lost by reductive dechlorination to 11DCA. If reductive dechlorination has occurred, it will increase the 11DCE/TCA ratio and result in erroneously longer residence times. Plate 3-12 shows the relationship between TCA and its degradation products, including 11DCA and 11DCE.

3.3.3.2.3 Aerobic/Anaerobic Oxidation

The principal solvent parents (PCE, TCE, TCA) will not undergo biodegradation under oxidizing conditions in groundwater. Under suitable conditions, c12DCE and VC undergo degradation by aerobic or anaerobic oxidation without the formation of readily identifiable degradation products. The concentrations of c12DCE and VC are lower relative to TCE in some parts of the Off-Site Capture Zone A and Southern Area compared with the relative concentrations in the North Street Area. This effect may be due to some degree of oxidation of c12DCE and VC.

3.3.3.2.4 Sorption

Sorption of organic contaminants from groundwater onto aquifer material is determined principally by the total organic carbon content of the aquifer solids. The higher the organic carbon content, the higher the degree of sorption. Samples of aquifer material were collected from 6 borings in July 2003. A total of 7 samples were tested for total organic carbon [TOC]. Table 3-2 shows the results of the TOC analyses. The fraction organic carbon (f_{oc}) values are very low for the sand, silt and sand & gravel materials. The average f_{oc} value was 0.0011 for the 4 samples with detectable concentrations of TOC.

Table 3-2. Total Organic Carbon Analysis of Aquifer Material

Boring	Depth (ft)	Soil Type	TOC (wt. %)	foc
EN-208A	36 - 37	Sand	<0.05	<0.0005
EN-208A	38 - 40	Silt	0.1	0.001
EN-213A	38 - 40	Silt	<0.1	<0.001
EN-217A	40 - 42	Sand	0.07	0.0007
EN-306B	40 - 42	Sand	<0.05	<0.0005
EN-308	32 - 34	Sand & Gravel	0.07	0.0007
EN-309	26 - 28	Sand & Gravel	0.2	0.002

The degree of sorption (K_d) of an organic contaminant on aquifer material is a function of the f_{oc} and the organic carbon partition coefficient (K_{oc}) for the contaminant. K_{oc} values have been compiled by US EPA in their Soil Screening Guidance: Technical Background Document in 1996. If the degree of sorption (K_d) of an organic contaminant is sufficiently high, the rate of migration of the contaminant in the groundwater may be slowed or retarded. The retardation factor (R) for a contaminant is calculated a 1 + (K_d x bulk soil density / porosity). For the principal chlorinated ethenes and ethanes in the assessment area (PCE, TCE, c12DCE, VC, TCA, 11DCA, 11DCE), the retardation factors are very low, ranging from 1.02 for VC to 1.29 for PCE. These low retardation factors calculated for the assessment area mean that the chlorinated ethenes and ethanes will migrate at the rate of groundwater flow. In addition, the low degree of sorption or retardation of contaminants will not likely cause any substantial tailing of concentrations during aquifer remediation due to contaminants released back to the groundwater by desorption from the aquifer solids.

The conditions of low sorption and desorption for the aquifer materials in the assessment area is supported by the rapid reduction in the concentrations of chlorinated ethenes and ethanes in some wells in response to previous remedial actions or changing groundwater flow conditions.

3.3.3.2.5 Diffusion

The migration of contaminants in groundwater may be retarded also by diffusion of contaminants from the zones of predominant groundwater flow (i.e. sand & gravel layers) into any adjacent zones of lower permeability materials (i.e. fine sands, silts or clays). Similar to desorption, reverse diffusion out of such lower permeability layers may cause substantial tailing of concentrations during aquifer remediation due to contaminants released back to the more permeable groundwater flow pathways. The absence of significant reverse diffusion effects in the assessment area is supported by the rapid reduction in the concentrations of chlorinated ethenes and ethanes in some wells in response to previous remedial actions or changing groundwater flow conditions.

3.3.3.2.6 Preferential Pathways

The potential role of sewers in groundwater and contaminant transport was examined for the assessment area. Both the Village of Endicott and the Town of Union have buried sanitary and storm sewers along most streets within the assessment area. Invert elevation data for the sanitary sewer system was acquired from maps supplied by the Village and data published in the report, "Man-made Structures Evaluation, IBM Main Plant Facility, Endicott, New York," dated June 1993. Invert elevations for the storm sewer along Delaware Avenue were surveyed by Hawk Engineering for this study. Relevant information from the various sources is shown on Figure 3-6.

With respect to the storm sewer system, the most upstream location at which invert elevations were surveyed during the SGA is at the intersection of Delaware Avenue and North Street. From there, the main storm sewer system extends westward along North Street from this intersection to a terminus at the intersection of Garfield Avenue and North Street. Storm water drains to the east along North Street to Delaware Avenue then turns south on Delaware Avenue. Based on a comparison of groundwater elevations along the length of this storm sewer beneath North Street and the highest measured invert elevation at the intersection of Delaware Avenue and North Street, it can be concluded that the storm sewers draining to the east beneath North Street are above the water table along their full length.

Invert elevation data are not available for storm sewer systems west of Garfield Avenue. Based on information contained in the report "Man-made Structures Evaluation", limited invert elevation data are available for both the sanitary and storm sewer systems serving the western portion of the Huron

facility, which discharge to the west generally along the route of the original Tannery sewer system. These data indicate that both the sanitary and storm sewer pipes along Clark Street and Franklin Street (Figure 3-6) exhibit invert elevations that are below the local water table.

Historical water quality data are available for both the Tannery sewer and the Delaware Avenue sewer for the ten-year period from 1992 to 2002. For the first seven and one-half years, samples were collected quarterly at the sampling locations shown on Figure 3-6, and for the final two and one-half years samples were collected semiannually. The tabulated data for these storm sewer samples are presented in Appendix C-11. Figures 3-7 and 3-8 present time versus concentration plots for constituents of concern in these storm sewer samples.

As shown on Figure 3-7, although there were some low detections of VOCs in the Tannery sewer in the early 1990's, no VOCs were detected in this storm sewer sampling for the last eight years for which data are available. Furthermore, the pattern of VOCs detected (predominantly TCE) is not consistent with the observed groundwater chemistry in the western portion of the plant site where the predominant VOCs detected are daughter products of the principal chemicals of concern. Furthermore, the observed concentrations of even TCE are insufficient to account for the levels of this compound or its degradation products as monitored over the past twenty years in the South Street Well Field.

Figure 3-8 shows time versus concentration data for VOCs in the Delaware Avenue storm sewer from samples collected at the sampling point shown on Figure 3-6. As in the case of the Tannery Sewer, these data show trace detections of VOCs in the 1990's at concentrations that cannot account for the concentrations observed in groundwater in the Southeastern Subarea. The data for this storm sewer also show that VOCs have not been detected in samples collected during the last three years for which results are available.

Taken together the data for these two storm sewers as tabulated in Appendix C-11 and graphed on Figures 3-7 and 3-8 support the conclusion that neither of these storm sewers is serving as a preferential pathway for the migration of contaminated groundwater from the area on or in the vicinity of the Huron Plant Site to the Upper Aquifer in areas between the plant site and the Susquehanna River.

With respect to the sanitary sewer system, the available plans do show invert elevations for the sanitary sewer systems along North Street and south of North Street. Based on these plans, the invert elevations

of the sanitary sewer system are consistently well above the groundwater elevation except near the western end of Broad Street (Figure 3-6). Between Lincoln Avenue and Harrison Avenue on Broad Street, the invert elevations of the sanitary sewer lines approach the water table and south of Broad Street on Harrison Avenue, the invert elevations appear to be below the water table. However, this area is distinctly separate from the plumes that IBM is remediating and would not constitute a concern regarding transport of VOCs from those plumes in the sanitary sewers.

3.3.3.3 Spatial Distribution of Chemicals of Concern

This subsection discusses the spatial distribution of the chlorinated ethene and chlorinated ethane compounds in the assessment area.

3.3.3.3.1 Chlorinated Ethenes

The distribution of the chlorinated ethenes is shown on Plates 3-13 through 3-16. Plate 3-13 shows the distribution of PCE in groundwater in the assessment area. In the North Street Area, the occurrence of PCE in groundwater is predominantly in areas east, west, and north of Building 039. Extraction of groundwater at EN-107 provides the principal source of PCE removal in this area and a smaller PCE plume south of the Onsite Capture Zone appears to be captured by extraction well EN-276.

In the area between North Street and Monroe Street, low concentrations of PCE occur in monitoring wells generally at levels of around 20 µg/l or less, however, on the southeast side of the Garfield Avenue well cluster, PCE occurs anomalously at EN-215 at approximately 20 µg/l which has persistently been the case since this well was installed over ten years ago. Similarly, PCE occurs farther to the east-southeast at monitoring well EN-214B (16 µg/l). The presence of PCE in these two monitoring wells and farther to the southeast in the Southern Area does not appear to be associated with any occurrence of PCE in the plume between North Street and Monroe Street.

While concentrations of PCE comparable to those in EN-215 are observed also in monitoring wells that are west and northwest of the Garfield Avenue well cluster, at this time it is not believed to be likely that groundwater to the northwest of the Garfield Avenue wells is the source of PCE at EN-215. There are several lines of evidence to support this present interpretation. The first comes from a comparison of the shutdown test water levels shown on Plate 3-7 and the end-of-aquifer-test water levels shown on Plate 3-8. With respect to Plate 3-7, what is shown is an area of groundwater elevations that exceed 822

feet in the vicinity of the Garfield Avenue well cluster extending generally from Garfield Avenue to beyond McKinley Avenue along Monroe Street. To the southeast of this area, across McKinley Avenue, groundwater elevations drop off to below 822 feet. Therefore, prior to restarting the extraction operations at the Garfield Avenue well cluster, groundwater west of this well cluster was flowing to the west and east of this well cluster was flowing to the southeast. Plate 3-8 shows the groundwater flow configuration following restart of the Garfield well cluster. Groundwater elevations in wells EN-93 and EN-99 to the northwest of the Garfield Avenue well cluster are only slightly higher than that in EN-215 (0.03 feet) and considerably lower groundwater elevations (0.87 to 3.65 feet) exist at the pumping wells in between the area northwest of the Garfield well cluster and EN-215. Based on these groundwater elevation patterns, it is unlikely that groundwater from the northwest of the Garfield Avenue well cluster could by-pass this pumping center.

Furthermore, the chemical signature evident in the groundwater at EN-215 appears to differ from the area west of the Garfield Avenue well cluster. Recent chemical data for EN-215 and three wells west of the Garfield Well Cluster (EN-93, EN-99 and EN-100) are shown in the following table:

Table 3-3
VOC Concentrations In Selected Wells

Parameter	EN-093	EN-099	EN-100	EN-215
1,1,1-Trichloroethane	56	43	46	8.3
1,1-Dichloroethane	57	42	63	ND@20
1,1-Dichloroethene	9.6	7.2	6.7	ND@20
Tetrachloroethene	13	19	20	20
PCE: TCE Ratio	0.04	0.07	0.08	0.18
Trichloroethene	320	260	250	110
TCE: C12DCE Ratio	1.0	1.3	0.9	6.9
cis-1,2-Dichloroethene	320	200	280	16

Concentrations in ug/l.

In the area west of the Garfield Avenue well cluster, TCE and c12DCE occur at generally similar concentrations and higher than PCE by about 10 times. However, at EN-215, the ratio of TCE to c12DCE is nearly 7 to 1 and the ratio of PCE to TCE is 2 to 4 times higher than it is in the wells west of the Garfield Avenue Cluster. While the PCE concentrations in EN-215 are similar to those in the other wells, the TCA concentrations in the other wells are more than five times higher than the TCA

concentration in EN-215. These chemical differences between EN-215 and wells to the west of the Garfield Avenue well cluster strongly support the conclusion that the groundwater chemistry detected in well EN-215 is not related to a flow path around and to the west of the Garfield Avenue well cluster.

At the present time, the groundwater elevation and chemical data suggest a local source for the chlorinated VOCs at EN-215. However, further evaluation of existing chemical data and installation of additional corrective action monitoring wells are proceeding to determine whether the impact at EN-215 originates from a localized source or from bypassing of the Garfield Avenue capture zone.

The only other significantly higher occurrence of PCE is a thin pencil-like plume on the western edge of the Endicott Forging/Ideal Cleaners area where concentrations are not high enough to produce the concentrations observed in EN-215 and EN-214B. Furthermore, between well EN-215 and the terminus of this pencil-like plume at extraction well EN-195, monitoring well EN-192 shows PCE to be not detected. This may suggest a local source of PCE that impacts both EN-215 and EN-214. Such a source would have to be along the groundwater flow divide that separates these two wells which would place it somewhere to the south or southwest of EN-215, most likely in the area generally bounded by Grant Avenue, Broad Street, Washington Avenue, and Monroe Street.

Plate 3-14 shows the distribution of TCE in groundwater in the Upper Aquifer. In addition to elevated concentrations in the railroad source area, there is also a relatively higher concentration plume located in the vicinity of North Street between Grant Avenue and McKinley Avenue. In fact, the highest concentration of TCE detected in this area was in monitoring well EN-421 south of North Street at a concentration of 17,000 µg/l. Chemical concentration contours and groundwater elevation contours show that this plume extends westward to EN-133 and southward toward the Garfield Avenue extraction well cluster. While this plume may be captured by the Garfield Avenue well cluster in combination with EN-133, the distribution of TCE suggests at least the possibility that a portion of this plume may escape into the Southern Area in the gap between extraction wells EN-194 and EN-195.

Relative concentrations of TCE in extraction well EN-160 and EN-194 suggest that as shown on Plate 3-14, the plume extending from North Street in a southerly direction to extraction well EN-120 is intercepted primarily by this well. Lower concentrations in EN-160 indicate mixing of cleaner water

coming from the south or southwest. However, in extraction well EN-194 and monitoring well EN-191, higher concentrations are observed than those exhibited by EN-160. These higher concentrations are not present to the north of this pair of wells (EN-190 exhibits 111 µg/l TCE) and, therefore, the possibility exists that there is a TCE source to the south or southwest of monitoring well EN-191 in the same general area as the possible PCE source mentioned above. Again, if this potential source were along the divide that separates EN-215 from EN-214B such a source might also explain the elevated concentrations in these two wells.

Plates 3-15 and 3-16 show the distribution of c12DCE and VC, respectively. In both cases, they show substantial concentrations of these TCE degradation products in the railroad area where they are controlled by the extraction wells operating in that area. They also, however, both show a relatively high concentration plume of these two compounds that appears to originate in the vicinity of EN-21 and extend from that well to extraction well EN-253, within the Onsite Capture Zone. South of this limit there is a lower concentration plume of each of these constituents that is reflected at monitoring well EN-20. This is a spatial representation of the previous discussion regarding the shift in concentrations at EN-21 and EN-20 that reflects a southerly shift of the capture zone following the start-up of extraction wells EN-219 and EN-253.

c12DCE is present throughout the remainder of the offsite plume between North Street and Monroe and also exhibits the same anomalous occurrence south and southeast of the Garfield extraction well cluster as does PCE and TCE. c12DCE is also present in the plume within the Endicott Forging/Ideal Cleaners Area as a degradation product resulting from the occurrence of strongly reducing conditions caused by the presence of petroleum products in the aquifer in this area. Similarly, vinyl chloride is present in this same plume as a result also of reductive dechlorination.

3.3.3.3.2 Chlorinated Ethanes

Plates 3-17, 3-18, and 3-19 present the isoconcentration contour maps for TCA, 1,1-DCA, and 1,1,-DCE, respectively. All three of these maps show the presence of these compounds in the Railroad Area source zones where they are contained within the Onsite Capture Zone. All three also show the existence of a relatively high concentration plume extending from monitoring well EN-21 near the southern extent of onsite capture to extraction well EN-253. As in the case of the ethene compounds,

concentrations of these constituents in monitoring well EN-20 south of the Onsite Capture Zone are much lower. This again indicates the expansion to the south of onsite capture with the start-up of extractions well EN-219 and EN-253, as observed in the resultant shifts in chemistry for monitoring wells EN-21 and EN-20. South of North Street, these three plates show that TCA and its degradation products are all present in the plume between North Street and Monroe Street although the 1,1,-DCE plume does not extend out to extraction well EN-133. Plate 3-17 shows that the areal extent of TCA is very similar to that of TCE in terms of extending to the southeast into the Southern Area.

3.3.3.3.3 Total VOC Concentrations

A separate plate has been prepared to provide data postings for the sum of the concentrations for all VOCs at each groundwater sampling location at the request of NYSDEC. These total VOC concentrations are shown on Plate 3-20. Since the mix of VOCs changes from well to well, it is not possible to interpolate between these data postings and, therefore, by prior agreement with NYSDEC, no concentration contours are shown on this plate.

3.3.3.4 Mass Flux and Mass in Place

In order to assess the requirements for corrective measures to reduce mass of VOCs in the plumes IBM is remediating in Off-Site Capture Zone A and the Southern Area, it was necessary to prepare an approximation of the volume of water in storage in the aquifer in various areas, the mass of TCE dissolved in that groundwater, and the rate of TCE flux through various portions of the aquifer. There are various methods for making such an approximation. In the approach taken here, the first step in completing these calculations was to prepare the map of Off-Site Capture Zone A and the Southern Area shown on Figure 3-9, which includes the limits of those two areas and the corresponding saturated thickness and TCE concentration contours. Each polygon formed by the intersection of two concentration contours with two saturated thickness contours was then numbered and the area bounded by those four contours was calculated from the AutoCAD drawing. These individual areas were then listed in a spreadsheet along with their surface area, and a representative saturated thickness and TCE concentration was assigned to each area based on visual interpolation of the contours for each parameter and the shape of the individual polygons. These assigned values for saturated thickness and TCE concentration were also entered into the spreadsheet. From these spreadsheet entries, the total gallons of groundwater in storage within each area of the aquifer were calculated based on an assumed porosity

of twenty-five percent. This calculation was done for each polygonal area after which the associated TCE concentration was used to calculate the mass of TCE in place within each polygon. These individual calculations of water in storage and mass in place were then summed to get total gallons in storage within each area of the aquifer and the associated mass of TCE in place. Table 3-4 is a printout of that spreadsheet with calculations grouped for Off-Site Capture Zone A, the Southern Area north of Tracy Street and the Southern Area south of Tracy Street. The division of the Southern Area is based on the fact that north of Tracy Street there is substantially greater saturated thickness in the Upper Aquifer than there is south of Tracy Street, which, as will be shown, affects the water in storage, TCE mass in place, and travel time through the aquifer.

Table 3-4
Aquifer Storage and TCE Mass-in-Place Calculations
a. Off-Site Capture Zone A

Area No.	Area (sq ft)	Representative Thickness (ft)	Representative Concentration (ug/l)	Aquifer Storage (gal)	Mass In Place (lbs)
01	11789	-	0.0	0	0.00
02	199380	1.0	0.0	372840	0.00
03	6267	5.3	0.0	62116	0.00
04	390046	3.5	0.0	2552854	0.00
05	1423	4.5	4.0	11972	0.00
06	1380	4.7	4.0	12132	0.00
07	14209	4.5	30.0	119572	0.03
08	7232	5.5	10.0	74384	0.01
09	3897	5.5	4.0	40081	0.00
10	2348	5.5	30.0	24148	0.01
11	21089	4.0	0.0	157749	0.00
12	1676	4.0	30.0	12538	0.00
13	1841	4.0	250.0	13768	0.03
14	15662	4.5	300.0	131792	0.33
15	4302	5.5	600.0	44250	0.22
16	41243	4.0	2000.0	308496	5.14
17	34150	4.0	100.0	255445	0.21
18	18887	4.0	10000.0	141277	11.76
19	328	5.0	10000.0	3070	0.26
20	1393	5.0	2000.0	13021	0.22
21	10005	4.0	150.0	74840	0.09
22	1998	5.0	5.0	18685	0.00
23	156714	7.0	0.0	2051393	0.00
24	22669	11.0	0.0	466300	0.00
25	41098	11.0	8.0	845388	0.06
26	41035	7.5	15.0	575517	0.07
27	223725	4.5	15.0	1882643	0.24
30	53485	1.0	35.0	100017	0.03
33	187908	7.0	40.0	2459715	0.82
34	535088	7.5	250.0	7504607	15.62
35	50410	6.5	35.0	612739	0.18
36	157909	7.0	0.0	2067023	0.00
37	49265	12.5	0.0	1151577	0.00
38	1794	9.5	35.0	31865	0.01

Table 3-4
Aquifer Storage and TCE Mass-in-Place Calculations
a. Off-Site Capture Zone A

Area No.	Area (sq ft)	Representative Thickness (ft)	Representative Concentration (ug/l)	Aquifer Storage (gal)	Mass In Place (lbs)
39	11529	13.5	35.0	291056	0.08
40	384476	16.0	0.0	11503516	0.00
41	62319	15.5	35.0	1806322	0.53
42	144625	12.5	200.0	3380604	5.63
43	16855	15.5	60.0	488532	0.24
44	1315	15.0	35.0	36896	0.01
45	282	10.0	50.0	5264	0.00
46	2368	14.0	0.0	61985	0.00
47	3872	14.0	35.0	101378	0.03
48	20562	12.0	130.0	461415	0.50
49	8162	13.0	50.0	198410	0.08
50	1405	15.5	50.0	40731	0.02
51	48866	17.5	100.0	1599128	1.33
52	12461	21.0	100.0	489351	0.41
53	32538	16.0	35.0	973541	0.28
54	2784	14.5	50.0	75492	0.03
55	40767	12.5	35.0	952920	0.28
56	139924	13.5	0.0	3532389	0.00
57	87651	7.5	0.0	1229312	0.00
58	12227	9.5	10.0	217211	0.02
59	34908	4.0	0.0	261114	0.00
TOTAL	3381541 77.6 Ac			51900381	44.81

Table 3-4
Aquifer Storage and TCE Mass-in-Place Calculations
b. Southern Area Between Monroe Street and Tracy Street

Area No.	Area (sq ft)	Representative Thickness (ft)	Representative Concentration (ug/l)	Aquifer Storage (gal)	Mass In Place (lbs)
01	7904	9.5	40.0	140417	0.05
02	360	15.0	50.0	10093	0.00
03	11631	12.5	45.0	271870	0.10
04	1828	16.0	55.0	54705	0.03
05	210701	17.5	70.0	6895182	4.02
06	194000	22.0	100.0	7981160	6.64
07	101011	12.0	35.0	2266677	0.66
08	4574	9.5	30.0	81248	0.02
09	18788	16.0	45.0	562133	0.21
10	57695	7.0	3.0	755230	0.02
11	91766	3.5	3.0	600608	0.01
12	895	5.0	1.0	8364	0.00
13	30756	4.0	10.0	230057	0.02
14A	132228	7.5	30.0	1854498	0.46
17A	47307	4.0	75.0	353856	0.22
20A	55225	1.0	20.0	103271	0.02
20C	3754	0.5	5.0	3510	0.00
21	7037	16.0	45.0	210560	0.08

Table 3-4
Aquifer Storage and TCE Mass-in-Place Calculations
b. Southern Area Between Monroe Street and Tracy Street

Area No.	Area (sq ft)	Representative Thickness (ft)	Representative Concentration (ug/l)	Aquifer Storage (gal)	Mass In Place (lbs)
22	1318	15.0	50.0	36979	0.02
23A	172691	-	0.0	0	0.00
24A	47261	3.0	40.0	265134	0.09
25A	57968	7.5	90.0	813001	0.61
25C	2023	10.0	50.0	37830	0.02
26A	142592	12.5	85.0	3333088	2.36
27	65961	1.0	3.0	123346	0.00
28	1579	15.0	50.0	44300	0.02
29	2174	16.0	40.0	65056	0.02
30	49804	7.5	30.0	698505	0.17
31	48477	4.0	2.0	362610	0.01
32	56672	12.5	30.0	1324699	0.33
33	15154	16.0	40.0	453403	0.15
34	1236	9.5	7.0	21961	0.00
35	14268	11.0	4.0	293489	0.01
36	55870	7.0	3.0	731344	0.02
TOTAL	1712508 39.3 Ac			30988184	16.39

Table 3-4
Aquifer Storage and TCE Mass-in-Place Calculations
c. Southern Area South of Tracy Street

Area No.	Area (sq Ft)	Representative Thickness (ft)	Representative Concentration (ug/l)	Aquifer Storage (gal)	Mass In Place (lbs)
14B	145501	6.5	25.0	1768565	0.37
15	470770	3.0	20.0	2641017	0.44
16	475	2.0	5.0	1775	0.00
17B	592748	3.5	150.0	3879536	4.84
18	8700	3.0	40.0	48807	0.02
19	40705	1.5	65.0	114179	0.06
20B	70372	1.0	20.0	131596	0.02
23B	4696	-	0.0	0	0.00
24B	13109	2.5	40.0	61285	0.02
25B	65810	7.5	90.0	922985	0.69
26B	11177	11.0	65.0	229911	0.12
TOTAL	1424063 32.7 Ac			9799656	6.58

Table 3-5 summarizes the results of these calculations for Off-Site Capture Zone A. As shown on this table, the total area within this capture zone is 78 acres, and the total water in storage in the aquifer is 51.9 million gallons. As noted previously with a water extraction rate from this capture zone of 44.7 million gallons per year, one pore volume is removed from this portion of the aquifer every 1.16 years. Verification of this flushing rate is also provided by the calculation of TCE mass in place versus the observed rate of TCE mass removal by existing extraction wells. In this regard, as shown in Table 3-5, the calculated TCE mass in place is 44.8 pounds, and recent extraction data show that the mass removal

rate from this capture zone is 49.2 pounds per year of TCE. This leads to the conclusion that the mass of TCE in place in this portion of the aquifer is being removed on average every 0.91 years, which corresponds very well to the 1.16 years calculated for the rate of removal of one pore volume from this portion of the aquifer.

Table 3-5
Off-Site Capture Zone A
Storage, Flushing Rate and TCE Mass in Place

1	Surface Area (acres)	78
2	Aquifer Storage (Mgal)	51.9
3	Water Extraction Rate (Mgal/yr)	44.7
4	AS:WER	1.16
5	TCE Mass In Place (MIP)(lbs)	44.8
6	TCE Removal Rate (RR)(lbs/yr)	49.2
7	TCE MIP:TCE RR	0.91

Table 3-6 summarizes the results of these calculations for the Southern Area. In this case columns are shown to reflect calculations for the entire Southern Area, the area north of Tracy Street, and the area south of Tracy Street. As shown in this table, the total area of 72 acres includes 39.3 acres north of Tracy Street and 32.7 acres south of Tracy Street. The total calculated aquifer storage is 40.8 million gallons, which, due to the greater saturated thickness in the area north of Tracy Street, is divided into 31 million gallons north of Tracy Street with only 9.8 million gallons south of Tracy Street. This table also shows that the average annual recharge rate in the area north of Tracy Street is on the order of 16 million gallons, which is roughly fifty percent of the water in storage in that portion of the aquifer. However, by contrast in the area south of Tracy Street because the recharge rate is dependent on the surface area not the thickness of the aquifer, the average annual recharge rate is on the order of 13.3 million gallons per year or roughly 135% of the aquifer storage. Based on these proportions, the water in storage in the aquifer south of Tracy Street is flushed naturally by direct recharge such that one pore volume is exchanged every 0.74 years (i.e., every 9 months).

Table 3-6 Southern Area Storage, Flushing Rate and TCE Mass in Place and Flux				
		Total	**North of Tracy Street**	**South of Tracy Street**
1	Surface Area (acres)	72.0	39.3	32.7
2	Aquifer Storage (AS)(Mgal)	40.8	31(Ave. b = 9.7')	9.8 (Ave. b=3.7')
3	Average Annual Recharge (AAR) (Mgal/yr)	27.9	15.2	12.7
4	Travel Time (yrs.) (k=58'/day; 430ft/day)	2.25	1.43	0.82
5	AS:AAR	1.4	1.94	0.74
6	TCE Mass in place (MIP)(lbs)	23	16.4	6.6
7	Flux Rate:TCE (FR)(lbs/yr) (94 ug/l; 58ft/day)	15		
8	MIP:FR	1.5	1.09	0.44

By contrast in the area north of Tracy Street, due to the greater saturated thickness and therefore greater volume of water in storage per given area, natural flushing of the aquifer occurs more slowly resulting in the exchange of one pore volume every 1.94 years.

The same dichotomy exists with regard to the TCE mass in place and calculated mass flux. In this regard the total mass in place is calculated to be 23 pounds of TCE, which is split between the area north of Tracy Street (16.4 pounds) and the area south of Tracy Street (6.6 pounds). This difference in mass in place is directly related to the difference in aquifer storage in these two areas. Using the groundwater flow calculations described previously in this report, and an average TCE concentration of 94 µg/l along the transect used to calculate that groundwater flow, yields a TCE flux rate of 15 pounds per year. Assuming that all the TCE in place originates as flux entering the Southern Area from the north or west, a flux rate of 15 pounds per year versus mass in place of 23 pounds would indicate that the mass in place is replaced once ever 1.5 years. Broken down between the area north of Tracy Street and the area south of Tracy Street, this would mean the mass in place within the area north of Tracy Street is replaced every 1.09 years and the mass in place south of Tracy Street is replaced every 0.44 years.

Finally travel time calculations were made for both the area north of Tracy Street and the area south of Tracy Street based on the hydraulic gradients and hydraulic conductivities associated with each. For the area north of Tracy Street using a hydraulic conductivity of 430 feet per day, the travel time was on the

order of 1.43 years. For the area south of Tracy Street, using a hydraulic conductivity of 58 feet per day, the travel time was on the order of 0.82 years. Taken together, these travel times represent a 2.25-year travel time for groundwater from Monroe Street to the Susquehanna River.

Taking all of these calculations into consideration, it can reasonably be concluded that one pore volume is exchanged in the area south of Tracy Street in response to natural recharge in less than one year, and in the area north of Tracy Street, in 1 to 2 years.

3.3.3.5 Relationship of Upper Aquifer to Lower Aquifer

As discussed above, previous studies summarized by Randall (2001, Prof Paper 1415B) have identified four typical time-transgressive stratigraphic units in the unconsolidated glacial drift in most valleys in the glaciated northeastern United States: (1) Basal till, deposited atop bedrock directly from the ice prior to deglaciation, (2) Ice-contact stratified drift, deposited early in deglaciation in meltwater channels beside and beneath a valley ice tongue, or as subaquatic fans at the terminus, (3) Fine-grained lacustrine deposits in proglacial lakes beyond the margin of active ice, and (4) Deltaic and alluvial sand and gravel outwash deposited atop the older units late in deglaciation. Randall (1986, WRI 85-4099) delineated these units in the Susquehanna River valley near Endicott. According to that report, the ice-contact deposits (which range from clean, highly permeable gravels to nearly impermeable till and silt-bound gravel) form a buried ridge near the valley axis and the Susquehanna River that constitutes a highly productive aquifer. The transmissivity of that aquifer was inferred to decrease northward to relatively small values north of Main Street in Endicott (Randall, 1986, plate 2). The deep aquifer and the surficial outwash aquifer were inferred to merge in a few localities, due to some combination of localized downwarping of the surficial aquifer, depositional thickening of the deep or basal aquifer, and higher altitude of the bedrock near the valley wall. The principal zone of interconnection was inferred to be near the Susquehanna River downstream from McKinley Avenue, but interconnection was also inferred near an ice-block depression west of Harrison Avenue (at the location of the Old Village Dump) and in a few localities near the northern margin of the valley.

A question that must be addressed by ongoing investigations of ground-water quality in Endicott is whether chemical contaminants in ground water in the Upper Aquifer can be expected to migrate downward into the inferred deep ice-contact deposits beneath the lacustrine silt/clay unit, then to migrate southward through the deep deposits to the municipal wells finished in the Lower Aquifer near

the Susquehanna River in Endicott. That question is actually two questions: (1) Are there localities near or north of North Street where water can move readily downward from the surficial outwash to the deep coarse drift that immediately overlies bedrock? (2) Is that deep coarse drift continuous and sufficiently transmissive to conduct water readily southward to the vicinity of the Susquehanna River?

As discussed above, Plate 3-2 depicts the current understanding of the extent and lithology of the lacustrine unit in the northern part of the valley. The presence of silt with interbedded clay layers is clearly documented beneath most of the extensive outwash terrace in Endicott. However, there are exceptions, as noted in section 3.1.2.3.2.

Nevertheless, as of 2004, records are available for many test boreholes on the outwash terrace in Endicott that penetrate through the lacustrine unit into coarser unconsolidated sediment. At nearly all boreholes north of Main Street, the sediment underlying the lacustrine silt was identified by the field geologist or soils technician as glacial till, or was described in terms that suggest till or equally impermeable silt-bound gravel. Many of these deep boreholes penetrated only a few feet into the deep coarse sediment, but some penetrated entirely through this unit to bedrock. The nearly universal presence of till at the top of the deep coarse drift does not necessarily mean that the entire thickness must consist of till everywhere. However, the entire body of borehole evidence currently available indicates that the concept enunciated by Randall (1986) of a deep or basal stratified-drift aquifer (i.e., the Lower Aquifer) beneath most of the valley floor – relatively thin north of Main Street but still somewhat transmissive – is not valid.

The only locality in which several boreholes do provide evidence for permeable gravel or sand between the lacustrine silt unit and bedrock is near McKinley Avenue. The borehole evidence from well logs and interviews performed by Allan D. Randall of the USGS is as follows:

- 47B1 Foundation borehole beneath center of Bldg 47: gray gravel and sand with a little silt 52-60 ft, less compact than some basal drift.

- EN-D13: Gravel and sand, apparently silt-free, 51-61 ft

- EN-D14: Drab sand and gravel, and medium-coarse sand, 52-63 ft, test-pumped at 7 gpm with 26 ft drawdown through 10 ft of 10-slot screen, presumably capable of larger yield with proper screen and development, but not a major aquifer.

- EN-35: Gravel 68.5-70 ft, atop bedrock

- EN-D12: Clean gravel and medium-coarse sand 72-75 ft

- EN-CAF: Well test-pumped at 100 gpm through open-end casing from base of sand and gravel 80± to 100 ft. Well drilled into bedrock per architect's instructions.

- Frederick Hotel: Water-bearing sand, coarser with depth, 125-151 ft, beneath 100 ft of "mud", 76 gpm.

However, it is far from certain that these thin, scattered basal sand or gravel occurrences even constitute a single continuous deposit, and clearly they do not constitute a major aquifer. Indeed, nearby boreholes EN-D11, EN-D33, EN-D34 (logs for the latter two are published in GSPC, April 30, 2004 and they are located adjacent to EN-35 in front of B028) penetrate only lacustrine sediment, over till, over bedrock. The log of EN-D7 suggests till immediately beneath the lacustrine sediment, as do some other logs farther from McKinley Avenue. Furthermore, with the exception of trace concentrations of VOCs in EN-D14 and EN-D34 (both ob the Huron Plant Site) none of the monitoring wells that screen this unit show detectable concentrations of VOCs above the reporting limit of 1 ug/l.

While the lithology of the basal drift in this locality deserves closer examination, including additional boreholes and possibly hydraulic conductivity testing, the preponderance of the existing data, both physical and chemical, supports the conclusion that ice contact deposits do not occur as a continuous, transmissive unit from the Huron Plant Site to the South Street Well Field or the Huron Well Field. This unit does not, therefore, represent a conduit by which contaminated groundwater flows from the source zones on the Huron Plant Site to the Lower Aquifer along the axis of the valley, in which production wells in these two well fields are constructed.

3.4 Current Corrective Measures

This subsection presents a description of the current groundwater extraction wells and treatment systems followed by an assessment of their effectiveness in the various areas of the site. Figure 3-10 shows the locations of the extraction wells, treatment systems, and schematic representations of piping connecting the systems. Further details of these facilities and operations will be provided in a comprehensive review of all current operations to be completed by April 2004.

3.4.1 Description of Groundwater Extraction Wells and Treatment Systems

Groundwater control and recovery is presently being accomplished with eighteen recovery wells with a total yield averaging approximately 250 gallons per minute (gpm) (flow averages based on the first seven months of 2003). Individual well yields range from less than one gpm at wells EN-89 and EN-25 to over fifty gpm from wells EN-154 and EN-133. (See Figures 3-3 and 3-10)

3.4.1.1 On-Site Wells

Ten of the groundwater extraction wells are located on the main Huron plant site or adjoining buildings on the south side of North Street. Nine of these wells are located north of North Street, with the tenth well (EN-CAF) located south of North Street in the basement of Building 42 at the intersection of McKinley Avenue and North Street. Groundwater from these ten wells discharges directly or indirectly into the Huron organic treatment facility (OTF) (Building 096) located near the intersection of East Franklin Street and Clark Street where it is combined with industrial process wastewater from the EIT manufacturing processes. The Huron organic treatment facility (OTF) has the following processes to treat the wastewater: gravity separation, air stripping, biological treatment, filtration and carbon adsorption. The treated effluent from the OTF is then discharged into the general rinse. The general rinse is then passed through carbon filters and finally discharged to the Susquehanna River via outfall 001 through the Endicott municipal storm sewer system. This outfall is regulated under SPDES Permit #NY0003808.

All of the flows from the recovery wells and treatment system locations are presently monitored via an integrated plant monitoring system. The primary monitoring screen location is at the Huron B096 waste treatment facility although the screens may also be accessed from other locations within the plant. In

2003 additional remote Supervisory Control and Data Acquisition (SCADA) monitoring systems have been installed at four off-site standalone treatment plants (Adams, Garfield, Jefferson and B057A) to provide remote monitoring access of flows and alarms. In late 2003 and early 2004 similar units were installed at all pumping well meter locations for the on-site recovery wells. All recovery well locations provide flow monitoring and alarming which is primarily based on set point limits for flow or no flow conditions. Other critical alarms such as those for leak detection and heat tracing are also an integral part of this system. The recovery well locations and standalone treatment facilities are visually inspected by operators and also monitored via the two remote monitoring methods. Operations and preventive maintenance are coordinated based on historical equipment maintenance requirements and through observation of the individual well flows.

3.4.1.2 Off-Site Recovery Wells

The remaining eight groundwater recovery wells are located to the South and East of the ten on-plant site wells described above. Groundwater recovered by all of these wells is pumped to four localized stand-alone treatment systems which each discharge to the Susquehanna River via SPDES outfalls and the Endicott municipal storm sewer system.

3.4.2 Effectiveness of Current Corrective Measures

Much has already been said in this report regarding the effectiveness of the groundwater extraction systems at this site in capturing groundwater containing dissolved VOCs. This subsection will focus specifically on the extent of source control and plume capture as it relates to the effectiveness of the current corrective measures.

3.4.2.1 On-Site Capture Zone

As noted previously in this report, the operation of extraction wells in the vicinity of the railroad on either side of McKinley Avenue has established a well-developed capture zone as shown on Plate 3-3. As shown on Figure 3-11, over the 23 years that groundwater extraction has occurred in this area, these wells have removed 752,000 pounds of VOCs west of McKinley Avenue and 16,400 pounds east of McKinley, either as dissolved fraction or separate-phase liquid. Furthermore, the isoconcentration contour maps (Plate 3-13 through 3-19) consistently show that these wells control the higher

concentration source zones adjacent to the railroad and prevent these sources from contributing to contamination in plume areas south of North Street. This capture zone does not, however, control probable source zones that may be present between North Street and the groundwater divide that forms the southern limit of the On-Site Capture Zone.

However, temporal monitoring of groundwater chemistry in wells EN-35 and EN-78 located south of the Railroad Area east of McKinley Avenue suggest there have been times during which capture of the on-site zone may not have been as effective. Temporal trends in TCE-series and TCA-series compounds are shown in chemical concentration plots for these wells in Appendix C-10. VOC concentrations in well EN-35 declined by a factor of 100 times or more from the early 1980s until the early 1990s. VOC concentrations in EN-35 began to increase in the mid-1990s. Concentrations increased at EN-78 to the south of EN-35 about a year before the increase in EN-35. It is believed that these trends are due to declines in the effectiveness of capture in the On-Site Area, which resulted from gradually declining, pumping rates. The replacement of pumping well EN-119 with new pumping well EN-219 in the East Railroad Area in 1997 increased the pumping rate by more than 5 times in that area and the addition of EN-253 to pumping in the West Railroad Area in 2001 increased pumping by about 2 times in that area. Since 1998, concentrations have declined to less than 100 µg/l at both EN-35 and EN-78 and still trend generally downward.

To the east of EN-35/EN-78, wells EN-36 and EN-81 do not have sufficient data to plot temporal trends. Concentrations in these wells were in the 1,000s of µg/l in the early 1980s and are now about 10 µg/l or less. The present low concentrations in these wells do not suggest the presence of significant residual sources beneath Buildings 28, 53 and 25 outside the capture of pumping in the West and East Railroad Area.

3.4.2.2 Off-Site Capture Zone A

Off-Site Capture Zone A includes the North Street Area as previously defined in this report. Within this area there are eight extraction wells operating in the Upper Aquifer as shown on Figure 3-3 and Figure 3-11. One of these wells is actually located on the plant site just north of North Street (EN-276). However, the other seven wells are located at the southern and western limits of this area (the Garfield Avenue cluster (EN-120, EN-160, EN-194) and the Jefferson Avenue well (EN-133)). In the most upgradient portion of this capture zone (the North Street area), it is apparent from Plates 3-13 through

3-19 that the southern limit of onsite capture does not extend far enough in the direction of North Street to exert hydraulic control over apparent source zones located between the railroad and North Street. As a result, there are dissolved concentrations of each of the compounds represented on these plates in the North Street area beyond the control of onsite capture. There is, as discussed previously in this report, some degree of capture of these dissolved constituents by the operation of well EN-276 located just north of North Street. However, the remaining dissolved plumes of these constituents extend beyond the North Street area in a downgradient direction to the interceptor wells that establish this capture zone.

While groundwater elevation and chemistry data in the vicinity of the Jefferson Avenue extraction well indicate that capture of the plume in this direction is complete, there is some question regarding the extent of capture associated with the Garfield Avenue well cluster. In this regard, as shown in particular on Plate 3-14 for TCE, concentrations of this constituent extend to the southeast and south into the Southern Area with a chemical signature that looks somewhat similar to the chemical signature in wells located within Off-Site Capture Zone A. This is apparent on Plate3-10. However, as noted previously in the discussion of the individual isoconcentration contour maps, the concentrations of PCE in monitoring wells EN-215 and EN-214B are not consistent with concentrations of this constituent observed in monitoring wells in Off-Site Capture Zone A or, for that matter, Off-Site Capture Zone B. Furthermore, the concentrations of TCE and c12DCE in monitoring well EN-191 are anomalously high given the location of this well with respect to the Garfield Avenue well cluster. Finally, the concentrations of TCE observed in existing monitoring wells between the Garfield Avenue well cluster and the Adams Avenue well cluster (which controls Off-Site Capture Zone B) are not high enough to generate the observed concentrations in EN-214B or EN-401 (where the highest measured concentration is 230 µg/l). In this regard, Plate 3-14 shows TCE concentrations in wells EN-192 and EN-193 of 46.4 µg/l and 38.1 µg/l, respectively, which are insufficient to generate the concentrations observed in EN-215 and EN-214B (105 µg/l and 110 µg/l, respectively). There is, therefore, either inadequate monitoring density between the Garfield Avenue cluster and the Adams Avenue cluster to observe higher concentrations that may be passing through a potential gap in the hydraulic control exerted by these wells or there is potentially a separate source or sources of contamination located south or southeast of the Garfield Avenue well cluster. If such a source or sources were to exist and affect EN-215 and EN-214B, it would optimally have to be located along the groundwater flow divide that separates these two wells (Plate 3-3). This would place it somewhere in the area bounded by

Washington Avenue on the west, Monroe Street on the north, McKinley Avenue on the east, and Broad Street on the south. Clearly additional effectiveness monitoring will be appropriate in this area to identify the pathway by which VOCs dissolved in groundwater enter the Southern Area, whether from a gap in the capture line associated with the Garfield Avenue well cluster or a local source or sources.

3.4.2.3 Southern Area

Regardless of the outcome of this additional monitoring, at this point it appears that the existing groundwater extraction and treatment systems are not effective in completely preventing dissolved VOCs from reaching groundwater in the Southern Area. As has previously been noted, the calculated groundwater flow past the 815 foot groundwater elevation contour (Plate 3-3) is 37 gpm. At an average concentration of 94 µg/l TCE, this would constitute a flux of approximately 15 pounds per year. As such this constitutes less than one-half of one percent of the roughly 5000 pounds per year removed by all of the groundwater extraction systems at this site. Depending on the concentrations of TCE in the water entering the Southern Area, this may be a relatively low flow of groundwater. Given the maximum concentration of TCE in the Southern Area at EN-401 of 230 ug/l, it is reasonable to assume that the concentrations entering the Southern Area might be at least six times this level, or roughly 1500 µg/l. At this concentration, the total 15 lbs per year of TCE flux could be transported in a flow of just 2.5 gpm.

If instead the source of the dissolved VOCs in the Southern Area is from some more local source, the fact that the TCE flux is on the order of only 15 pounds per year (roughly one and a one-half gallons of TCE per year) makes it entirely plausible that a small source or sources could be responsible for these impacts.

As explained previously, additional effectiveness monitoring will be appropriate in the area south of the Garfield Avenue well cluster, and between this well cluster and the Adams Avenue well cluster to sort out these relationships. However, it should be noted that there are historical records for a printing operation and an auto top and machine company, as well as several dry cleaners in the area bounded by Monroe Street, Washington Avenue, Broad Street, and McKinley Avenue. Furthermore, data from the GVP soil vapor sampling program show that the highest concentration of TCE in soil vapor was

detected at a location within this area and this high TCE concentration was accompanied by vapor concentrations of PCE, c12DCE, and TCA.

3.4.2.4 Off-Site Capture Zone B

Off-Site Capture Zone B corresponds to the Endicott Forging/Ideal Cleaners area. As shown on Plate 3-3, the capture zone associated with this area is created by the operation of the Adams Avenue well cluster comprised of extraction wells EN-185, EN-195, and EN-222. The typical average annual pumping rate for these wells is 25 gpm. The effectiveness of this capture zone is apparent not only from the groundwater elevation contours on Plate 3-3, but also from the bubble map shown on Plate 3-10. As noted previously, the predominant chemical signature in this area is related to the presence of TCE degradation products c12DCE and VC. On Plate 3-10, with the exception of monitoring well EN-193 and extraction well EN-195 on the western end of the Adams Avenue cluster, the chemical signature in Off-Site Capture Zone B is predominated by transformation products c12DCE and VC and is distinctly different from the chemical signature in the Southern Area, which is predominantly TCE. None of the wells in Off-Site Capture Zone B exhibit a signature that comes even close to the general chemical signature associated with the Southern Area. The only exception to this pattern is the chemical signatures in monitoring well EN-170, located between pumping wells EN-195 and EN-185. Plots of the temporal trends in wells EN-195, EN-185, EN-170 and EN-161 (Appendix C-10) show that the chemical signature in EN-195 and EN-185 are very different with EN-195 having generally similar concentrations of TCE, c12DCE and PCE in contrast with EN-185 having low TCE, no PCE and high concentrations of VC, characteristic of Off-Site Capture Zone B. Monitoring well EN-170 has what appears to be a blend of these two signatures. The chemical signature in EN-161 is similar to that in EN-170, which might suggest that the impact at EN-161 may originate from a lack of capture between EN-195 and EN-185. However, no other wells in the Southern Area have a chemical signature similar to EN-161 so that any lack of capture by the Adams Avenue cluster does not appear to extend into the Southern Area.

For wells EN-193 and EN-195, the concentrations of TCE and PCE are too low to account for the concentrations of these two constituents present in EN-215 and EN-214B, let alone the maximum Southern Area concentration of TCE, which is 230 µg/l at EN-401. Furthermore, a groundwater divide separates these wells from EN-215 so it would not be possible for them to be the source of the TCE and particularly the PCE detected in this well.

3.5 Water Supply Wells

As noted previously, there are two water supply well fields operating within the assessment area. These are the Huron Well Field located in the southeastern portion of the assessment area and the Village of Endicott South Street Well Field located in the southwestern portion of the assessment area. The Huron Well Field is operated for industrial supply and the water is not used for potable purposes. On the other hand, the Village of Endicott South Street Well Field water supply is part of the Village of Endicott Department of Water's public water supply system. The following two subsections discuss each of these well fields.

3.5.1 Huron Well Field

Current operations at the Huron Well Field (HWF) involve the use of wells EIT 2, 3, 4, and 5 to supply approximately 500,000 gallons per day for non-potable use at the Huron plant site. As shown on Plate 2-1, Cross Section C-C', the wells in the HWF extend down into the thick wedge of ice contact deposits along the axis of the Susquehanna River Valley from which they produce their water. This cross section also shows that along the north bank of the Susquehanna River, these ice contact deposits are separated from the Upper Aquifer by lacustrine silt. However, as shown on Figure 3-2, the silt is absent just north of this well field due to the presence of an ice block during the deposition of the lacustrine silt in this area. Geologists logs for the EN-309 monitoring well cluster show that Upper Aquifer outwash sediments rest on Lower Aquifer ice contact deposits in this area where the silt is not present, resulting in hydraulic communication between the Lower Aquifer and the Upper Aquifer. The existence of this hydraulic communication is also apparent in the groundwater elevation contours in this area as shown on Plate 3-3 and Figure 3-4. These contours show converging groundwater flow on the EN-309 monitoring well cluster and monitoring well EN-180, where the silt is also absent. Groundwater elevations at these monitoring wells are well below the level of the Susquehanna River which is adjacent to the HWF on the south side.

The HWF wells exhibit low concentrations of TCE, TCA, and PCE. These same constituents are detected in monitoring wells within the Southeastern Subarea, in some cases with a distinct signature associated with predominantly one of these compounds and in other cases a mixture of these compounds. However, in all cases, these VOCs occur in monitoring wells that are associated with groundwater convergence on the depression in the water table associated with the area of hydraulic

communication between the Upper and Lower Aquifers. It is interesting to note that the principal compounds TCA, TCE, and PCE have not been biotransformed to their degradation products before reaching the Lower Aquifer supply wells in the HWF. This is an indication that geochemical conditions in the Lower Aquifer adjacent to the river are not conducive to biochemical transformation of these parent compounds to their daughter products.

3.5.2 Village of Endicott South Street Well Field

The Village of Endicott South Street Well Field (SSWF) is located in the southwestern portion of the assessment area adjacent to the Susquehanna River as shown on Plate 1-2 and Plate 3-10. Plate 3-1, Cross Section C-C', shows that the two production wells in this well field (END-5 and END-28) extend downward into the wedge of ice contact deposits that is aligned along the axis of the Susquehanna River Valley. These wells are essentially completed in ice contact sediments comparable to those encountered in the HWF wells. Cross section C-C' also shows that along the north bank of the Susquehanna River, the lacustrine unit is continuously present between the outwash materials comprising the Upper Aquifer and the ice contact materials comprising the Lower Aquifer. However, as described in the section on geology, the texture of this lacustrine unit may become sandier in the area between McKinley Avenue and the SSWF and, thereby, permit a greater rate of leakance than might otherwise occur between these two aquifers. Typical operation at this well field is to alternate the use of these wells on a daily basis such that END-5 is used one day and END-28 is used the next day. The current daily production from this well field is on the order of 500,000 to 950,000 gallons per day.

As shown on Plate 3-10, trace concentrations of VOCs are detected in each of the South Street wells and in one of two monitoring wells located north to northwest of these supply wells. Logs for these monitoring wells indicate that they are most likely completed in the outwash unit associated with the Upper Aquifer. Of these two monitoring wells, only the one farther to the west exhibits concentrations of dissolved VOCs similar to those detected in the supply wells themselves, but at a much shallower depth.

These VOCs have been detected in the SSWF supply wells for a period of more than 20 years. In this regard, Figures 3-12 and 3-13 present time versus concentration plots for VOCs detected in supply wells END-5 and END-28, respectively. Both of these graphs show that c12DCE and 11DCA have

been present in both wells at concentrations generally well below their respective maximum contaminant levels (MCLs) under the Safe Drinking Water Act (SDWA) for over 20 years. Figure 3-12 also shows that TCA has been present in well END-5 over most of that time period. In a recent sample collected as part of the SGA, a trace of TCE (0.3 ug/l) was also detected in this well. These time versus concentration graphs demonstrate that there has been virtually no change in these concentrations over the entire time period that IBM has been remediating groundwater at this site. This is in spite of the fact that during that 23-year time period, IBM has removed approximately 780,000 pounds of VOCs from the subsurface environment and has substantially reduced concentrations of VOCs in the offsite plume. Therefore, one must conclude that had there been a connection between the plumes that IBM was remediating and the occurrence of these low concentrations of VOCs in the SSWF supply wells, concentrations of these VOCs in the supply wells should have decreased concurrent with the decline in concentrations in the plumes that IBM was remediating. This is just one reason for concluding that the presence of low concentrations of VOCs in the SSWF wells is unrelated to the presence of VOCs in groundwater one-half mile northeast of these wells in the plume IBM has been remediating.

As discussed previously in this report, no flow path exists from the vicinity of the Garfield Avenue well cluster north of Monroe Street to the southwest in the direction of the SSWF wells as had been suggested by D&M for data collected on the September 27, 1980 to produce a groundwater elevation contour map (Plate 3-5). Instead there is and was a consistent groundwater flow divide as shown on Plate 3-3 for current conditions and Plate 3-6 for historical 1980 conditions located parallel to and north of Broad Street which prevented groundwater flow from the northeast to southwest in the direction of the SSWF. Furthermore, neither TCE nor its degradation products have been detected at EN-62 or EN-64, which lie along this previously postulated flow path.

The closest occurrence of TCE in the Southern Area to the SSWF wells is at the former stable well (Plate 3-10) which was a supply well operated by the Village through the mid-1960s. This well is completed in an inordinately thick section of the outwash deposits just above the lacustrine silt. Groundwater chemistry data provided by the Broome County Department of Health for samples collected in the mid-1980s show typical TCE concentrations in this well of 5 µg/l and c12DCE concentrations of 1 µg/l. TCA is not reported as being detected. All cross sections on Plate 3-1, including two that incorporate data from the stable well, show lacustrine deposits to be present between the Upper Aquifer outwash materials and the Lower Aquifer ice contact materials. There is, therefore, a

hydrologic barrier between the closest detection of TCE in the Southern Area at the stable well and the Lower Aquifer ice contact deposits. However, assuming as some investigators have suggested, that the silt is absent between the outwash and ice contact deposits beneath the Susquehanna River in the vicinity of the SSWF and the stable well, two things would have to happen for the concentrations observed at the stable well to be associated with the VOCs detected in the SSWF. The first of these is that the concentration of VOCs in the stable well would have to remain virtually undiluted along any hypothetical transport pathway from this well to the SSWF. This would be necessary since the concentrations in the stable well are not very much greater than those observed in the SSWF. Second, the ratio of TCE to c12DCE in the stable well is 5 to 1, whereas in the public data acquired for the SSWF, and the recent samples collected from these wells, the predominant chemical is c12DCE with TCE being detectable only in END-5 at a level well below the reporting limit. Therefore, along any hypothetical pathway, transformation of the TCE to c1,2-DCE would have to occur.

As noted previously, the average annual groundwater flow rate in the Southern Area is approximately 37 gpm, while the extraction rate from the SSWF ranges seasonally from just under 500,000 gpd to nearly one million gpd (350 gpm to 690 gpm). Flow in the Southern Area is a minor flow compared to the current and historic usage of groundwater from these supply wells. Therefore, simply as a function of dilution, the 5 µg/l of TCE and 1 µg/l of c12DCE in the stable well could not be responsible for the concentrations observed in the SSWF wells. Secondly, with respect to the issue of transformation of TCE to c12DCE between the stable well and the SSWF, there are two points to be made here. First, similar transformations did not occur in the case of the HWF supply wells when TCE and PCE were induced to flow into the Lower Aquifer from the Upper Aquifer. This is shown clearly on Plate 3-10 where the principal constituents, TCE, TCA, and PCE are detected in the supply wells as well as in the Upper Aquifer monitoring wells. The absence of this sort of transformation is an indication that the geochemical conditions in the Lower Aquifer are not conducive to biotransformations by reductive dechlorination, which generally requires sulfate-reducing conditions. Conditions should be comparable at the SSWF. However, as shown on Plate 3-10, transformation products of TCE and TCA are the principal compounds detected in samples from this well field. This is an indication that the transformation of TCE to c1,2-DCE and for that matter the transformation of 1,1,1-TCA to 1,1-DCA (also detected in the SSWF supply wells and in MW-1 at the SSWF) either occurred prior to these VOCs entering the Lower Aquifer or there is some factor causing the geochemical conditions at the SSWF to be different from those at the HWF. Since the chemistry at the stable well is clearly

predominantly untransformed TCE, and the transformations are not occurring in the Upper Aquifer or Lower Aquifer near the HWF, the origin of these VOCs in the SSWF must be from some location where conditions are conducive to such transformations.

As shown on Plate 3-10, a former NYSDEC Inactive Hazardous Waste Disposal Site (No. 704004) entitled the "Old Village of Endicott Dump" is located approximately 700 feet to the north of the SSWF. This 35-acre landfill was reportedly constructed in a swamp area most likely associated with an ice block feature similar to that which permits groundwater from the Upper Aquifer to flow to the Lower Aquifer in the vicinity of the HWF. This landfill was reportedly first operated by the Endicott Johnson Company and, subsequently operated by the Village of Endicott. It currently underlies the Endicott Plaza Shopping Center and property associated with the Snapp Junior High School. Based on conditions common to dumps of this type, it is highly likely that groundwater affected by this landfill would exhibit strongly reducing conditions including the sulfate-reducing conditions necessary to cause biotransformation of TCE to cis12DCE and biotransformation of TCA to 1,1-DCA.

Samples for analysis of parameters indicative of conditions favoring transformation of TCE and TCA were collected from the water supply and monitoring wells at the South Street Well Field (SSWF). These data are tabulated in Table 3-7. The groundwater in the South Street supply wells (END-5, END-28) and adjacent monitoring wells (MW-1, MW-2) shows evidence of having originated from more reducing geochemical conditions than the groundwater found in the Off-site Capture Area A or the Southern Area. Ammonia and manganese concentrations are higher and nitrate is lower in END-5, END-28 and MW-1 than in all the other wells sampled in the Off-site Capture Area A or the Southern Area. Ferrous iron is also generally higher. All four wells in the South Street well field contain dissolved oxygen indicative of oxidizing conditions, but this may reflect mixing resulting from the capture of river water near the well field. Due to the presence of dissolved oxygen, the geochemical conditions in the immediate vicinity of the well field would not be conducive to reductive dechlorination of chlorinated ethenes and ethanes to produce the transformation products found in the pumping wells. However, the elevated ammonia, manganese and iron and low nitrate suggest some part of the groundwater captured by the South Street wells originates in an area of more reducing conditions, such as the Old Village of Endicott Dump, where geochemical conditions would be conducive to reductive dechlorination.

Table 3-7
Transformation Indicator Parameters
Village Water Supply and Monitoring Wells

Parameter	Date	12/16/03	12/17/03	12/16/03	12/16/03
	Well	END-5**	END-28**	MW-1	MW-2
	Lab ID	0311918	0311921	0311919	0311920
	Units				
Alkalinity, total	mg/L	250	227	466	271
Ammonia as N (Undistilled)	mg/L	0.27	0.23	8.26	0.13
Hardness, total	mg/L	360	354	768	624
Total Dissolved Solids	mg/L	492	475	1562	1138
Chloride	mg/L	99.6	115	637	275
Nitrate as Nitrogen	mg/L	<0.014	<0.014	<0.014	5.021
Dissolved Oxygen*	mg/L	4.3	6.7	3.0	5.9
Sulfate	mg/L	32.1	29.5	14.0	47.0
Calcium, total	mg/L	109	103	232	162
Calcium, dissolved	mg/L	89.4	98.5	165	177
Iron, total	mg/L	0.722	0.640	40.8	9.394
Iron, ferrous*	mg/L	0.95	0.25	>3.0	0.09
Magnesium, total	mg/L	17.4	16.9	34.2	28.1
Magnesium, dissolved	mg/L	17.8	16.6	30.4	28.6
Manganese, total	mg/L	0.771	0.649	4.210	0.318
Manganese, dissolved	mg/L	0.790	0.708	4.915	<0.005
Potassium	mg/L	2.12	4.40	6.87	2.72
Sodium	mg/L	47.7	50.0	244	110
Total Organic Carbon	mg/L	1.92	1.59	10.0	1.53
Sulfide, total	mg/L	<0.10	<0.10	<0.10	<0.10
pH*	SU	6.80	7.07	6.07	6.81
Spec. Cond.*	umhos/cm	878	844	2490	1660
Turbidity*	NTU	1.07	17.5	398	339

* Field Measurement
** Phosphate was being injected continuously at the time of sampling; sample results from EN#5 and EN#28 reflect this activity.

Given that monitoring well MW-1, which is located between the supply wells and this dump, also exhibits concentrations of these transformation products, it is reasonable to conclude that the old dump represents a very plausible, if not highly probable, source of daughter products associated with reductive dechlorination of TCE and TCA and that this is a likely source of these VOCs in the SSWF wells.

In 1997 and 1998, a NYSDEC contractor performed a cursory subsurface investigation at the old Village of Endicott Dump. Six monitoring wells were installed generally at depths of less than 20 feet (one extended to a depth of greater than 40 feet). Additionally, samples were collected from six test pits and six surficial samples were collected. On the basis of this cursory investigation and the failure of that investigation to identify the presence of the VOCs detected in the SSWF, the report concluded that

the landfill was not the source of the VOCs in these wells. However, based on the depth of the water supply wells (greater than 150 feet) and the likely communication between the Upper Aquifer and Lower Aquifer within the limits of this landfill due to the absence of suspected lacustrine silt, it seems clear that the monitoring wells installed to evaluate this dump were of insufficient depth and density to support the conclusion that the dump is not the source of VOCs found in the well field.

In addition to this old Village dump, there are other potential sources of contamination potentially upgradient from this well field. These include the presence of the former tannery sewer line that served operations of the Endicott Johnson Company first as an open ditch or creek, and, subsequently, as a constructed sewer line. Publicly available records indicate that the sewer line was constructed in the early 1970s at which time it may have been taken over by the Village of Endicott. Plate 3-10 shows the approximate location of this former tannery sewer and other known or suspected contamination sites believed to be upgradient from the SSWF. These include a voluntary cleanup site just north of the landfill, two other inactive hazardous waste disposal sites, one along North Street and the other along Franklin Street, and the historical operations of two dry cleaners along North Street with the potential to discharge wastewater containing VOCs to sanitary sewer lines leading southward to the SSWF. Plate 3-10 also shows the chemical signature found at EN-63, which although it includes cis12DCE and 11DCA also contains the parent compounds, TCE and TCA. The source of this chemistry in the area between Broad Street and East Main Street is not known. However, it has been persistent for many years initially containing elevated concentrations of TCE.

Finally, as discussed in section 3.3.3.5, the preponderance of existing data supports the conclusion that there is no continuous layer of ice contact deposits extending from the source zones on the Huron Plant Site to the South Street Well Field that would provide a conduit for transport of contaminated groundwater from these source zones to the well field.

These observations make clear that the VOCs in the SSWF are not related to VOCs in plumes that IBM has been remediating to the east and northeast of the SSWF.

3.6 Corrective Action Objectives

Based on the preceding analysis and interpretation of data collected or compiled during the SGA, corrective action objectives have been prepared for the implementation of additional corrective measures at this site. Since there appears not to be a threat to the SSWF supply wells from the plumes that IBM has been remediating, additional corrective measures to protect these wells are not necessary.

There are therefore no objectives for future action to reduce or eliminate such a threat. This leaves two principal goals of the corrective action program. The first is the overall goal of the corrective action program as required by the RCRA permit, which is to attain groundwater standards to the extent practicable. The second is to shrink the plumes of VOCs and in particular TCE, to mitigate concentrations of TCE in soil vapor within the limits of ventilation shown on Figure 3-14 on which the TCE concentration contours have also been transcribed. Simply stated, this objective is as follows:

> Reduce, as quickly as practicable, groundwater concentrations south of North Street to within New York State 6NYCRR Part 703 groundwater standards in order to reduce potential soil vapor impacts. This will be accomplished by the following actions:
>
> i) Continue to control the source(s) of groundwater contamination in the Railroad Areas within the On-site Capture Zone and enhance this control as appropriate.
>
> ii) Control and/or treat the groundwater flux crossing North Street.
>
> iii) In conjunction with i) and ii), accelerate the rate of reduction of the plume south of North Street.

The overall objective of these actions will be to reduce the mass of TCE in groundwater within Off-Site Capture Area A and the Southern Area by 50% in five years and by 80% in ten years.

4 SCREENING AND EVALUATION OF CORRECTIVE MEASURES TECHNOLOGIES

This section presents the screening and evaluation of corrective measures technologies as they may apply to the attainment of the corrective action objectives. The conclusions of this screening process are that:

1) vacuum-assisted groundwater extraction and treatment has been selected as the technology to be evaluated for enhancing the existing source control in the On-site Capture Zone;

2) vacuum-assisted groundwater extraction has been selected as the principal technology to be applied to flux control at North Street, with reactive barrier walls and in situ chemical oxidation reserved as contingent technologies for areas not controlled by or suitable for groundwater extraction; and

3) groundwater extraction combined in places with reinjection of treated groundwater (water addition) has been selected as the technology to be applied to the reduction of plume areas.

4.1 Screening of Technologies

Various technologies are potentially practicable for application to the three remedial action components for the site. They have been screened and considered for further evaluation based on the following criteria:

1. Demonstrated reliable effectiveness in achieving groundwater cleanup objectives at full field-scale at other sites under comparable conditions.
2. Implementable under the conditions at this site.
3. Effectiveness in achieving groundwater cleanup objectives can be monitored for control technologies and is predictable for treatment technologies.

For each of these criteria, a ranking of YES, NO or UNCERTAIN has been applied. A technology must generally score YES for all three criteria in order for the technology to be considered for further evaluation. One exception would be the case where the score of UNCERTAIN under the Implementability Criterion could be refined by collection of further design data or preliminary design calculations. In such cases, the technology will be retained for further evaluation. Another exception may be the case where the score of UNCERTAIN was given under the criterion Demonstrated Effective

at Other Sites because the specific technology has been applied at very few sites but may hold objective promise.

4.1.1 Corrective Action Component 1: Source Control / Treatment / Removal

The first component of the corrective actions deemed appropriate to achieve the corrective action objectives is to maintain and, as appropriate, enhance control/treatment/removal of source zones adjacent to the Railroad Areas east and west of McKinley Avenue. Technologies to provide source control are screened in Table 4-1a. Although the operation of the existing extraction wells has already established hydraulic control of these source zones, screening of technologies to treat or remove these source zones is presented in Table 4-1b. As concluded in this screening analysis, it is not considered to be practicable to remove or treat in place these source zones to levels (i.e low µg/l) that would replace the need for on-going hydraulic control. This is due to a number of factors generally applicable to DNAPL source zones and some specific to this site. These include: the impracticability of locating all of the DNAPL source material at sites with complex geology and substantial DNAPL in the ground (a general phenomenon at sites with significant DNAPL contamination), the inaccessibility of the known areas with DNAPL present (i.e., the presence of DNAPL beneath the railroad corridor), and the lack of demonstrated effectiveness of new technologies to sufficiently reduce concentrations in groundwater to sufficiently low levels.

On this last point, none of the remedial technologies for treatment of the source(s) are considered to have been reliably demonstrated to be capable of achieving the required groundwater cleanup objectives for the DNAPL source zones present at this site. The present-day issues related to the cleanup of DNAPL source zones are described by Stroo et al. (2003) in a recent feature article entitled "Remediating Chlorinated Solvent Source Zones" in the journal Environmental Science & Technology, v. 37, no. 11, p. 224A-230A. This article was prepared by members of an expert panel[1] workshop on

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[1] The panel included leaders in the field of environmental remediation: Linda Abriola, Frank Chapelle, Randal Charbeneau, Evan Cox, David Dzomback,Carl Enfield, James Gossett, Robert Hinchee, Joseph Hughes, Paul Johnson, Richard Johnson, Michael Kavanaugh, Perry McCarty, Doug Mackay, James Mercer, Cass Miller, Dennis Paustenbach, William Rixey, Robert Siegrist, Hans Stroo, Thomas Simpkin, Kent Udell, and Herb Ward.

"Research and Development Needs for Cleanup of Chlorinated Solvent Sires" commissioned by the Strategic Environmental Research and Development Program [SERDP] which operates on behalf of the U.S. Environmental Protection Agency [USEPA], the Department of Energy [DOE] and the Department of Defense [DOD].

The article presented some of the results of recent demonstrations of various source treatment technologies such as surfactant flushing, co-solvent flushing, in situ air sparging, in situ oxidation and six-phase heating at research sites such as the Sage's Cleaners site in Jacksonville, Florida, Dover Air Force Base and Cape Canaveral. The study concluded "that controlled field tests performed on innovative source treatment technologies yielded mixed results. Losses of greater than 90% of the source DNAPL have been measured at some sites, but 50-70% is more typical. As a result, there is considerable uncertainty regarding the efficacy of these technologies in terms of mass removal, mass loading to dissolved plumes, risk reduction, lowering the ultimate cleanup costs, or speeding up site restoration".

These field tests were some of the most intensively studied and monitored field trials ever conducted in the environmental research community. What was not presented in this article, but what can be found with some effort in the other documents related to these field trials, were the groundwater concentrations emanating from the source zones before and after these controlled field tests. In some cases, there was no measurable reduction in groundwater concentrations and in all cases groundwater concentrations remained in the 100,000s µg/l range for TCE sources and 10,000s µg/l for PCE sources, many orders of magnitude greater than groundwater cleanup standards. It must be noted that long-term monitoring of the groundwater concentrations over periods of years or more either was not, or could not, be performed for most of these field trials.

The trial with the longest post-remediation monitoring appears to be a co-solvent flushing remediation at Sage's Cleaners near Jacksonville, Florida. At this site, pre-remediation PCE concentrations in groundwater were about 49,000 µg/l and post-remediation concentrations have ranged between 20,000 and 30,000 µg/l for 4 years since remediation although the mass removal from the DNAPL source zone from the co-solvent flush was estimated to be 62 to 65% (USEPA Technology News and Trends, July, 2003).

The trial of co-solvent flushing at the Dover Air Force Base site in Delaware had pre-remediation PCE concentrations of 80,000 µg/l and post-remediation concentrations of 15,000 µg/l (USEPA Technology News and Trends, May, 2003) despite an estimated 65% mass removal from the source zone.

At Cape Canaveral, the Interagency DNAPL Consortium sponsored by DOE, USEPA, DOD and NASA performed remediation trials of a TCE DNAPL zone using in situ oxidation and six-phase heating. For the in situ oxidation using permanganate, average TCE concentrations in groundwater were 825,000 µg/l pre-remediation and 115,000 µg/l post-remediation despite an estimated 62 to 84% mass removal from the source zone. For the six-phase heating trial, average TCE concentrations were 950,000 µg/l pre-remediation and 675,000 µg/l post-remediation despite an estimated 90% mass removal from the source zone (Seventh Interim Report on the IDC Demonstration at Launch Complex 34, Cape Canaveral Air Station, report to Interagency DNAPL Consortium, August 15, 2001).

Given the lack of demonstrated effectiveness in achieving low level cleanup objectives in any of these closely monitored trials, all of these technologies have been rated "No" in Table 4-1b in the column labeled "Demonstrated Effectiveness at Other Sites". Furthermore, using the groundwater concentration criteria for this site, none of these trials would have led to the discontinuation of the operation of groundwater extraction wells to maintain hydraulic control in the railroad area.

The following tables present the screening of technologies for this component of the corrective action plan.

Table 4-1a. Screening of Source Control Technologies

Control Technology	Demonstrated Effectiveness at Other Sites	Implementable at this Site	Effectiveness Predictable or Can be Monitored
Groundwater Extraction from Vertical Wells with Vacuum Assist Provides hydraulic capture of groundwater chemical flux emanating from the source zone. Provides a degree of mass removal that is directly proportional to the rate of dissolution of VOCs from the source zone and typically enhances the rate of removal	YES This is the most commonly used technology to control source zones at DNAPL sites.	YES Currently underway in Railroad Area. This technology has been used at the site to control the source and remove over 750,000 pounds of VOCs from these source zones.	YES Control can be assessed by on-going groundwater monitoring downgradient and remedy modified if appropriate. Mass removal can be calculated directly from pumping rate and groundwater chemistry.

Table 4-1a. Screening of Source Control Technologies			
Control Technology	**Demonstrated Effectiveness at Other Sites**	**Implementable at this Site**	**Effectiveness Predictable or Can be Monitored**
by drawing additional water through the source area.			
Low-Permeability Barrier Walls Slurry wall, steel sheet pile, concrete wall enclosures around source zones. Require groundwater pumping inside enclosure.	YES Provided that location of source is known precisely and barriers are located to enclose all of the source.	NO Location of source(s) in Railroad Area and between railway and North Street cannot be determined precisely. The accurate and complete delineation of DNAPL source zones is essential, but not practicable at this site. The presence of underground utilities, structures and railway corridor will make construction difficult and may restrict proper placement of barriers.	YES Control can be assessed by on-going groundwater monitoring downgradient of barrier wall enclosure. Pumping from within the enclosure can be increased if necessary.

Table 4-1b. Screening of Source Removal or Treatment Technologies			
Treatment or Removal Technology	**Demonstrated Effectiveness at Other Sites**	**Implementable at this Site**	**Effectiveness Predictable or Can be Monitored**
Excavation Physical removal of source material.	NO Complete delineation and removal of source(s) is seldom possible for large DNAPL sources. Unless virtually all of the DNAPL is removed, unacceptable flux from the source continues to be present.	NO Location of source(s) in Railroad Area and between railway and North Street cannot be determined precisely. The accurate and complete delineation of DNAPL source zones is not practicable at this site. The presence of underground utilities, structures and railway corridor makes complete excavation impracticable.	NO Complete delineation and removal is not predictable.
DNAPL Recovery Pumping, water flooding or polymer flooding of DNAPL pools.	NO DNAPL recovery removes only potentially mobile free-phase DNAPL. Substantial quantity of residual DNAPL will remain and groundwater cleanup objectives cannot be achieved with this technology.	NO There is no current evidence of mobile free-phase DNAPL accumulations in any wells. Pumping of DNAPL for many years has depleted the mobile DNAPL and dissolved much of the residual phase DNAPL.	NO Groundwater cleanup objectives cannot be achieved with this technology.
Soil Vapor Extraction / Air Sparging Treatment of vadose zone and vapors released by air sparging.	NO Cleanup of DNAPL source zones to groundwater cleanup objectives required here has not been demonstrated reliably. See issues in Stroo et al. (2003).	UNCERTAIN The saturated thickness of the shallow aquifer is only a few feet providing little opportunity for air sparging but soil vapor extraction could be implemented. Further dewatering could be achieved by vacuum-enhanced groundwater pumping. Location of source(s) in Railroad Area and between railway and North Street cannot be determined precisely. The accurate and complete delineation of DNAPL source zones may not be practicable at this site. The presence of underground utilities, structures and railway corridor will make construction difficult and may restrict proper placement of wells.	NO Groundwater cleanup objectives unlikely to be achieved because the source zone(s) extend into the underlying silt unit and under the railroad corridor.

Table 4-1b. Screening of Source Removal or Treatment Technologies			
Treatment or Removal Technology	**Demonstrated Effectiveness at Other Sites**	**Implementable at this Site**	**Effectiveness Predictable or Can be Monitored**
Surfactant Flushing Increased mobility of DNAPL and dissolution for removal by pumping.	NO Cleanup of DNAPL source zones to groundwater cleanup objectives required here has not been demonstrated reliably. See issues in Stroo et al. (2003).	NO Configuration of injection and withdrawal wells must be precise to effectively flood the entire source zone while maintaining hydraulic control around the perimeter. Placement of wells in the appropriate locations will be made difficult by presence of underground utilities, structures and railway corridor.	NO Groundwater cleanup objectives unlikely to be achieved because the source zone(s) extend into the underlying silt unit.
Co-Solvent Flushing Increased mobility of DNAPL and dissolution for removal by pumping.	NO Cleanup of DNAPL source zones to groundwater cleanup objectives required here has not been demonstrated reliably. See issues in Stroo et al. (2003).	NO Configuration of injection and withdrawal wells must be precise to effectively flood the entire source zone while maintaining hydraulic control around the perimeter. Placement of wells in the appropriate locations will be made difficult by presence of underground utilities, structures and railway corridor.	NO Groundwater cleanup objectives unlikely to be achieved because the source zone(s) extend into the underlying silt unit.
Oxidation In situ destruction by injection of permanganate or peroxide reagents	NO Cleanup of DNAPL source zones to groundwater cleanup objectives required here has not been demonstrated reliably. See issues in Stroo et al. (2003). Permanganate effective for ethenes but ineffective for ethanes.	NO Configuration of injection and withdrawal wells must be precise to effectively flood the entire source zone while maintaining hydraulic control around the perimeter. Placement of wells in the appropriate locations will be made difficult by presence of underground utilities, structures and railway corridor.	NO Groundwater cleanup objectives unlikely to be achieved because the source zone(s) extend into the underlying silt unit and beneath the railroad corridor. Permanganate will predictably be effective for ethenes but ineffective for ethanes.
Enhanced Biodegradation Addition of electron acceptors to enhance reductive dechlorination.	NO Cleanup of DNAPL source zones to groundwater cleanup objectives required here has not been demonstrated reliably. See issues in Stroo et al. (2003).	UNCERTAIN Considerable time would be required to provide complete degradation of the mass in the DNAPL source zone while maintaining hydraulic control around the perimeter.	NO Although the effectiveness of this technology can be monitored, attainment of groundwater cleanup objectives is not predictable.

Table 4-1b. Screening of Source Removal or Treatment Technologies			
Treatment or Removal Technology	**Demonstrated Effectiveness at Other Sites**	**Implementable at this Site**	**Effectiveness Predictable or Can be Monitored**
Steam Flooding Steam injection for mobilization and vaporization for removal by pumping and soil vapor extraction.	NO Cleanup of DNAPL source zones to groundwater cleanup objectives required here has not been demonstrated reliably. See issues in Stroo et al. (2003).	NO Configuration of injection and withdrawal wells must be precise to effectively flood the entire source zone while maintaining hydraulic control around the perimeter. Placement of wells in the appropriate locations will be made difficult by presence of underground utilities, structures and railway corridor.	NO Groundwater cleanup objectives unlikely to be achieved because the source zone(s) extend into the underlying silt unit and beneath the railroad corridor.
In Situ Heating In situ destruction and vaporization for soil vapor extraction by direct thermal, electrical or radio-frequency heating.	NO Cleanup of DNAPL source zones to groundwater cleanup objectives required here has not been demonstrated reliably. See issues in Stroo et al. (2003).	NO Configuration of heating sources and vapor extraction wells must be precise to effectively treat the entire source zone while maintaining hydraulic control around the perimeter. Placement of wells in the appropriate locations will be made difficult by presence of underground utilities, structures and railway corridor.	NO Although the effectiveness of this technology can be monitored, attainment of groundwater cleanup objectives is not predictable.

Groundwater extraction with vacuum enhancement is the only source control technology that has been retained for further evaluation. None of the source treatment technologies has been retained for further evaluation.

4.1.2 Corrective Action Component 2: Flux Control/Treatment

This component of the corrective action plan deals with the groundwater chemical flux that is not captured by the operation of on-site extraction wells as discussed in Section 4.1.1. Control of this flux across North Street is an essential component of the corrective actions appropriate to achieve the corrective action objectives. The isoconcentration contour maps presented on Plates 3-13 to 3-19 show that constituents of interest are contained in groundwater crossing North Street within Off-site Capture Zone A. To the extent that this groundwater chemical flux is related to the occurrence of these same VOCs in groundwater south of North Street, control or treatment of this flux will be important to the attainment of the corrective action objectives.

The matrix in Table 4-2a screens the available corrective action control technologies that may be applicable to the control or treatment of groundwater chemical flux across North Street based on the three criteria presented above.

Table 4-2a. Screening of Flux Control Technologies

Control Technology	Demonstrated Effectiveness at Other Sites	Implementable at this Site	Effectiveness Predictable or Can be Monitored
Groundwater Extraction from Vertical Wells with Vacuum Assist Hydraulic capture of flux crossing North Street. Some degree of mass removal.	YES	YES Currently creating three capture zones both on and off the plant site.	YES Control can be assessed by on-going groundwater monitoring downgradient and remedy can be modified if appropriate. Mass removal can be calculated directly from pumping rate and groundwater chemistry.
Low-Permeability Barrier Walls Slurry wall, steel sheet pile, concrete wall enclosures around source zones. Require groundwater pumping inside enclosure.	NO Used where practicable to enclose source zones. Not used to intercept groundwater chemical flux.	NO Impraticable to enclose area within which flux crosses North Street. Installation of a single-wall instead of a full enclosure would be ineffective. Locations of buried utilities and remnant structures would make construction difficult. Groundwater would flow around a partial enclosure and, therefore, groundwater pumping upgradient of the wall would be necessary rendering no benefit from the wall itself.	YES Control can be assessed by on-going groundwater monitoring downgradient of barrier wall enclosure.

Table 4-2b. Screening of Flux Treatment Technologies

Treatment Technology	Demonstrated Effectiveness at Other Sites	Implementable at this Site	Effectiveness Predictable or Can be Monitored
Reactive Barrier Walls Continuous walls or funnel-and-gate configurations. Treatment of plume by iron-media.	YES Control of plumes is the principal application of iron reactive barriers.	UNCERTAIN The high concentrations in narrow plume zones would require long treatment zones to achieve groundwater cleanup objectives. Long treatment zones may be impracticable for construction of continuous walls at depths of 25 ft below ground surface. Vibration control during construction will be important to sensitive manufacturing operations on the Huron site. The presence of underground utilities and remnant structures (e.g., foundations of demolished buildings) may make construction of continuous walls or funnel-and-gate configurations practicable in limited areas. Implementability of this technology will be highly dependent on the location at which it is to be applied.	YES All of plume passes through treatment zone. Predictions of reaction rates on iron-media are sufficiently reliable for design of treatment zone. Control can be assessed by on-going groundwater monitoring downgradient of reactive barrier zones.
In situ Chemical Oxidation (ISCO) Treatment of plume by addition of chemical oxidants: permanganate or peroxide.	UNCERTAIN In situ oxidation has been most frequently applied to NAPL source zones rather than plumes. Permanganate effective for ethenes but ineffective for ethanes.	UNCERTAIN The high concentrations, small saturated thickness of the aquifer and narrow plume zones and low oxidant consumption rate of the natural soils at this site are well-suited to this technology. There will be uncertainty in the delivery and distribution of oxidant reliably across the width of the plume.	YES Provided that oxidant contacts all of the plume, reactions are predictably almost instantaneous for ethenes. Results can be monitored in downgradient wells.
Enhanced Bioremediation Treatment of flux by addition of amendments for enhanced biodegradation by reductive dechlorination.	UNCERTAIN Degradation is frequently incomplete, resulting, in this case, in the potential to increase vinyl chloride concentrations in downgradient areas.	NO Considerable time would be required to provide complete degradation of the mass in the plume so that concentrations may exceed objectives for a considerable distance downgradient and increased concentrations of vinyl chloride are likely to occur without subsequent oxidation farther downgradient.	UNCERTAIN Rate of flux treatment cannot be predicted reliably but can be determined by on-going groundwater monitoring. Final treatment concentrations and distances downgradient cannot be predicted reliably.

Table 4-2b. Screening of Flux Treatment Technologies			
Treatment Technology	**Demonstrated Effectiveness at Other Sites**	**Implementable at this Site**	**Effectiveness Predictable or Can be Monitored**
In Situ Air Sparging with Vapor Extraction Treatment of flux by air sparging and vapor extraction.	UNCERTAIN Typically used for source zone remediation and demonstrated effective for petroleum releases. Some application as a flux control technology.	NO The low saturated thickness of the Upper Aquifer at North Street and the moderate to high hydraulic conductivity insure short-circuiting of air flow to the vadose zone making this technology ineffective.	UNCERTAIN Final treatment concentrations cannot be predicted reliably. Lateral continuity of treatment zone cannot be reliably predicted even if closely-spaced injection wells are used.

In completing this screening, any technology that will result in the formation of other chlorinated compounds in groundwater, such as vinyl chloride, has been rejected. Based on this screening of technologies, groundwater extraction and treatment has been retained for further evaluation as the principal technology to be applied to flux control. Two treatment technologies have been retained for further evaluation as contingent technologies to be evaluated for application to flux treatment in areas where groundwater extraction potential may be limited. These are: 1.) reactive barrier walls using iron media and 2.) in-situ chemical oxidation using permanganate.

4.1.3 Corrective Action Component 3: Plume Reduction/Treatment

The third component of the corrective actions to be taken to meet the corrective action objective is those measures to be implemented to reduce the size of the plume south of North Street and the concentrations of VOCs contained therein. While the interception of flux at North Street will have an effect on these concentrations (to the extent they are related and the measures can be practicably implemented), direct actions to reduce the plume size and concentrations in the area south of North Street will be appropriate. Tables 4-3 presents a screening matrix for the technologies that may apply to this component of the corrective action.

Table 4-3. Screening of Plume Reduction / Treatment Technologies			
Removal Technology	**Demonstrated Effectiveness at Other Sites**	**Implementable at this Site**	**Effectiveness Predictable or Monitorable**
Groundwater Extraction from Vertical Wells with Vacuum Assist Accelerates rate of aquifer flushing. Removes mass from the plume.	YES This is the most commonly used technology for the reduction and control of plumes.	YES Implementable where the saturated thickness and hydraulic conductivity of the Upper Aquifer are sufficient to support	YES Rate of aquifer flushing cannot be predicted reliably but can be determined by on-going groundwater monitoring. Additions and

Table 4-3. Screening of Plume Reduction / Treatment Technologies			
Removal Technology	**Demonstrated Effectiveness at Other Sites**	**Implementable at this Site**	**Effectiveness Predictable or Monitorable**
		groundwater extraction from vertical wells.	modifications can be made readily based on this monitoring.
Water Addition by Infiltration or Injection Accelerates flushing of aquifer. Introduction of clean water at the water table may also suppress upward migration of vapors to vadose zone.	YES Spray irrigation has been successfully used at another comparable site to accelerate the flushing of VOCs from a plume in a sand and gravel aquifer.	YES Clean water can be introduced via injection wells or infiltration galleries depending on the location and the space limitations.	YES Rate of aquifer flushing cannot be predicted reliably but can be determined by on-going groundwater monitoring.

Table 4-3. Screening of Plume Reduction / Treatment Technology			
Treatment Technology	**Demonstrated Effectiveness at Other Sites**	**Implementable at this Site**	**Effectiveness Predictable or Monitorable**
Enhanced Biodegradation via Reductive Dechlorination Addition of amendments by injection to enhance natural biodegradation processes throughout the plume.	UNCERTAIN Distribution of amendments over a large plume area has not been frequently applied. Degradation is frequently incomplete leading to increased vinyl chloride concentrations.	NO Amendments can be introduced via injection wells or infiltration galleries. Shallow aquifer is oxidizing and not conducive to reductive dechlorination. Sufficient amendments must be added over large areas to create and maintain reducing conditions. Thorough mixing with groundwater will be impracticable. Increased vinyl chloride concentrations would occur.	YES Rate of plume treatment cannot be predicted reliably but can be determined by on-going groundwater monitoring.

In completing this screening, any technology that will result in the formation of other chlorinated compounds in groundwater, such as vinyl chloride, has been rejected. The plume reduction / treatment technologies that have been retained for further consideration are: 1) groundwater extraction and treatment, and 2) water addition.

4.2 Evaluation of Potentially Applicable Technologies

This subsection provides further evaluation of the potentially applicable technologies identified by the screening process. The following subsections will evaluate each of these technologies in terms of their applicability to the site.

4.2.1 Groundwater Extraction and Treatment

Groundwater extraction and treatment has been identified as the leading applicable technology for all three components of corrective actions appropriate to attain the corrective action objective. This technology has already been applied successfully at this site to provide hydraulic control of source areas adjacent to the railroad on the plant site as well as in the western plant area. It has also demonstrated effectiveness in controlling groundwater chemical flux in the North Street Area and, on the basis of existing data, it has created two off-site capture zones.

In spite of its successes, the principal limitation to the use of this technology at the site is the low saturated thickness of the Upper Aquifer in some places where the technology has been employed. There have also been difficulties in maintaining extraction wells due to encrustation of the screens and the resultant need for well rehabilitation. Both of these problems can be addressed by using the vacuum assist approach demonstrated during the aquifer tests performed as part of the SGA. This approach permits the well to be screened in the bottom one-third to one-half of the aquifer so that the pump intake is set at the top of the screen. The vacuum assist then increases the available drawdown by as much as eighteen feet. Otherwise, available drawdown would be limited to fewer than ten feet nearly everywhere in the assessment area. Having the pump intake at the top of the screen insures that the screen itself is never dewatered. This helps with the encrustation problem, since the liberation of carbon dioxide from the water as it cascades into a conventionally constructed well that screens the entire aquifer raises the pH and causes calcium carbonate to precipitate on the screen.

The use of this technology with appropriate enhancements can be applied to any of the components of the corrective action plan. This would include reconstruction or replacement of existing extraction wells where these improvements would aid in accelerating cleanup or providing more assured capture of groundwater flow.

4.2.2 Reactive Barrier Walls Using Iron Media

This technology has been identified as being potentially applicable only as a contingent technology to the control or treatment of flux across North Street where the effectiveness of groundwater extraction is limited. As such, it would have to be relied upon to provide in situ treatment of primarily TCE and its degradation products, as well as TCA and its degradation products.

Several dozen reactive barrier walls with iron-media have been installed at sites in the United States, Canada and Europe. In the majority of these cases, the combination of groundwater velocity, contaminant concentration and treatment target were such that the thickness (i.e. downgradient length) of the treatment zone ranged from 2 feet to 4 feet. In contrast to most previous applications, the groundwater velocity and TCE concentrations in the North Street Area are relatively high and the treatment target is very low. Based on a degradation half-life of 3 hours (typical from other sites), a groundwater velocity of 3 feet/day, an influent TCE concentration of 17,000 µg/l and a treatment target of 1 µg/l for TCE, a nominal thickness of 6 feet would be required for a reactive barrier wall. This nominal thickness does not take into account differences in reaction rates for different iron mixtures or the formation of some proportion of c12DCE and VC, which may have slower reaction rates. These factors may result in the need for thicker treatment zones and must be established by site-specific bench-scale testing. In addition, the nominal thickness calculated here does not incorporate a "factor of safety" to account for the possibility of higher groundwater velocity or contaminant concentrations. The overall outlook is that a reactive barrier wall in the North Street area would likely need to be in the range of 6 to 10 feet in thickness. Treatment zones of this thickness will pose substantial challenges to construction in this area because the use of sheetpiling will be precluded due to vibration-sensitive manufacturing operations in the Huron building across the street. Furthermore, the parking lot areas south of North Street have been constructed on properties that were formally residential or small commercial properties. There is a high likelihood that the foundations and basement slabs remain in place from these structures, which would clearly complicate the controlled excavation for a treatment wall. This technology has been retained solely as a contingent technology that would require collection of substantial additional design data before it could be applied, if at all, at the site. This technology is not being incorporated in the plan presented in Section 5 as anything other than a contingent technology that may be evaluated further after the full effectiveness of groundwater extraction has been applied to the control of flux across North Street.

4.2.3 In Situ Chemical Oxidation Using Permanganate

In situ chemical oxidation (ISCO) with permanganate has been identified as a potentially applicable contingent technology only in the North Street Area for control of groundwater chemical flux. In considering this technology, the issue will not be the permanganate needed to consume the TCE. Even at 10,000 ug/l, the TCE flux will be only about 250 grams per day. If the permanganate solution can be mixed efficiently in the water, the permanganate demand would be only about 2.5 times the TCE mass, i.e., fewer than a few pounds per day. The difficulty is in mixing the permanganate in the roughly 6700 gallons per day of groundwater that contains the TCE such that the TCE is in contact with a high enough concentration of permanganate to cause the oxidation reaction to occur. In order to accomplish this outcome, it is necessary to efficiently mix the permanganate solution with the groundwater containing the TCE. This can best be done in a thin aquifer such as the Upper Aquifer in the North Street Area by creating a substantial density difference between the permanganate solution and the groundwater such that when applied at the water table, the permanganate solution will penetrate into and mix with the groundwater in the saturated zone. To create this density difference, the permanganate solution must contain 5-20 g/l of permanganate. This is much more than will be consumed by the oxidation of the TCE or, for that matter, the oxidant demand of the aquifer solids, which in any event will be a one-time demand. There are therefore two limitations to the use of this technology. One is the excess permanganate that will be injected into the aquifer. Given the low oxidant consumption rate of the aquifer solids, the low consumption by the TCE itself and the long-term need for this technology to be employed to treat flux across North Street, it seems there will eventually be a great deal of unconsumed permanganate being transported through the Upper Aquifer downgradient of North Street. The second limitation has to do with the byproduct of this treatment regimen. Colloidal manganese dioxide is generated in the aquifer as a result of the oxidation of the TCE. This colloidal material may be highly mobile in the sand and gravel units in this aquifer. If this treatment technology were used upgradient from an extraction well, there would be the clear potential to create an additional treatment requirement for the groundwater extracted by that well to remove the colloidal manganese prior to discharge. This technology is not being incorporated into the plan presented in Section 5 as anything other than a contingent technology that may be evaluated further after the full effectiveness of groundwater extraction has been applied to the control of flux across North Street.

4.2.4 Water Addition

The addition of water into the aquifer has been identified as a potentially applicable technology only for the plume reduction / treatment component of the corrective actions. Use of this technology could be applied to accelerating the rate of flushing of the aquifer as well as potentially developing a layer of relatively clean water at the water table to reduce the potential for volatilization of VOCs from groundwater to the vadose zone. The major difficulty associated with injecting water using vertical wells is insuring that the injected water is geochemically compatible with the formation water such that there are no reactions at the interface between the two (the well screen) that would cause the precipitation of solids that might clog the well. The use of air stripping to remove VOCs from extracted groundwater could cause such an incompatibility by stripping out carbon dioxide and raising the pH of the water. Injection of water treated in this manner might then cause conditions in the aquifer to change, resulting in precipitation of otherwise soluble metals. The current treatment regimen for extracted groundwater (aqueous phase granular activated carbon) would not cause this change to occur. Therefore, groundwater currently extracted by existing wells or additional wells installed for corrective action might be a viable source for water that could be added to the aquifer.

The other manner in which water could be added to the aquifer would be through infiltration galleries or seepage beds or by spray irrigation. Space limitations will likely restrict the use of these methods, but where space to construct them is available, they could be considered.

5 RECOMMENDATION AND JUSTIFICATION OF CORRECTIVE MEASURES

This section presents the recommended corrective measures that have been determined to be appropriate to attain the corrective action objectives as described in this report. For some of the recommendations made in this section, there is sufficient data available to recommend immediate implementation. For other corrective measures that form part of these recommendations, collection of additional design data and pilot testing is appropriate before the location and scope of their application to this problem can be defined to the point of implementing them.

The overall strategy for implementation of the corrective action plan is to:

1) Maintain and enhance, to the extent practicable, the On-Site Capture Zone to continue to control flux from the railroad area sources and to maximize control by on-site wells of chemical flux south of the railroad.

2) Fast-track the startup of groundwater extraction from test well EN-284TD to begin immediately to control flux across North Street, to reduce the plume area south of North Street and to eliminate or substantially reduce, to the extent that it may be occurring, mass flux from On-Site Capture Zone A to the Southern Area.

3) Begin immediately to collect data appropriate to design and implement additional corrective measures selected to further accelerate plume reduction in the Southern Area and fast-track the implementation of those additional actions.

4) Begin immediately to monitor the effectiveness of additional corrective measures as they are implemented and to select additional locations at which such monitoring will occur.

The details of this strategy are contained in the following three subsections. The first presents the recommended corrective measures to be implemented in attaining the corrective action objectives, the second presents a justification for these corrective measures, and the third presents the design data collection and effectiveness monitoring requirements. Recommendation of Corrective Measures

In this subsection, corrective measures are being recommended for each of the corrective action components of the overall approach to attaining the corrective action objectives. Component 1 is source control in the vicinity of the railroad, Component 2 is flux control at North Street, and Component 3 is

reduction of plumes south of North Street. Reference should be made to Plate 5-1 for the elements of this corrective action plan.

5.1.1 Corrective Action Component 1: Source Control

As noted previously in this report, the ongoing operation of extraction wells on the plant site along the railroad has created an on-site capture zone. This capture zone prevents groundwater chemical flux from source zones in the vicinity of the railroad to dissolved VOCs in the area south of North Street. This on-site capture zone also provides some measure of control over groundwater chemical flux from areas between North Street and the railroad. Given these substantial benefits derived from the operation of on-site wells, the maintenance and enhancement, as appropriate, of this on-site source control is an important element in the overall plan of corrective action.

During the past year, IBM voluntarily initiated a review of all groundwater extraction and treatment systems on and off the plant site to determine measures that might be taken to improve or upgrade their operation and functionality. That assessment, which was not part of the SGA work scope, has been completed and the report was submitted to NYSDEC on April 30, 2004. In addition to other components of the existing systems, that assessment included the installation and testing of a vacuum-assisted test well in the vicinity of EN-25 and EN-118. As shown in that report, vacuum-assisted extraction may provide significant improvement in the efficiency of hydraulic control and mass removal in the railroad area source zones. The recommendations of that assessment call for the test well to be operated for a period of 6-8 weeks as a full operational test of the technology.

5.1.2 Corrective Action Component 2: Flux Control At North Street

The principal technology that has been identified as being potentially applicable to the control of groundwater chemical flux across North Street is vacuum-assisted groundwater extraction and treatment. Based on the results of aquifer testing performed during the SGA, this technology is ready for immediate fast-track implementation at this site. This is the operation of EN-284TD as a groundwater extraction location, which has the potential to control virtually all of the groundwater chemical flux across North Street in the Upper Aquifer. As shown in Section 3, when operating together with the extraction wells at the Garfield Avenue cluster and competing with the extraction well at EN-133, the operation of EN-284TD for a period of just over a month produced gradient reversal

extending as far west as Washington Avenue and established a capture zone (together with the Garfield Avenue well cluster) that extends as far east as the boundary of the area referred to in this report as the Endicott Forging/Ideal Cleaners Area.

The potential application of the two other technologies, a reactive barrier wall using iron media and in-situ chemical oxidation (ISCO) using permanganate, will be considered in the event that the operation of EN-284TD and other extraction wells that may be added to control this flux would not be capable of fully controlling flux in this area. The application of either of these technologies would require additional design data and testing along North Street, to permit the full evaluation of their applicability and the ultimate need for their application to this site. In this regard, these technologies are proposed to be used only to the extent that they can address flux across North Street that is not captured by the operation of groundwater extraction systems. Due to construction limitations associated with existing structures, the maximum extent of a reactive barrier wall would be over a one-block distance east and west of the intersection of Grant Avenue and North Street where, with the exception of one building, the current land use is parking lots. To keep the centerline of a full length reactive barrier close to North Street might require the removal of this one building. However, it is highly unlikely that this technology would be needed to control the groundwater flux that passes beneath this segment of North Street since EN-284TD is directly downgradient from the building in question.

For ISCO, the potential application would be anywhere along North Street where vertical wells can be used in to inject permanganate; however, the use of this technology would be limited to areas that are beyond the capture zone of EN-284TD. This is to reduce the possibility of either excess permanganate or colloidal manganese dioxide from affecting the water quality of water extracted by EN-284TD.

Implementation of this component of the corrective action plan involves the fast-track start-up of groundwater extraction and treatment at EN-284TD. This fast-track startup is anticipated to begin in June 2004. This test well will be operated initially at a rate necessary to dewater the ice block depression outwash deposits, and then at a rate equal to the final rate during the pumping test (i.e., 50 gpm). Water quality for the ongoing operation of this extraction well would be expected to be equivalent to the final water quality observed during the aquifer test. The level of VOCs present at that time was, and is, readily treatable using granular activated carbon (GAC). Initially, this treatment will be provided by trailer-mounted carbon units parked adjacent to the extraction well in the parking lot

between Grant and Garfield Avenues. Discharge of the treated groundwater will be as it was during the aquifer test to the adjacent storm sewer system on Grant Avenue.

While this fast-track start-up of extraction at EN-284TD is occurring, more permanent facilities for the transmission, treatment, and discharge of this water will be designed and constructed. This will involve upgrading the Garfield Avenue treatment system.

5.1.3 Corrective Action Component 3: Plume Reduction

Only two technologies survived the screening and evaluation of technologies in Section 4 for plume reduction. These are groundwater extraction and treatment and water addition. In order to attain the objectives of the corrective action plan, it will be necessary to reduce the size and concentrations in groundwater plumes within the current Off-site Capture Zone A and the Southern Area. The following two subsections describe the approach to be taken in dealing with these two areas.

5.1.3.1 Plume Reduction in Off-Site Capture Zone A

Plume reduction in Off-site Capture Zone A will be accomplished primarily through the operation of extraction well EN-284TD on a fast-track basis, and then subsequently by a properly constructed production well at this same location. There are three benefits to be gained from the operation of this extraction well. The first is the control of flux across North Street, as described in the preceding subsection, the second is the reduction of the plume area extending from EN-284TD and EN-29A in a westerly direction to extraction EN-133, and the third is the elimination of any chemical flux that may be escaping undetected by current monitoring from Off-site Capture Zone A to the Southern Area.

With regard to the second of these benefits, in order to accomplish the reduction of this portion of the plume, EN-284TD will be operated in conjunction with the existing Garfield Avenue well cluster to induce groundwater flow from the east and the west to the "spine of the plume." Initially, these extraction wells will operate together with EN-133, which will result in the formation of a stagnant zone between them and EN-133. To clean out this stagnant zone, extraction wells will be constructed at locations EN-91 and EN-92 (Plate 5-1). While these intermediate wells are operating, EN-133 will be shut down. Depending on the rate at which the reduction in this plume occurs, it is anticipated that the

operation of these two intermediate extraction wells will be performed seasonally in the warmer months. Permanent discharge lines will be constructed from EN-91 to the Jefferson Avenue treatment system, and from EN-92 to the Garfield Avenue treatment system. It is anticipated, however, that within the first five years of operations, control of this western portion of the plume will be such that, operations at EN-133, then EN-91, then EN-92 will be deactivated sequentially and the plume will be controlled by the operation of EN-284TD and the Garfield Avenue well cluster. Subsequently, it is anticipated that even the operation of the Garfield Avenue well cluster may be deactivated as control of flux across North Street is accomplished by the operation of EN-284TD (and other measures, as appropriate) and this plume area is reduced to a small area between EN-284TD and North Street. During implementation of this component of the plan, extraction wells will be operated and shut down based on consultations between IBM and NYSDEC.

5.1.3.2 Plume Reduction in the Southern Area

As discussed in Section 3, the velocity of groundwater flow in the Southern Area is distinctly different south of Tracy Street and north of Tracy Street. South of Tracy Street, the saturated thickness of the aquifer is much lower and the gradient is much higher. One pore volume of this portion of the aquifer is anticipated to be flushed just by direct recharge in a year or less. However, in the portion of the Southern Area north of Tracey Street, the aquifer is much thicker and there is a much larger volume of water stored in the aquifer per unit area. Although the hydraulic conductivity appears to be higher, the gradient is much lower. As a result, natural flushing of one pore volume of the aquifer in the area north of Tracy Street may take as long as one to two years, or longer. Based on this analysis of conditions in the Southern Area, separate approaches will be taken in the areas north and south of Tracy Street.

In the area north of Tracy Street, the first priority is to ensure that the source of groundwater chemical flux to the Southern Area has been eliminated or substantially reduced. As discussed in the previous subsection, the elimination of any flux that may be escaping from Off-site Capture Zone A will be accomplished by the operation of extraction well EN-284TD, the effectiveness of which will be monitored along the boundary between this capture zone and the Southern Area (essentially along Monroe Street as shown on Plate 5-1). Also, some additional monitoring wells will be installed south of the Garfield Avenue well cluster to ensure that this well cluster is effective in controlling flux around this well field to the south and to identify the potential effects of any local sources on the efforts to eliminate, or substantially reduce, flux into the Southern Area.

With assurance that the source of chemical flux into the Southern Area has been eliminated, or substantially reduced, the approach to restoring the aquifer in that portion of the Southern Area north of Tracy Street will involve a combination of groundwater extraction and water addition (i.e., treated groundwater reinjection) at selected locations. This will proceed in two stages. In general, the Stage 1 approach will be to use an extraction well to be constructed in the vicinity of EN-214T and, at a minimum, injection wells near EN-161 and EN-215 until five pore volumes have been flushed through the aquifer in the northern part of the Southern Area. This is expected to take 3-5 years, but may occur more rapidly if the aquifer will take more than the estimated amount of water. During this same period of time, the southern part of the Southern Area will experience a similar rate of flushing based on the average annual recharge rate and the volume of water in storage in this area. This Stage 1 configuration is expected to attain the five-year goal of 50% reduction of mass in place in the aquifer. Once this is completed, it is anticipated that EN-214 can be converted to an injection well and operated as such in Stage 2 along with EN-215 and possibly EN-204 to continue flushing the entire aquifer in the Southern Area. This stage is expected to attain the ten-year goal of 80% reduction.

As noted above and shown on Plate 5-1, during Stage 1 groundwater extraction will be performed initially at a properly constructed production well near the location of test well EN-214T, based on the collection of additional design data to select an optimal location for this well. The aquifer test performed at EN-214T showed a broad flat cone of depression at an extraction rate of 40 gpm. It is anticipated, based on the drawdown in the test well, that extraction of groundwater from a production well at this location can be increased to between 60 and 80 gpm. This extracted groundwater would be treated by carbon adsorption in the existing treatment system at Adams Avenue. Pumping at this location would have the effect of accelerating the rate of groundwater flushing through that portion of the aquifer north of Tracy Street. However, the operation of a well near the location of EN-214T at a rate of 60 to 80 gpm would have a potentially significant impact on the capture efficiency of the Adams Avenue well cluster. This would be a negative effect in that it might induce the movement of contaminated groundwater currently captured by this well cluster into the Southern Area. To alleviate this concern, a portion of the groundwater treated at the Adams Avenue treatment system will be reinjected between the Adams Avenue well cluster and the extraction well near EN-214T to both alleviate concerns regarding drawing contamination into the Southern Area and to provide a means of flushing this portion of the aquifer with clean water that would be drawn into both the Adams Avenue well cluster and the new production well at EN-214T. To determine the amount of water to be injected between these two pumping centers and the locations at which such injection should occur, an injection

test well will be constructed near the location of existing monitoring well EN-161, and an injection test will be performed.

In addition to the injection of treated groundwater between the Adams Avenue well cluster and EN-214T, a portion of the groundwater treated at the Garfield Avenue treatment system would be reinjected at existing well location EN-215 (Plate 5-1). The purpose of injecting water at this location is to accelerate the flushing of that portion of the aquifer between EN-215 and the new production well at EN-214T. The initial step in implementing this part of the plan would be to construct and test an injection test well at the EN-215 location.

Following this initial step in the restoration of the aquifer north of Tracy Street, during Stage 2, extraction of groundwater at EN-214T would be discontinued and the production well at EN-214T would be converted to an injection well. Groundwater treated at the Adams Avenue treatment facility would then be injected into this well to further accelerate the restoration of the plume south of this location.

While this active flushing of the aquifer north of Tracy Street is occurring, restoration of the plume south of Tracy Street would be progressing at a comparable rate due to natural flushing of the aquifer by clean recharge. Based on the calculation of the recharge rate and the volume of water in storage in the aquifer south of Tracy Street, it is anticipated that one flushing of this portion of the aquifer would occur each year and, therefore, by the end of five years, five pore volumes would have been flushed through the aquifer. Furthermore, following the completion of the active flushing of the aquifer north of Tracy Street, the conversion of the extraction well near EN-214T to an injection well will further accelerate flushing of the aquifer south of that location, including in the area south of Tracy Street.

5.2 Justification for Corrective Measures

The justification for the corrective measures selected to be applied to meeting the corrective action objectives at this site is rooted in the criteria for screening of technologies as described in Section 4.1. In this regard, any corrective measures selected to be applied must have been demonstrated to be reliable and effective at full field scale at other sites under comparable conditions, must be implementable under the conditions at this site, and it must be possible to predict and monitor the effectiveness of such measures in both the short term and the long term to ensure that reduction of plume areas south of North Street is accomplished at an accelerated pace. The use of groundwater extraction and treatment to control source zones north of North Street, to control flux across North Street, and to reduce the area and concentrations south of North Street is consistent with the application of this technology at this site and many other sites where it has been used to successfully accomplish similar goals. At this site, this technology has been demonstrated to be effective in removing dissolved mass of VOCs from groundwater, and in providing hydraulic control of source zones and plume areas. The corrective actions planned for this site involve a redeployment, not an abandonment, of this technology to be more effective in reducing the size and concentrations in plume areas, as well as continuing to provide hydraulic control of sources. The use of this technology is also consistent with existing facilities at the site, including carbon treatment systems to remove VOCs.

The potential use of reactive barrier walls using iron media and ISCO provide for the application of two of the less commonly used and proven alternative technologies, where practicable, for the in-situ treatment of VOCs in groundwater where extraction and treatment on the surface may not be feasible. While they may have their limitations with respect to conditions at this site, they represent the most appropriate alternative technologies to groundwater extraction and treatment for control of groundwater flux at North Street. At present it is not anticipated that they will be needed, but they have been retained as contingent technologies in the event they are.

The use of water addition or injection in the Southern Area is justified by the fact that, without this component of the plan, the operation of an extraction well at EN-214T or a nearby location might overcome the control of the VOC plume in the area referred to in this report as the Endicott Forging/Ideal Cleaner's area currently provided by the Adams Avenue well cluster. Furthermore, without water addition, there would also be a risk of drawing dissolved VOCs in groundwater from the

Eastern Area into the Southern Area. Finally, in the later stage of implementation of plume reduction in the Southern Area, water addition provides a means of accelerating the cleanup in the area south of East Main Street.

5.3 Design and Effectiveness Monitoring

The next step in the implementation of the corrective actions described above is the design of the systems and facilities. The following subsections describe the steps that will be followed to complete this process as well as installing additional wells for the monitoring of corrective action effectiveness.

5.3.1 Corrective Action Component 1: Source Control

As noted previously, IBM had initiated a review of the current groundwater extraction, conveyance, treatment and discharge systems to identify actions that can be taken to improve the efficiency, effectiveness and reliability of these systems. In the railroad source areas, that assessment examined the benefits to be gained from the use of the vacuum-enhanced extraction technology. The results of the vacuum-assisted extraction test are presented in the report of that assessment dated April 30, 2004.

5.3.2 Corrective Action Component 2: Control Flux Across North Street

The fast-track implementation of the startup of groundwater extraction from the EN-284TD well will be based on the simple design of an interim system similar to the systems used for the aquifer tests performed under the SGA. This interim system will operate until the permanent system can be designed, permitted and constructed. The permanent system will include a minimum 12-inch diameter extraction well with construction amenable to vacuum-assist and screen design comparable to the test well, EN-284TD. The conveyance piping will be designed to meet RCRA standards and to convey flows up to 100 gpm to facilitate dewatering of the ice block depression at least as rapidly as was accomplished during the SGA testing. Hydraulic capacity of the treatment system has been shown in the April 30, 2004 report to ensure the proper retention time for the combined flow and concentrations from EN-284TD, the existing Garfield Avenue well cluster and the extraction well to be constructed at EN-92 as part of the third component of the corrective action plan. Plate 5-1 also shows the locations of effectiveness monitoring wells to be installed and sampled quarterly during the operation of new extraction systems at the site. Those that are intended to monitor the effectiveness of flux control across

North Street include those to be installed in a tight spacing with existing wells EN-419, 421 and 422 along the south side of North Street, two to be installed east and west of existing well EN-6 southeast of extraction well EN-284TD and two to be installed east and west of existing well EN-192 on Monroe Street. These wells will be monitored in conjunction with the existing wells in these areas to determine that flux crossing North Street is captured either by EN-284TD or by the Garfield Avenue well cluster.

5.3.3 Corrective Action Component 3: Plume Reduction

The implementation of the third component of the corrective action plan will have already begun with the fast-track startup of EN-284TD as described above and the design of the treatment system upgrades at Garfield Avenue. In the area north of Monroe Street, what will remain to be done is the installation of extraction wells at locations EN-91 and EN-92. As in the case of EN-284TD, these wells will be installed using a design that can employ the vacuum-assist technology. For these wells, this will be especially important since they are not located in an ice-block depression. Proportionally, therefore, they may benefit from the use of this approach even more so than EN-284TD. These wells will be constructed as minimum 12-inch diameter wells, with the screen design based on the results of gradation analyses of formation samples to be collected from a geologic test boring to be drilled at each location. Each well will be developed, tested and sampled in accordance with the same procedures used for similar activities in the SGA.

In addition to these extraction wells, effectiveness monitoring wells will also be completed at three locations along Monroe Street between Grant and Garfield Avenues and at two locations north and south of existing monitoring well EN-92 to monitor the effectiveness of the new and existing extraction wells in reducing the plume area and concentrations and in preventing VOCs from passing south of the Garfield Avenue well cluster and potentially into the Southern Area. Two additional monitoring wells will be installed, one each between EN-91 and EN-133 and between EN-91 and EN-92. These wells will be monitored at a minimum quarterly together with existing wells in the area to assess the effectiveness of plume reduction measures.

The design of the corrective actions to be applied to the Southern Area will be more involved than those in the area north of Monroe Street. As shown on Plate 5-1, the first step will be the installation and sampling of effectiveness monitoring wells to determine that the source of VOCs in groundwater in this

area is not emanating from a local source west of McKinley Avenue. These include two wells on Grant Avenue and one on Garfield Avenue between Monroe Street and Broad Street. With these and other effectiveness monitoring wells installed and sampled (in accordance with the protocols and procedures established for the SGA), it will be possible to determine the source of VOC flux into the Southern Area and the effectiveness of the existing or planned extraction wells north of Monroe Street and west of McKinley Avenue to intercept this flux. If it is found that these wells are not effective in preventing continuing flux into the Southern Area, then this issue will have to be addressed before the implementation of corrective measures can proceed in this area.

Once this issue is addressed, however, the design of additional corrective measures in the Southern Area will begin with the installation and testing of injection test wells at locations EN-215 and EN-161. A protocol and testing plan for this work will be prepared in advance of the work for review and approval by NYSDEC. This plan will include at a minimum the installation and sampling of two additional effectiveness monitoring wells, one at the corner of Columbus Street and McKinley Avenue and the other at the corner of Roosevelt Avenue and East Main Street. These wells and others in the Southern Area will be monitored quarterly during the implementation of corrective action in this area to determine the effectiveness of actions being taken.

Finally, as the ongoing assessment of the existing systems mentioned above proceeds, it may become appropriate to perform testing of the vacuum-assisted extraction at the locations of other wells that will remain active after the additional corrective actions are implemented. One example would be at the Adams Avenue well cluster where the yield of this system must be maximized in order to maintain capture of the Off-site Capture Zone B plume after startup of extraction in the Southern Area. Currently the wells maintain a shallow, broad cone of depression that might be made more effective by the operation of these wells with the benefit of the additional available drawdown provided by the vacuum assist system.

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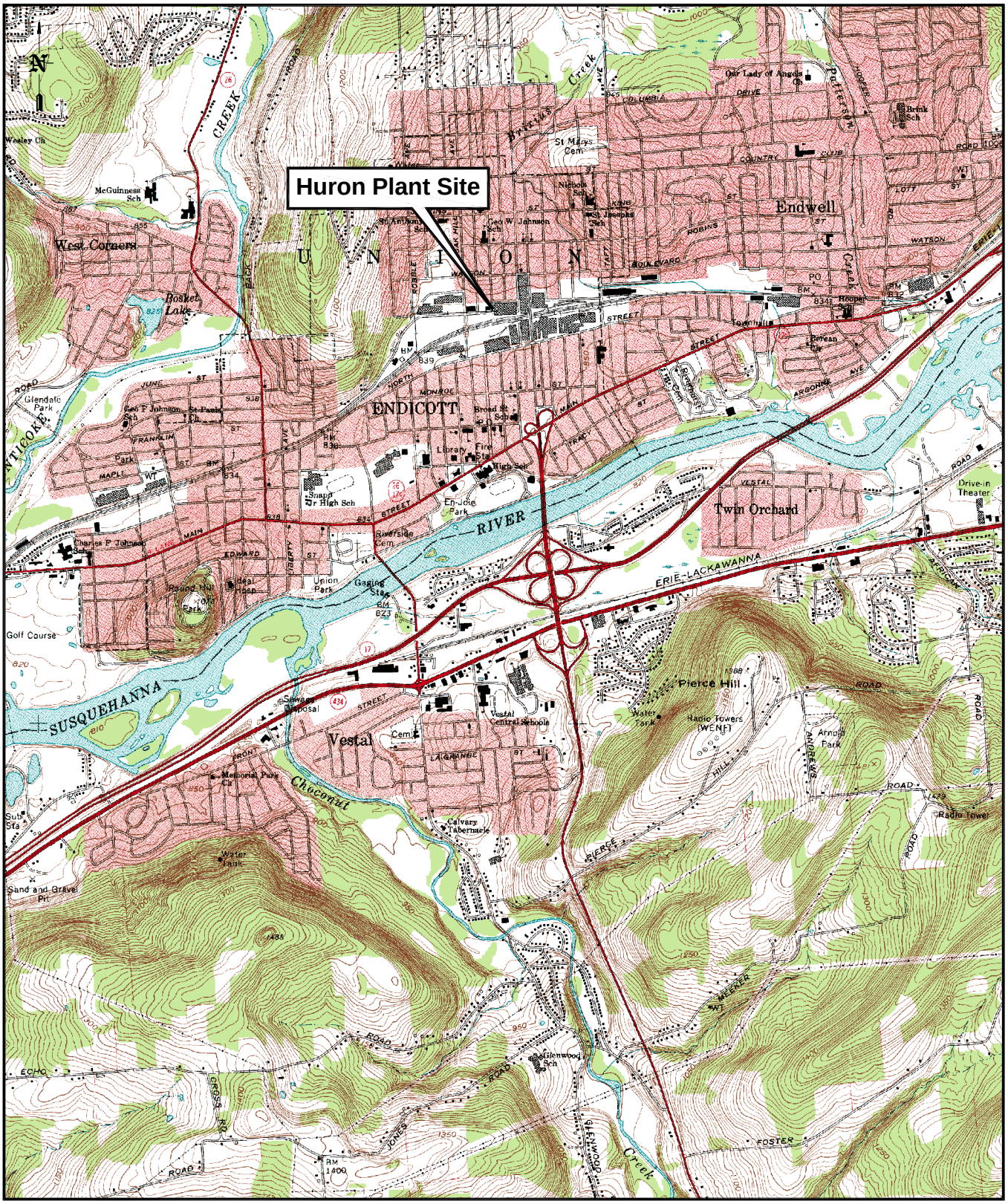

Portion of the Endicott, New York
7.5-Minute USGS Quadrangle

Figure 1-1

Supplemental Groundwater Assessment

Site Location Map

GROUNDWATER SCIENCES CORPORATION

22007-008-B1 / 12-31-03

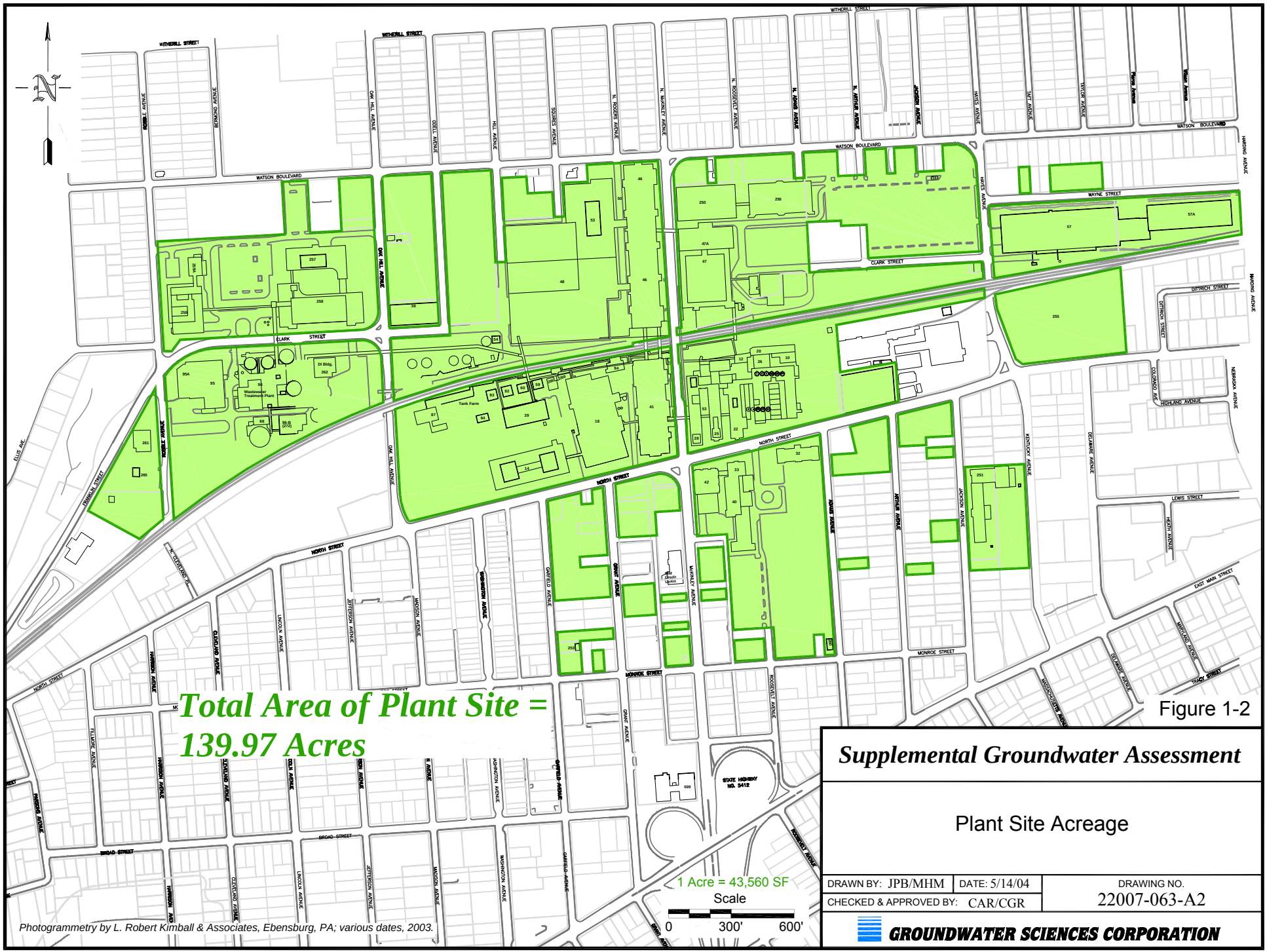

Figure 1-2

Supplemental Groundwater Assessment

Plant Site Acreage

DRAWN BY: JPB/MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CAR/CGR		22007-063-A2

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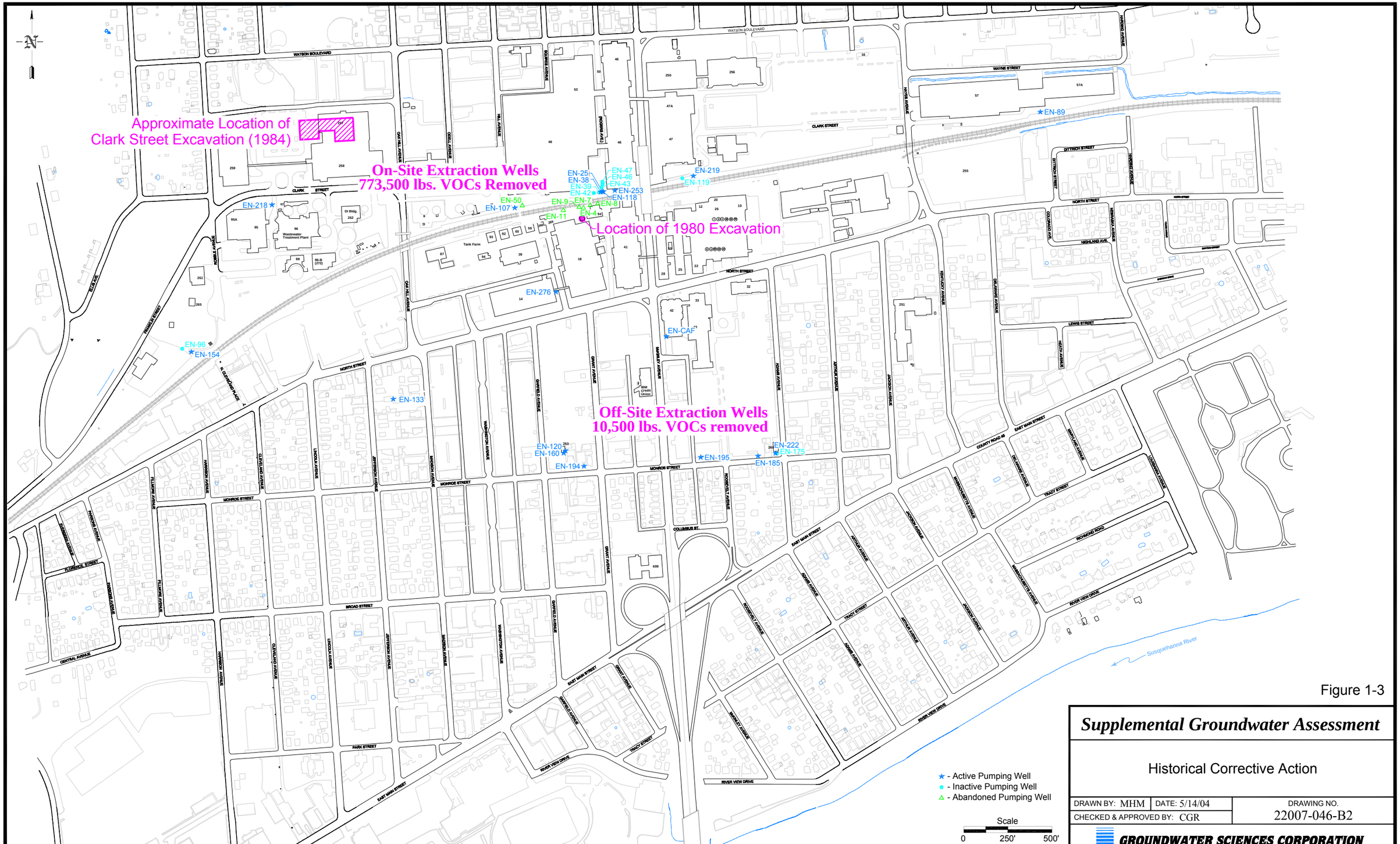

Figure 1-3

Supplemental Groundwater Assessment

Historical Corrective Action

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CHECKED & APPROVED BY: CGR		22007-046-B2

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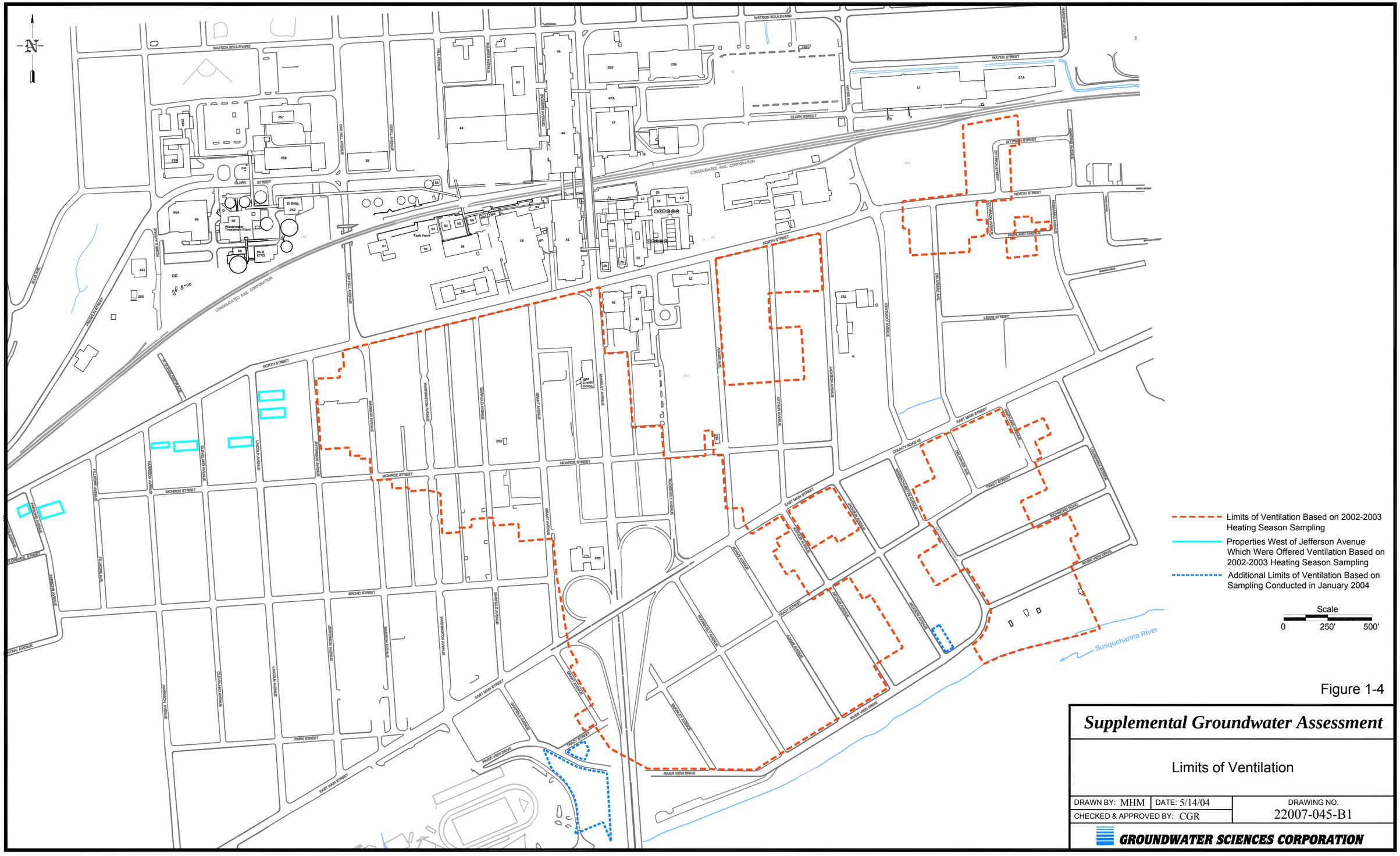

Figure 1-4

Supplemental Groundwater Assessment

Limits of Ventilation

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR		22007-045-B1

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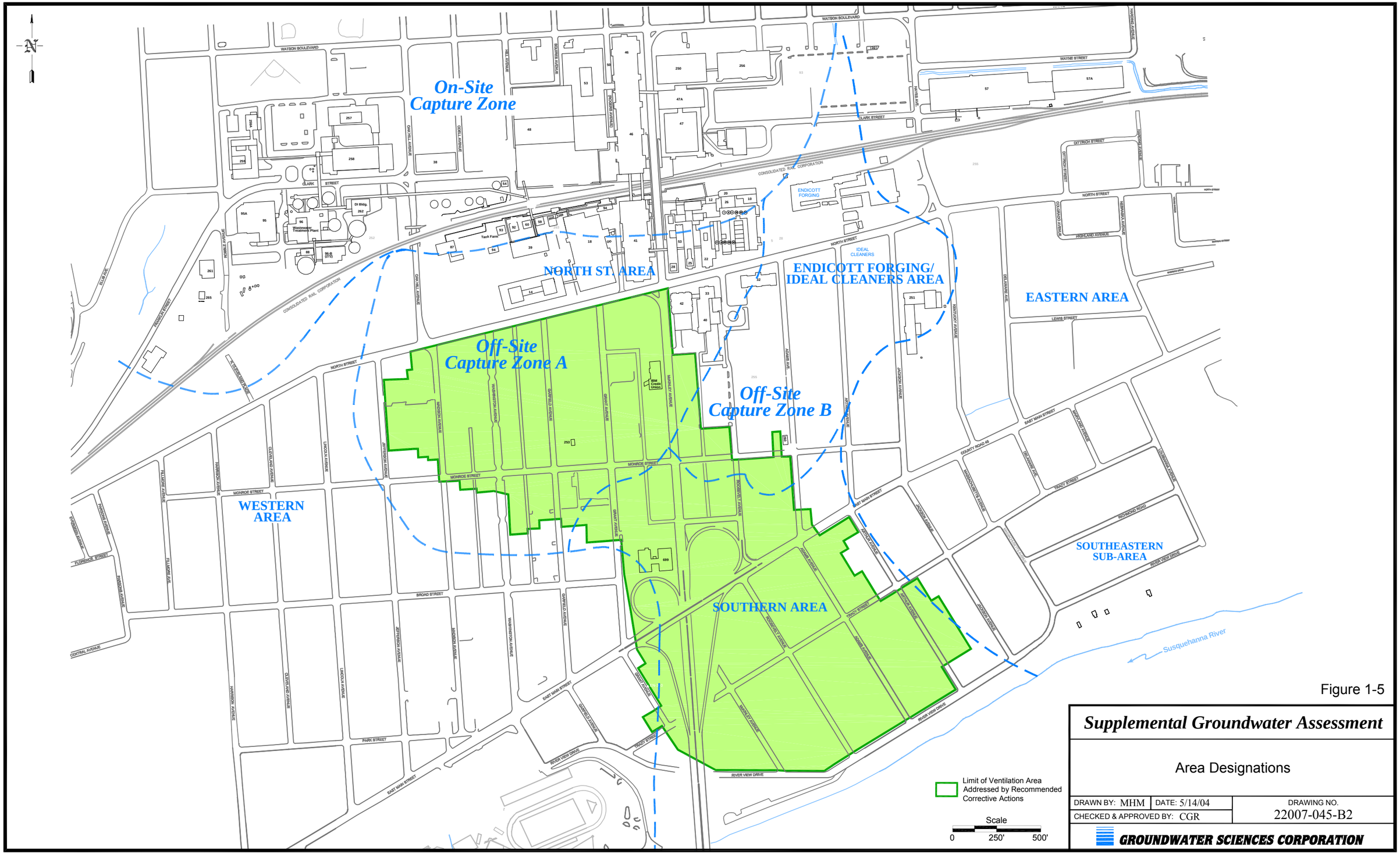

Figure 1-5

Supplemental Groundwater Assessment

Area Designations

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CHECKED & APPROVED BY: CGR		22007-045-B2

GROUNDWATER SCIENCES CORPORATION

Supplemental Groundwater Assessment
EN-284TD Pumping Test
Observation Well EN-284

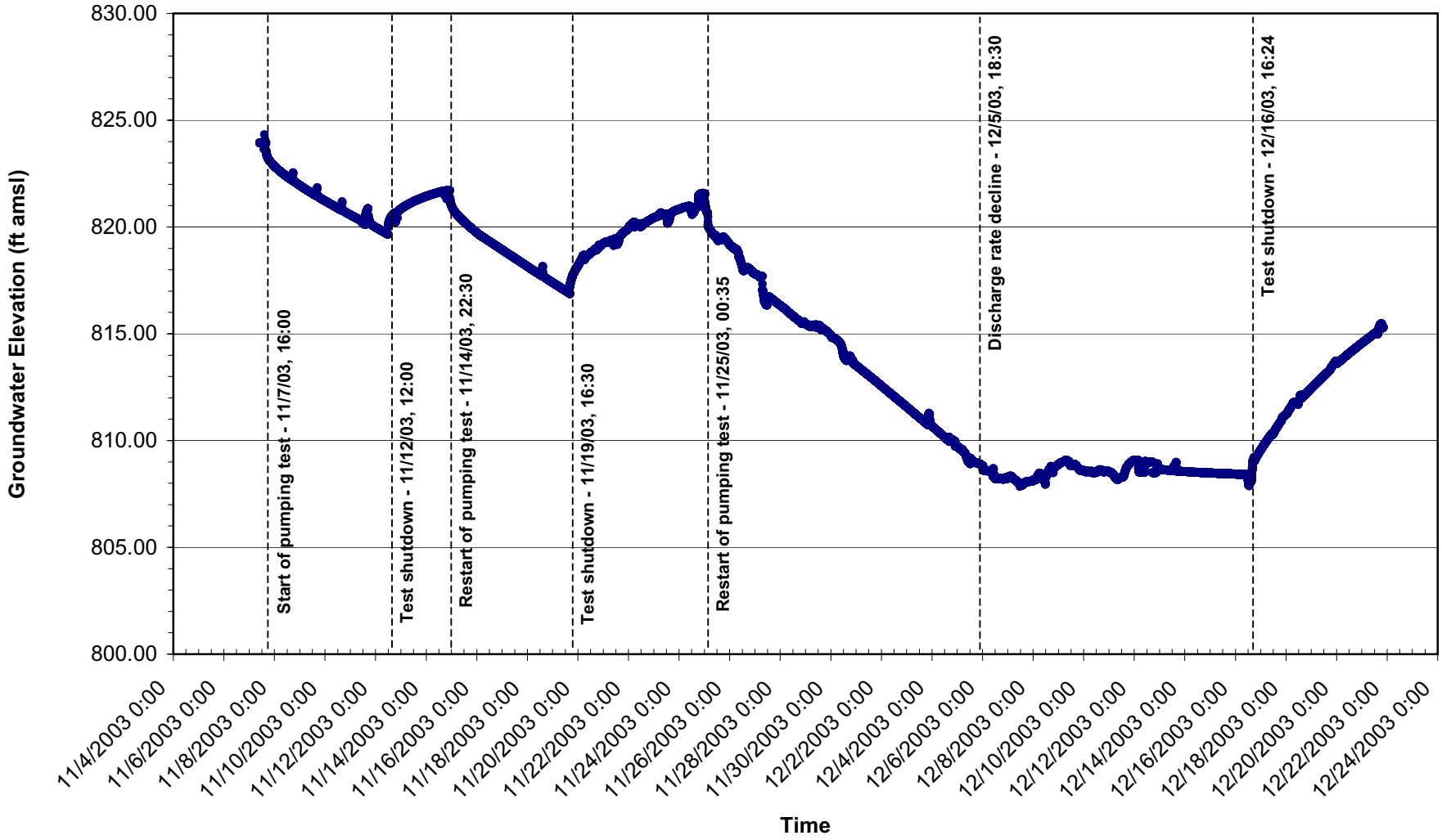


Figure 2-1

Supplemental Groundwater Assessment
EN-214T Pumping Test
Observation Well EN-214C

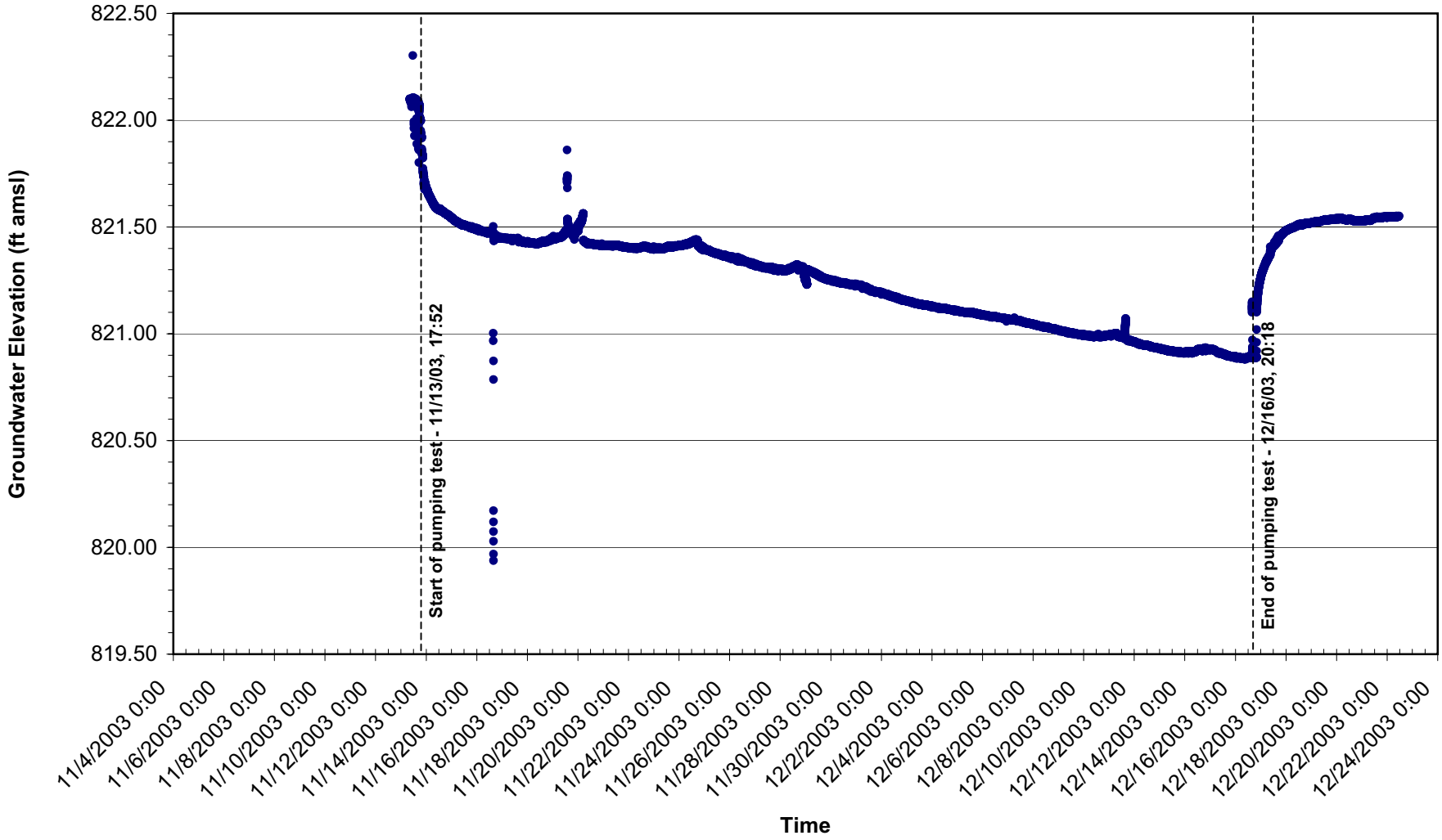


Figure 2-2

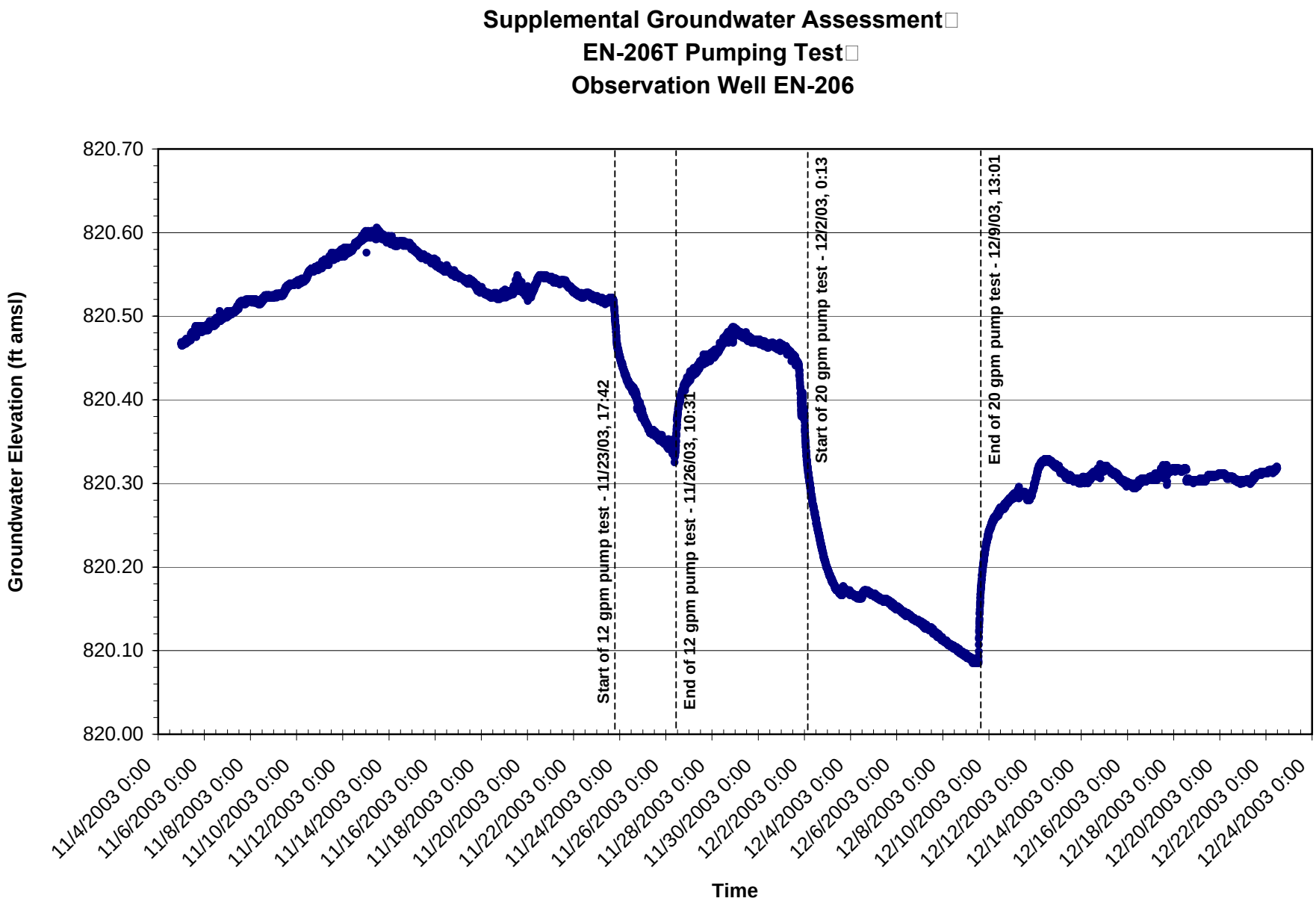
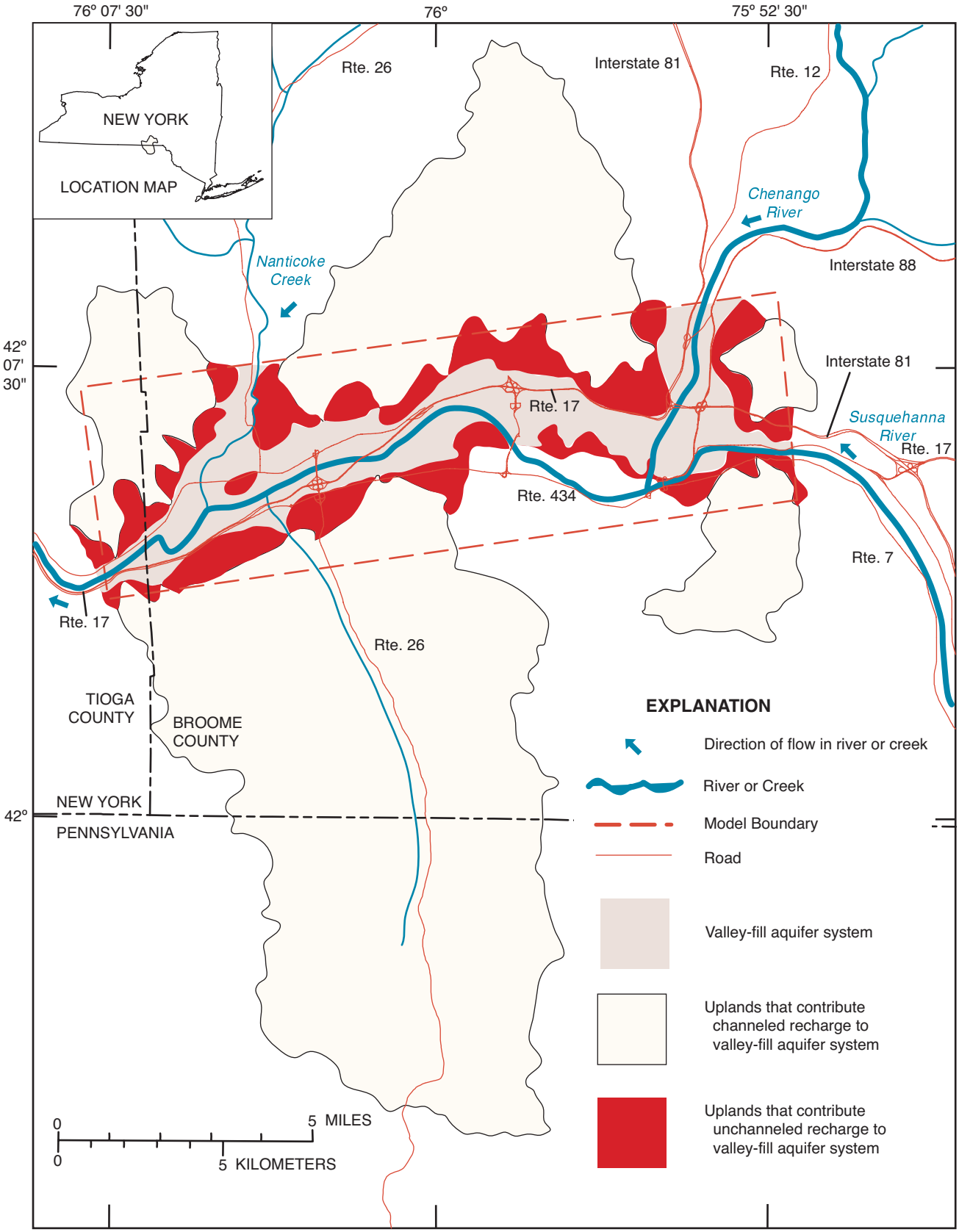

Supplemental Groundwater Assessment
EN-206T Pumping Test
Observation Well EN-206
Groundwater Elevation (ft amsl)
820.70
820.60
820.50
820.40
820.30
820.20
820.10
820.00
Start of 12 gpm pump test - 11/23/03, 17:42
End of 12 gpm pump test - 11/26/03, 10:31
Start of 20 gpm pump test - 12/2/03, 0:13
End of 20 gpm pump test - 12/9/03, 13:01
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

Figure 2-3

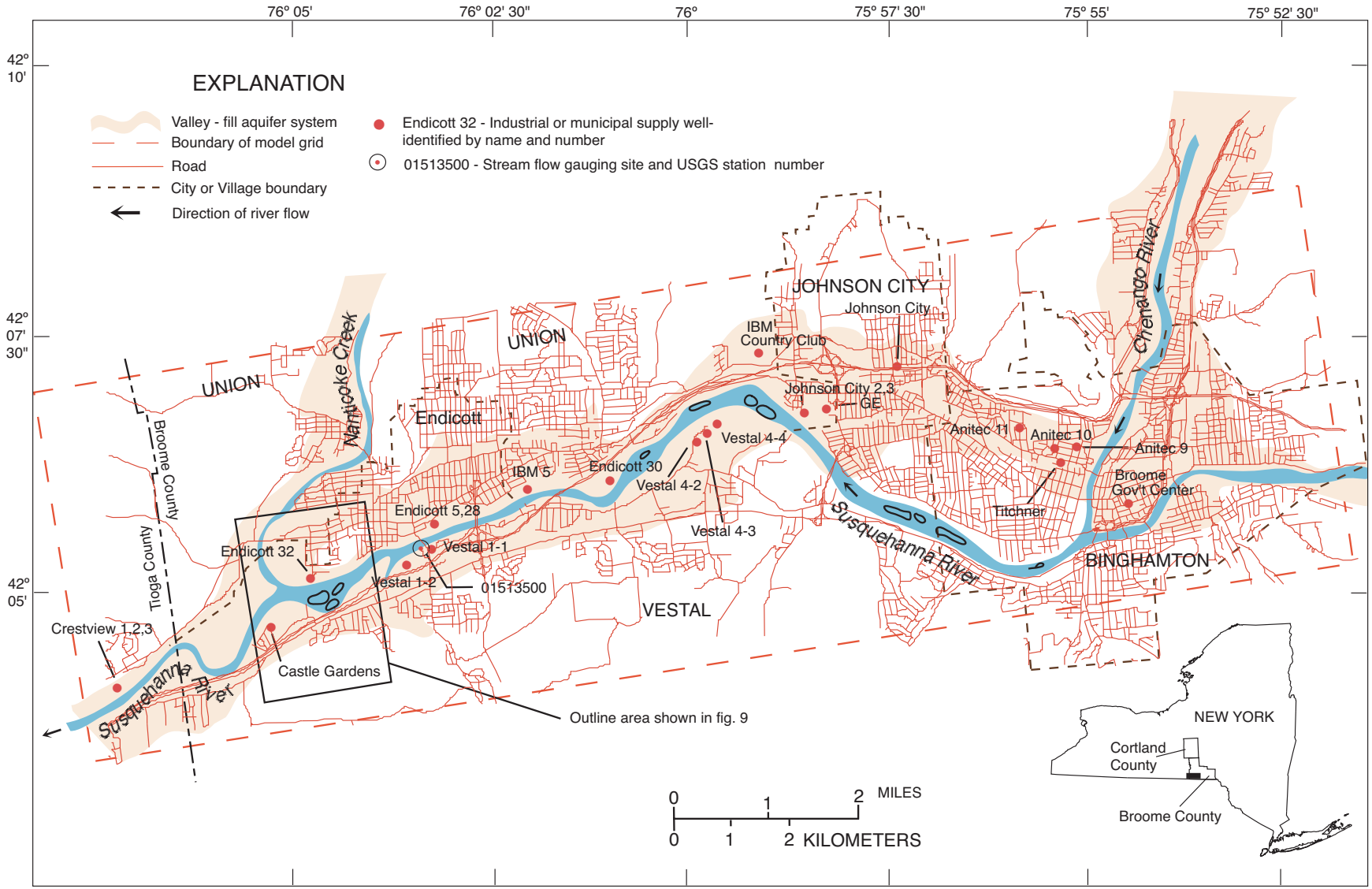


Base from US Geological Survey, 1974, 1:500,000

Figure 2. Map of model area and vicinity showing channeled and unchanneled upland areas that contribute recharge to the valley-fill aquifer.

Source: USGS Water Resources Investigations Report 01-4171 (2001), p. 5.

Figure 3-1



Base from US Geological Survey, 1974, 1:500,000

Figure 1. Map of study area showing locations of aquifer and ground-water flow model boundaries, major geographic features, and municipal and industrial supply wells in the Susquehanna River valley in southwestern Broome County, N.Y.

Source: USGS Water Resources Investigations Report 01-4171 (2001), p. 3.

Figure 3-2

Figure 3-3

Supplemental Groundwater Assessment

Average Pumping Rates for Extraction Wells
(December 2002-June 2003)

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CHECKED & APPROVED BY: CGR		22007-052-A

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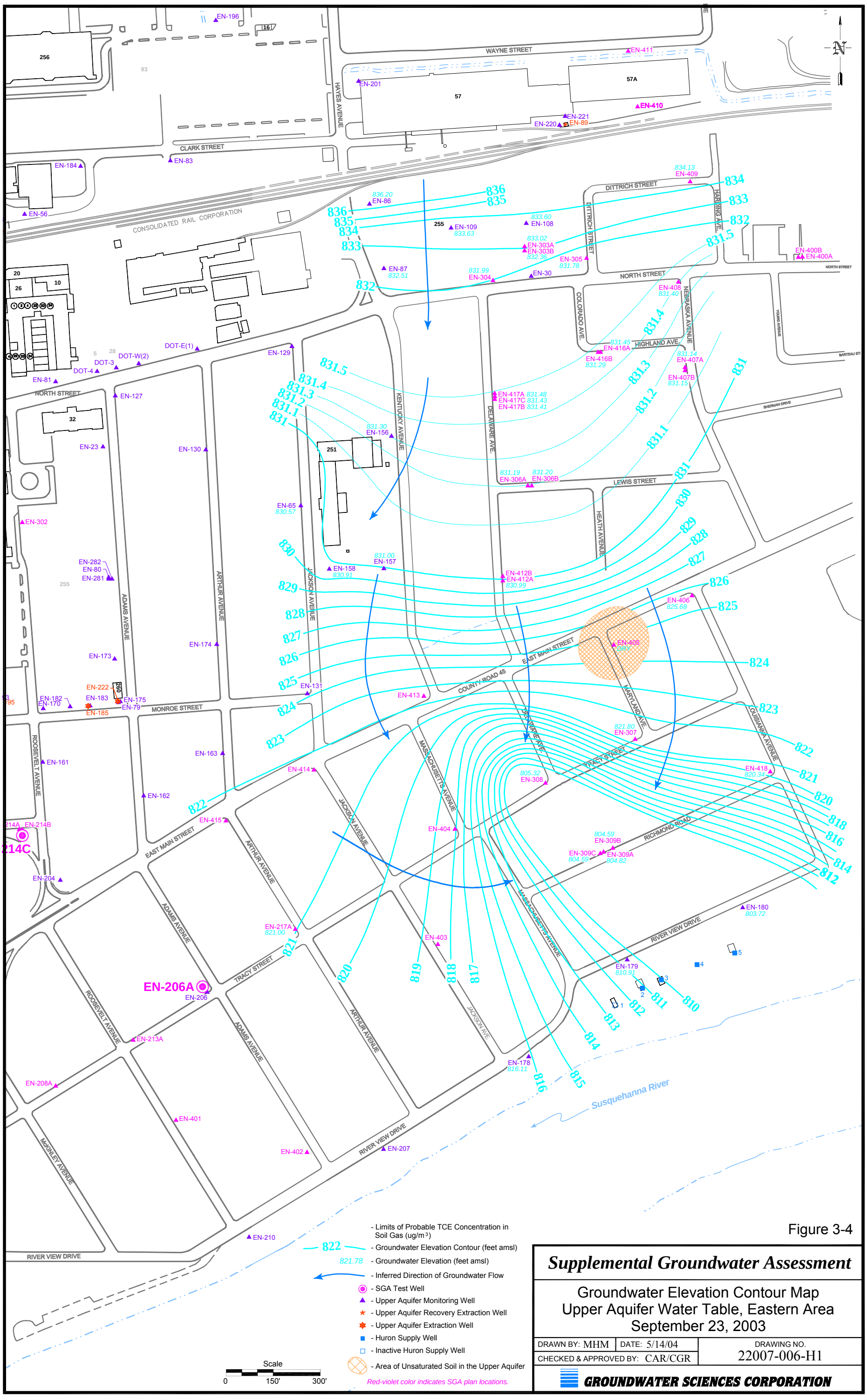


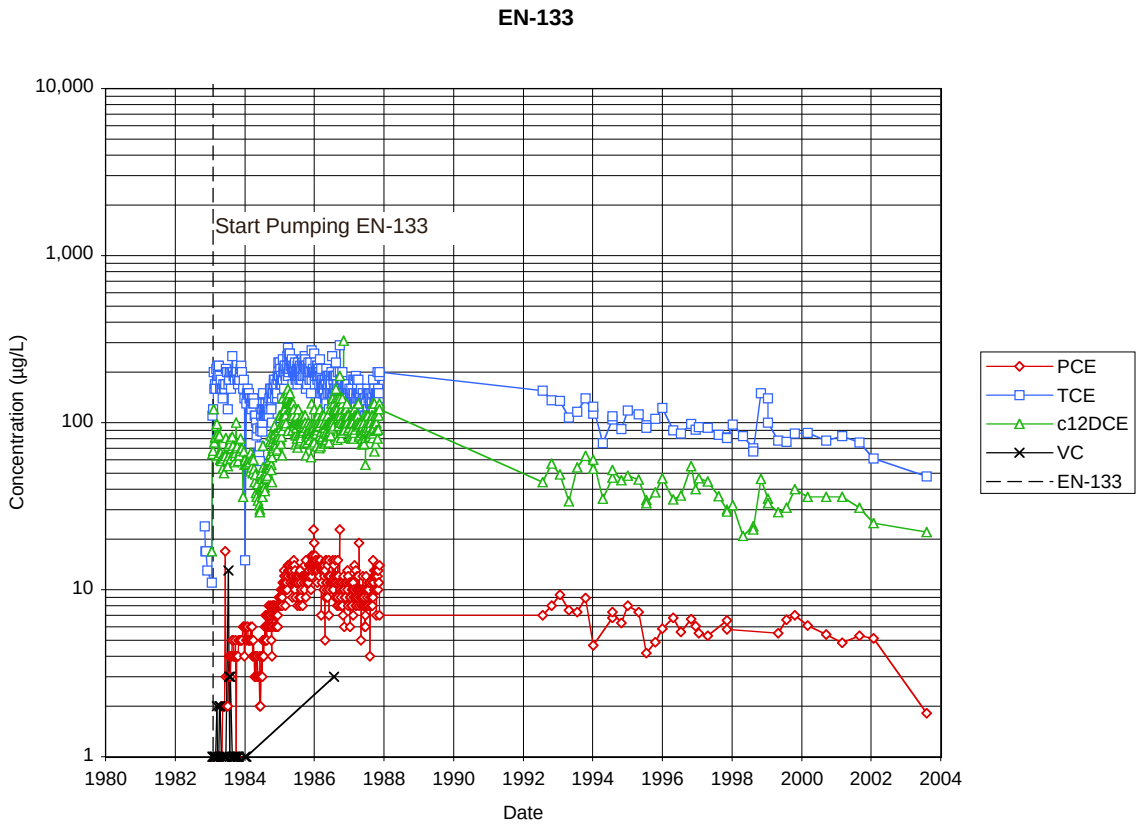
Figure 3-4

Supplemental Groundwater Assessment

Groundwater Elevation Contour Map
Upper Aquifer Water Table, Eastern Area
September 23, 2003

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CAR/CGR		22007-006-H1

GROUNDWATER SCIENCES CORPORATION



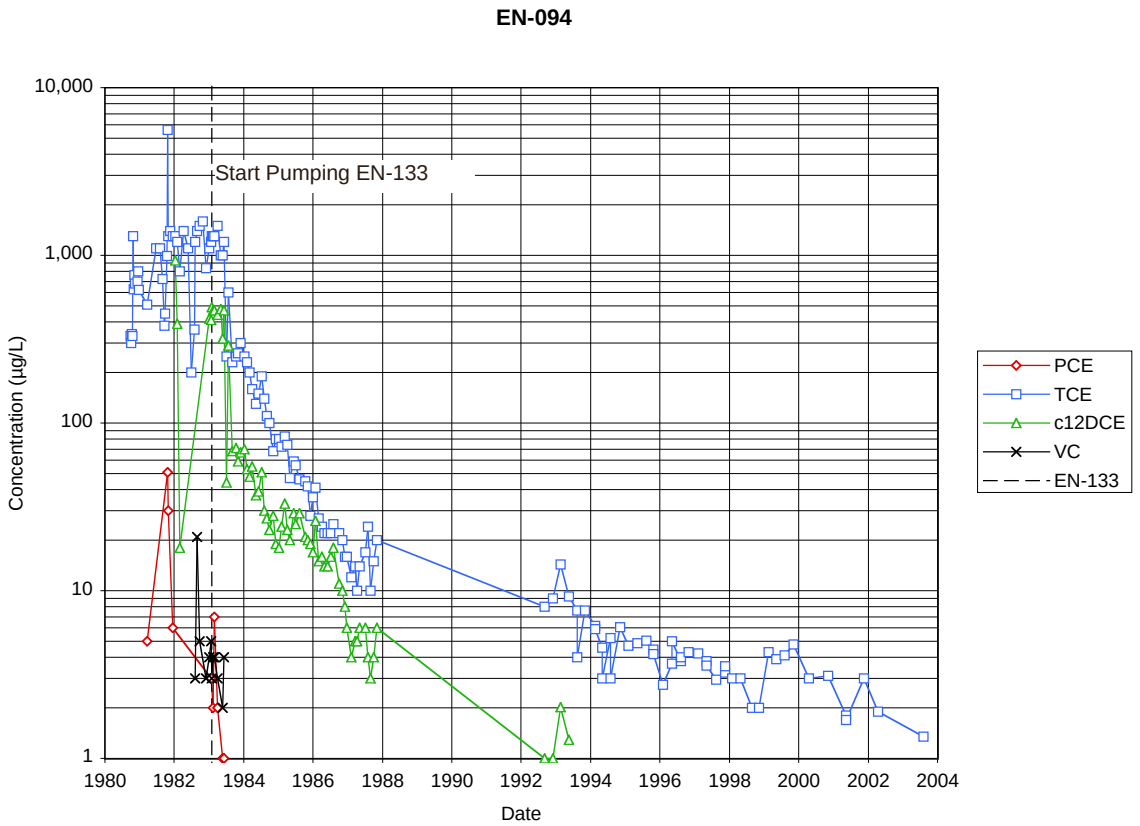


Figure 3-5. Temporal monitoring of chlorinated ethene concentrations in pumping well EN-133 and adjacent monitoring well EN-094.

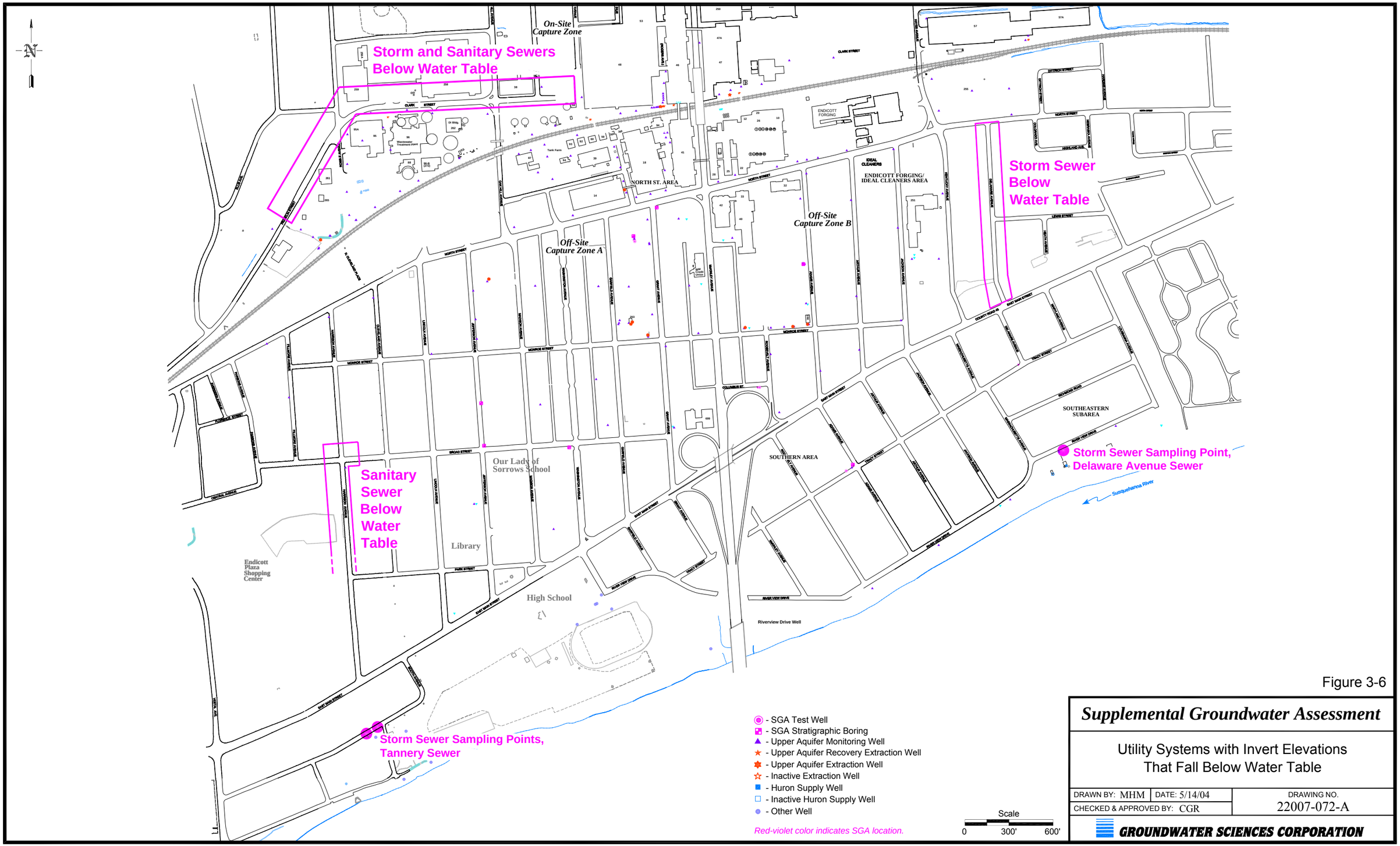


Figure 3-6

Supplemental Groundwater Assessment

Utility Systems with Invert Elevations That Fall Below Water Table

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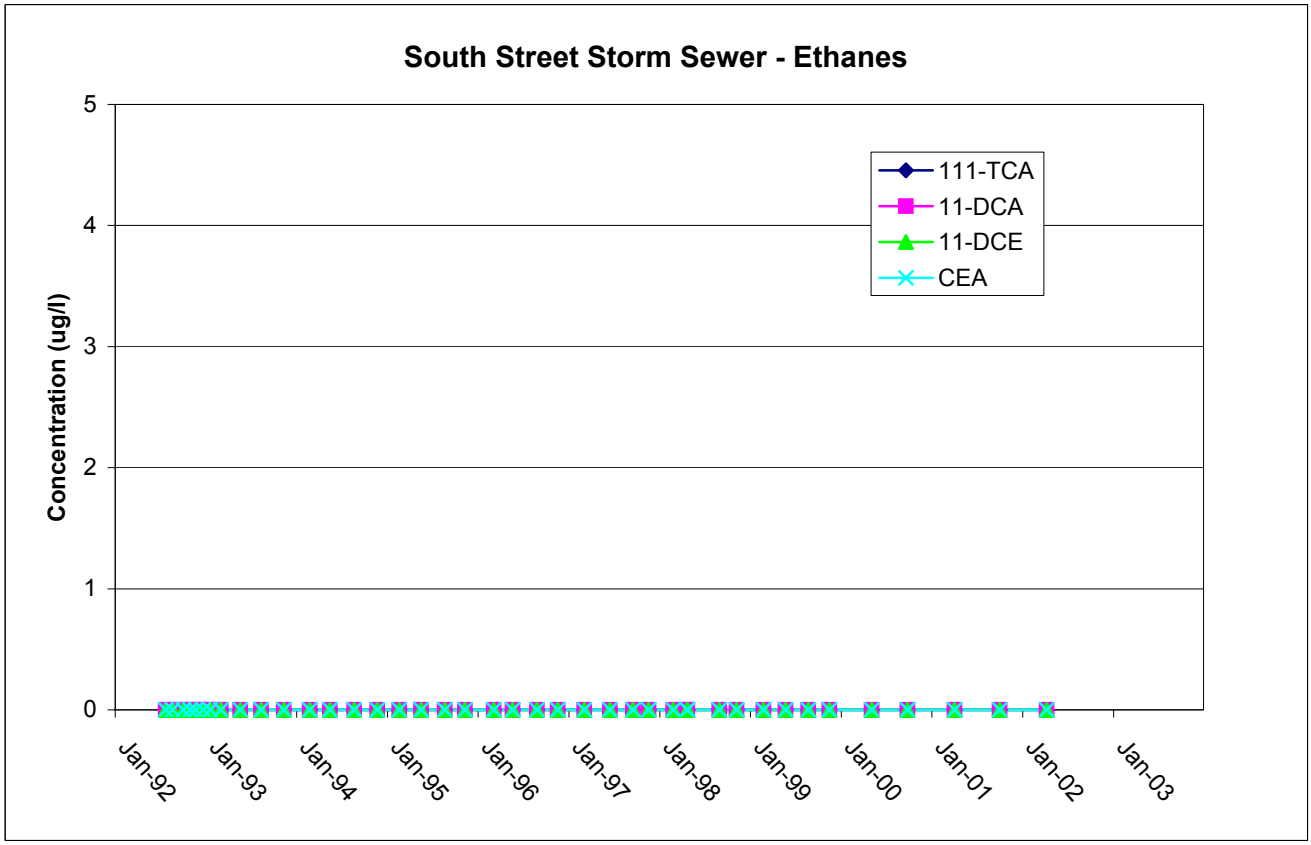
CHECKED & APPROVED BY: CGR		22007-072-A

GROUNDWATER SCIENCES CORPORATION

Figure 3-7: Tannery Sewer



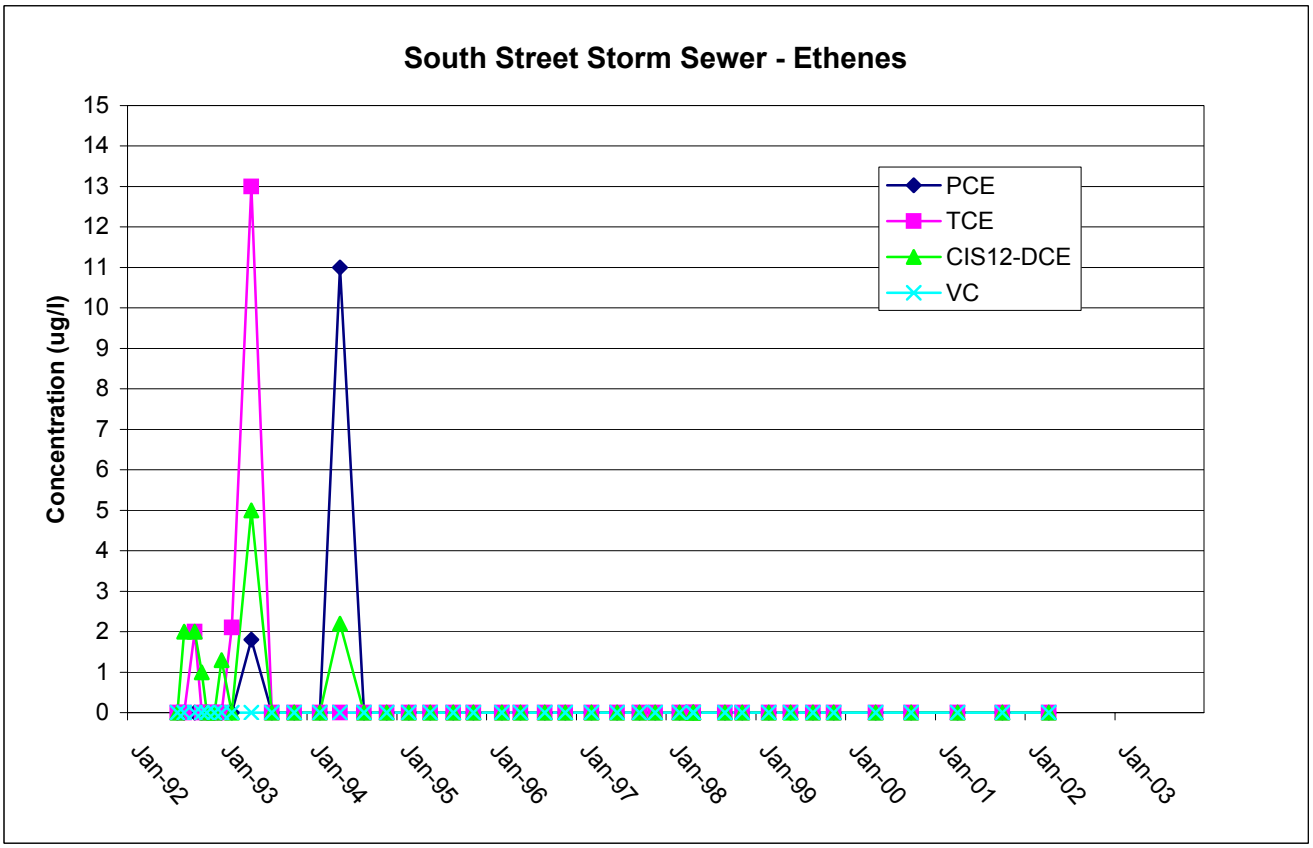
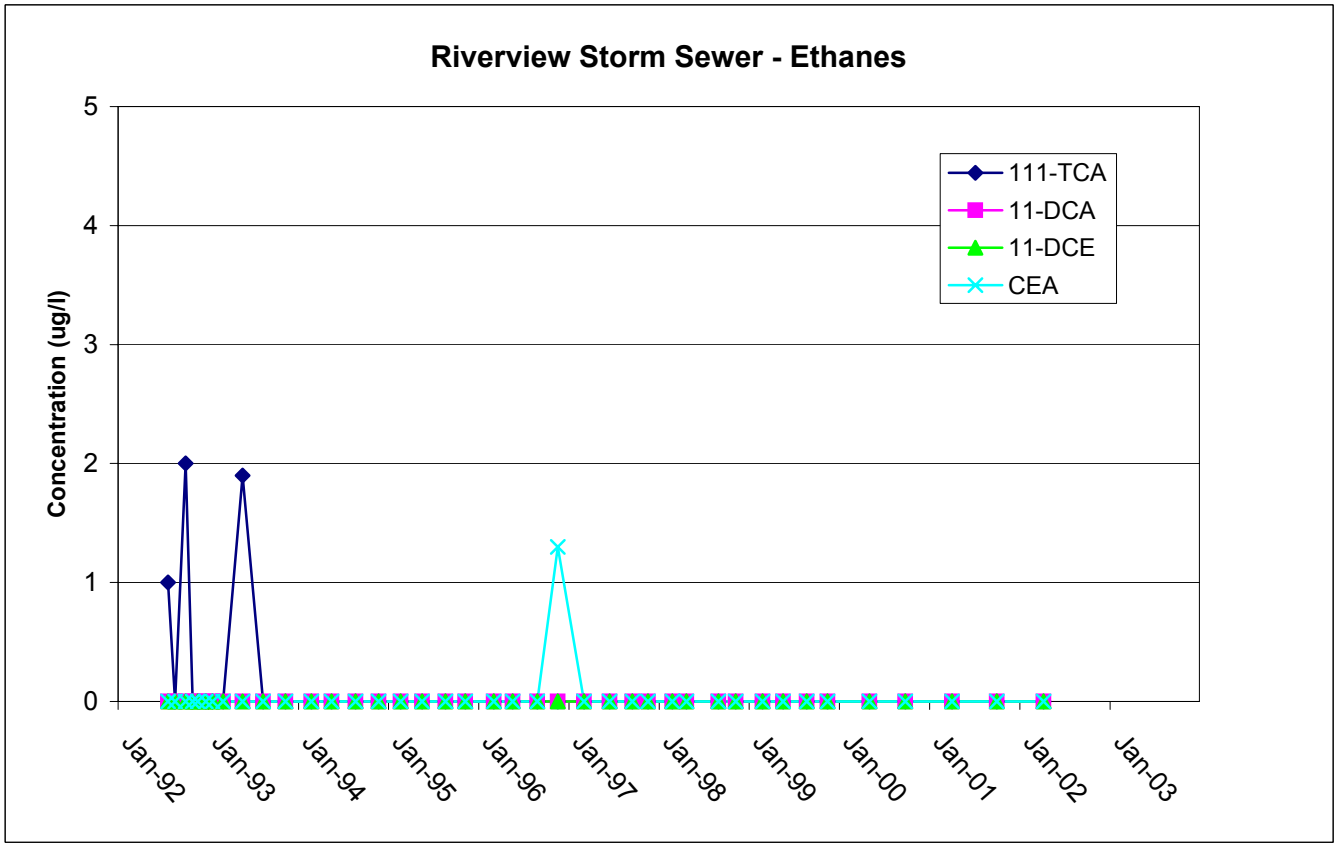
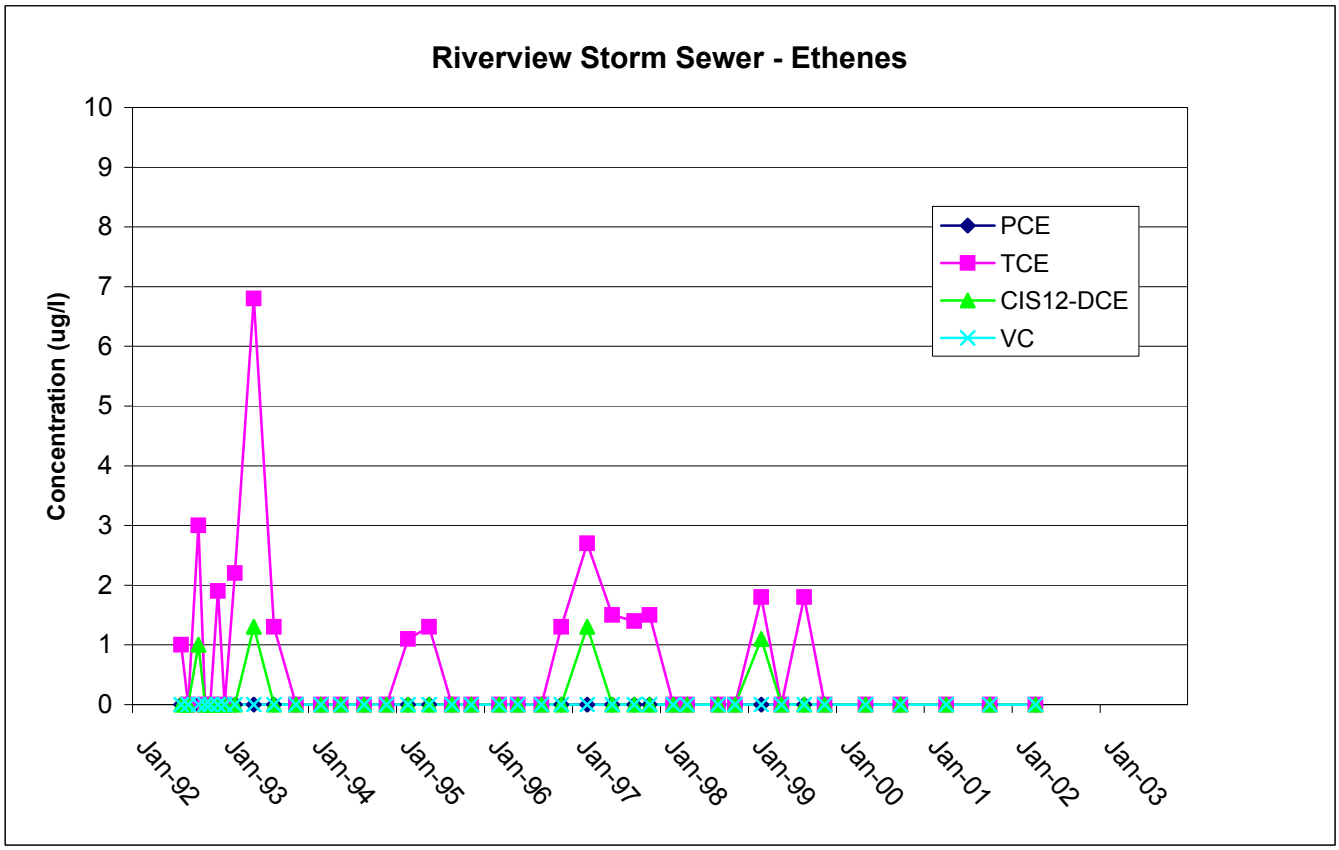
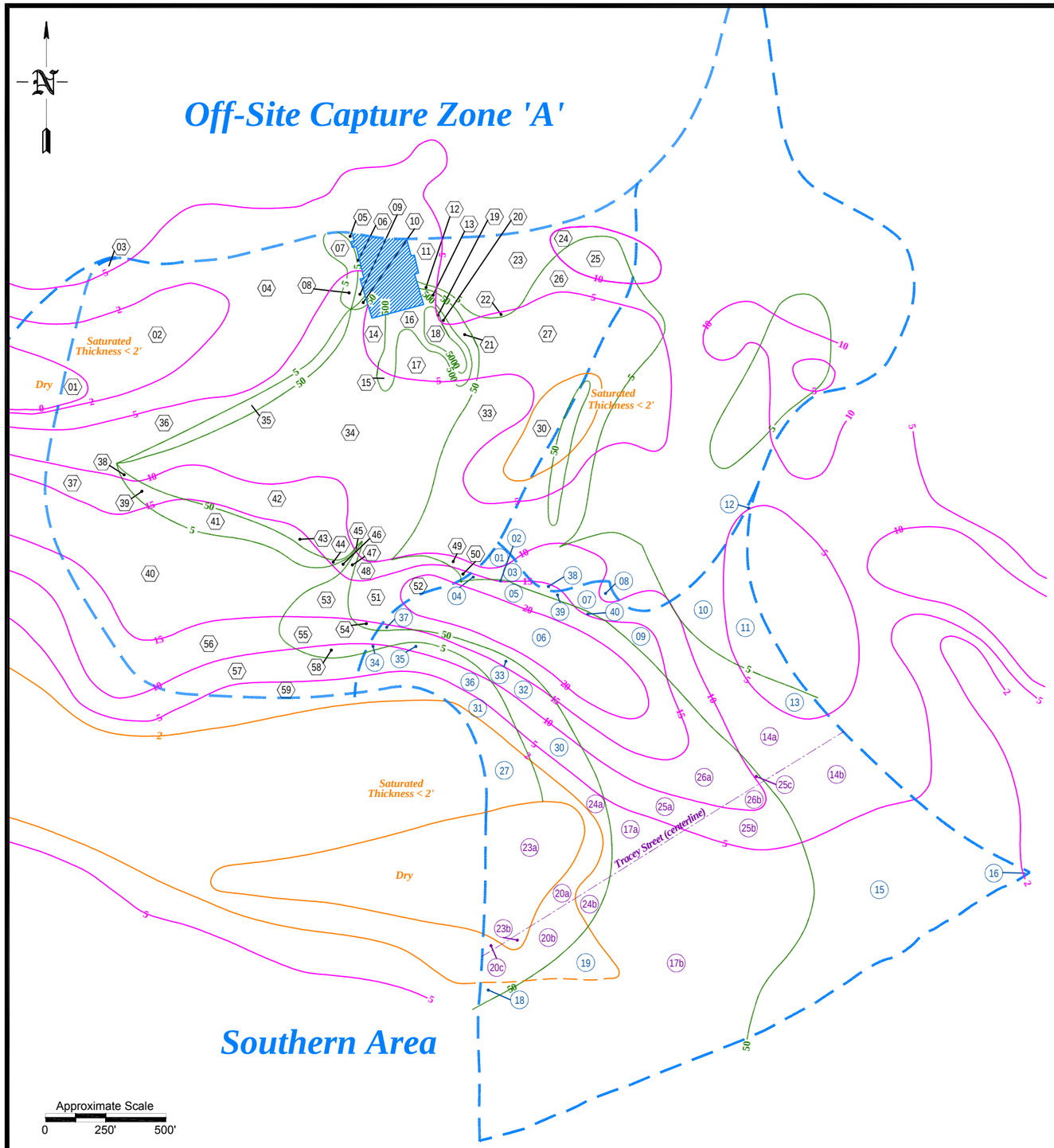


Figure 3-8: Delaware Avenue Sewer







Off-Site Capture Zone 'A'

AREA #	SQUARE FOOTAGE	AREA #	SQUARE FOOTAGE	AREA #	SQUARE FOOTAGE	AREA #	SQUARE FOOTAGE
01	11788.83 sf	16	41242.73 sf	31	<n/a>	46	2367.66 sf
02	199379.75 sf	17	34150.34 sf	32	<n/a>	47	3872.36 sf
03	6267.42 sf	18	18887.24 sf	33	187907.91 sf	48	20562.17 sf
04	390046.47 sf	19	328.29 sf	34	535087.87 sf	49	8161.68 sf
05	1422.66 sf	20	1392.60 sf	35	50410.45 sf	50	1405.26 sf
06	1380.41 sf	21	10005.32 sf	36	157908.56 sf	51	48865.63 sf
07	14209.38 sf	22	1998.41 sf	37	49265.31 sf	52	12461.20 sf
08	7232.27 sf	23	156714.48 sf	38	1793.71 sf	53	32538.14 sf
09	3896.99 sf	24	22668.93 sf	39	11529.27 sf	54	2784.14 sf
10	2347.93 sf	25	41098.08 sf	40	384475.79 sf	55	40766.64 sf
11	21089.40 sf	26	41035.10 sf	41	62319.19 sf	56	139924.31 sf
12	1676.18 sf	27	223724.69 sf	42	144624.79 sf	57	87651.47 sf
13	1840.64 sf	28	<n/a>	43	16854.64 sf	58	12226.92 sf
14	15661.54 sf	29	<n/a>	44	1315.36 sf	59	34908.31 sf
15	4302.36 sf	30	53485.13 sf	45	281.50 sf		

Southern Area

AREA #	SQUARE FOOTAGE	AREA #	SQUARE FOOTAGE	AREA #	SQUARE FOOTAGE	AREA #	SQUARE FOOTAGE
01	7904.14 sf	14a	132228.58 sf	23a	172690.66 sf	31	48477.31 sf
02	359.83 sf	14b	145501.89 sf	23b	4695.89 sf	32	56671.60 sf
03	11630.82 sf	15	470769.53 sf	24a	47260.80 sf	33	15153.83 sf
04	1828.39 sf	16	474.62 sf	24b	13108.83 sf	34	1236.18 sf
05	210700.74 sf	17	47307.48 sf	25a	57967.67 sf	35	14267.84 sf
06	194000.00 sf	17b	958413.88 sf	25b	65809.84 sf	36	55870.46 sf
07	101010.56 sf	18	8700.08 sf	25c	2023.48 sf		
08	4573.50 sf	19	40705.45 sf	26a	142591.92 sf		
09	18787.88 sf	20a	55225.19 sf	26b	11176.63 sf		
10	57695.19 sf	20b	70371.95 sf	27	65960.52 sf		
11	91765.92 sf	20c	3754.06 sf	28	1579.32 sf		
12	894.58 sf	21	7037.42 sf	29	2174.33 sf		
13	30756.26 sf	22	1318.32 sf	30	49804.30 sf		

LEGEND

- —<2'— UPPER AQUIFER SATURATED THICKNESS CONTOUR (feet)
- — 5 — UPPER AQUIFER SATURATED THICKNESS CONTOUR (feet)
- — 5 — UPPER AQUIFER TCE ISOCONCENTRATION CONTOUR (µg/l)
  (TCE = Trichloroethene)
- — — AREA BOUNDARY

** NO DATA AVAILABLE FOR BLUE HATCHED AREA IN OFF-SITE CAPTURE ZONE 'A'*

NOTE: AREAS DESIGNATED WITH LETTERS "a" AND "c" LOCATED NORTH OF TRACEY STREET; AREAS DESIGNATED WITH LETTER "b" LOCATED SOUTH OF TRACEY STREET

Figure 3-9

Supplemental Groundwater Assessment

Aquifer Storage and Mass-in-Place Area Map

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CHECKED & APPROVED BY: CGR		22007-070-A

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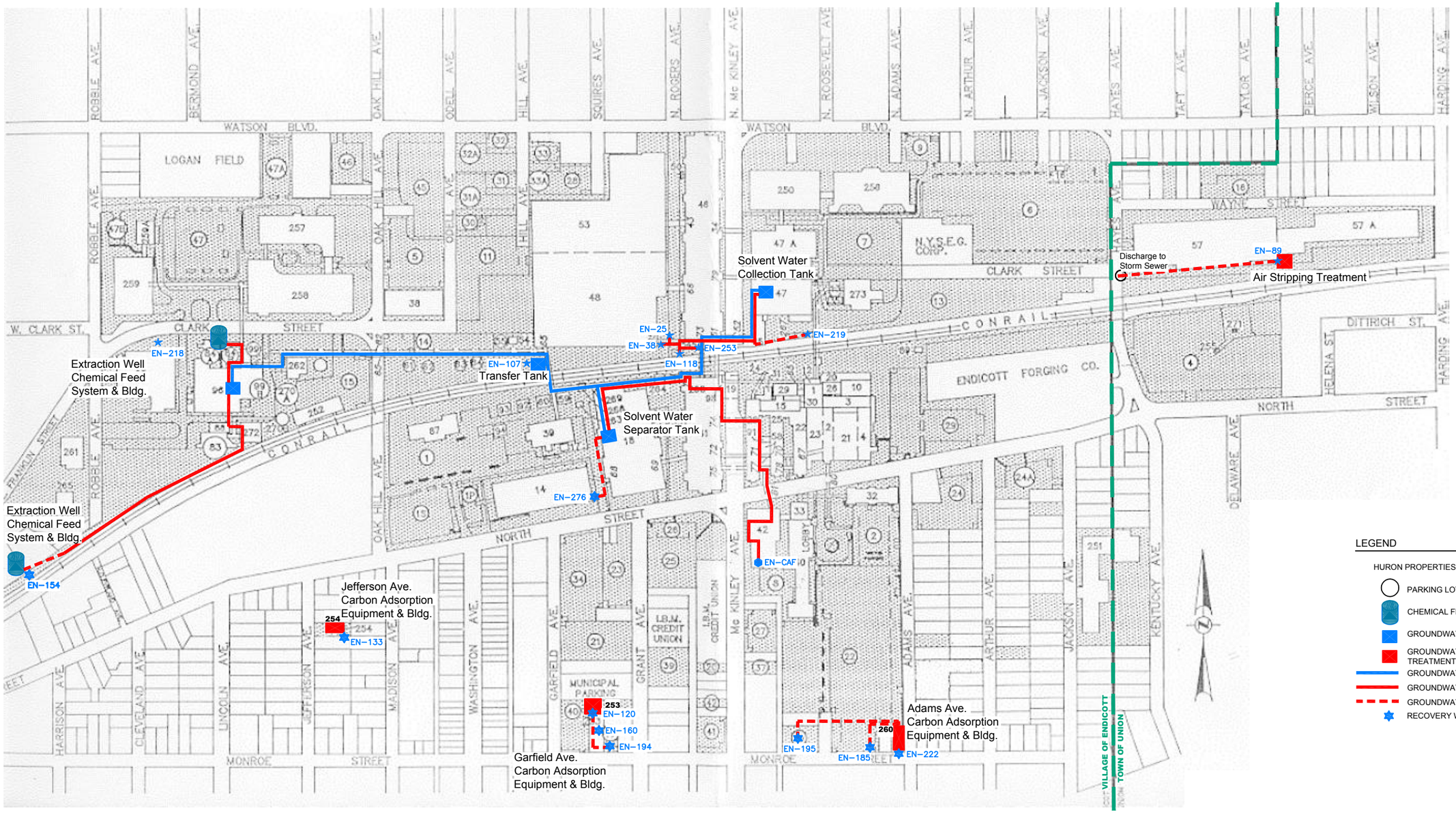


LEGEND

HURON PROPERTIES ARE SHADED

- PARKING LOT
- CHEMICAL FEED SYSTEM
- GROUNDWATER TREATMENT & BLDG.
- GROUNDWATER COLLECTION & TREATMENT EQUIPMENT
- GROUNDWATER PIPELINE (ABOVE GROUND)
- GROUNDWATER PIPELINE (ABOVE GROUND)
- GROUNDWATER PIPELINE (BELOW GROUND)
- RECOVERY WELL

Approximate Scale

0 200' 400'

Figure 3-10

Supplemental Groundwater Assessment

Elements of Current Extraction Well Systems

DRAWN BY: JB/MM	DATE: 12/30/03	DRAWING NO.
CHECKED & APPROVED BY: GSC		22007-051-A

GROUNDWATER SCIENCES CORPORATION

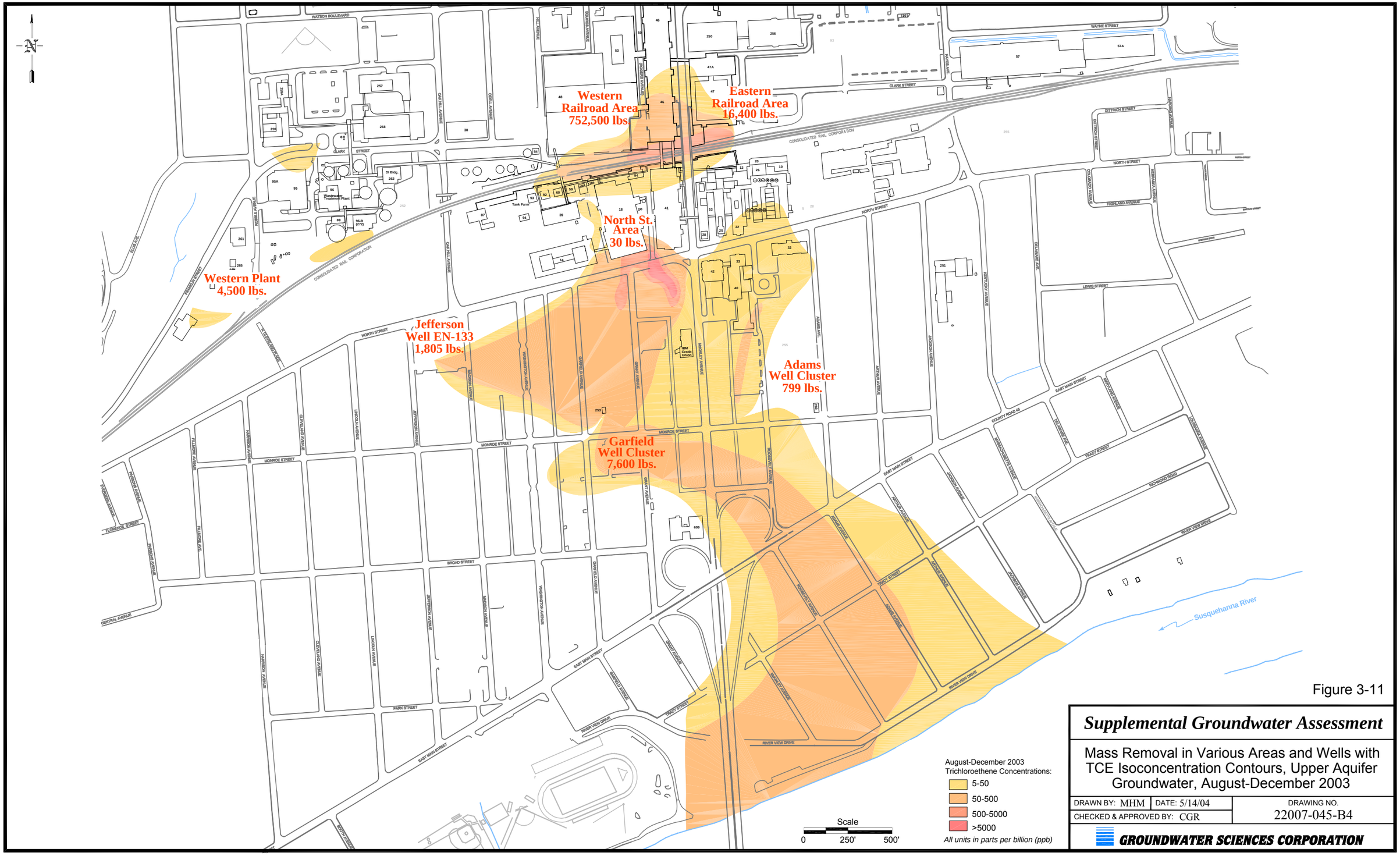


Figure 3-11

Supplemental Groundwater Assessment

Mass Removal in Various Areas and Wells with TCE Isoconcentration Contours, Upper Aquifer Groundwater, August-December 2003

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR		22007-045-B4

GROUNDWATER SCIENCES CORPORATION

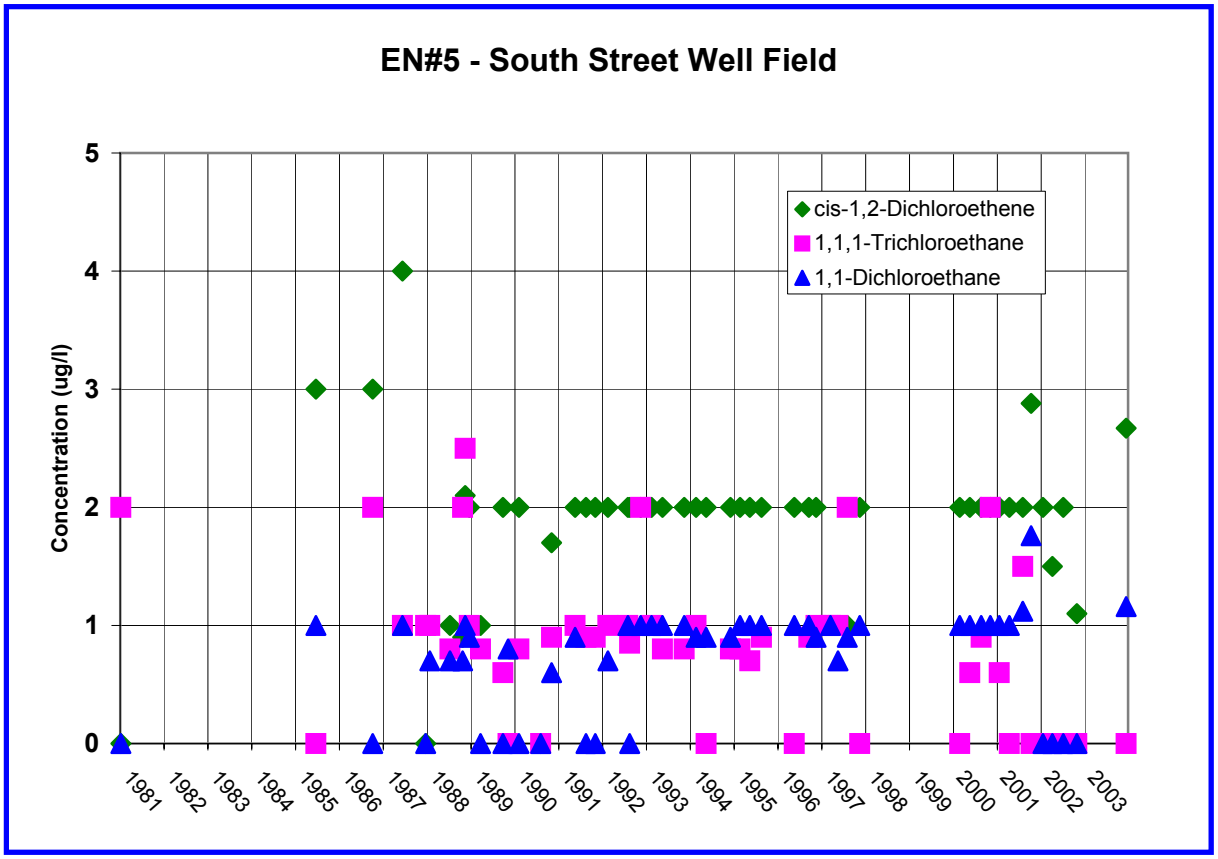


Figure 3-12. Temporal monitoring of concentrations in Village of Endicott water supply well EN#5.

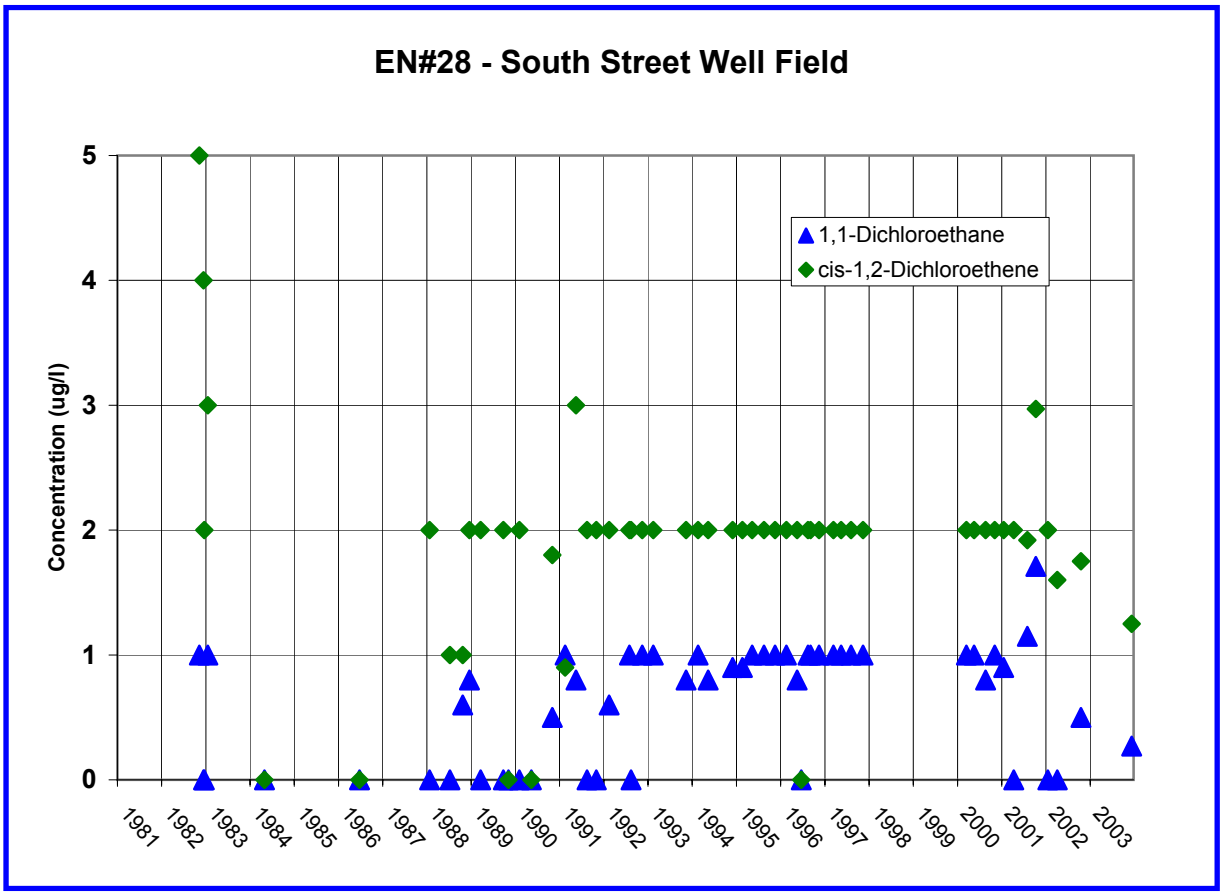


Figure 3-13. Temporal monitoring of concentrations in Village of Endicott water supply well EN#28.

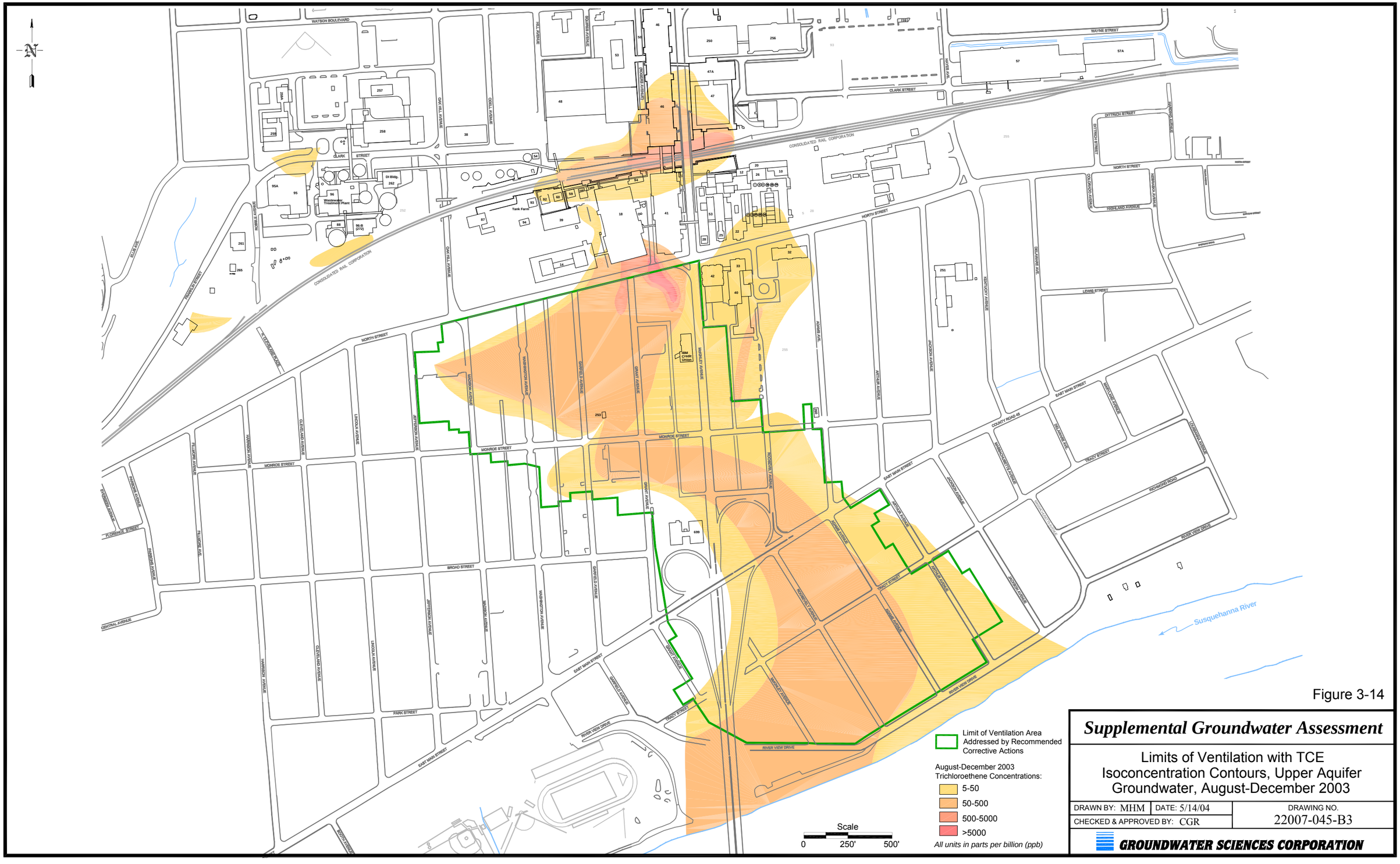


Figure 3-14

Supplemental Groundwater Assessment

Limits of Ventilation with TCE Isoconcentration Contours, Upper Aquifer Groundwater, August-December 2003

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR		22007-045-B3

GROUNDWATER SCIENCES CORPORATION

Scale

0 150' 300'

Photogrammetry by L. Robert Kimball & Associates, Ebensburg, PA; various dates, 2003.

Plate 2-1

Supplemental Groundwater Assessment

Site Map

DRAWN BY: MHM	DATE: 12/30/03	DRAWING NO.
CHECKED & APPROVED BY: CGR		22007\fromKimball\ALL

GROUNDWATER SCIENCES CORPORATION

- SGA Test Well
- SGA Stratigraphic Boring
- Upper Aquifer Monitoring Well
- Lower Aquifer Monitoring Well
- Upper Aquifer Recovery Extraction Well
- Upper Aquifer Interceptor Extraction Well
- Lower Aquifer Extraction Well
- Inactive Extraction Well
- Soil Boring
- Huron Supply Well
- Inactive Huron Supply Well
- Other Well

Red-violet color indicates SGA plan locations.

Plate 2-2

Supplemental Groundwater Assessment

Well and Boring Location Map

DRAWN BY: MHM DATE: 5/14/04	DRAWING NO. 22007-010-J5
CHECKED & APPROVED BY: CGR/CAR	

GROUNDWATER SCIENCES CORPORATION

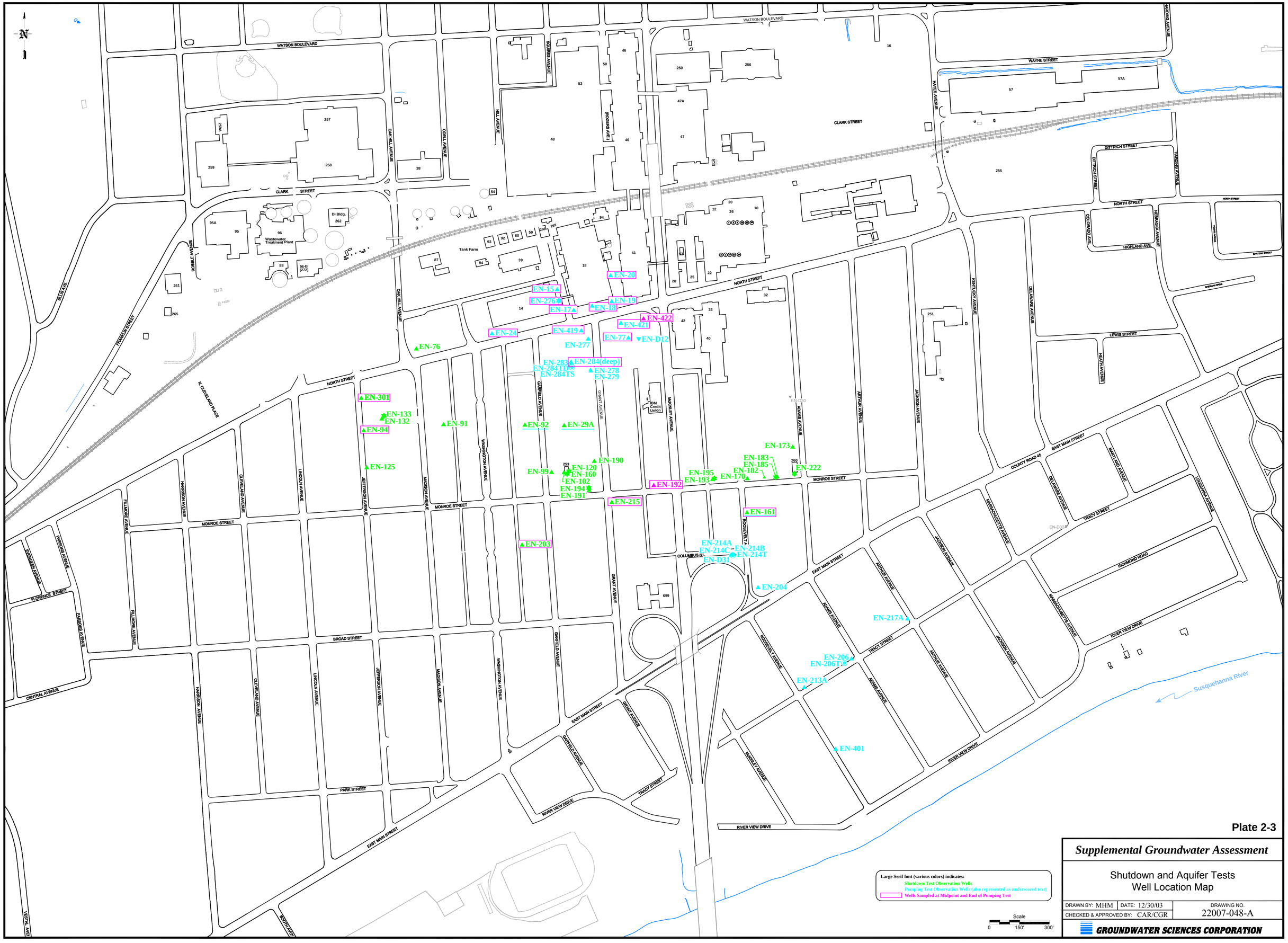


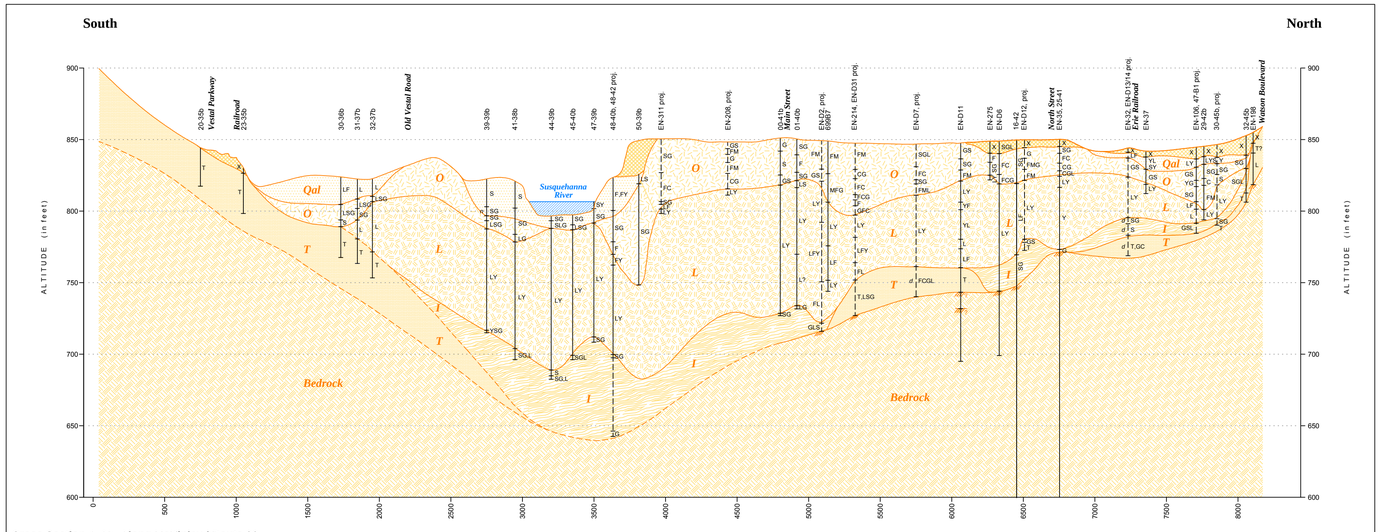
Plate 2-3

Supplemental Groundwater Assessment

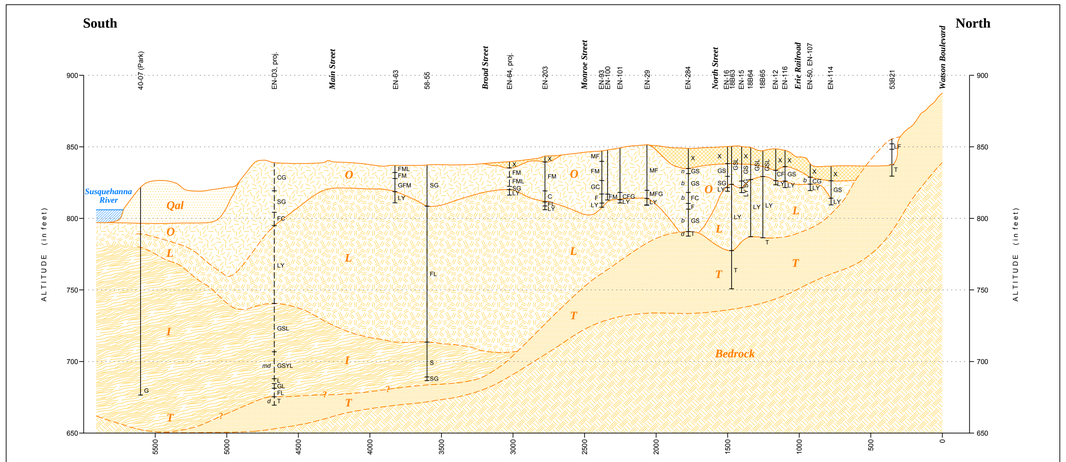
Shutdown and Aquifer Tests
Well Location Map

DRAWN BY: MHM	DATE: 12/30/03	DRAWING NO.
CHECKED & APPROVED BY: CAR/CGR		22007-048-A

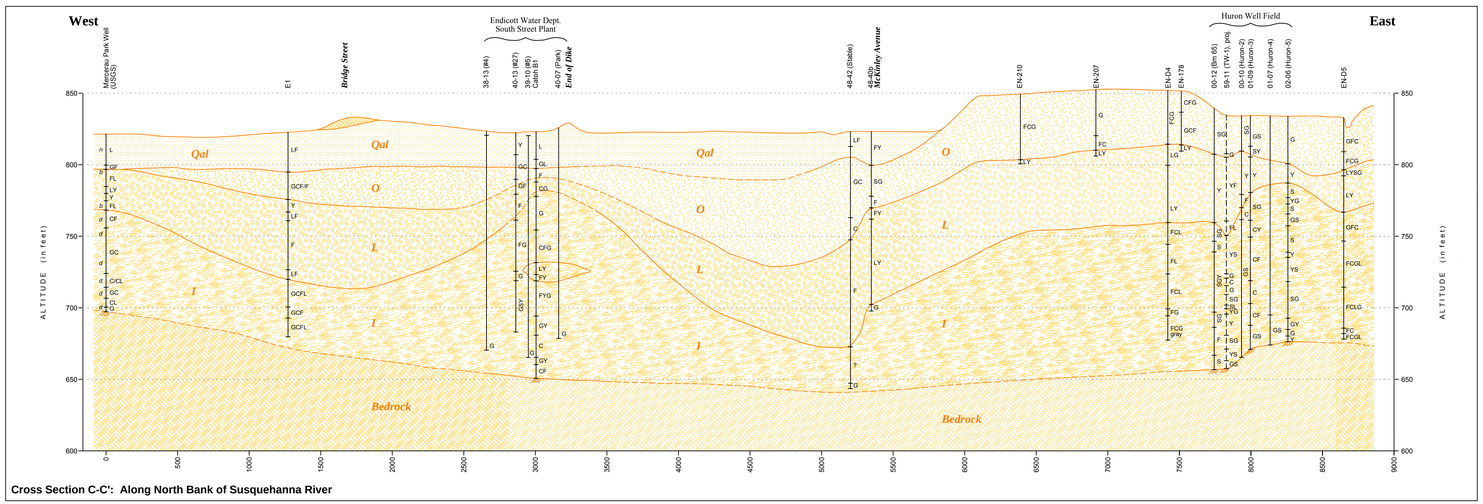
GROUNDWATER SCIENCES CORPORATION



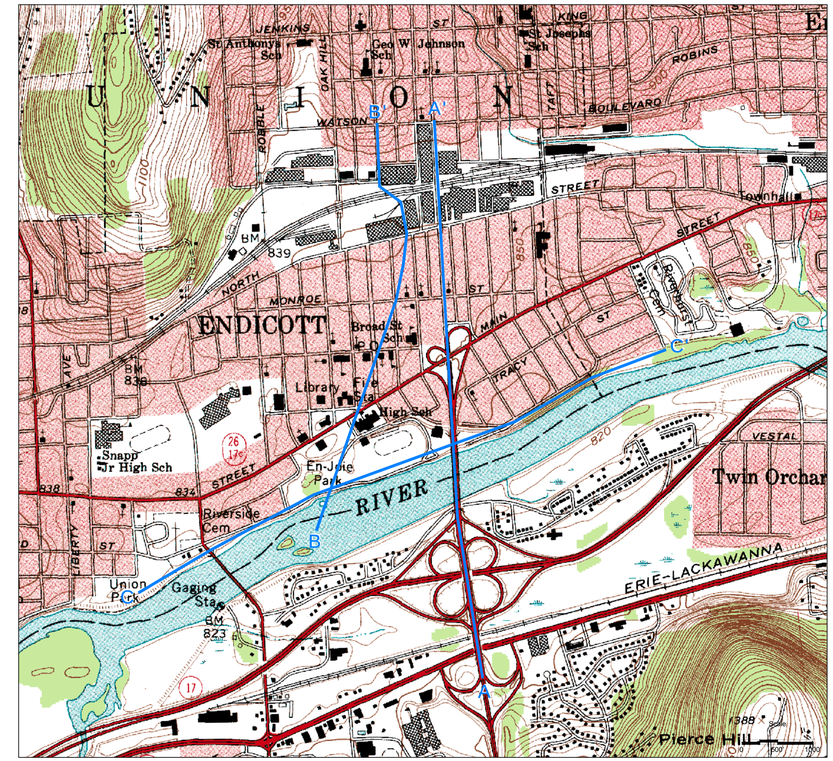
Cross Section A-A': Along McKinley / Route 26



Cross Section B-B': Along Washington / Garfield/Hill



Cross Section C-C': Along North Bank of Susquehanna River



Cross Section Location Map (1"=1000')

SYMBOLS ADJACENT TO BOREHOLES:

Grain Size (generally to right of borehole; letters arranged from left to right in order of decreasing abundance)

- G Gravel
- C Medium to very coarse sand
- F Fine to very fine sand
- L Silt
- Y Clay
- S Sand (mostly medium to very coarse, or grain size not specified)
- M Medium sand
- T Till
- X Artificial fill
- O Organic matter or peat

Lithology (generally to left of borehole):

- *b* Bright (sand highly calcareous, abundant quartz and limestone, pebbles generally 20%-50% erratics, <80% local siltstone or shale)
- *d* Drab (sand weakly calcareous, medium to very coarse sand mostly shale grains, finer sizes may be mostly quartz and include some calcareous grains; pebbles about 90% local siltstone and shale)
- *m* Intermediate
- *n* Noncalcareous (leached), or presumed noncalcareous due to presence of organic matter

Stratigraphic Units:

- Artificial fill
- *Qal* Postglacial alluvium: typically 15 feet of silt over 5-10 feet of leached channel-bar gravel near Susquehanna River; typically fine sand, silt or clay with organic matter in ice-block depressions elsewhere
- *O* Outwash: bright pebble gravel and fine to very coarse sand, locally grading down to deltaic fine to medium sand
- *L* Fine-grained deposits in extensive proglacial lake
- *I* Ice-contact stratified drift (perhaps interbedded with till)
- *T* Till (perhaps interbedded with ice-contact stratified drift)

BOREHOLES:

- Lines dashed where projected into line of section; tics indicate boundaries between units
- Top of Bedrock

Headers:

McKinley Ave.	Names of streets and other landmarks
EN-210	Prefix EN indicates wells drilled as part of previous water-quality investigations
5783	Foundation test borings for buildings; first number is building number
48-54b	Seconds of latitude and longitude; for wells listed in NYSDEC Bulletin 69; "b" indicates test boring (no well)
Other names or numbers	Well identification assigned by owner or consultant

Horizontal Scale: 1" = 500'
Vertical Scale: 1" = 50'

Vertical Exaggeration = 10X

Scale
0 250' 500'

Prepared by Allan D. Randall, USGS Retired; with edits by Groundwater Sciences Corporation.

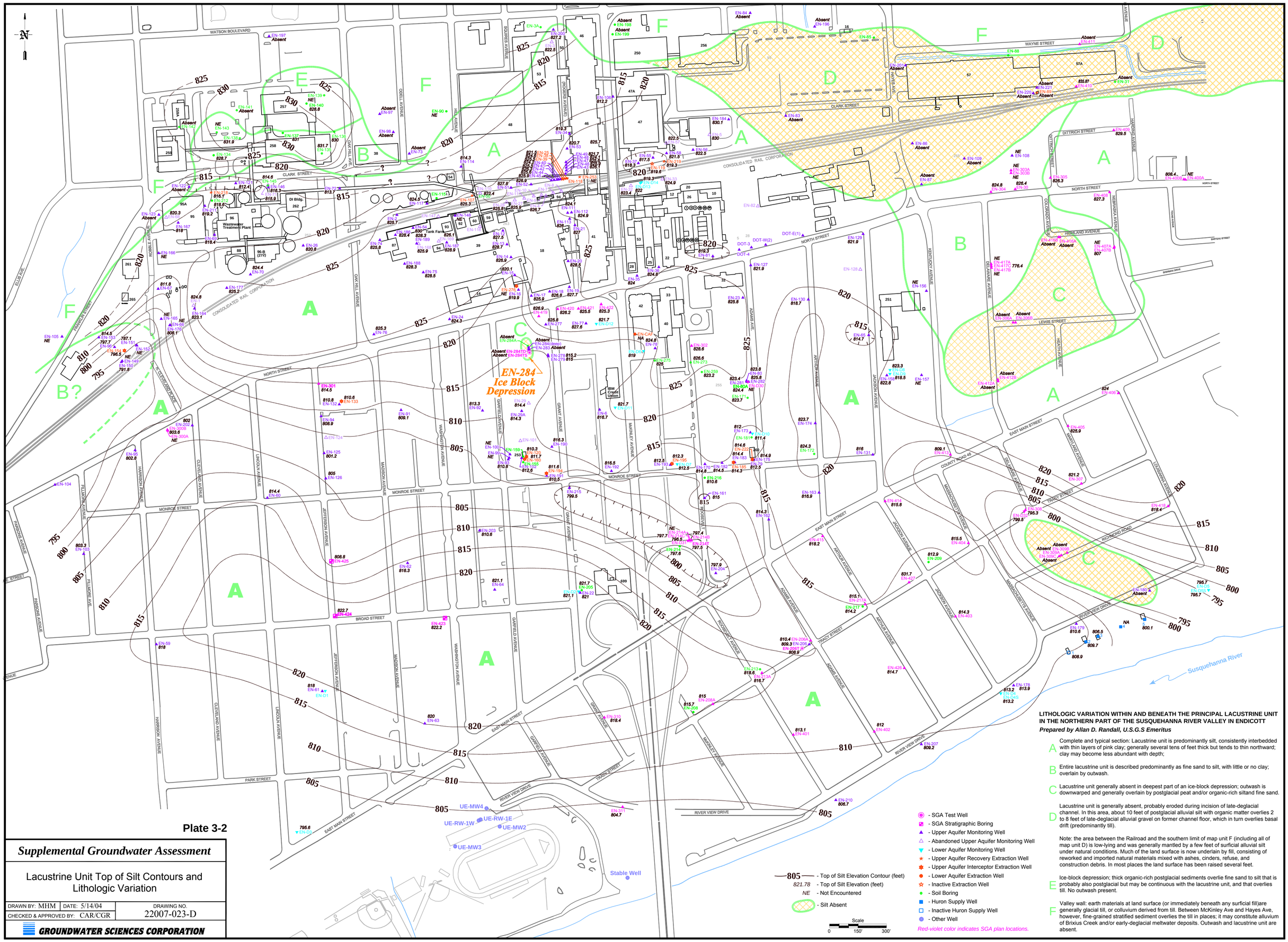
Plate 3-1

Supplemental Groundwater Assessment

Geologic Cross Sections

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: ADR/CGR		22007-CS13

GROUNDWATER SCIENCES CORPORATION


N
WATSON BOULEVARD
CLARK STREET
WAYNE STREET
DITTRICH STREET
NORTH STREET
HIGHLAND AVENUE
LEWIS STREET
EAST MAIN STREET
COUNTY ROAD 45
TRACY STREET
RICHMOND ROAD
RIVER VIEW DRIVE
MONROE STREET
BROAD STREET
PARK STREET
CONSOLIDATED RAIL CORPORATION
Wastewater Treatment Plant
Tank Farm
DI Bldg.
IBM Credit Union
EN-284
Ice Block Depression
UE-MW4
UE-RW-1W
UE-RW-1E
UE-MW2
UE-MW3
Stable Well
Susquehanna River
Plate 3-2
Supplemental Groundwater Assessment
Lacustrine Unit Top of Silt Contours and Lithologic Variation
DRAWN BY: MHM
DATE: 5/14/04
DRAWING NO. 22007-023-D
CHECKED & APPROVED BY: CAR/CGR
GROUNDWATER SCIENCES CORPORATION
805 - Top of Silt Elevation Contour (feet)
821.78 - Top of Silt Elevation (feet)
NE - Not Encountered
- Silt Absent
- SGA Test Well
- SGA Stratigraphic Boring
- Upper Aquifer Monitoring Well
- Abandoned Upper Aquifer Monitoring Well
- Lower Aquifer Monitoring Well
- Upper Aquifer Recovery Extraction Well
- Upper Aquifer Interceptor Extraction Well
- Lower Aquifer Extraction Well
- Inactive Extraction Well
- Soil Boring
- Huron Supply Well
- Inactive Huron Supply Well
- Other Well
Red-violet color indicates SGA plan locations.
Scale
0 150' 300'
LITHOLOGIC VARIATION WITHIN AND BENEATH THE PRINCIPAL LACUSTRINE UNIT IN THE NORTHERN PART OF THE SUSQUEHANNA RIVER VALLEY IN ENDICOTT
Prepared by Allan D. Randall, U.S.G.S Emeritus
A Complete and typical section: Lacustrine unit is predominantly silt, consistently interbedded with thin layers of pink clay; generally several tens of feet thick but tends to thin northward; clay may become less abundant with depth;
B Entire lacustrine unit is described predominantly as fine sand to silt, with little or no clay; overlain by outwash.
C Lacustrine unit generally absent in deepest part of an ice-block depression; outwash is downwarped and generally overlain by postglacial peat and/or organic-rich siltand fine sand.
D Lacustrine unit is generally absent, probably eroded during incision of late-deglacial channel. In this area, about 10 feet of postglacial alluvial silt with organic matter overlies 2 to 8 feet of late-deglacial alluvial gravel on former channel floor, which in turn overlies basal drift (predominantly till).
Note: the area between the Railroad and the southern limit of map unit F (including all of map unit D) is low-lying and was generally mantled by a few feet of surficial alluvial silt under natural conditions. Much of the land surface is now underlain by fill, consisting of reworked and imported natural materials mixed with ashes, cinders, refuse, and construction debris. In most places the land surface has been raised several feet.
E Ice-block depression; thick organic-rich postglacial sediments overlie fine sand to silt that is probably also postglacial but may be continuous with the lacustrine unit, and that overlies till. No outwash present.
F Valley wall: earth materials at land surface (or immediately beneath any surficial fill)are generally glacial till, or colluvium derived from till. Between McKinley Ave and Hayes Ave, however, fine-grained stratified sediment overlies the till in places; it may constitute alluvium of Brixius Creek and/or early-deglacial meltwater deposits. Outwash and lacustrine unit are absent.

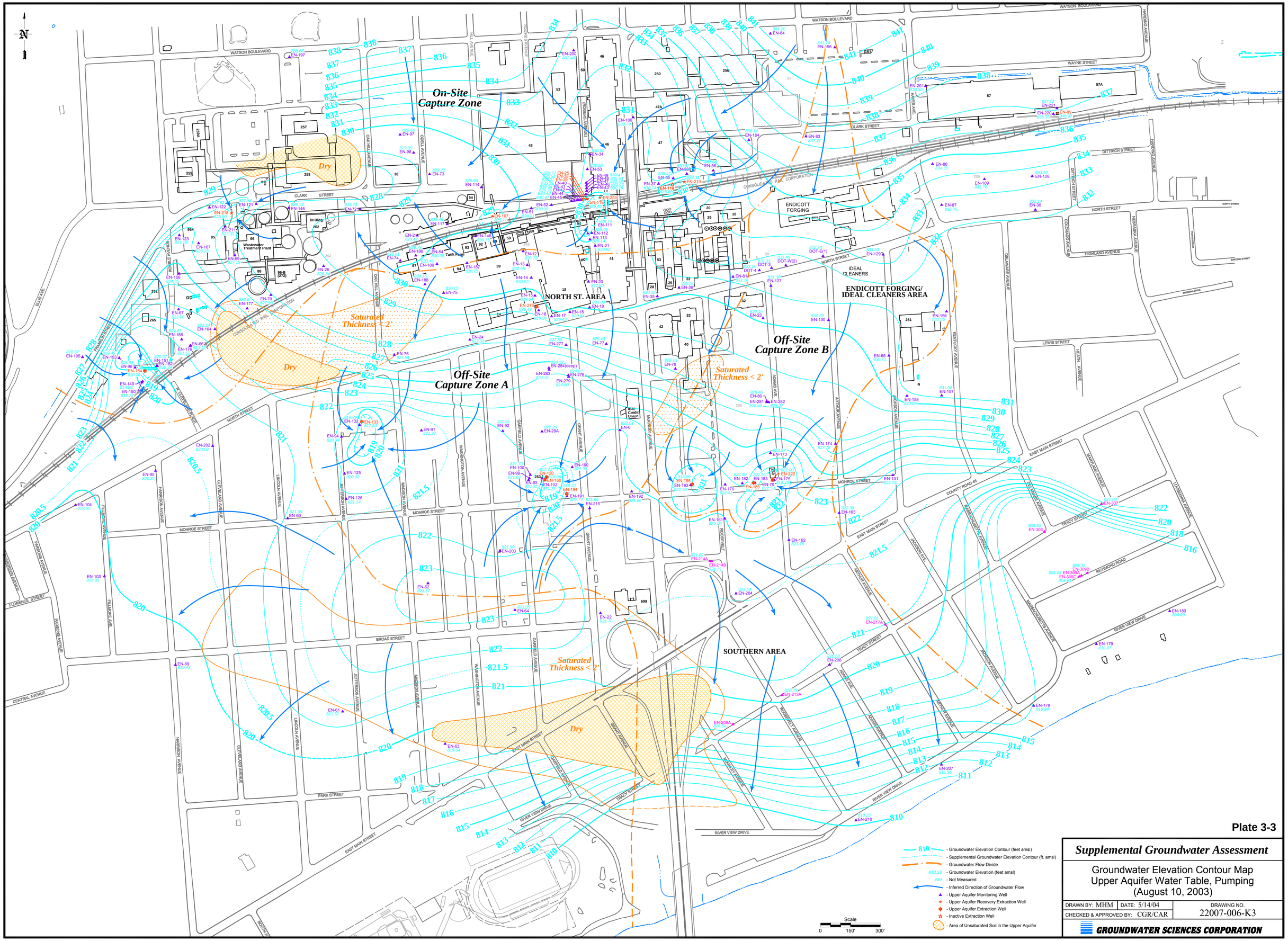


Plate 3-3

Supplemental Groundwater Assessment

Groundwater Elevation Contour Map
Upper Aquifer Water Table, Pumping
(August 10, 2003)

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-006-K3

GROUNDWATER SCIENCES CORPORATION

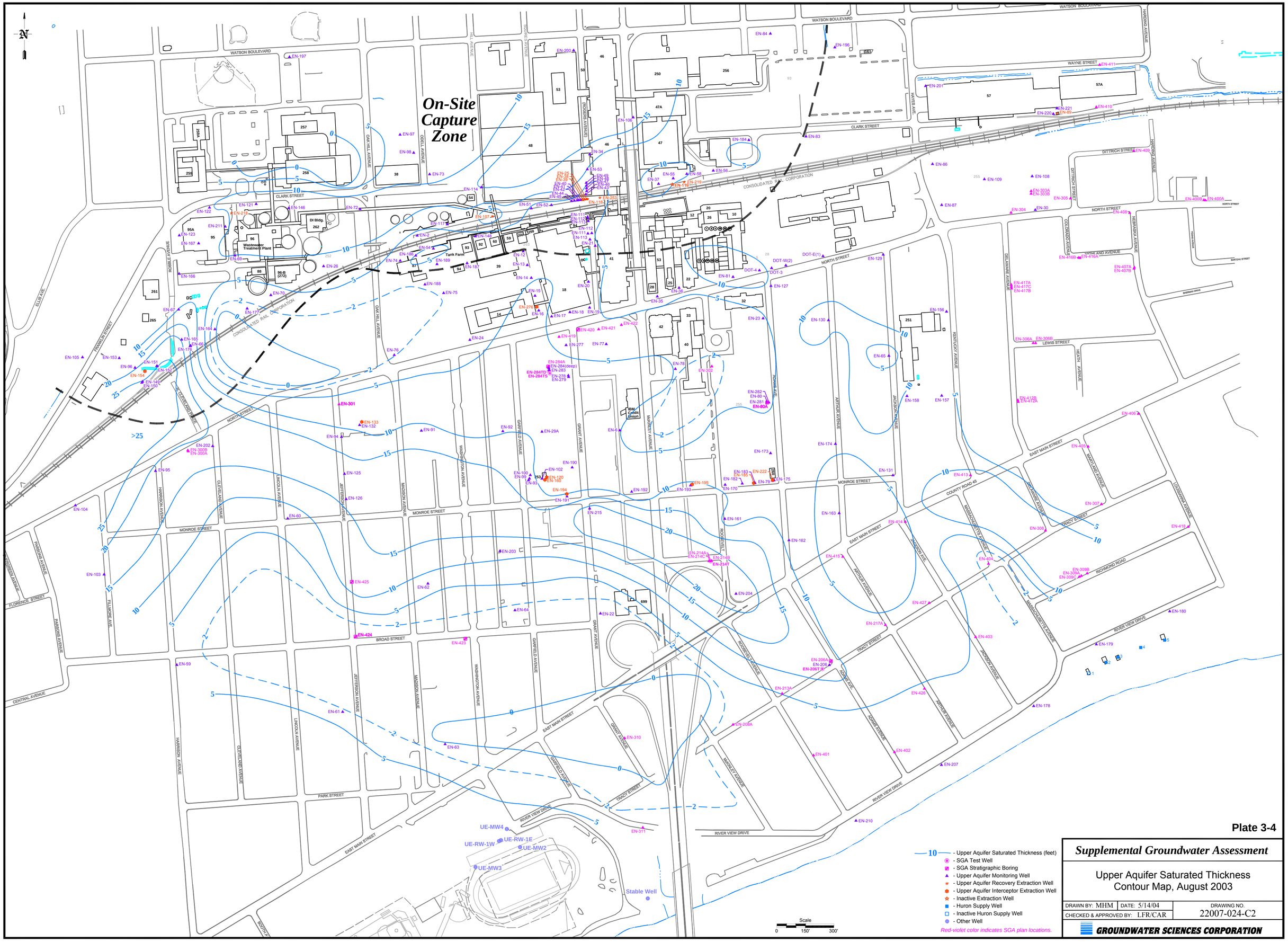


Plate 3-4

Supplemental Groundwater Assessment

Upper Aquifer Saturated Thickness Contour Map, August 2003

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: LFR/CAR		22007-024-C2

GROUNDWATER SCIENCES CORPORATION

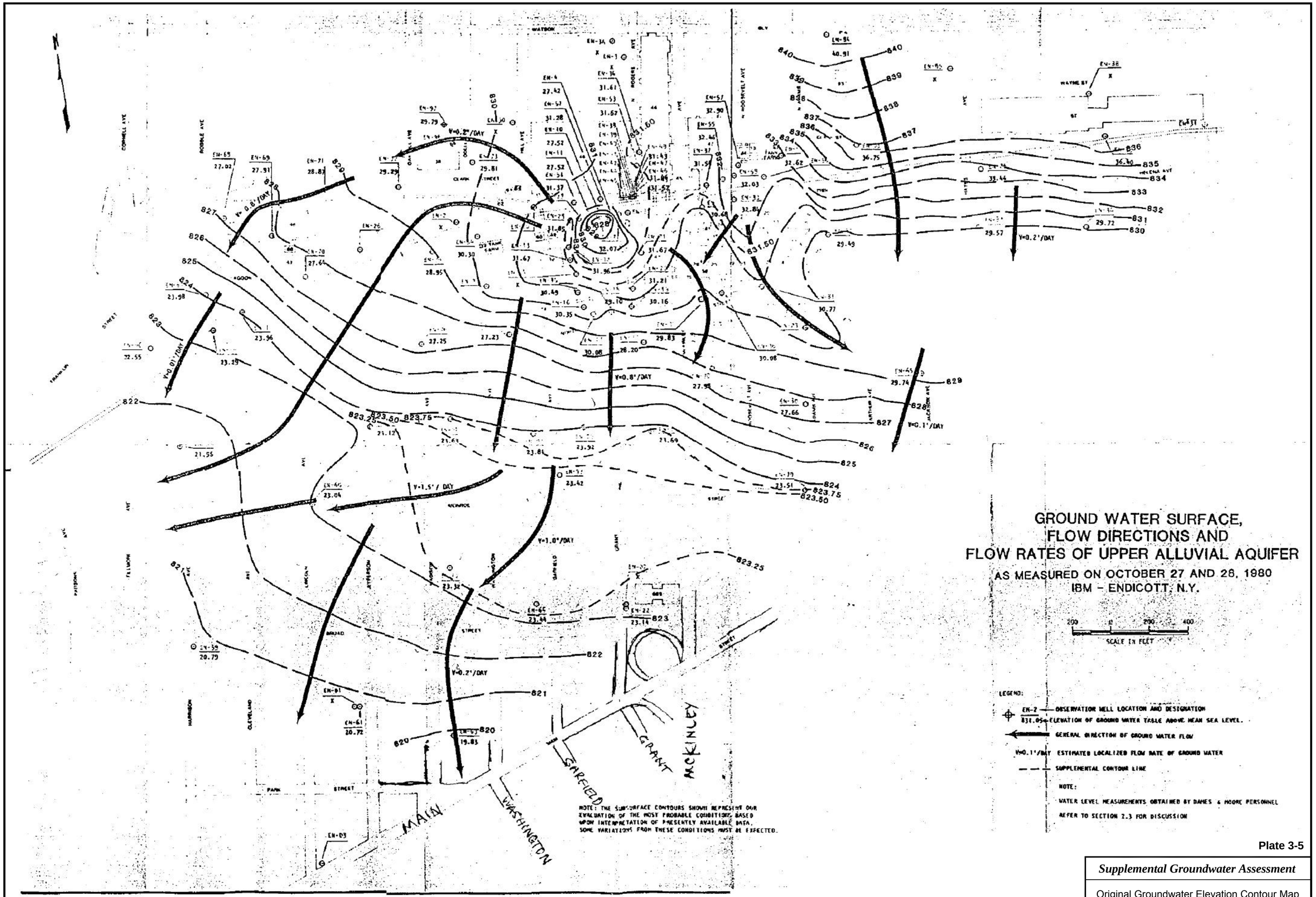


Plate 3-5

Supplemental Groundwater Assessment

Original Groundwater Elevation Contour Map
September 27, 1980

DRAWN BY: MHM	DATE: 12/30/03	DRAWING NO.
CHECKED & APPROVED BY: CGR		22007-049-A

GROUNDWATER SCIENCES CORPORATION

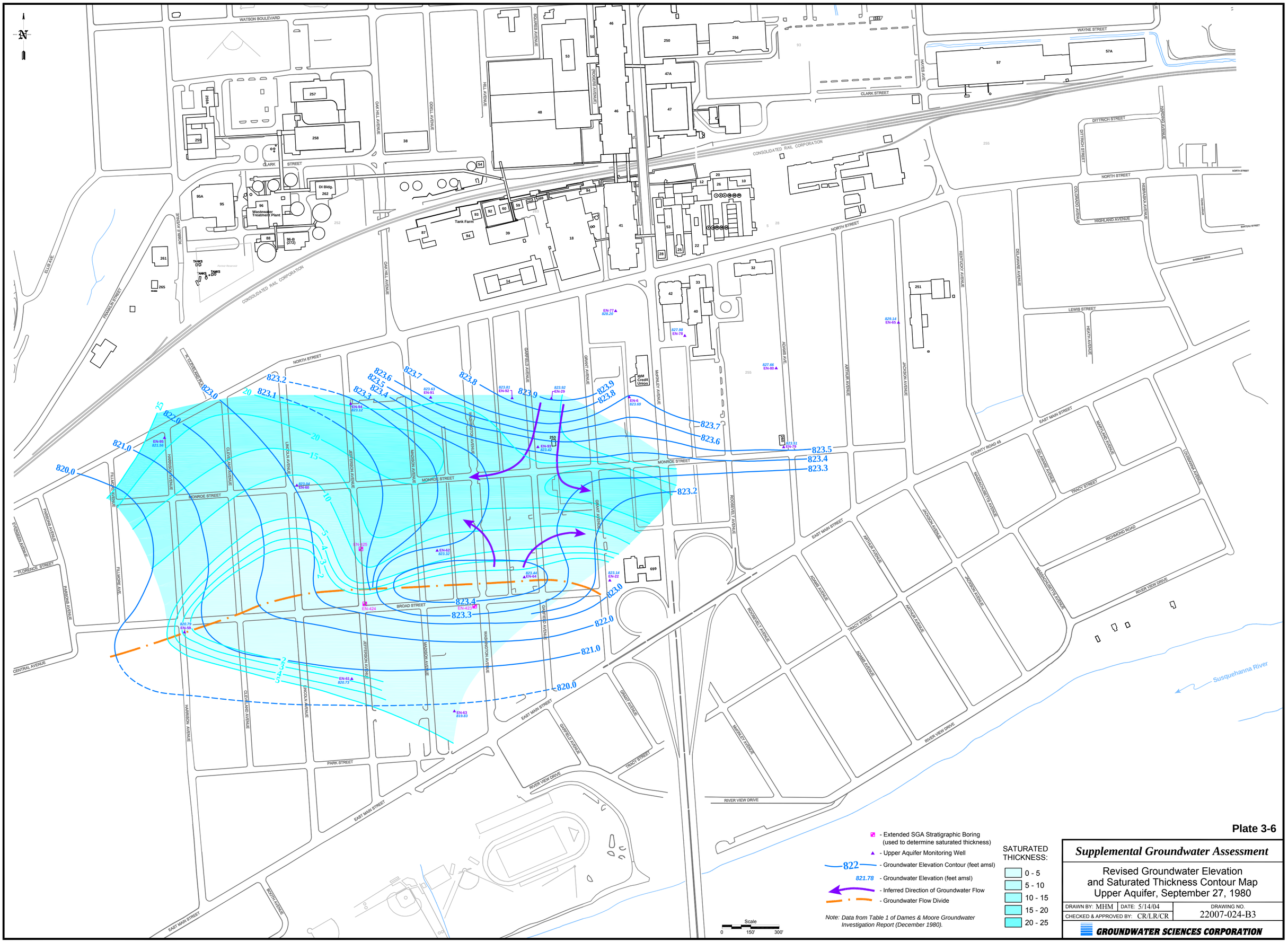


Plate 3-6

Supplemental Groundwater Assessment

Revised Groundwater Elevation and Saturated Thickness Contour Map Upper Aquifer, September 27, 1980

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CR/LR/CR		22007-024-B3

GROUNDWATER SCIENCES CORPORATION

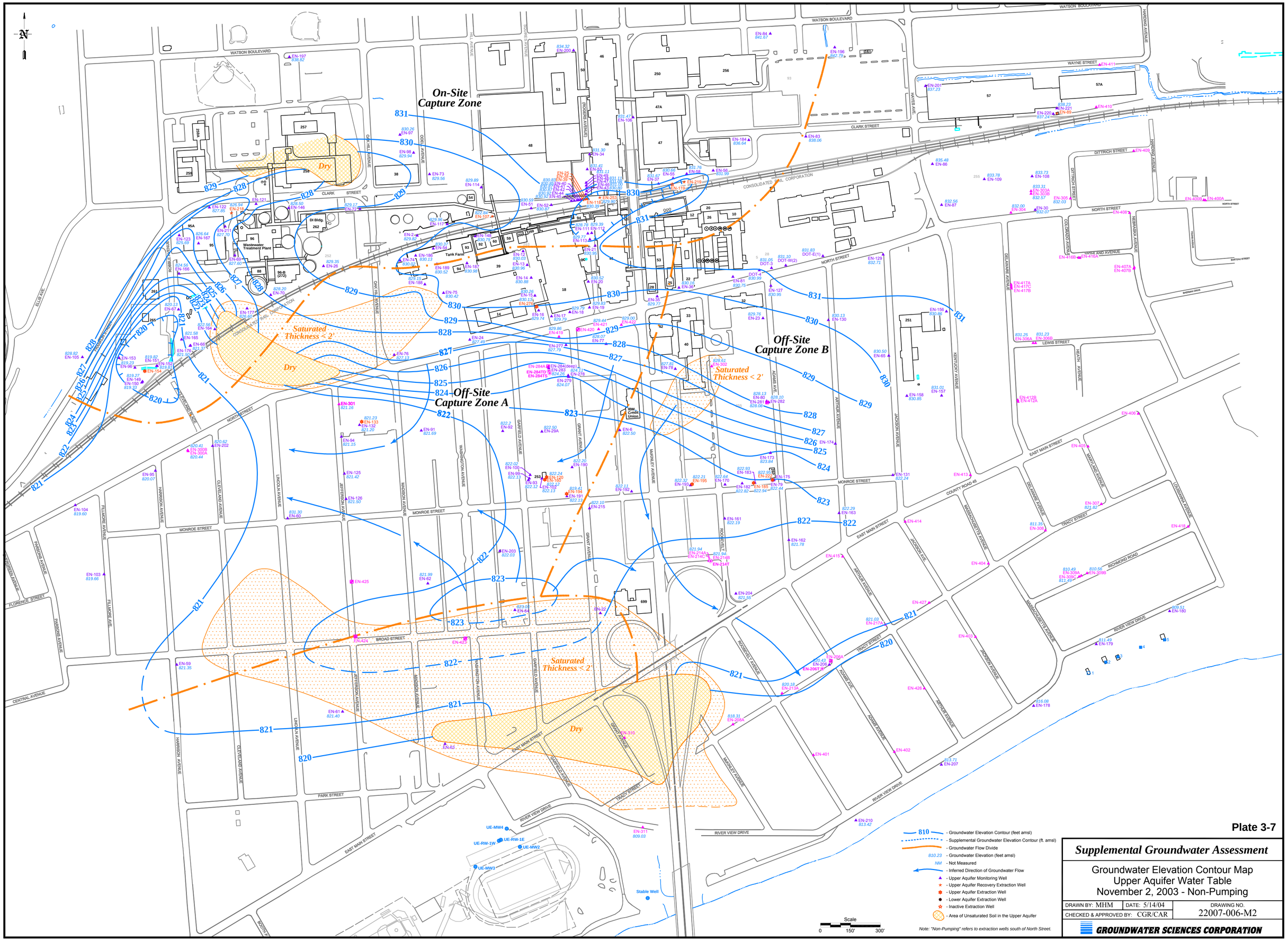


Plate 3-7

Supplemental Groundwater Assessment

Groundwater Elevation Contour Map
Upper Aquifer Water Table
November 2, 2003 - Non-Pumping

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-006-M2

GROUNDWATER SCIENCES CORPORATION

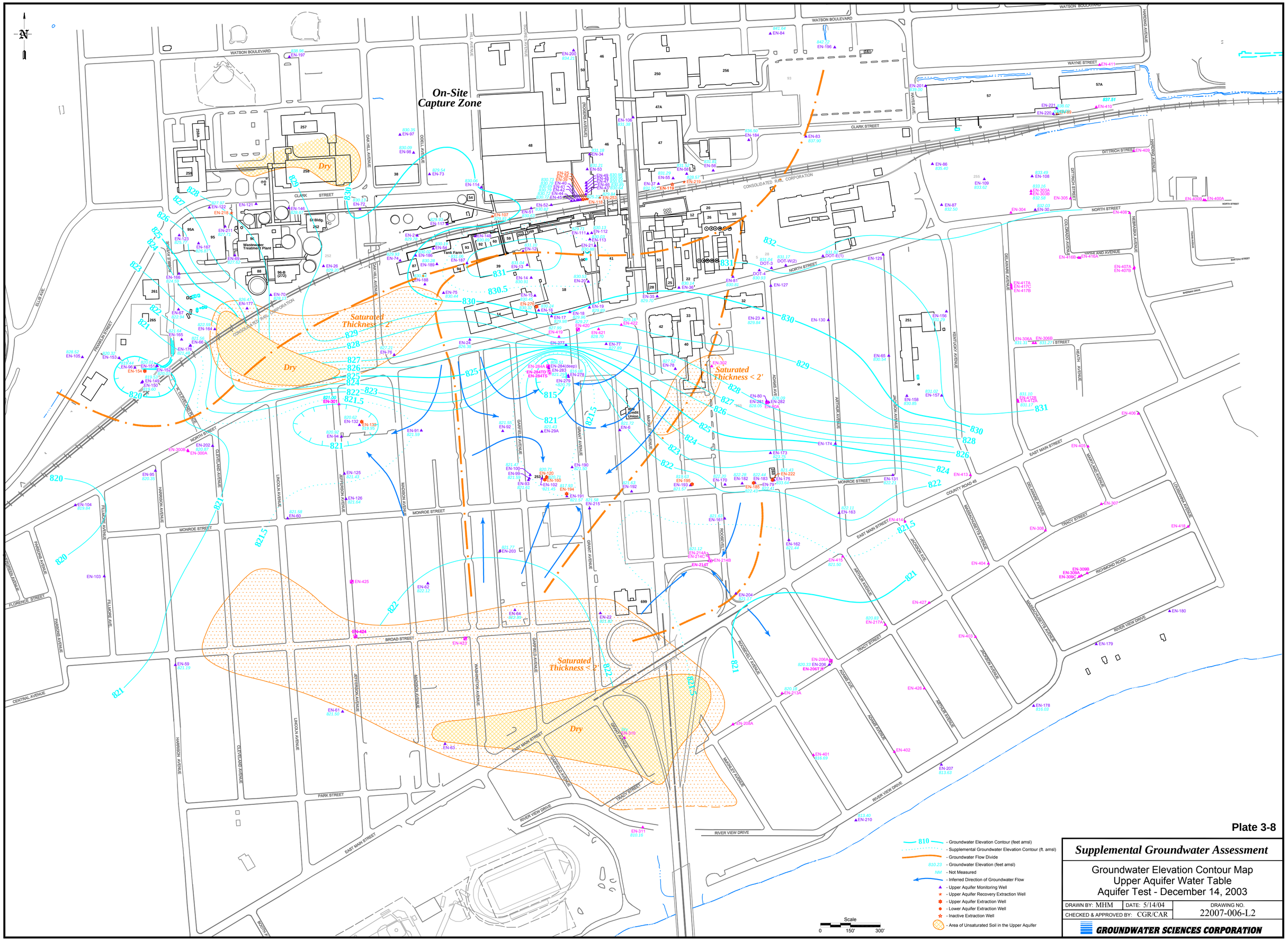


Plate 3-8

Supplemental Groundwater Assessment

Groundwater Elevation Contour Map
Upper Aquifer Water Table
Aquifer Test - December 14, 2003

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-006-L2

GROUNDWATER SCIENCES CORPORATION

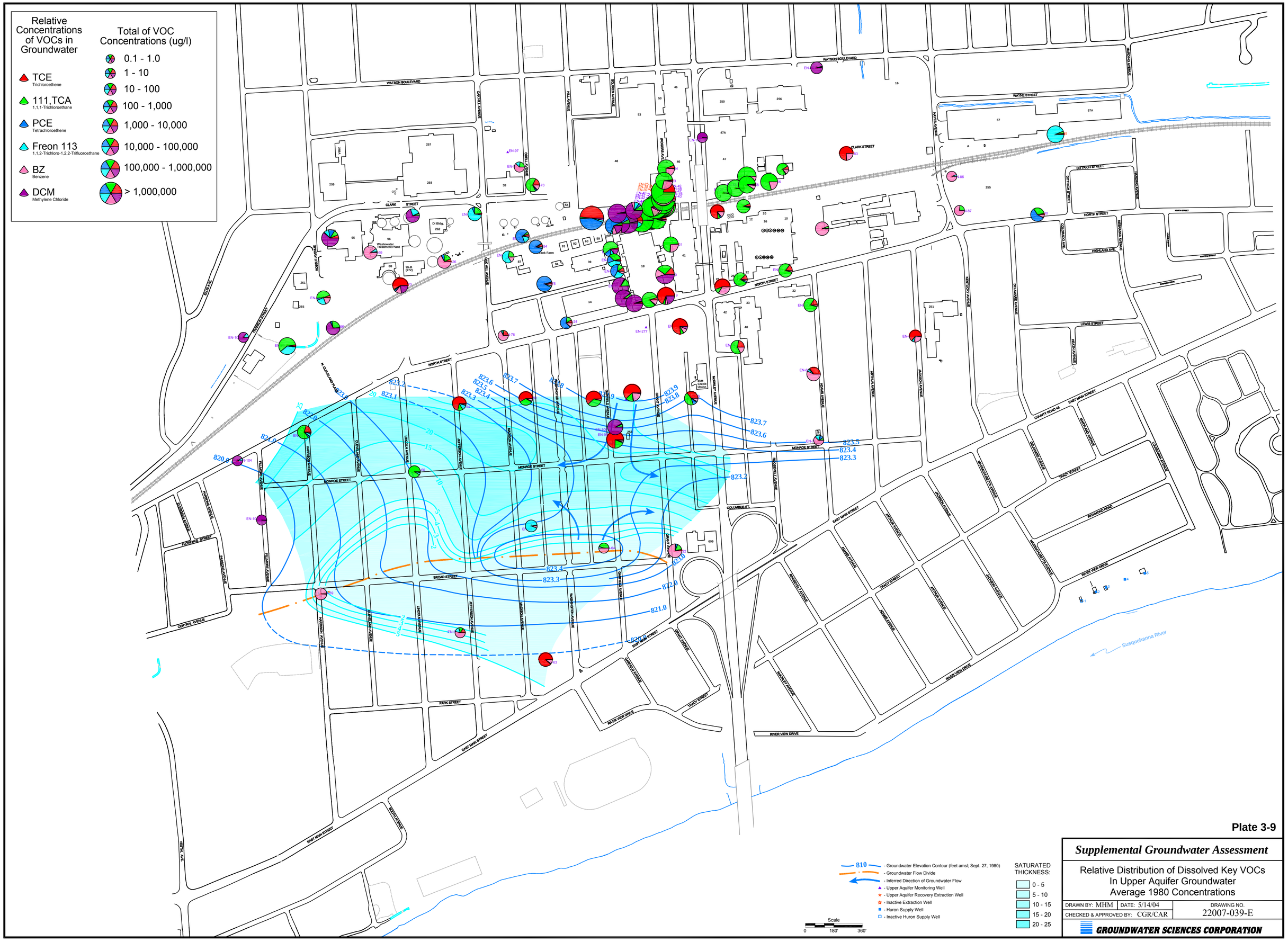


Plate 3-9

Supplemental Groundwater Assessment

Relative Distribution of Dissolved Key VOCs
In Upper Aquifer Groundwater
Average 1980 Concentrations

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-039-E

GROUNDWATER SCIENCES CORPORATION

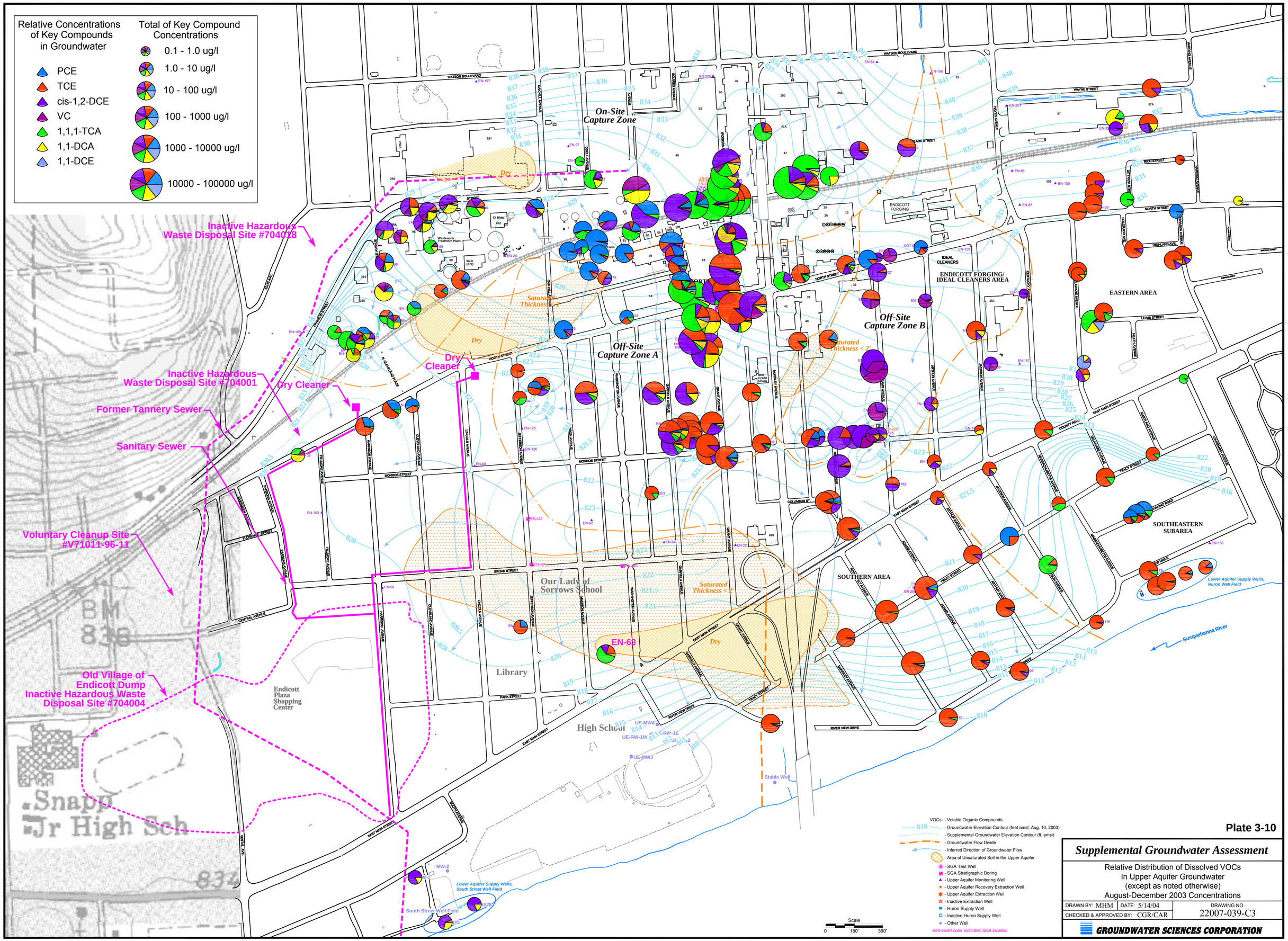


Plate 3-10

Supplemental Groundwater Assessment

Relative Distribution of Dissolved VOCs
In Upper Aquifer Groundwater
(except as noted otherwise)
August-December 2003 Concentrations

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO. 22007-039-C3
CHECKED & APPROVED BY: CGR/CAR		

GROUNDWATER SCIENCES CORPORATION

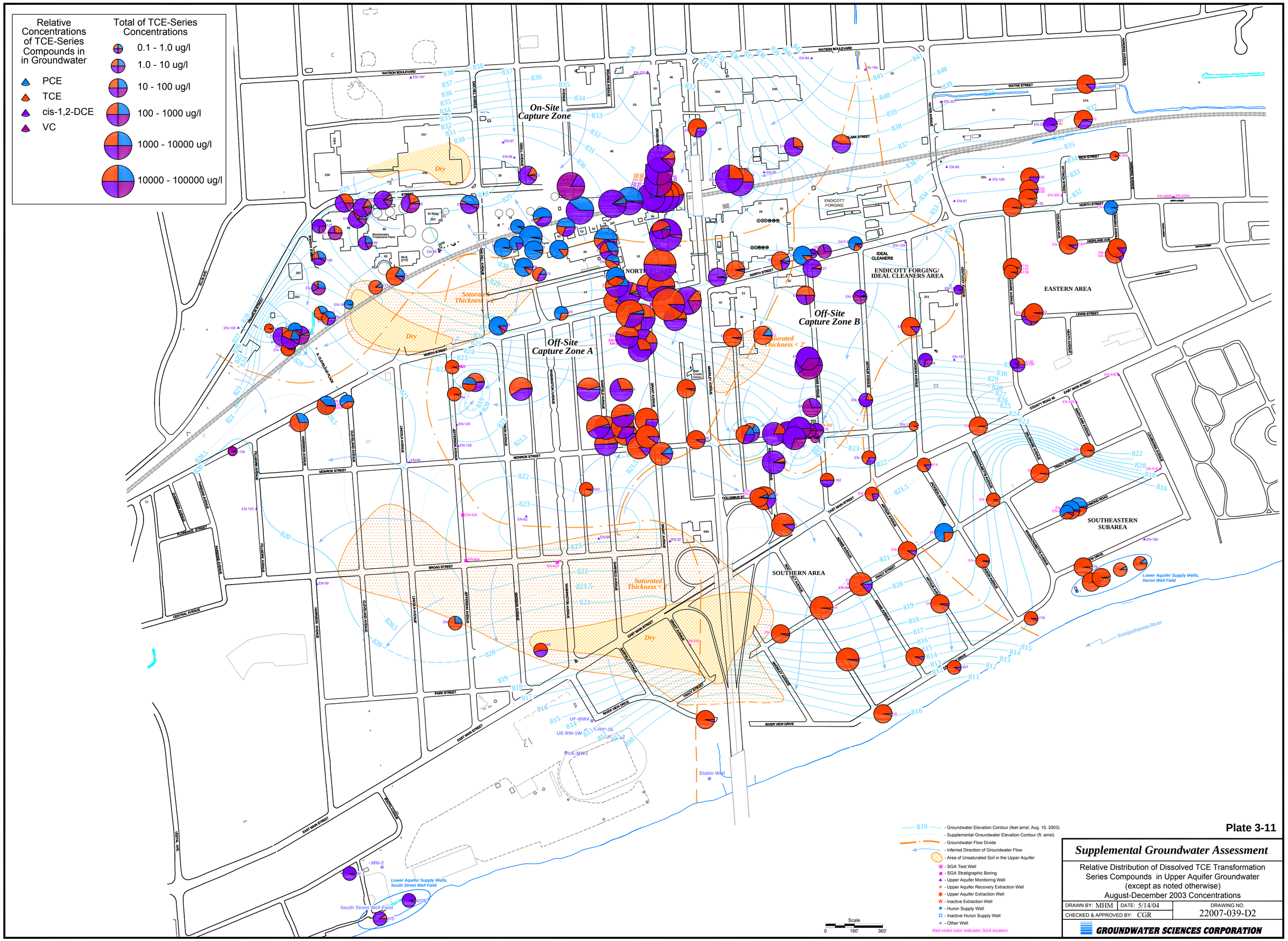


Plate 3-11

Supplemental Groundwater Assessment

Relative Distribution of Dissolved TCE Transformation Series Compounds in Upper Aquifer Groundwater (except as noted otherwise)
August-December 2003 Concentrations

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO. 22007-039-D2
CHECKED & APPROVED BY: CGR		

GROUNDWATER SCIENCES CORPORATION

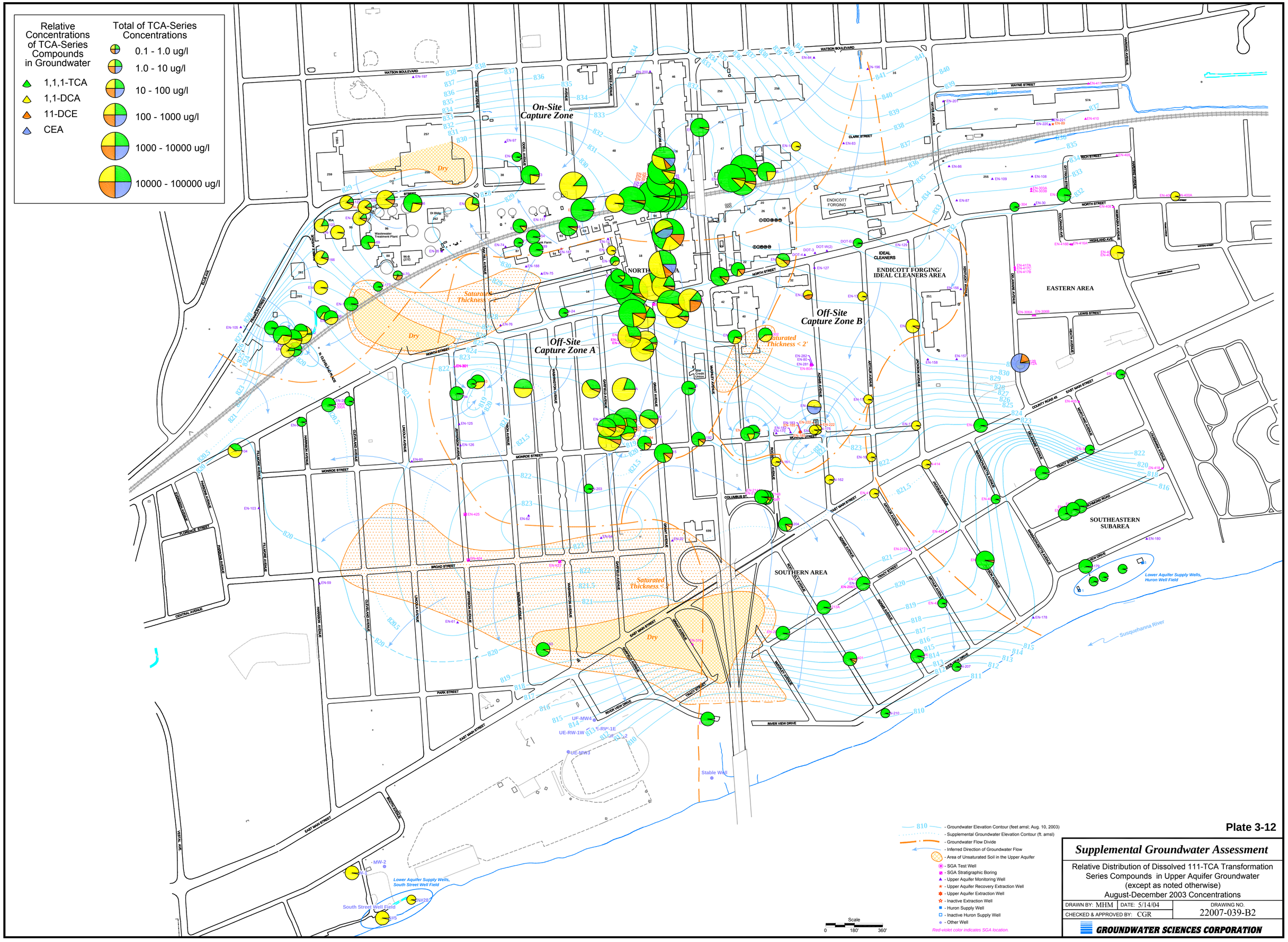


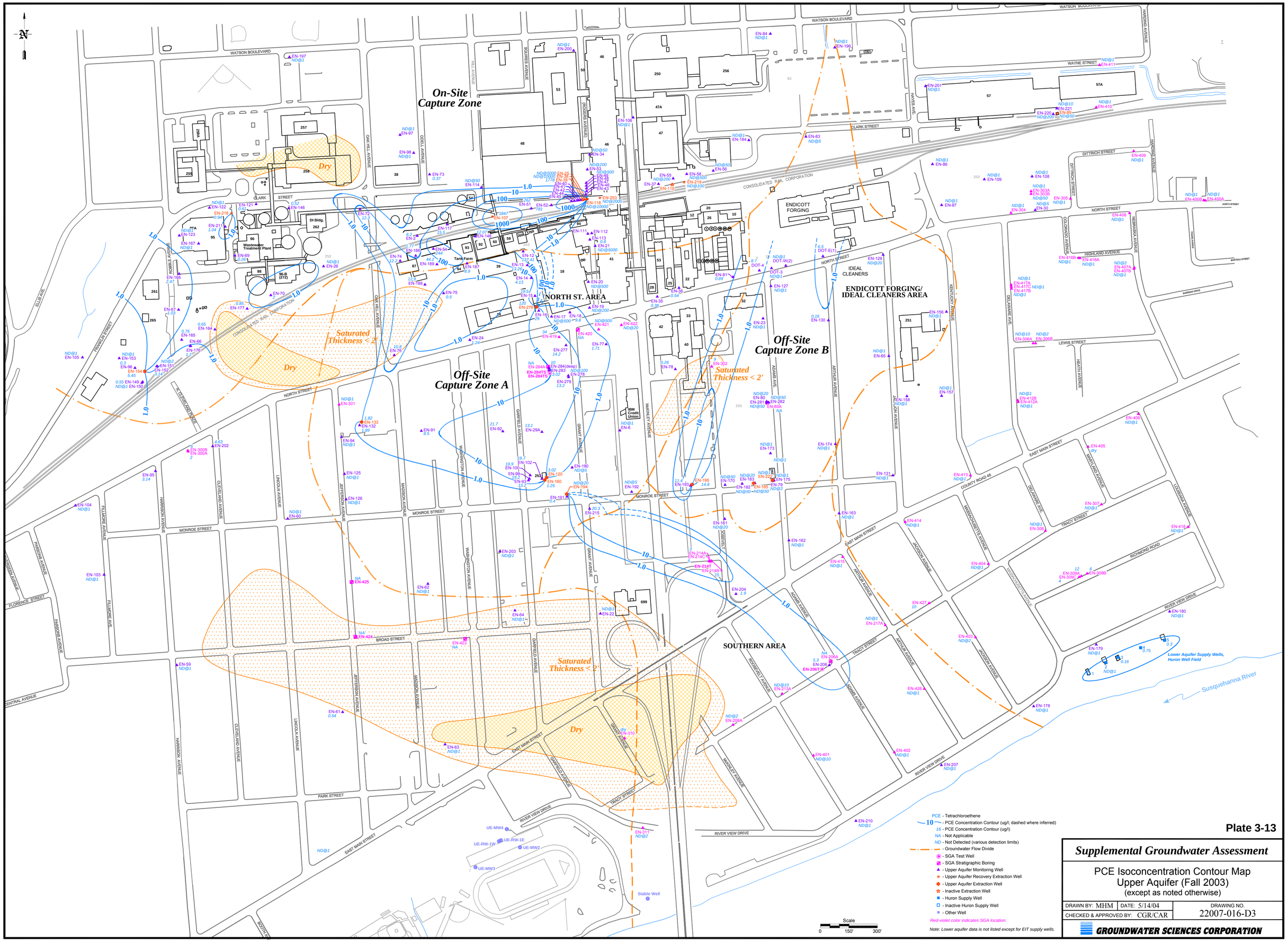
Plate 3-12

Supplemental Groundwater Assessment

Relative Distribution of Dissolved 111-TCA Transformation Series Compounds in Upper Aquifer Groundwater
(except as noted otherwise)
August-December 2003 Concentrations

DRAWN BY: MHM	DATE: 5/14/04
CHECKED & APPROVED BY: CGR	DRAWING NO. 22007-039-B2

GROUNDWATER SCIENCES CORPORATION



PCE - Tetrachloroethene
10 - PCE Concentration Contour (ug/l; dashed where inferred)
16 - PCE Concentration Contour (ug/l)
NA - Not Applicable
ND - Not Detected (various detection limits)
- Groundwater Flow Divide
- SGA Test Well
- SGA Stratigraphic Boring
- Upper Aquifer Monitoring Well
- Upper Aquifer Recovery Extraction Well
- Upper Aquifer Extraction Well
- Inactive Extraction Well
- Huron Supply Well
- Inactive Huron Supply Well
- Other Well

Red-violet color indicates SGA location.

Note: Lower aquifer data is not listed except for EIT supply wells.

Plate 3-13

Supplemental Groundwater Assessment

PCE Isoconcentration Contour Map
Upper Aquifer (Fall 2003)
(except as noted otherwise)

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-016-D3

GROUNDWATER SCIENCES CORPORATION

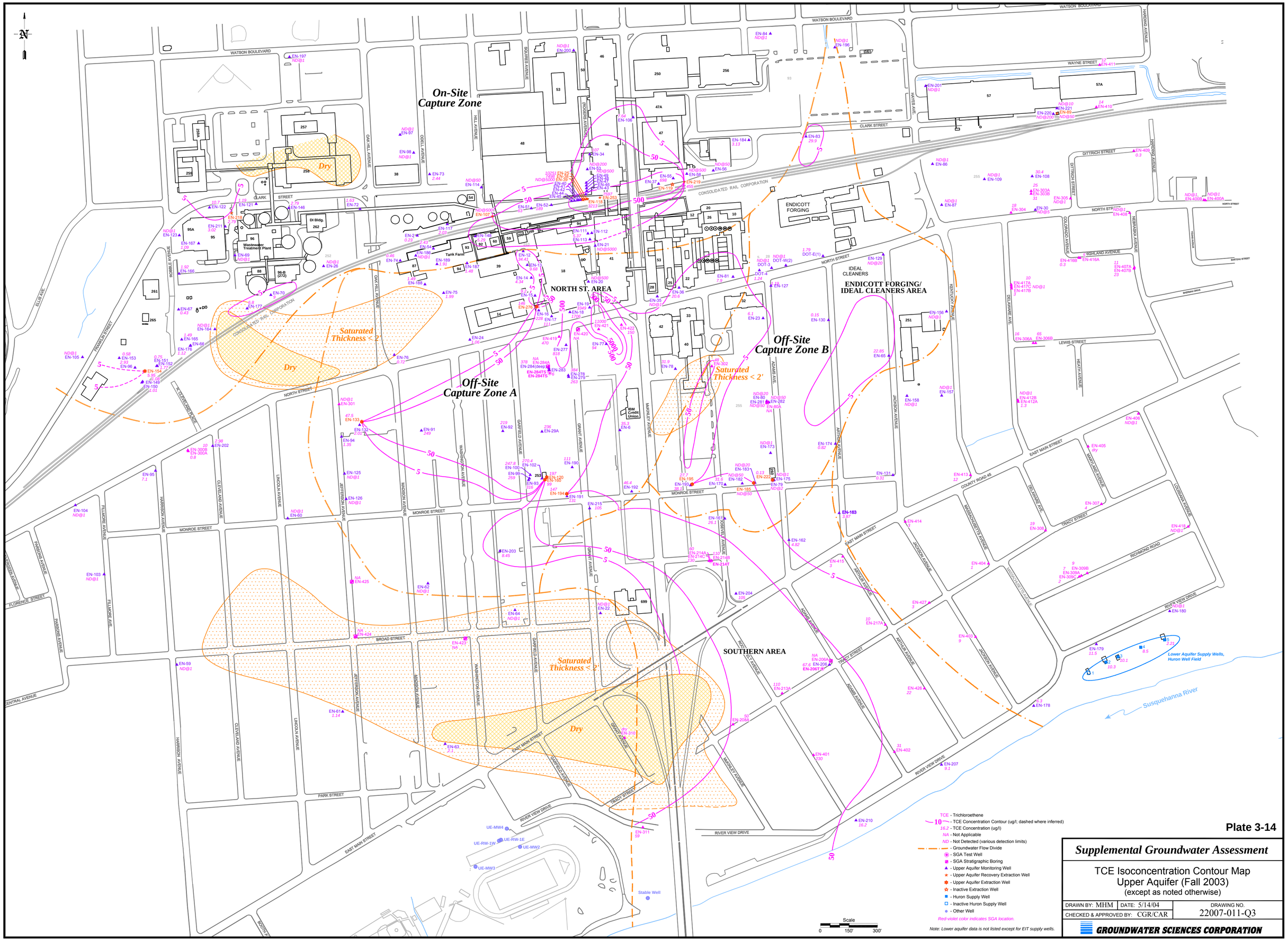


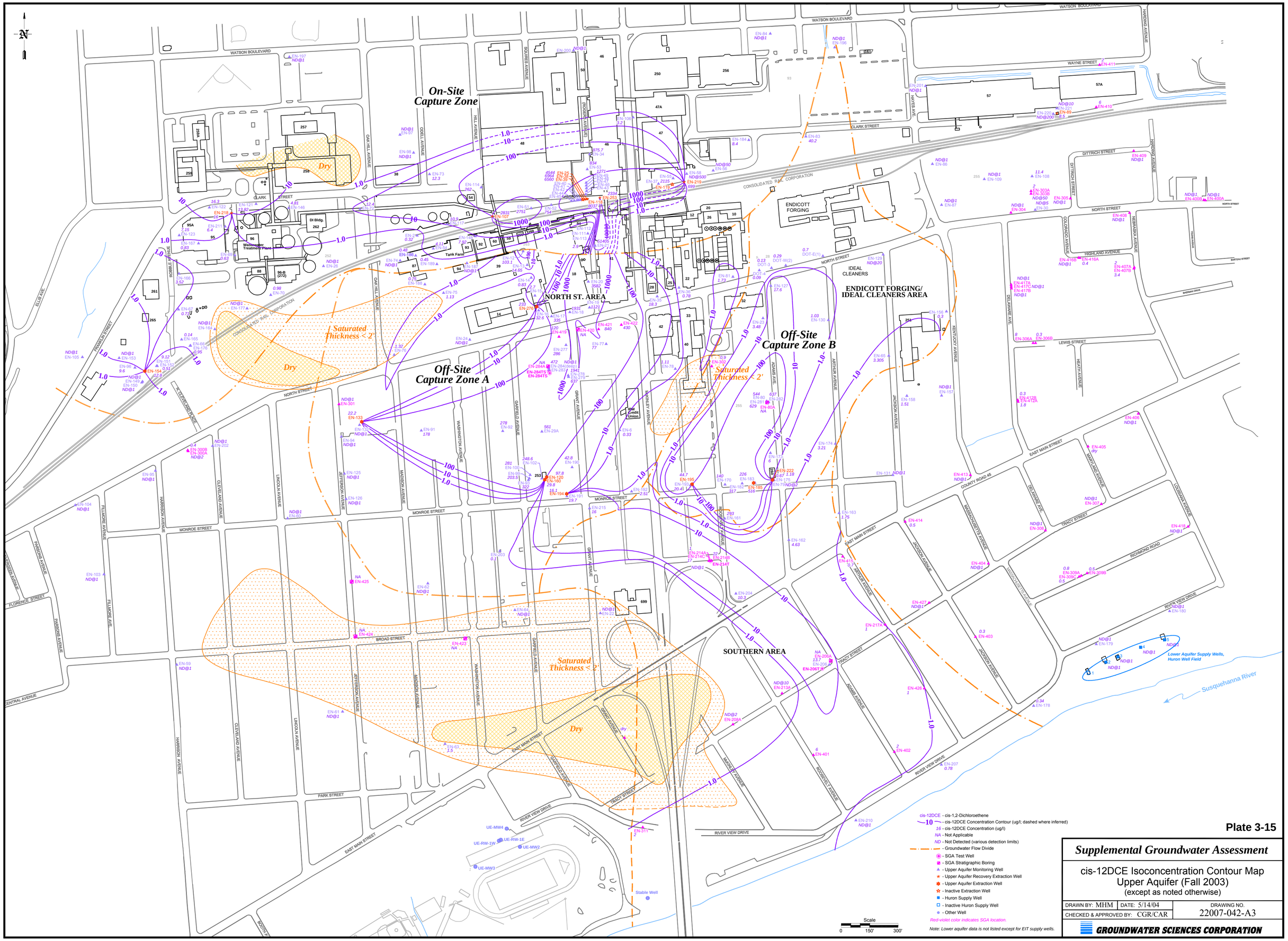
Plate 3-14

Supplemental Groundwater Assessment

TCE Isoconcentration Contour Map
Upper Aquifer (Fall 2003)
(except as noted otherwise)

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-011-Q3

GROUNDWATER SCIENCES CORPORATION


On-Site Capture Zone
Off-Site Capture Zone A
Off-Site Capture Zone B
NORTH ST. AREA
SOUTHERN AREA
ENDICOTT FORGING/ IDEAL CLEANERS AREA
Dry
Saturated Thickness < 2'
Lower Aquifer Supply Wells, Huron Well Field
Susquehanna River
cis-12DCE - cis-1,2-Dichloroethene
10 - cis-12DCE Concentration Contour (ug/l; dashed where inferred)
16 - cis-12DCE Concentration (ug/l)
NA - Not Applicable
ND - Not Detected (various detection limits)
- Groundwater Flow Divide
- SGA Test Well
- SGA Stratigraphic Boring
- Upper Aquifer Monitoring Well
- Upper Aquifer Recovery Extraction Well
- Upper Aquifer Extraction Well
- Inactive Extraction Well
- Huron Supply Well
- Inactive Huron Supply Well
- Other Well
Red-violet color indicates SGA location.
Note: Lower aquifer data is not listed except for EIT supply wells.
Scale
0 150' 300'
Plate 3-15
Supplemental Groundwater Assessment
cis-12DCE Isoconcentration Contour Map
Upper Aquifer (Fall 2003)
(except as noted otherwise)
DRAWN BY: MHM
DATE: 5/14/04
CHECKED & APPROVED BY: CGR/CAR
DRAWING NO. 22007-042-A3
GROUNDWATER SCIENCES CORPORATION

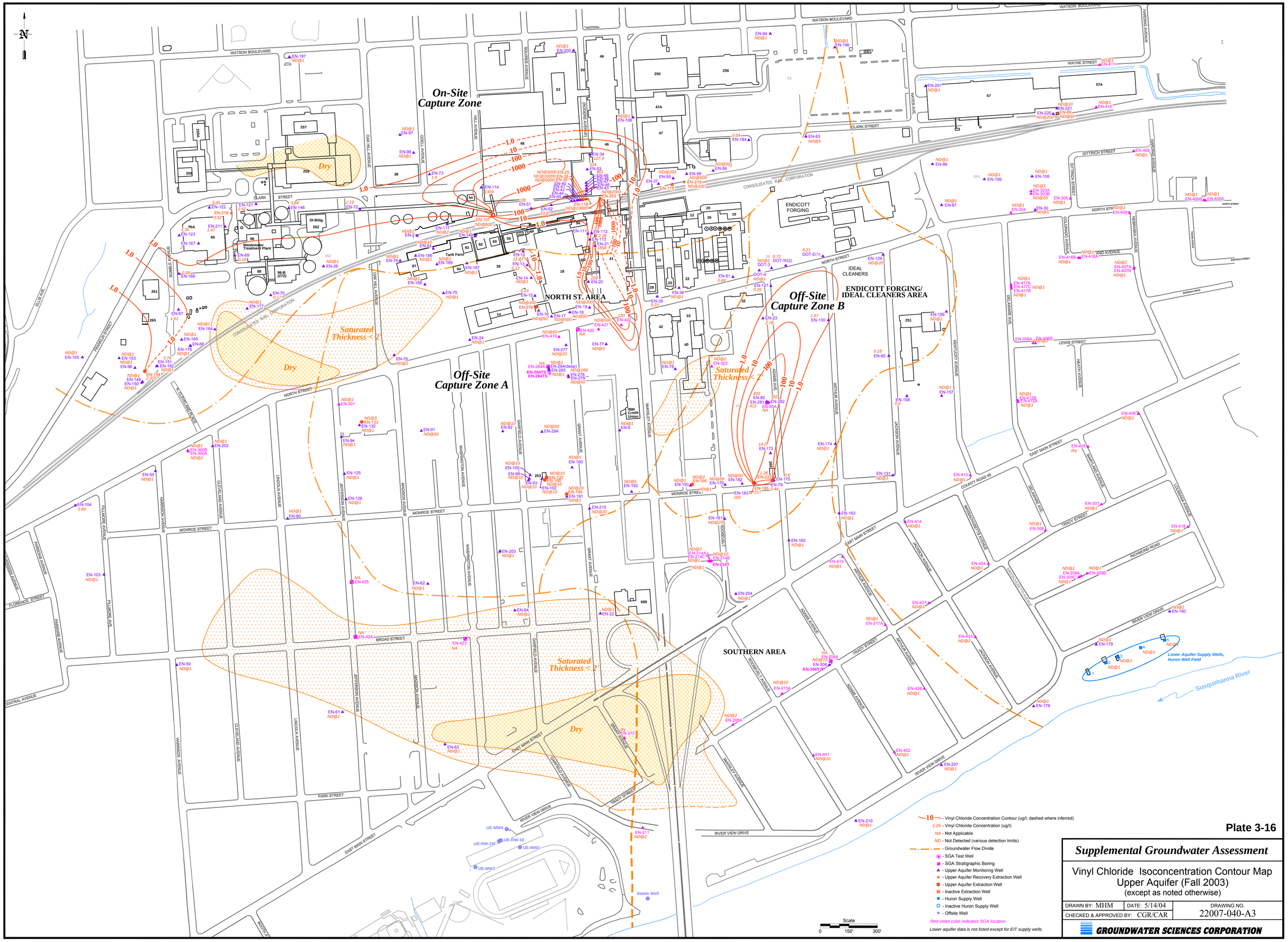


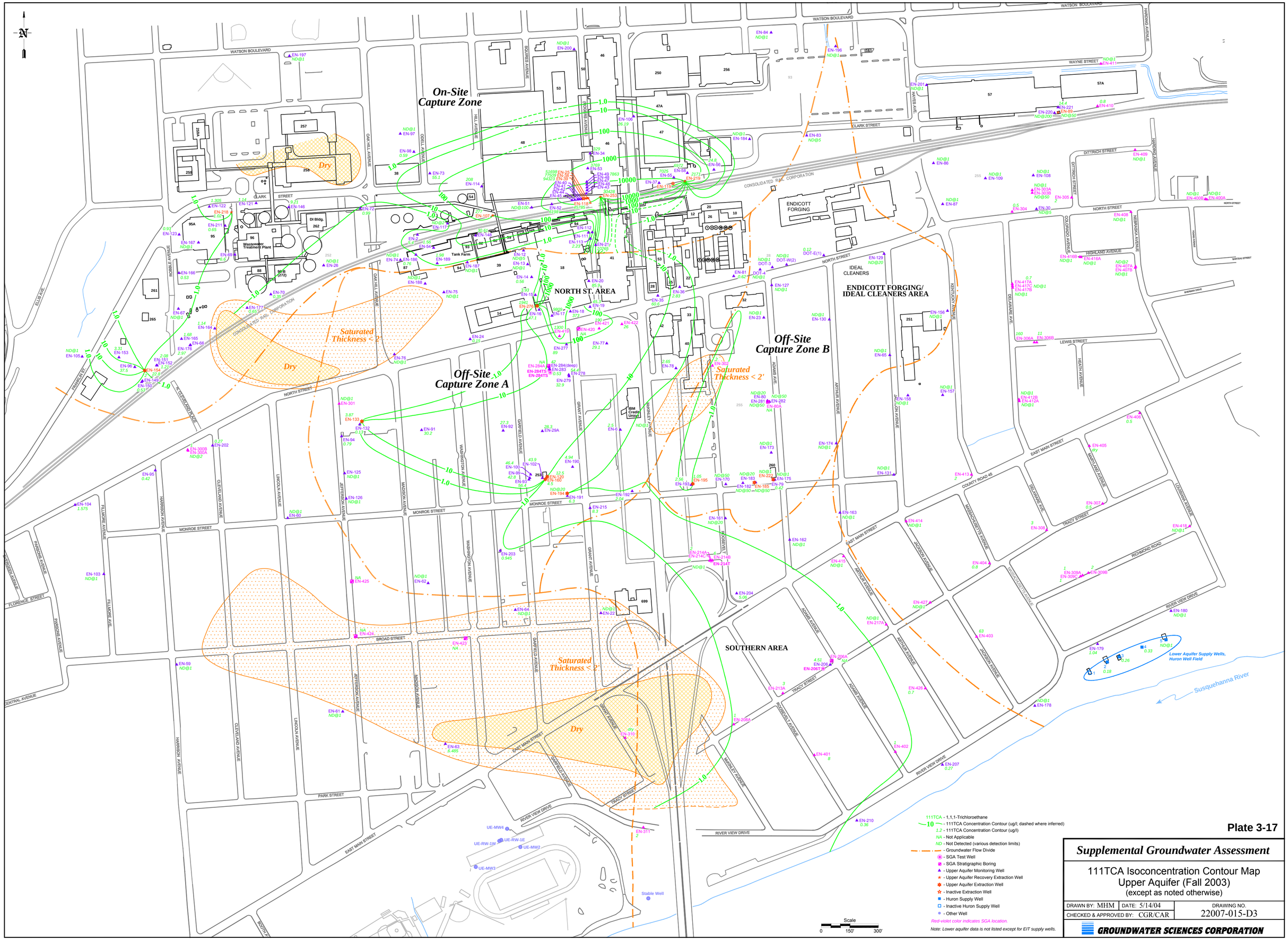
Plate 3-16

Supplemental Groundwater Assessment

Vinyl Chloride Isoconcentration Contour Map
Upper Aquifer (Fall 2003)
(except as noted otherwise)

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-040-A3

GROUNDWATER SCIENCES CORPORATION



111TCA - 1,1,1-Trichloroethane
10 - 111TCA Concentration Contour (ug/l; dashed where inferred)
1.2 - 111TCA Concentration Contour (ug/l)
NA - Not Applicable
ND - Not Detected (various detection limits)
- Groundwater Flow Divide
- SGA Test Well
- SGA Stratigraphic Boring
- Upper Aquifer Monitoring Well
- Upper Aquifer Recovery Extraction Well
- Upper Aquifer Extraction Well
- Inactive Extraction Well
- Huron Supply Well
- Inactive Huron Supply Well
- Other Well

Red-violet color indicates SGA location.

Note: Lower aquifer data is not listed except for EIT supply wells.

Plate 3-17

Supplemental Groundwater Assessment

111TCA Isoconcentration Contour Map
Upper Aquifer (Fall 2003)
(except as noted otherwise)

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-015-D3

GROUNDWATER SCIENCES CORPORATION

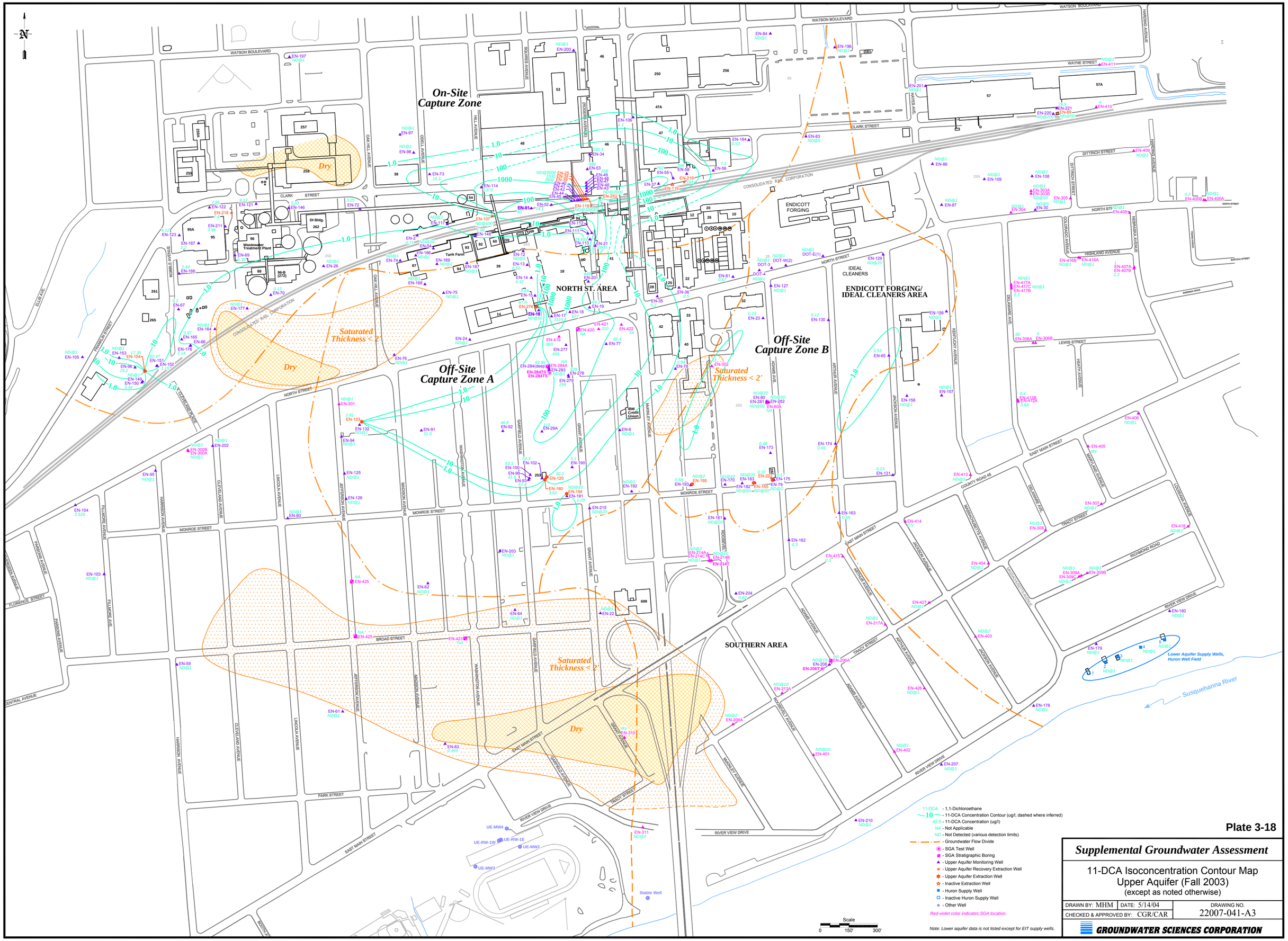


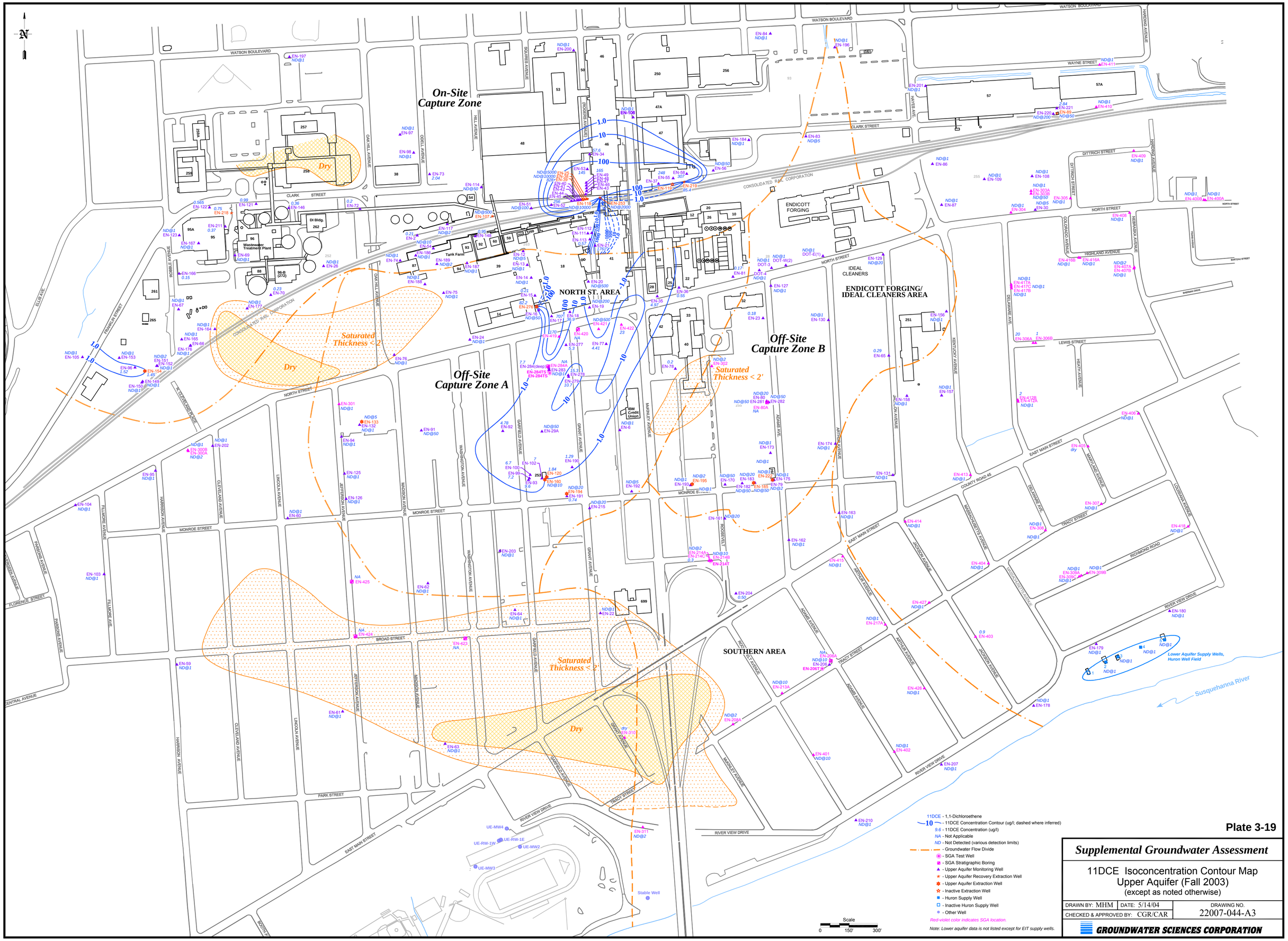
Plate 3-18

Supplemental Groundwater Assessment

11-DCA Isoconcentration Contour Map
Upper Aquifer (Fall 2003)
(except as noted otherwise)

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-041-A3

GROUNDWATER SCIENCES CORPORATION



11DCE - 1,1-Dichloroethene
10 - 11DCE Concentration Contour (ug/l; dashed where inferred)
9.6 - 11DCE Concentration (ug/l)
NA - Not Applicable
ND - Not Detected (various detection limits)
- Groundwater Flow Divide
- SGA Test Well
- SGA Stratigraphic Boring
- Upper Aquifer Monitoring Well
- Upper Aquifer Recovery Extraction Well
- Upper Aquifer Extraction Well
- Inactive Extraction Well
- Huron Supply Well
- Inactive Huron Supply Well
- Other Well

Red-violet color indicates SGA location.

Note: Lower aquifer data is not listed except for EIT supply wells.

Plate 3-19

Supplemental Groundwater Assessment

11DCE Isoconcentration Contour Map
Upper Aquifer (Fall 2003)
(except as noted otherwise)

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR/CAR		22007-044-A3

GROUNDWATER SCIENCES CORPORATION

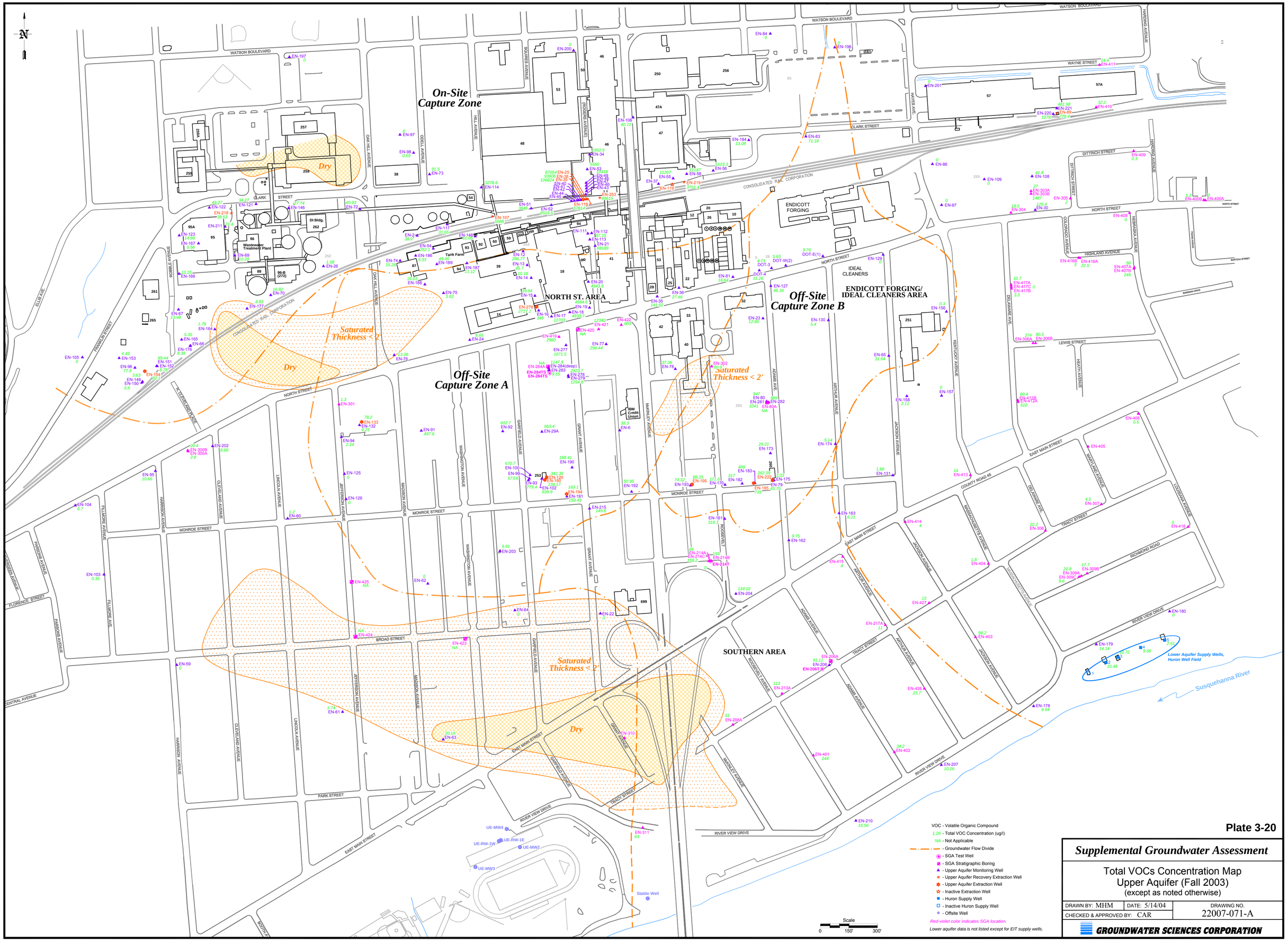


Plate 3-20

Supplemental Groundwater Assessment

Total VOCs Concentration Map
Upper Aquifer (Fall 2003)
(except as noted otherwise)

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO. 22007-071-A
CHECKED & APPROVED BY: CAR		

GROUNDWATER SCIENCES CORPORATION

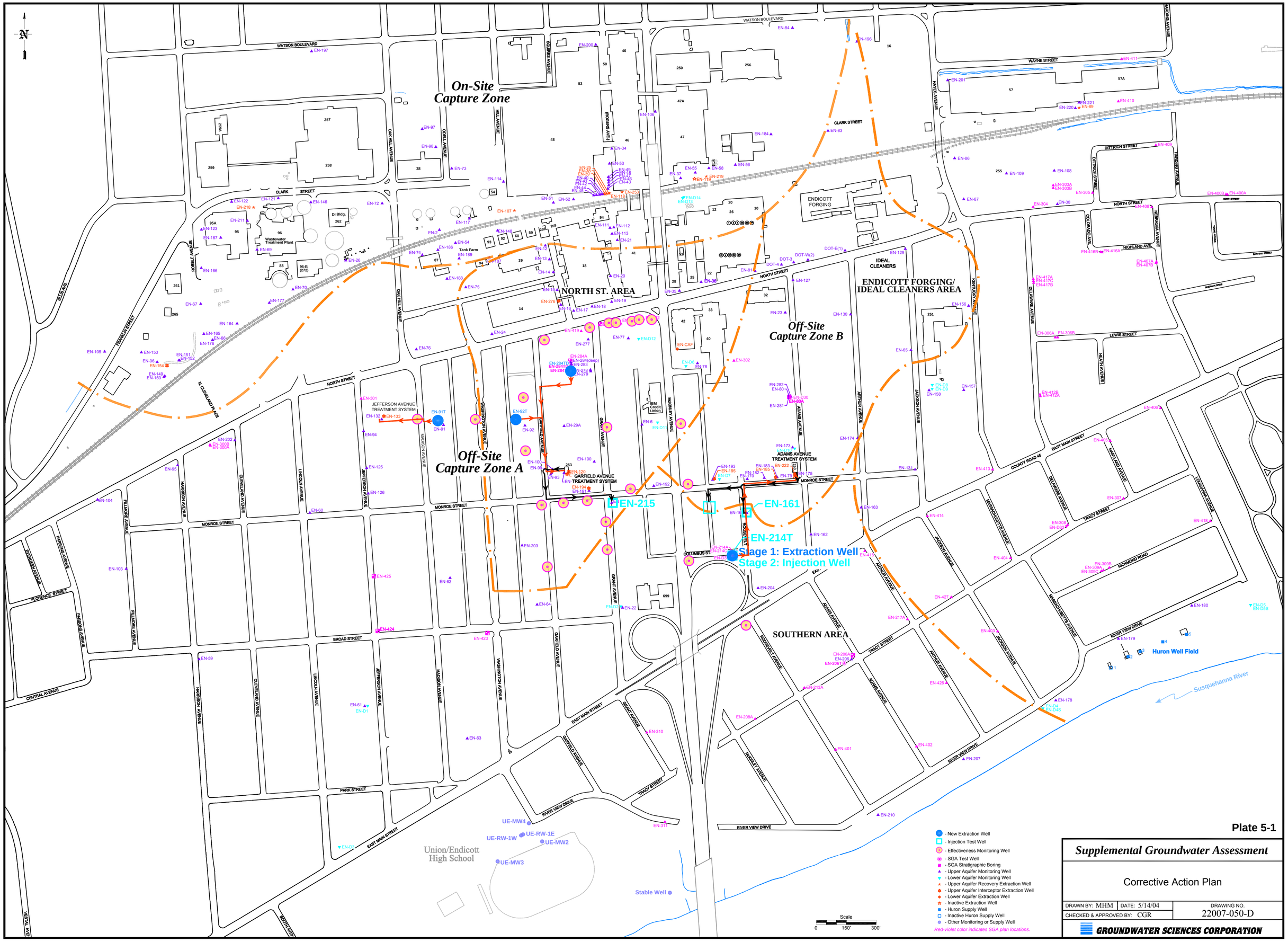


Plate 5-1

Supplemental Groundwater Assessment

Corrective Action Plan

DRAWN BY: MHM	DATE: 5/14/04	DRAWING NO.
CHECKED & APPROVED BY: CGR		22007-050-D

GROUNDWATER SCIENCES CORPORATION

SUPPLEMENTAL GROUNDWATER ASSESSMENT FINAL REPORT

VILLAGE OF ENDICOTT / TOWN OF UNION
BROOME COUNTY, NEW YORK

6NYCRR Part 373 Permit 7-0346-00032/00006

Volume 2 (Appendices A, B and C)

Prepared for:

IBM Corporation

December 31, 2003
Revised and Updated May 17, 2004

Prepared by:

Groundwater Sciences, P.C.

2601 Market Place Street, Suite 310
Harrisburg, Pennsylvania 17110

2 Summit Court, Suite 204
Fishkill, New York 12524

APPENDIX A

A-1: Representative Photographs - 1980 Soil Excavation
A-2: Documentation for Soil Removal Action at Clark Street (1984)

APPENDIX A-1

Representative Photographs - 1980 Soil Excavation

Photo 01
Representative photograph of 1980 excavation

Photo 02
Representative photograph of 1980 excavation

Photo 03
Representative photograph of 1980 excavation

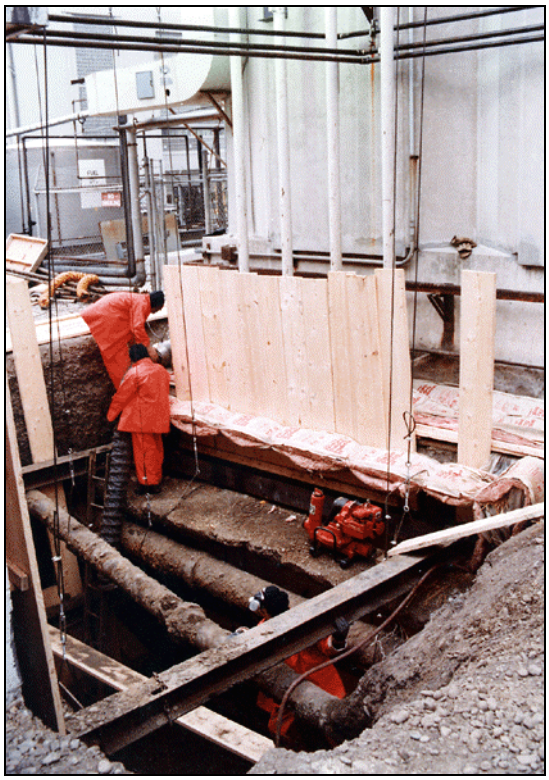


Photo 04
Representative photograph of 1980 excavation

Photo 05
Representative photograph of 1980 excavation

Photo 06
Representative photograph of 1980 excavation

Photo 07
Representative photograph of 1980 excavation

Photo 08
Representative photograph of 1980 excavation

Photo 09
Representative photograph of 1980 excavation

Photo 10
Representative photograph of 1980 excavation

APPENDIX A-2

Documentation for Soil Removal Action at Clark Street (1984)

ATTACHMENT 3

SOIL ANALYSIS FOR CLARK STREET SITE

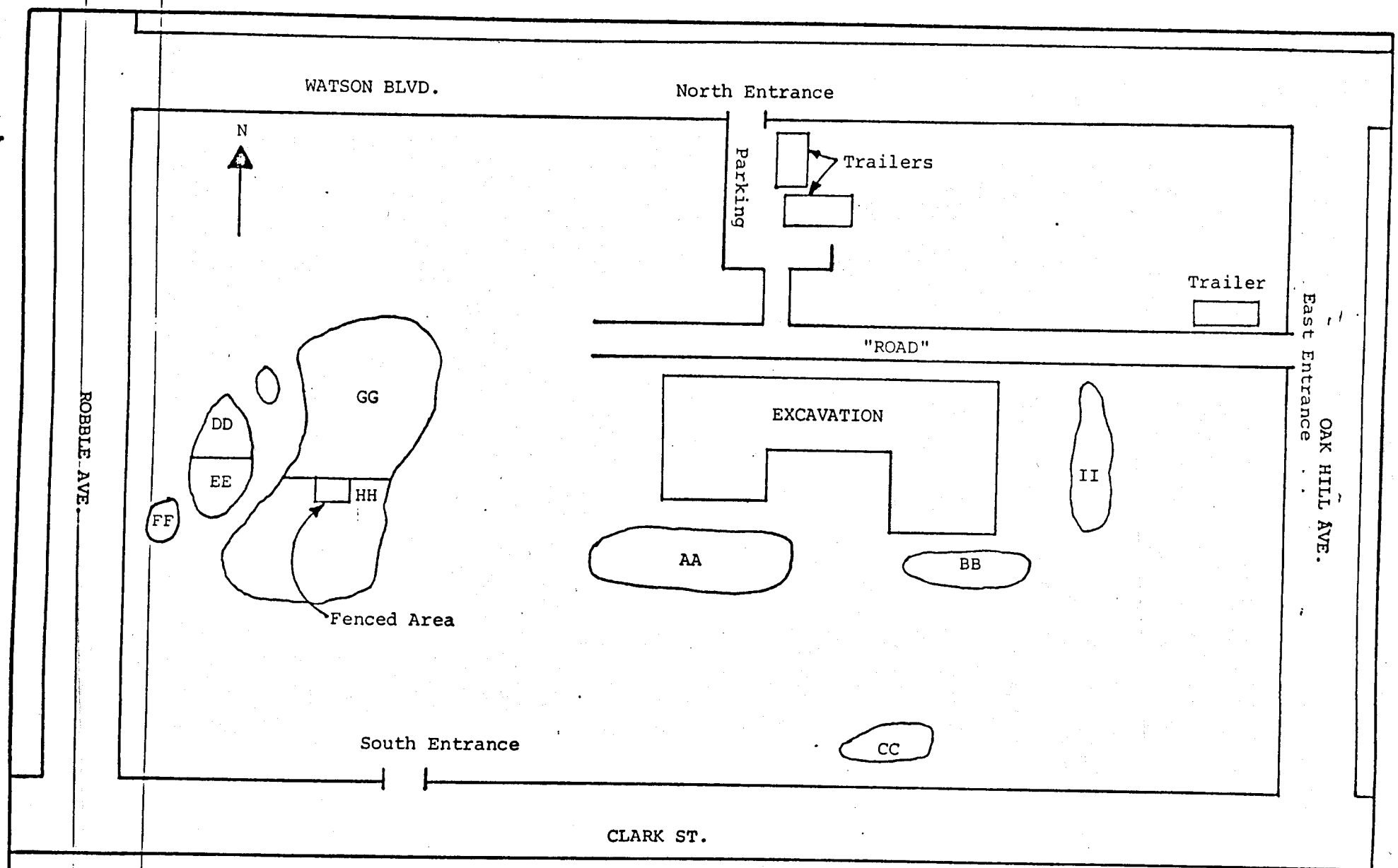
The attached analysis was performed in 1984 on soils which were being excavated for construction purposes from an area which IBM had recently purchased. This data is not considered relevant for the purposes of the Groundwater Assessment Plan, however it is being submitted at the request of Ms. D. Radtke (DEC) (telephone conversation 3/5/86).

TABLE II

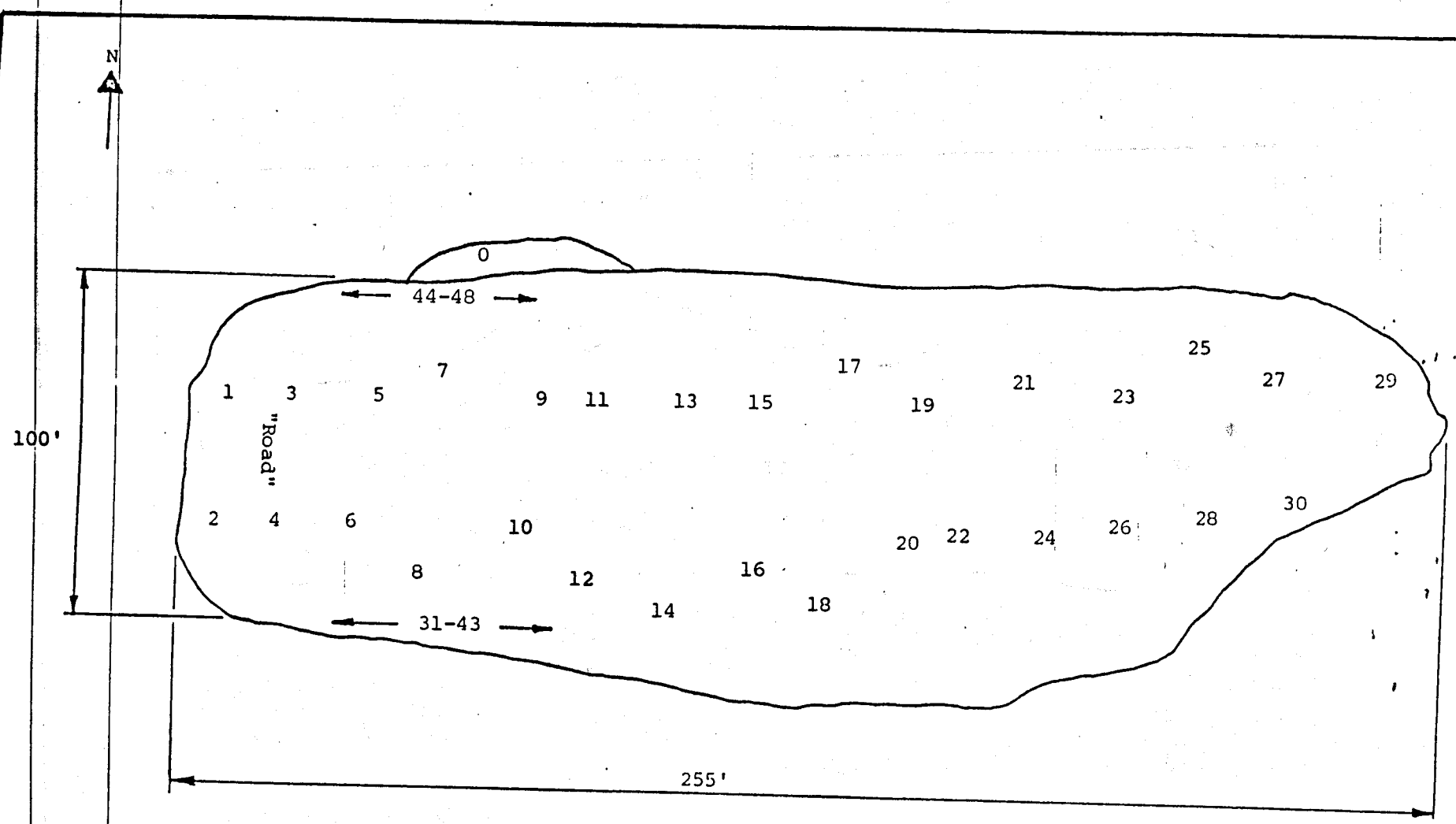
VOLATILE ORGANIC COMPOUNDS

Compound	Computer Designation
Chloromethane	CH3CL
Bromomethane	CH3BR
Vinyl Chloride	CH2CHCL
Chloroethane	C2H5CL
Methylene Chloride	CH2CL2
1,1-Dichloroethene	DCLEN11
1,1-Dichloroethane	DCETAN11
t-1,2-Dichloroethene	DCLEN12
Chloroform	CHCL3
Freon 113	FREON113
1,2-Dichloroethane	DCETAN12
1,1,1-Trichloroethane	CL3CCH3
Carbon Tetrachloride	CCL4
Bromodichloromethane	BRCL2CH
1,2-Dichloropropane	DCPAN12
t-1,3-Dichloropropene	DCPENT13
Trichloroethene	CL3C2H
Benzene	BENZ
Dibromochloromethane	CLBR2CH
1,1,2-Trichloroethane	CL3C2112
Cis-1,3-Dichloropropene	DCPENC13
2-Chloroethylvinyl Ether	CLETHER
Bromoform	CHBR3
1,1,2,2-Tetrachloroethane	CL4C2H2
Tetrachloroethene	CL4C2
Toluene	TOLUENE
Chlorobenzene	CLOROBZ
Ethyl Benzene	ETHBENZ
Xylenes	XYLENES

APPENDIX I



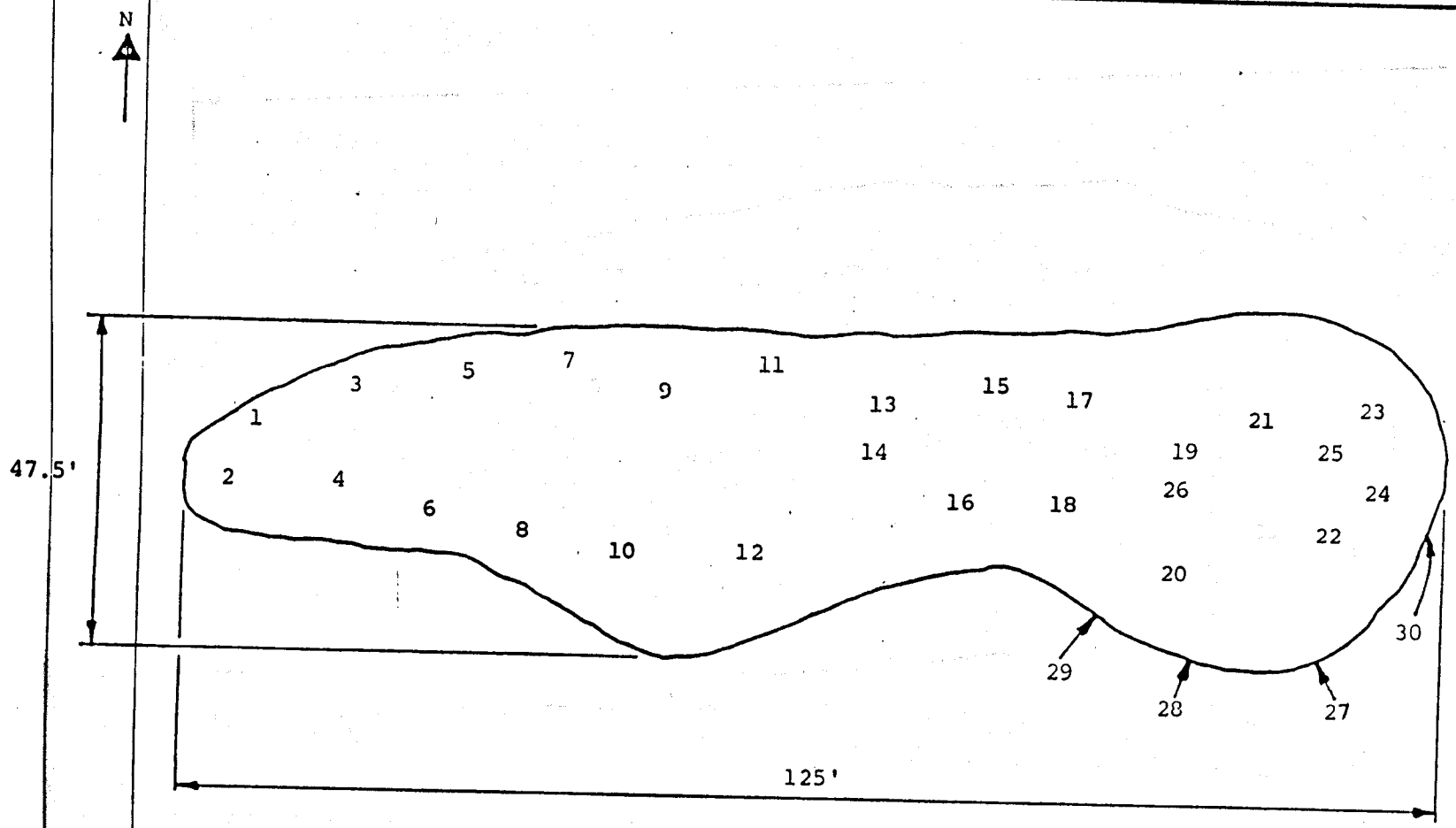
SITE PLAN OF (OCKPILES	SCALE None	PROJECT No. ET047E	DATE 7-2 (1
ES404	ATLANTIC TESTING LABORATORIES Limited		



NOTES: Samples 31-43 taken along southern side
Samples 44-46 taken along northern side

Estimated Avg. Hgt. = 8 ft.
Estimated Cu. Yd. = 7550 $yd.^3$

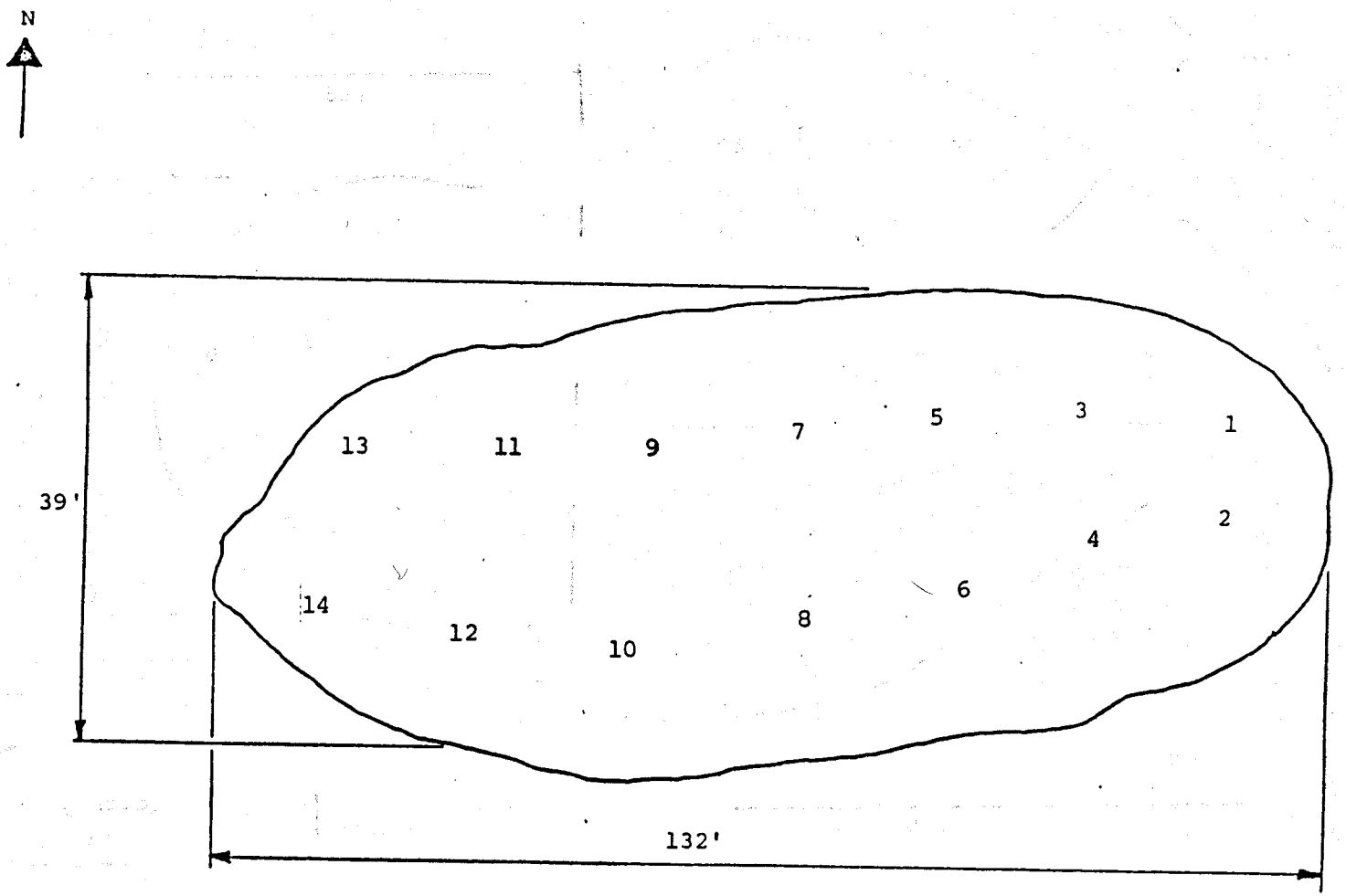
STOCKPILE AA	SCALE None	PROJECT No. ET047E	DATE 7-20-84
PLAN VIEW	ATLANTIC TESTING LABORATORIES. Limited		



Estimated Avg. Hgt. = 12 ft.
Estimate(1. Yd. = 2640 yd.3

STOCKPII(3	SCALE None	PROJECT No. ET047E	DATE 7-(,4
FS404	ATLANTIC TEST		

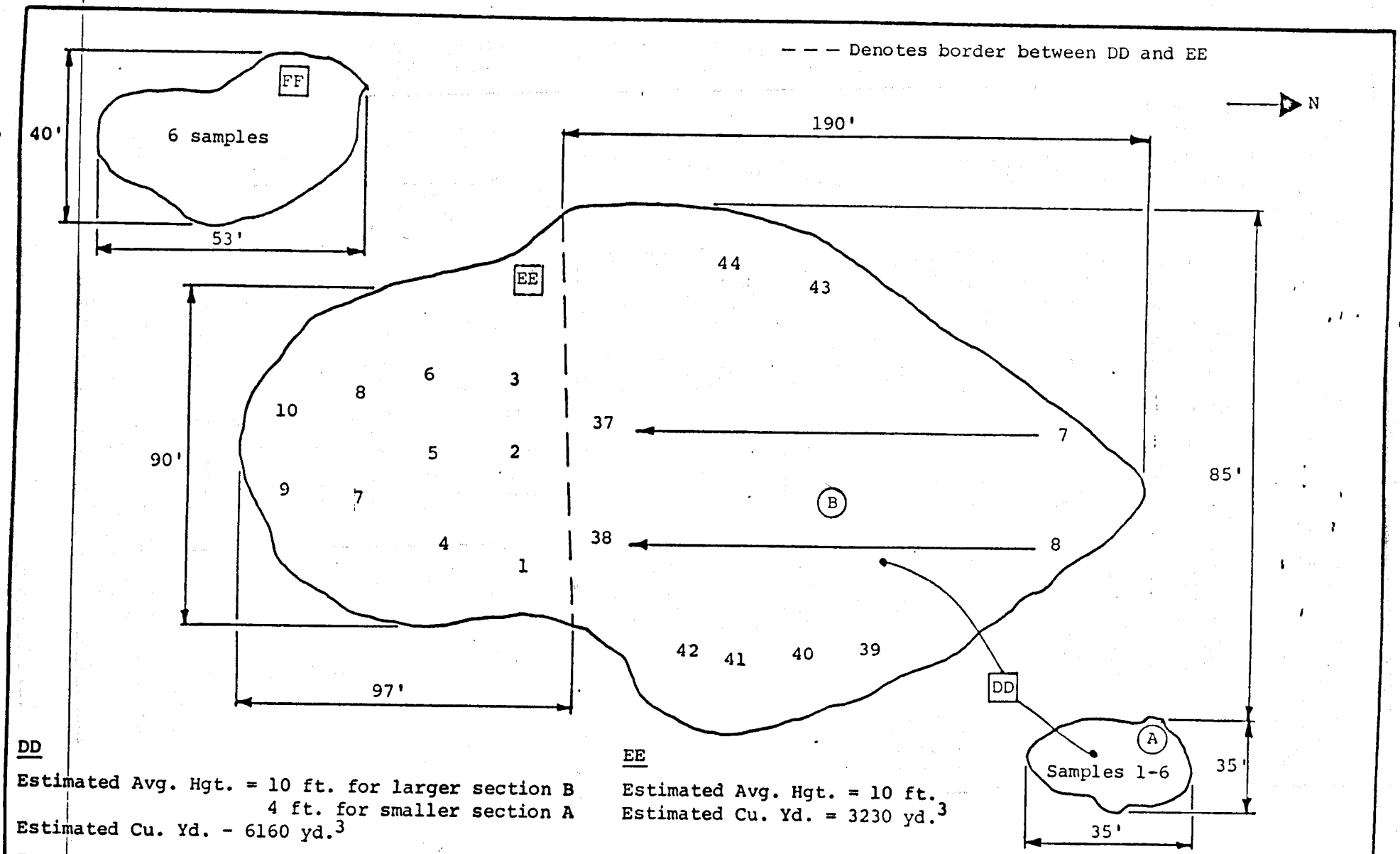
SDB



Estimated Avg. Hgt. = 4 ft.
Estimated Cu. Yd. = 770 $yd.^3$

STOCKPILE CC	SCALE None	PROJECT No. ET047E	DATE 7-20-84
PLAN VIEW	ATLANTIC TESTING LABORATORIES, Limited		

SDB



DD

Estimated Avg. Hgt. = 10 ft. for larger section B
4 ft. for smaller section A
Estimated Cu. Yd. - 6160 yd.^{3}

EE

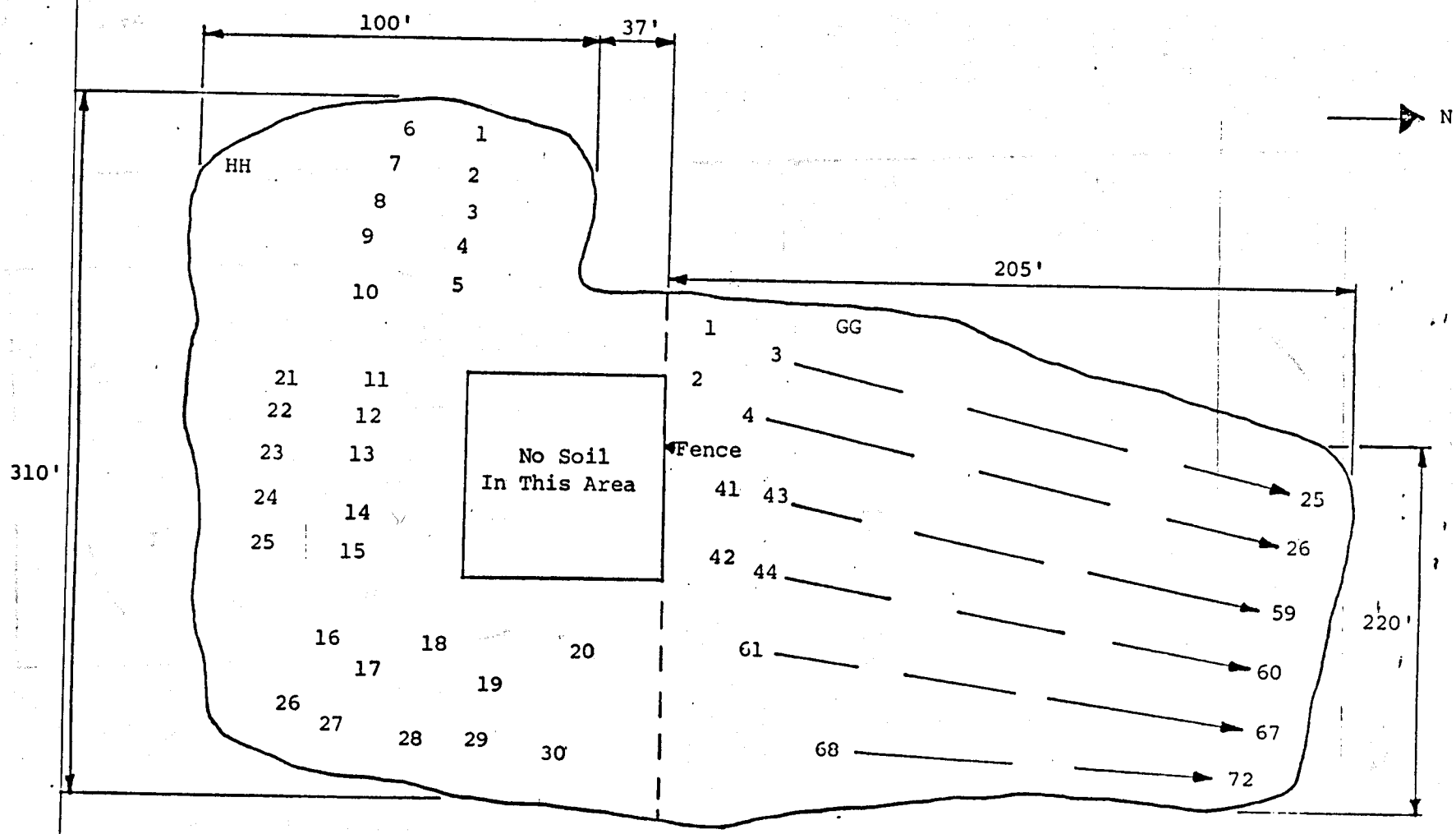
Estimated Avg. Hgt. = 10 ft.
Estimated Cu. Yd. = 3230 yd.^{3}

FF

Estimate[illegible] Avg. Hgt. = 6 ft.
Estimate[illegible] Yd. = 470 yd.^{3}

STOCKPILES DD, [illegible], and FF	SCALE None	PROJECT No. ET047E	DATE 7-[illegible]4
[illegible]404	ATLANTIC TESTING LABORATORIES Limited		

SDB



HH

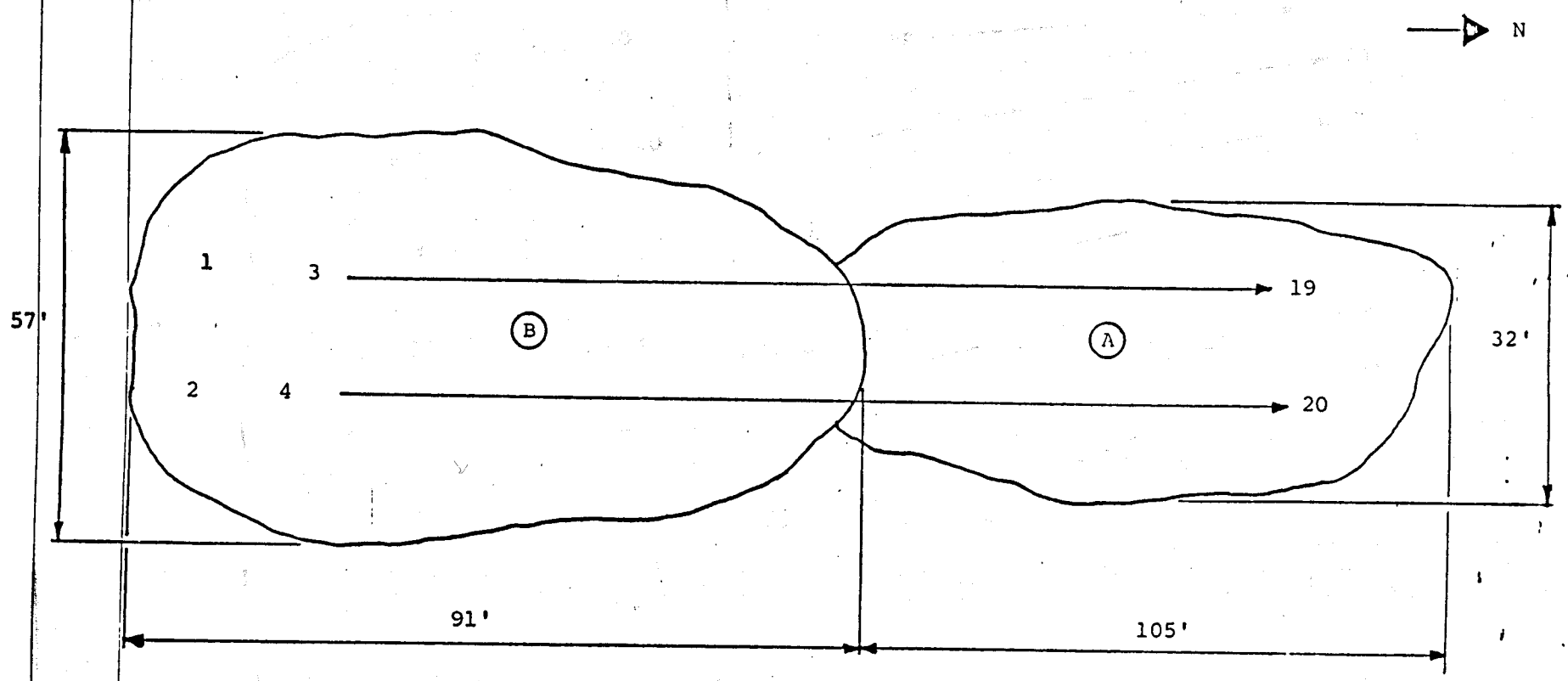
Estimated Avg. Hgt. = 4 ft.
Estimated Cu. Yd. = 5800 $yd.^3$

GG

Estimated Avg. Hgt. = 4 ft.
Estimated Cu. Yd. = 6700 $yd.^3$

SDB

STOCKPILES GG and HH	SCALE None	PROJECT No. ET047E	DATE 8-7-84
ES404	ATLANTIC TESTING LABORATORIES. Limited		



II

(A) Estimated Avg. Hgt. = 6 ft.
Estimated Cu. Yd. = 750 $yd.^3$

(B) Estimated Avg. Hgt. = 7 ft.
Estimated Cu. Yd. = 1350 $yd.^3$

SDB

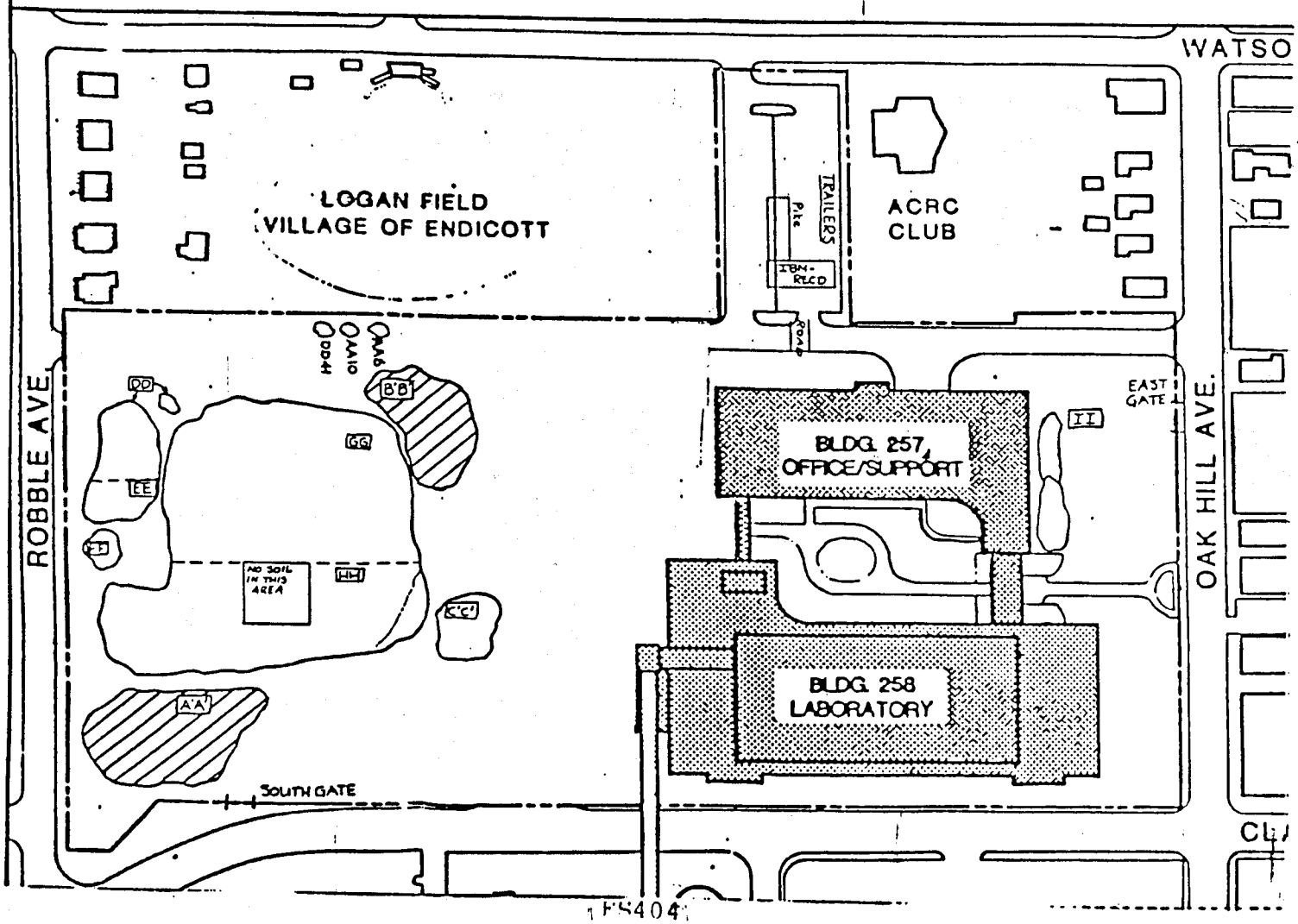
STOCKPIL(I	SCALE None	PROJECT No. ET047E	DATE 8-1(
..... FS404	ATLANTIC TESTING LABORATORIES, Limited		

SITE PLAN OF STOCKPILES

DATE: 8/9/84
DRAWN BY J. HOLMES
NOTE: DRAWING NOT TO SCALE

ATLANTIC TESTING LABORATORIES, Limited

General Notes:
Cross-hatching indicates soil suitable for engineering fill. A'A', B'B', and C'C' are relocated stockpiles.



APPENDIX II

ATLANTIC TESTING
CLARK STREET / ENVIRONMENTAL MONITORING PLAN
2772-002-517

	SITE	TYPE	SAMPLE	DATE	SAMPLE	CH2CL2	CL3CCH3	CL3C2H	CL4C2	DCLEN11	DCLEN12	DCETAN11	DCETAN12	BENZ	TOLUENE	ETHBENZ	XYLENES	Total VOH
	100	2	0	07/06/84	15958	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	100	2	1	07/06/84	15959	<10.	<10.	<10.	<10.	<10.	<10.	51.	<10.	17.	27.	27.	67.	189
	100	2	1	07/31/84	19829	<10.	<10.	41.	31.	<10.	<10.	<10.	<10.	<10.	39.	<10.	<10.	111
	100	2	2	07/06/84	15960	<10.	<10.	210.	<10.	<10.	16.	<10.	<10.	<10.	23.	<10.	<10.	249
	100	2	2	07/31/84	19830	<10.	<10.	90.	32.	<10.	12.	<10.	<10.	<10.	50.	<10.	<10.	184
	100	2	3	07/06/84	15961	<10.	<10.	<10.	22.	<10.	<10.	25.	<10.	22.	54.	<10.	<10.	123
	100	2	3	07/31/84	19831	<10.	<10.	76.	34.	<10.	<10.	<10.	<10.	<10.	32.	<10.	<10.	142
	100	2	4	07/06/84	15962	<10.	<10.	60.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	60
	100	2	5	07/06/84	15963	<10.	<10.	62.	19.	<10.	<10.	<10.	<10.	<10.	24.	<10.	45.	150
	100	2	6	07/06/84	15964	<10.	16.	270.	120.	<10.	<10.	<10.	<10.	<10.	32.	<10.	25.	463
	100	2	6	07/20/84	39056	<10.	12.	290.	74.	<10.	<10.	<10.	<10.	<10.	29.	<10.	51.	456
AA	100	2	6	07/26/84	10487	<10.	<10.	160.	37.	<10.	<10.	<10.	<10.	<10.	14.	<10.	39.	250
	100	2	7	07/06/84	15965													
	100	2	8	07/06/84	15966													
	100	2	9	07/06/84	15967	13.	<10.	21.	17.	<10.	<10.	<10.	<10.	<10.	33.	<10.	<10.	84
	100	2	10	07/06/84	15968	<10.	15.	310.	74.	<10.	<10.	<10.	<10.	<10.	26.	<10.	21.	446
	100	2	10	07/20/84	39057	<10.	<10.	120.	66.	<10.	<10.	<10.	<10.	<10.	43.	<10.	57.	286
	100	2	10	07/26/84	10488	<10.	<10.	130.	51.	<10.	<10.	<10.	<10.	<10.	21.	<10.	69.	271
	100	2	12	07/09/84	76579													
	100	2	14	07/09/84	76580	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	17.	<10.	<10.	17
	100	2	15	07/09/84	30474	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	100	2	16	07/09/84	76581													
	100	2	18	07/09/84	76582	<10.	<10.	80.	<10.	<10.	<10.	<10.	<10.	<10.	28.	<10.	<10.	108
	100	2	20	07/09/84	76583													
	100	2	22	07/09/84	76584	<10.	<10.	<10.	12.	<10.	<10.	<10.	<10.	<10.	27.	<10.	<10.	49
	100	2	23	07/09/84	30475	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	19.	<10.	<10.	19
	100	2	24	07/09/84	76585													
	100	2	26	07/09/84	76586	<10.	59.	18.	<10.	<10.	<10.	<10.	<10.	<10.	27.	<10.	<10.	104
	100	2	28	07/09/84	76587													
	100	2	30	07/09/84	76588	<10.	<10.	12.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	12
	100	2	31	07/09/84	30476													
	100	2	32	07/09/84	76589													
AA	100	2	34	07/09/84	76590													
	100	2	36	07/09/84	76591													
	100	2	38	07/09/84	76592													
	100	2	39	07/09/84	30477													
	100	2	40	07/09/84	76593													
	100	2	42	07/09/84	76594													
	100	2	44	07/09/84	76595													
	100	2	45	07/09/84	30478													
	100	2	46	07/09/84	76596													
	100	2	48	07/09/84	76597													
	200	2	3	07/10/84	15280	<10.	<10.	15.	<10.	<10.	<10.	14.	<10.	<10.	28.	<10.	<10.	57
	200	2	6	07/10/84	15281	<10.	<10.	12.	<10.	<10.	<10.	<10.	<10.	<10.	62.	<10.	<10.	74
	200	2	9	07/10/84	15282	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	200	2	12	07/10/84	15283	<10.	<10.	10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
BB	200	2	15	07/10/84	15284	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	200	2	18	07/10/84	15285	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	200	2	21	07/10/84	15286	<10.	15.	15.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	30

ATLANTIC TESTING
CLARK STREET / ENVIRONMENTAL MONITORING PLAN
2772-002-517

SITE	TYPE	SAMPLE	DATE	SAMPLE	CH2CL2	CL3CCH3	CL3C2H	CL4C2	DCLEN11	DCLEN12	DCETAN11	DCETAN12	BENZ	TOLUENE	ETHBENZ	XYLENES	Total VOH
BB 200	2	27	07/10/84	15288	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
200	2	30	07/10/84	15289	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
300	2	1	07/11/84	30540	<10.	<10.	62.	160.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	242
300	2	5	07/11/84	30541	<10.	13.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	13
300	2	6	07/11/84	30542	<10.	<10.	22.	210.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	232
300	2	9	07/11/84	30543	<10.	<10.	36.	22.	<10.	12.	<10.	<10.	<10.	29.	14.	50.	164
C.C. 300	2	12	07/11/84	30544	<10.	19.	85.	<10.	<10.	19.	<10.	<10.	<10.	<10.	<10.	19.	142
300	2	14	07/11/84	30545	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	23.	23
400	2	1	07/11/84	30546	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	15.	<10.	<10.	15
400	2	2	07/11/84	30547	11.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	82.	460.	<10.	553
400	2	3	07/11/84	30548	23.	28.	34.	31.	300.	130.	360.	<10.	<10.	1800.	61.	<10.	2767
400	2	4	07/11/84	30549	12.	<10.	14.	<10.	<10.	<10.	<10.	<10.	<10.	45.	<10.	<10.	75
400	2	5	07/12/84	34727	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	11.	<10.	<10.	11
400	2	8	07/12/84	34728	17.	<10.	<10.	<10.	50.	<10.	<10.	<10.	<10.	32.	<10.	<10.	99
400	2	11	07/12/84	34729	<10.	<10.	25.	12.	<10.	19.	<10.	<10.	<10.	20.	<10.	<10.	66
400	2	15	07/12/84	34730	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	35.	<10.	10.	35
DD 400	2	20	07/12/84	34731	12.	10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	28.	<10.	19.	59
400	2	25	07/12/84	34732	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
400	2	30	07/12/84	34733	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	37.	<10.	<10.	37
400	2	32	07/12/84	34734	<10.	12.	43.	<10.	<10.	26.	<10.	<10.	<10.	44.	62.	28.	215
400	2	37	07/12/84	34735	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
400	2	40	07/13/84	2672	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	60.	<10.	<10.	60
400	2	41	07/13/84	2673	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	16.	1400.	<10.	<10.	1416
400	2	41	07/20/84	39058	<10.	<10.	13.	<10.	<10.	10.	<10.	<10.	<10.	1900.	<10.	<10.	1900
400	2	41	07/26/84	10489	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	10.	1400.	320.	740.	2460
400	2	42	07/13/84	2679	10.	11.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	11
400	2	44	07/13/84	2674	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	32.	<10.	<10.	32
500	2	1	07/13/84	2675	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	49.	<10.	<10.	49
500	2	4	07/13/84	2676	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	94.	<10.	<10.	94
EE 500	2	7	07/13/84	2677	<10.	10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	11.	<10.	<10.	11
500	2	10	07/13/84	2678	16.	29.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	18.	<10.	<10.	63
FF 600	2	1	07/17/84	39048	<10.	<10.	52.	<10.	<10.	160.	<10.	<10.	<10.	27.	<10.	<10.	239
600	2	6	07/16/84	2680	<10.	10.	<10.	20.	<10.	<10.	<10.	<10.	<10.	23.	130.	35.	208
700	2	1	07/17/84	2681	<10.	<10.	26.	22.	<10.	<10.	<10.	<10.	<10.	28.	<10.	47.	123
700	2	5	07/17/84	2682	<10.	18.	<10.	22.	<10.	<10.	<10.	<10.	<10.	19.	<10.	<10.	59
700	2	8	07/17/84	2683	<10.	18.	13.	12.	<10.	<10.	<10.	<10.	<10.	61.	<10.	<10.	104
700	2	11	07/17/84	2684	<10.	<10.	<10.	21.	<10.	<10.	<10.	<10.	<10.	61.	<10.	<10.	82
GG 700	2	12	07/19/84	55180	<10.	69.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	17.	<10.	<10.	86
700	2	15	07/17/84	2685	<10.	<10.	<10.	<10.	<10	<10.	<10.	<10.	<10.	46.	<10.	<10.	46
700	[illegible]	19	07/17/84	2686	<10.	<10.	<10.	<10.	<[illegible]	<10.	<10.	<10.	<10.	17.	<10.	<10.	17
700	[illegible]	21	07/19/84	55176	<10.	<10.	<10.	<10.	<[illegible]	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
700	2	22	07/17/84	2687	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10

ATLANTIC TESTING
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	SITE	TYPE	SAMPLE	DATE	SAMPLE	CH2CL2	CL3CCH3	CL3C2H	CL4C2	DCLEN11	DCLEN12	DCETAN11	DCETAN12	BENZ	TOLUENE	ETHBENZ	XYLENES	Total VOH
	700	2	24	07/19/84	55181	<10.	<10.	<10.	22.	<10.	<10.	<10.	<10.	<10.	22.	<10.	<10.	44
	700	2	27	07/17/84	2688	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	15.	<10.	<10.	15
	700	2	29	07/17/84	2689	<10.	<10.	<10.	19.	<10.	<10.	<10.	<10.	<10.	11.	<10.	<10.	30
	700	2	33	07/19/84	55177	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	16.	<10.	<10.	16
	700	2	36	07/19/84	55182	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	17.	<10.	<10.	17
	700	2	45	07/19/84	55178	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	25.	<10.	11.	36
	700	2	48	07/19/84	55183	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	22.	<10.	<10.	22
	700	2	57	07/19/84	55179	<10.	<10.	<10.	11.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	11
GG	700	2	58	07/19/84	55184	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	290.	<10.	<10.	290
	700	2	61	07/24/84	71920	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	700	2	63	07/24/84	71921	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	700	2	65	07/24/84	71922	<10.	<10.	23.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	13.	36
	700	2	67	07/24/84	71923	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	700	2	68	07/30/84	41103	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	310.	<10.	<10.	310
	700	2	70	07/30/84	41104	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	49.	<10.	<10.	49
	700	2	72	07/30/84	41105	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	800	2	1	07/24/84	71924	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	800	2	3	07/24/84	71925	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	18.	<10.	<10.	18
	800	2	5	07/24/84	71926	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	100.	<10.	<10.	100
	800	2	7	07/24/84	71927	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	25.	25
	800	2	9	07/24/84	71928	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	800	2	10	07/24/84	71929	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	26.	26
	800	2	11	07/25/84	49096	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	800	2	13	07/25/84	49097	<10.	14.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	28.	<10.	13.	55
HH	800	2	15	07/25/84	49098	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	13.	<10.	<10.	13
	800	2	17	07/25/84	49099	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	14.	<10.	<10.	14
	800	2	19	07/25/84	49100	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	800	2	21	07/26/84	10490	<10.	14.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	11.	<10.	<10.	25
	800	2	23	07/26/84	10491	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	12.	<10.	11.	23
	800	2	25	07/26/84	10492	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	13.	<10.	25.	38
	800	2	27	08/06/84	41625	<10.	<10.	56.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	56
	800	2	30	08/06/84	41627	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	900	2	1	08/01/84	41186	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	900	2	4	08/01/84	41187	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	900	2	7	08/01/84	41188	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
II	900	2	9	08/02/84	41225	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	900	2	12	08/02/84	41226	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	900	2	15	08/02/84	41227	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	900	2	17	08/03/84	41580	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
	900	2	20	08/03/84	41582	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	23.	<10.	<10.	23

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	SITE	TYPE	SAMPLE	DATE	SAMPLE	PCTS	CR
	400	2	1	07/11/84	30546	65.52	280.
	400	2	2	07/11/84	30547	71.39	960.
	400	2	3	07/11/84	30548	60.94	36.
	400	2	4	07/11/84	30549	86.55	92.
	400	2	5	07/12/84	34727	59.37	370.
	400	2	8	07/12/84	34728	78.16	200.
	400	2	11	07/12/84	34729	74.99	130.
	400	2	15	07/12/84	34730	62.42	220.
DD	400	2	20	07/12/84	34731	81.93	940.
	400	2	25	07/12/84	34732	52.99	86.
	400	2	30	07/12/84	34733	69.03	170.
	400	2	32	07/12/84	34734	76.60	140.
	400	2	37	07/12/84	34735	61.99	170.
	400	2	40	07/13/84	2672	69.39	90.
	400	2	41	07/13/84	2673	63.57	96.
	400	2	41	07/20/84	39058		
	400	2	41	07/26/84	10489		
	400	2	42	07/13/84	2679	75.33	34.
	400	2	44	07/13/84	2674	71.76	200.
	400	3	1	07/11/84	2656		<.01
	400	3	2	07/11/84	2657		<.01
	400	3	3	07/11/84	2658		<.01
	400	3	4	07/11/84	2659		<.01
	400	3	5	07/12/84	64076		<.01
	400	3	8	07/12/84	64077		.01
DD	400	3	11	07/12/84	64078		<.01
	400	3	15	07/12/84	64079		<.01
	400	3	20	07/12/84	64080		.01
	400	3	25	07/12/84	64081		<.01
	400	3	30	07/12/84	64082		<.01
	400	3	32	07/12/84	64083		.10
	400	3	37	07/12/84	64084		<.01
	400	3	40	07/13/84	2690		<.01
	400	3	41	07/13/84	2691		<.01
	400	3	42	07/13/84	2697		<.01
	400	3	44	07/13/84	2692		<.01
	500	2	1	07/13/84	2675	78.64	370.
	500	2	4	07/13/84	2676	66.04	300.
	500	2	7	07/13/84	2677	65.36	42.
	500	2	10	07/13/84	2678	69.33	46.
EE	500	3	1	07/13/84	2693		<.01
	500	3	4	07/13/84	2694		<.01
	500	3	7	07/13/84	2695		<.01
	500	3	10	07/13/84	2696		<.01
FF	600	2	1	07/17/84	39048	68.99	150.

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	SITE	TYPE	SAMPLE	DATE	SAMPLE	PCTS	CR
FF	600	3	1	07/17/84	39049		<.01
	600	3	6	07/16/84	2698		<.01
	700	2	1	07/17/84	2681	82.19	200.
	700	2	5	07/17/84	2682	84.60	92.
	700	2	8	07/17/84	2683	82.61	150.
	700	2	11	07/17/84	2684	73.29	24.
	700	2	12	07/19/84	55180	63.91	40.
	700	2	15	07/17/84	2685	59.75	140.
	700	2	19	07/17/84	2686	70.27	76.
	700	2	21	07/19/84	55176	76.08	110.
	700	2	22	07/17/84	2687	61.78	40.
	700	2	24	07/19/84	55181	73.17	98.
GG	700	2	27	07/17/84	2688	71.50	86.
	700	2	29	07/17/84	2689	68.73	20.
	700	2	33	07/19/84	55177	75.93	82.
	700	2	36	07/19/84	55182	60.88	38.
	700	2	45	07/19/84	55178	70.32	46.
	700	2	48	07/19/84	55183	74.18	160.
	700	2	57	07/19/84	55179	67.81	26.
	700	2	58	07/19/84	55184	71.70	18.
	700	2	61	07/24/84	71920	81.10	12.
	700	2	63	07/24/84	71921	55.67	7.1
	700	2	65	07/24/84	71922	67.25	12.
	700	2	67	07/24/84	71923	69.63	19.
	700	2	68	07/30/84	41103	80.29	11.
	700	2	70	07/30/84	41104	70.44	19.
	700	2	72	07/30/84	41105	81.21	100.
	700	3	1	07/17/84	2699		<.01
	700	3	5	07/17/84	2700		<.01
	700	3	8	07/17/84	2701		<.01
	700	3	11	07/17/84	2702		<.01
	700	3	12	07/19/84	55189		<.01
	700	3	15	07/17/84	2703		<.01
	700	3	19	07/17/84	2704		<.01
	700	3	21	07/19/84	55185		<.01
GG	700	3	22	07/17/84	2705		<.01
	700	3	24	07/19/84	55190		<.01
	700	3	27	07/17/84	2706		<.01
	700	3	29	07/17/84	2707		<.01
	700	3	33	07/19/84	55186		<.01
	700	3	36	07/19/84	55191		<.01
	700	3	45	07/19/84	55187		<.01
	700	3	48	07/19/84	55192		<.01
	700	3	57	07/19/84	55188		<.01
	700	3	58	07/19/84	55193		<.01
	700	3	61	07/24/84	71930		<.01
	700	3	63	07/24/84	71931		<.01
	700	3	65	07/24/84	71932		<.01
	700	3	67	07/24/84	71933		<.01

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	SITE	TYPE	SAMPLE	DATE	SAMPLE	PCTS	CR
	700	3	68	07/30/84	41106		<.01
GG	700	3	70	07/30/84	41107		<.01
	700	3	72	07/30/84	41108		<.01
	800	2	1	07/24/84	71924	80.45	8.1
	800	2	3	07/24/84	71925	83.55	5.9
	800	2	5	07/24/84	71926	74.24	16.
	800	2	7	07/24/84	71927	69.93	31.
	800	2	9	07/24/84	71928	76.85	10.
	800	2	10	07/24/84	71929	73.38	9.4
	800	2	11	07/25/84	49096	72.22	11.
	800	2	13	07/25/84	49097	66.72	36.
	800	2	15	07/25/84	49098	68.15	110.
HH	800	2	17	07/25/84	49099	61.67	28.
	800	2	19	07/25/84	49100	52.99	60.
	800	2	21	07/26/84	10490	64.98	82.
	800	2	23	07/26/84	10491	63.60	10.
	800	2	25	07/26/84	10492	64.31	7.6
	800	2	27	08/06/84	41625		50.
	800	2	30	08/06/84	41627		18.
	800	3	1	07/24/84	71934		<.01
	800	3	3	07/24/84	71935		<.01
	800	3	5	07/24/84	71936		<.01
	800	3	7	07/24/84	71937		<.01
	800	3	9	07/24/84	71938		<.01
	800	3	10	07/24/84	71939		<.01
	800	3	11	07/25/84	49101		<.01
HH	800	3	13	07/25/84	49102		<.01
	800	3	15	07/25/84	49103		<.01
	800	3	17	07/25/84	49104		<.01
	800	3	19	07/25/84	49105		<.01
	800	3	21	07/26/84	10493		
	800	3	23	07/26/84	10494		
	800	3	25	07/26/84	10495		
	800	3	27	08/06/84	41626		
	800	3	30	08/06/84	41628		
	900	2	1	08/01/84	41186	61.62	6.6
	900	2	4	08/01/84	41187	66.86	16.
	900	2	7	08/01/84	41188	66.13	20.
	900	2	9	08/02/84	41225	59.68	19.
II	900	2	12	08/02/84	41226	51.63	12.
	900	2	15	08/02/84	41227	52.84	36.
	900	2	17	08/03/84	41580		32.
	900	2	20	08/03/84	41582		130.
	900		1	08/01/84	41189		<.01
II	900		4	08/01/84	41190		<.01
	900	3	7	08/01/84	41191		<.01

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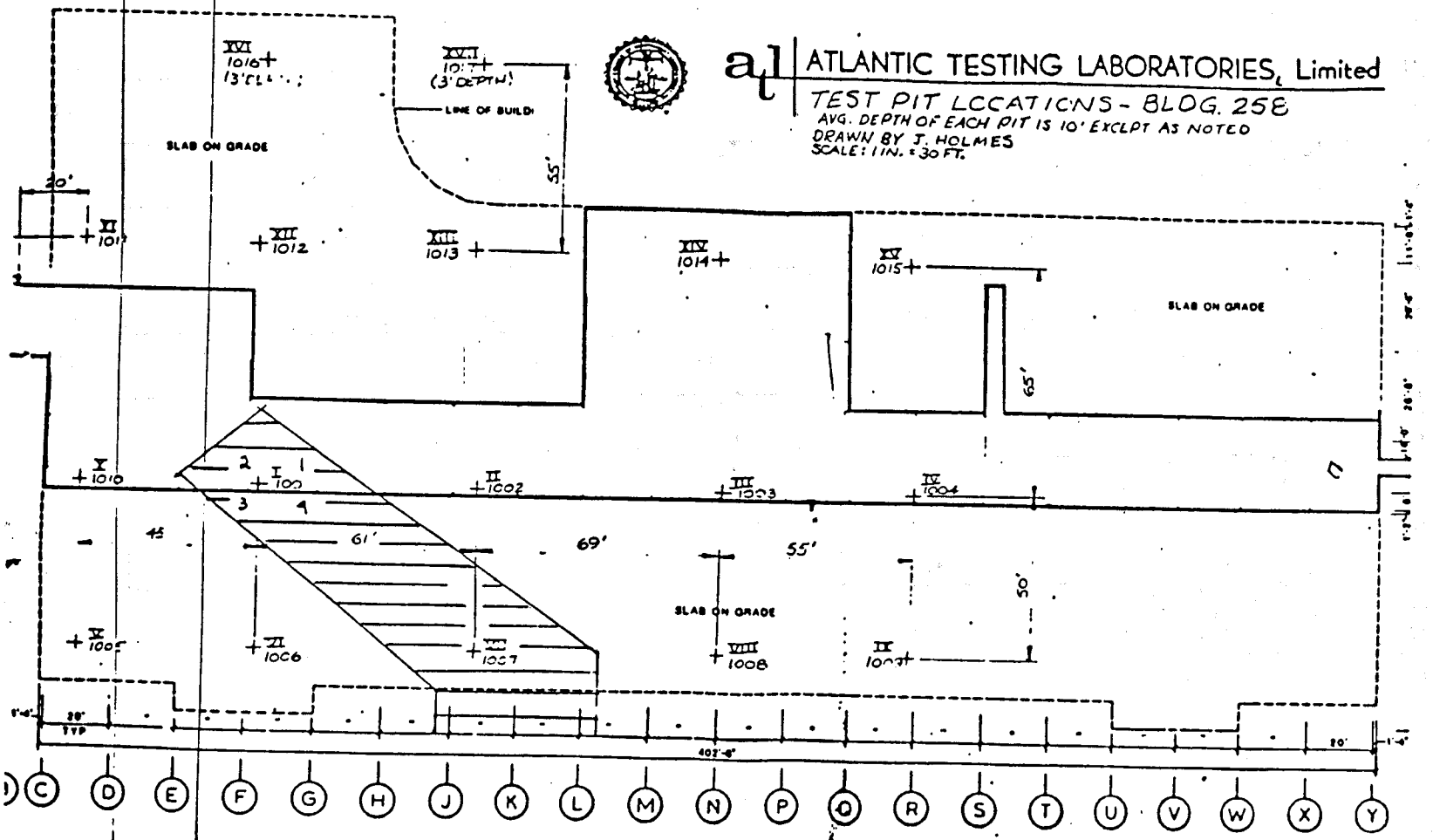
SITE	TYPE	SAMPLE	DATE	SAMPLE	PCTS	CR
900	3	9	08/02/84	41228		<.01
900	3	12	08/02/84	41229		<.01
900	3	15	08/02/84	41230		<.01
900	3	17	08/03/84	41581		<.01
900	3	20	08/03/84	41583		<.01

APPENDIX III


ATLANTIC TESTING LABORATORIES, Limited
TEST PIT LOCATIONS - BLDG. 258
AVG. DEPTH OF EACH PIT IS 10' EXCEPT AS NOTED
DRAWN BY J. HOLMES
SCALE: 1 IN. = 30 FT.
SLAB ON GRADE
LINE OF BUILDI
XVI 1016
XVII 1017 (3' DEPTH)
XI 1011
XII 1012
XIII 1013
XIV 1014
XV 1015
X 1010
I 1001
II 1002
III 1003
IV 1004
V 1005
VI 1006
VII 1007
VIII 1008
IX 1009
20'
55'
65'
50'
61'
69'
55'
402'-6"
20' TYP
C D E F G H J K L M N P Q R S T U V W X Y

ES4041

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CLARK STREET / ENVIRONMENTAL MONITORING PLAN
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SITE	SAMPLE	DATE	SAMPLE	CH2CL2	CL3CCH3	CL3C2H	CL4C2	DCLEN11	DCLEN12	DCETAN11	DCETAN12	BENZ	TOLUENE	ETHBENZ	XYLENES	Total
1001	1	07/31/84	19832	<10.	<10.	18.	<10.	<10.	<10.	<10.	<10.	<10.	29.	<10.	17.	64
1001	1	08/08/84	42973	<10.	<10.	10.	<10.	<10.	<10.	<10.	<10.	<10.	40.	<10.	<10.	40
1001	2	07/31/84	19833	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	340.	<10.	<10.	340
1001	2	08/08/84	42974	<10.	<10.	12.	<10.	<10.	<10.	<10.	<10.	<10.	30.	<10.	<10.	42
1001	3	07/31/84	19834	<10.	<10.	44.	<10.	<10.	14.	<10.	<10.	<10.	1400.	<10.	<10.	1458
1001	3	08/08/84	42975	<10.	<10.	20.	<10.	<10.	<10.	<10.	<10.	<10.	2400.	<10.	<10.	2420
1001	4	07/31/84	19835	<10.	<10.	290.	<10.	<10.	150.	<10.	<10.	20.	62.	<10.	<10.	522
1001	4	08/08/84	42976	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	270.	<10.	<10.	270
1001		07/27/84	41060	<10.	25.	170.	<10.	<10.	120.	<10.	<10.	16.	1400.	<10.	54.	1785
1001		08/13/84	34673	<10.	<10.	16.	<10.	<10.	<10.	<10.	<10.	<10.	120.	<10.	<10.	136
1002		07/27/84	41061	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
1003		07/27/84	41062	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
1004		07/27/84	41063	<10.	12.	20.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	32
1005		08/13/84	34674	53.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	53
1006		08/13/84	34675	17.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	17
1007		08/13/84	34676	17.	<10.	2300.	<10.	<10.	370.	34.	<10.	15.	15.	<10.	<10.	2751
1008		08/13/84	34677	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
1009		08/13/84	34678	<10.	13.	16.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	29
1010		08/13/84	34679	16.	<10.	30.	<10.	<10.	40.	<10.	<10.	<10.	260.	<10.	<10.	346
1011		08/08/84	42977	<10.	<10.	<10.	41.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	41
1011		08/13/84	34680	<10.	<10.	21.	51.	<10.	<10.	32.	<10.	11.	<10.	<10.	<10.	115
1012		08/13/84	34681	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
1013		08/13/84	34682	<10.	16.	81.	<10.	<10.	<10.	10.	<10.	<10.	<10.	<10.	<10.	107
1014		08/13/84	34683	11.	38.	230.	<10.	<10.	<10.	16.	<10.	<10.	<10.	<10.	<10.	295
1015		08/13/84	34684	<10.	<10.	13.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	13
1016		08/13/84	34685	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	14.	87.	<10.	<10.	101
1017		08/13/84	34686	<10.	<10.	34.	26.	<10.	<10.	<10.	<10.	<10.	25.	<10.	<10.	85

QUANTITATION UNITS

ug/kg

ATLANTIC TESTING
CLARK STREET / ENVIRONMENTAL MONITORING PLAN
2772-002-517

SITE	TYPE	SAMPLE	DATE	SAMPLE	CR
1001	2	1	07/31/84	19832	640.
1001	2	1	08/08/84	42973	180.
1001	2	2	07/31/84	19833	180.
1001	2	2	08/08/84	42974	94.
1001	2	3	07/31/84	19834	58.
1001	2	3	08/08/84	42975	280.
1001	2	4	07/31/84	19835	240.
1001	2	4	08/08/84	42976	190.
1001	2		07/27/84	41060	720.
1001	2		08/13/84	34673	
1001	3	1	07/31/84	19839	<.01
1001	3	2	07/31/84	19840	<.01
1001	3	3	07/31/84	19841	<.01
1001	3	4	07/31/84	19842	<.01
1001	3		07/27/84	41064	<.01
1001	3		08/13/84	20243	<.01
1002	2		07/27/84	41061	8.0
1002	3		07/27/84	41065	<.01
1003	2		07/27/84	41062	8.7
1003	3		07/27/84	41066	<.01
1004	2		07/27/84	41063	22.
1004	3		07/27/84	41067	<.01
1005	2		08/13/84	34674	
1005	3		08/13/84	20244	<.01
1006	2		08/13/84	34675	
1006	3		08/13/84	20245	<.01
1007	2		08/13/84	34676	
1007	3		08/13/84	20246	<.01
1008	2		08/13/84	34677	
1008	3		08/13/84	20247	<.01
1009	2		08/13/84	34678	
1009	3		08/13/84	20248	<.01
1010	2		08/13/84	34679	
1010	3		08/13/84	20249	<.01
1011	2		08/08/84	42977	3.4
1011	2		08/13/84	34680	
1011	3		08/13/84	20250	<.01
1012	2		08/13/84	34681	
1012	3		08/13/84	20251	<.01
[illegible]	[illegible]		[illegible]	[illegible]	

ATLANTIC TESTING
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SITE	TYPE	SAMPLE	DATE	SAMPLE	CR
1013	3		08/13/84	20252	<.01
1014	2		08/13/84	34683	
1014	3		08/13/84	20253	<.01
1015	2		08/13/84	34684	
1015	3		08/13/84	20254	<.01
1016	2		08/13/84	34685	
1016	3		08/13/84	20255	<.01
1017	2		08/13/84	34686	
1017	3		08/13/84	20256	<.01

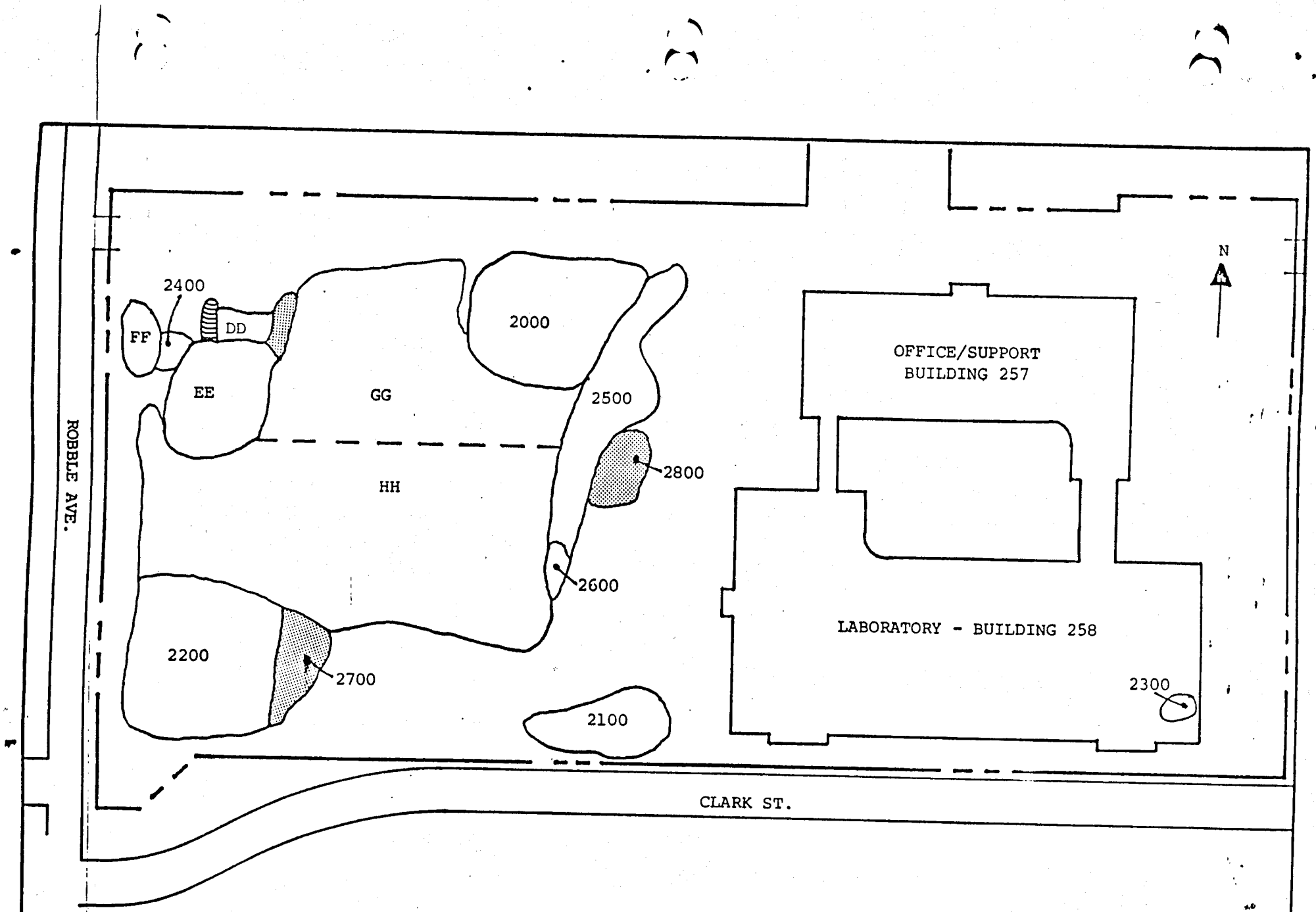
TYPE IDENTIFIERS

Type 2 = Total Soil Analysis
Type 3 = EP Toxicity Leachate

QUANTITATION UNITS

Soils = mg/kg wet weight
Leachate - mg/l

APPENDIX IV



Undesirable Deleterious Material

Concrete Material

SITE PLAN OF STOCKPILES	SCALE	PROJECT No.	DATE
	None	ET047E	10-84

FS404

ATLANTIC TESTING LABORATORIES Limited

ATLANTIC TESTING
CLARK STREET / ENVIRONMENTAL MONITORING PLAN
2772-002-517

SITE	DATE	SAMPLE	LR	CH2CL2	CL3CCH3	CL3CPH	CL4C2	DCLEN11	DCLEN12	DCETAN11	DCETAN12	CLOROBZ	BENZ	TOLUENE	ETHBENZ	XYLENES	Total
2001	10/08/84	55096	<.01	<10.	31.	270.	<10.	<10.	58.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	360
2002	10/08/84	55097	<.01	<10.	<10.	22.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	22
2003	10/08/84	55098	<.01	17.	26.	270.	<10.	<10.	34.	<10.	<10.	<10.	<10.	21.	<10.	<10.	368
2004	10/08/84	55099	<.01	<10.	<10.	34.	<10.	<10.	140.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	174
2005	10/08/84	55100	<.01	40.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	58.	<10.	<10.	98
2006	10/08/84	55101	<.01	26.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	26
2007	10/08/84	55102	<.01	<10.	16.	400.	<10.	<10.	130.	26.	<10.	46.	<10.	<10.	<10.	<10.	618
2007	10/18/84	42933	<.01	<10.	37.	590.	<10.	<10.	37.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	664
2007	10/18/84	74625	<.01	<10.	<10.	80.	<10.	<10.	19.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	99
2008	10/08/84	55103	<.01	<10.	<10.	150.	<10.	<10.	51.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	201
2009	11/06/84	72746	<.01	<10.	<10.	32.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	32
2010	11/06/84	72747	<.01	<10.	<10.	30.	<10.	<10.	21.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	51
2011	11/06/84	72748	<.01	<10.	<10.	24.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	24
2012	11/06/84	72749	<.01	<10.	<10.	23.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	23
2013	11/06/84	72750	<.01	<10.	<10.	20.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	20
2014	11/06/84	72751	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2015	11/06/84	72752	<.01	<10.	<10.	40.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	40
2016	11/06/84	72753	<.01	39.	<10.	18.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	57
2017	11/06/84	72754	<.01	14.	<10.	23.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	37
2018	11/06/84	72755	<.01	<10.	<10.	40.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	40
2101	10/09/84	55104	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	17.	<10.	<10.	17
2102	10/09/84	55105	<.01	<10.	<10.	28.	<10.	<10.	11.	<10.	<10.	<10.	<10.	160.	11.	35.	245
2103	10/09/84	55106	<.01	<10.	<10.	11.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	68.	<10.	29.	108
2104	10/09/84	55107	<.01	<10.	<10.	20.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	75.	<10.	21.	116
2105	10/09/84	55108	<.01	<10.	<10.	11.	<10.	12.	<10.	<10.	<10.	<10.	<10.	79.	17.	<50.	169
2106	10/09/84	55109	<.01	12.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	12
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	<10.	[illegible]	<10.	<10.	<10.	<10.	76.	<10.	<10.	106

FS4049

ATLANTIC TESTING
CLARK STREET / ENVIRONMENTAL MONITORING PLAN
2772-002-517

SITE	DATE	SAMPLE	CR	CH2CL2	CL3CCH3	CL3C2H	CL4C2	DCLEN11	DCLEN12	DCETAN11	DCETAN12	CLOROBZ	BENZ	TOLUENE	ETHBENZ	XYLENES	Total
2108	10/09/84	55111	<.01	<10.	<10.	16.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	26.	<10.	<10.	42
2109	10/09/84	55112	<.01	<10.	<10.		<10.	<10.	<10.	<10.	<10.	<10.	<10.	14.	<10.	<10.	14
2110	10/09/84	55113	<.01	<10.	<10.	36.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	60.	<10.	<10.	96
2201	10/09/84	55114	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2202	10/09/84	55115	<.01	<10.	<10.	31.	<10.	<10.	11.	<10.	<10.	<10.	<10.	44.	<10.	13.	99
2203	10/09/84	55116	<.01	<10.	<10.	18.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	28.	<10.	<10.	46
2204	10/09/84	55117	<.01	39.	<10.	12.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	29.	<10.	<10.	80
2205	10/09/84	55118	<.01	<10.	<10.	12.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	150.	<10.	<10.	162
2206	10/09/84	55119	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	18.	<10.	<10.	18
2207	10/09/84	55120	<.01	<10.	<10.	24.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	63.	<10.	<10.	87
2208	10/10/84	59050	<.01	<10.	<10.	27.	<10.	<10.	12.	<10.	<10.	<10.	<10.	160.	<10.	<10.	199
2209	10/10/84	59051	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	17.	<10.	<10.	17
2210	10/10/84	59052	<.01	<10.	<10.	150.	<10.	<10.	72.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	222
2211	10/10/84	59053	<.01	39.	<10.	28.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	67
2212	10/10/84	59054	<.01	<10.	<10.	120.	<10.	<10.	54.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	174
2213	10/10/84	59055	<.01	<10.	<10.	45.	<10.	<10.	25.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	70
2214	10/10/84	59056	<.01	<10.	<10.	0.	<10.	<10.	26.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	26
2215	10/10/84	59057	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2216	10/10/84	59058	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	20.	<10.	<10.	20
2217	10/10/84	59059	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	20.	<10.	<10.	20
2218	10/10/84	59060	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2219	10/10/84	59061	<.01	<10.	12.	120.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	13.	<10.	<10.	145
2220	10/10/84	59062	<.01	15.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	140.	<10.	<10.	140
2221	10/10/84	59063	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	130.	<10.	<10.	130
2222	10/10/84	59064	<.01	49.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	100.	<10.	<10.	149
2223	10/10/84	59065	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	[illegible]

ATLANTIC TESTING
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SITE	DATE	SAMPLE	CR	CH2CL2	CL3CCH3	CL3CPH	CL4C2	DCLEN11	DCLEN12	DCETAN11	DCETAN12	CLOROBZ	BENZ	TOLUENE	ETHBENZ	XYLENES	Total
2224	10/10/84	59066	<.01	<10.	<10.	<10.	<10.	<10.	15.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	15
2301	10/18/84	74094	<.01	<10.	<10.	26.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	26
2302	10/18/84	74095	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	11.	<10.	<10.	11
2303	10/18/84	74096	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2401	10/18/84	72756	<.01	<10.	<10.	16.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	18.	<10.	<10.	34
2401	10/18/84	74626	<.01	23.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	12.	<10.	<10.	35
2402	10/18/84	72757	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	11.	<10.	<10.	11
2402	10/18/84	74627	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	12.	<10.	<10.	12
2500	11/06/84	72758	<.01	53.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	10.	<10.	<10.	63
2501	11/06/84	72759	<.01	<10.	15.	18.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	33
2502	11/06/84	72760	<.01	<10.	47.	430.	<10.	<10.	82.	64.	<10.	<10.	<10.	26.	<10.	<10.	649
2503	11/06/84	72761	<.01	<10.	12.	11.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	23
2504	11/06/84	72762	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2505	11/06/84	72763	<.01	31.	12.	69.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	12.	<10.	<10.	124
2506	11/06/84	72764	<.01	42.	<10.	15.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	57
2507	11/06/84	72765	<.01	14.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	14
2508	11/06/84	72766	<.01	<10.	<10.	43.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	51.	<10.	<10.	94
2509	11/06/84	72767	<.01	52.	22.	130.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	29.	<10.	<10.	233
2510	11/06/84	72768	<.01	48.	49.	430.	<10.	<10.	50.	79.	<10.	<10.	<10.	19.	<10.	<10.	675
2511	11/06/84	72769	<.01	<10.	24.	25.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	49
2512	11/06/84	72770	<.01	<10.	<10.	20.	<10.	<10.	<10.	10.	<10.	<10.	<10.	<10.	<10.	<10.	20
2513	11/06/84	72771	<.01	49.	19.	64.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	11.	<10.	<10.	143
2514	11/06/84	72772	<.01	54.	25.	200.	<10.	<10.	20.	29.	<10.	<10.	<10.	<10.	<10.	<10.	298
2601	11/05/84	72773	<.01	<10.	<10.	32.	<10.	<10.	12.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	44
2602	11/05/84	72774	<.01	<10.	<10.	18.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	18
2603	11/05/84	72775	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2604	11/05/84	72776	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	30.	<10.	<10.	30

ATLANTIC TESTING
CLARK STREET / ENVIRONMENTAL MONITORING PLAN
2772-002-517

SITE	DATE	SAMPLE	CR	CH2CL2	CL3CCH3	CL3C2H	CL4C2	DCLEN11	DCLEN12	DCETAN11	DCETAN12	CLOROBZ	BENZ	TOLUENE	ETHBENZ	XYLENES	Total
2605	11/05/84	72777	<.01	13.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	13
2606	11/06/84	72778	<.01	3.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2607	11/06/84	72779	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2608	11/06/84	72780	<.01	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2609	11/06/84	72781	<.01	30.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	30
2610	11/06/84	72782	<.01	<10.	12.	40.	<10.	<10.	15.	<10.	<10.	<10.	<10.	11.	<10.	<10.	78
2701	11/02/84	71068	<.01	340.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	29.	24.	<10.	<10.	393
2702	11/02/84	71069	<.01	46.	70.	200.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	316
2703	11/02/84	71070	<.01	22.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	22
2704	11/02/84	71071	<.01	24.	<10.	14.	<10.	<10.	11.	12.	<10.	<10.	<10.	16.	<10.	<10.	77
2705	11/02/84	71072	<.01	30.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	30
2706	11/02/84	71073	<.01	110.	10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	110
2707	11/02/84	71074	<.01	62.	25.	17.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	104
2801	11/30/84	76214	<.05	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2802	11/30/84	76215		<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2803	11/30/84	76216		<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2804	11/30/84	76217		<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10
2805	11/30/84	76218		<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10.	<10

Comments

The Chromium values are reported as EPTOX Chromium in units of mg/l in the leachate. The volatile organics are reported in units of ug/kg wet weight.

APPENDIX B

PHYSICAL DATA

B-1: Huron Well Field - Historical Pumping Data
South Street Well Field - Monthly Pumping Data

B-2: Physical Well Data & Well/Boring Specifications

B-3: Logs for Monitoring Wells, Test Wells, and Soil Borings

B-4: Gradation Analyses for Borings EN-206A, EN-214B, and EN-284A

B-5: Aquifer Test Data:
Compact Disc with Raw Data
D&M Table 2: Upper Aquifer Characteristics (1980)
Table B-1: Summary of Aquifer Test Parameters (2003)
Shutdown Test Chronology
Pumping Test Chronology
Groundwater Elevation Graphs for Shutdown Test
Aquifer Test Analysis Graphs
Groundwater Elevation Graphs for Observation Wells
Slug (Pulse) Test Reports

B-6: Groundwater Elevation Tables (2003)

APPENDIX B-1

Huron Well Field - Historical Pumping Data
South Street Well Field - Monthly Pumping Data

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
1975			526,000,000	
1976			526,000,000	
1977			260,000,000	
1978			525,000,000	
1979			432,000,000	
1980			60,000,000	
1981			75,000,000	
1982			150,000,000	
10/11/1983	36823			totalizing well water meter into plant installed 10/11/83
10/26/1983	48547	782		
11/22/1983	64474	590		
01/05/1984	92771	623		
01/13/1984	96065	412		
01/23/1984	99726	366		
01/30/1984	102549	403		
02/07/1984	105637	386		
02/14/1984	108460	403		
02/23/1984	111825	374		
03/28/1984	127376	457		
04/03/1984	129962	431		
04/19/1984	135734	361		
04/24/1984	136975	248		
05/01/1984	140055	440		
05/15/1984	147301	518		
05/24/1984	152944	627		
05/29/1984	154848	381		
06/05/1984	156853	286		
06/29/1984	166425	399		
07/02/1984	167487	354		
07/16/1984	172989	393		
07/17/1984	173461	472		
07/30/1984	181913	650		
08/07/1984	186815	613		
08/15/1984	192371	695		
08/31/1984	203108	671		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
09/28/1984	218483	549		
10/15/1984	225791	430		
10/22/1984	228408	374		
10/31/1984	232191	420		
11/30/1984	241625	314	172,888,008	(Year 1984)
01/21/1985	251853	197		
02/05/1985	260051	547		
03/01/1985	264918	203		
04/01/1985	271262	205		
05/01/1985	281814	352		
05/31/1985	294279	416		
06/07/1985	296901	375		
06/14/1985	299478	368		
06/24/1985	304616	514		
07/01/1985	308123	501		
07/08/1985	311627	501		
07/22/1985	321530	707		
07/29/1985	327022	785		
08/05/1985	332032	716		
08/12/1985	337272	749		
08/26/1985	348017	768		
09/10/1985	357302	619		
09/16/1985	360869	595		
09/30/1985	369199	595		
11/01/1985	382494	415		
11/15/1985	387988	392		
12/02/1985	394798	401		
12/16/1985	401011	444	152,692,625	(Year 1985)
01/15/1986	414418	447		
01/30/1986	420545	408		
02/17/1986	426538	333		
02/28/1986	428952	219		
03/17/1986	434787	343		
03/31/1986	442936	582		
04/15/1986	450227	486		
05/01/1986	456916	418		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
05/15/1986	463762	489		
05/30/1986	470659	460		
06/16/1986	479572	524		
06/30/1986	487089	537		
07/15/1986	494978	526		
07/30/1986	499320	289		
08/15/1986	506547	452		
08/29/1986	513278	481		
09/15/1986	517734	262		all power down at wells 9/8/86 9am
09/30/1986	517734	0		
09/30/1984	517734	0		
10/10/1986	518850	2		wells back on 10/4 or 10/6
10/13/1986	519955	368		
10/15/1986	520713	379		
10/31/1986	526483	361		
11/14/1986	530999	323		
11/17/1986	531804	268		
11/25/1986	533575	221		
12/01/1986	535691	353		
12/15/1986	541064	384		
12/23/1986	544297	404	140,589,758 (Year 1986)	
01/15/1987	553980	421		
01/30/1987	559121	343		
02/17/1987	563726	256		
02/27/1987	567249	352		
03/16/1987	575594	491		
03/30/1987	584730	653		
04/15/1987	593031	519		
04/30/1987	599763	449		
05/15/1987	606505	449		
05/29/1987	612356	418		
06/15/1987	615638	193		
06/30/1987	619642	267		
07/15/1987	624383	316		
07/31/1987	630126	359		
08/14/1987	635395	376		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
08/31/1987	641961	386		
09/15/1987	646506	303		
09/30/1987	651674	345		
10/16/1987	657548	367		
10/30/1987	662896	382		
11/16/1987	668773	346		
11/30/1987	674845	434		
12/15/1987	680832	399		
12/24/1987	684551	413	139,870,792	(Year 1987)
01/04/1988	687822	297		
01/15/1988	693879	551		
01/29/1988	702155	591		
02/15/1988	710825	510		
02/29/1988	718256	531		
03/15/1988	727723	631		
03/30/1988	737485	651		
04/15/1988	746522	565		
04/29/1988	756072	682		
05/16/1988	769706	802		
05/31/1988	776986	485		
06/15/1988	783721	449		
06/30/1988	790571	457		
07/15/1988	799019	563		
07/29/1988	805286	448		
08/15/1988	813609	490		
08/31/1988	822434	552		
09/15/1988	831313	592		
09/30/1988	839891	572		
10/17/1988	846081	364		
10/31/1988	851081	357		
11/15/1988	858520	496		
11/30/1988	866852	555		
12/15/1988	875317	564		
12/23/1988	880204	611	195,653,000	(Year 1988)
01/16/1989	892889	529		
01/31/1989	901633	583		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
02/15/1989	910583	597		
02/28/1989	916894	485		
03/16/1989	924680	487		
03/31/1989	932352	511		
04/14/1989	939295	496		well down 3 hrs 4/13/89
04/27/1989	944883	430		
05/17/1989	954074	460		
05/31/1989	958215	296		
06/16/1989	965994	486		
06/28/1989	972109	510		
07/14/1989	979105	437		
08/01/1989	988906	545		
08/30/1989	5288	565		
09/28/1989	22548	595		
10/31/1989	42519	605		
11/27/1989	59828	641		
12/20/1989	70340	457	191,711,713 (Year 1989)	
01/24/1990	87125	480		
02/14/1990	96585	450		
02/28/1990	102880	450		
03/15/1990	109747	458		
03/28/1990	115366	432		
04/12/1990	122145	452		
04/25/1990	127366	402		
05/16/1990	133615	298		
05/31/1990	133616	0		
06/07/1990	134255	91		
06/21/1990	137620	240		
07/11/1990	146645	451		
07/30/1990	160798	745		
08/09/1990	167360	656		
08/23/1990	175540	584		
09/13/1990	177812	108		
09/28/1990	178131	21		
10/16/1990	178132	0		
10/30/1990	178133	0		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
11/14/1990	178139	0		
11/29/1990	178139	0		
12/20/1990	178142	0	107,802,000 (Year 1990)	
01/04/1991	178143	0		
01/15/1991	178143	0		
01/30/1991	178143	0		
02/13/1991	178143	0		
02/27/1991	178143	0		
03/13/1991	178143	0		
03/27/1991	180474	167		
04/10/1991	182192	123		
04/25/1991	184893	180		
05/15/1991	189504	231		
05/29/1991	192720	230		
06/12/1991	196901	299		
06/28/1991	202847	372		
07/17/1991	210103	382		
07/30/1991	214524	340		
08/13/1991	219999	391		
08/29/1991	220878	55		
09/16/1991	222022	64		
09/26/1991	225890	387		
10/10/1991	231867	427		
10/31/1991	240921	431		
11/14/1991	246658	410		
11/27/1991	251249	353		
12/10/1991	257541	484		
12/24/1991	264791	518	85,709,715 (Year 1991)	
01/15/1992	277058	558		
01/30/1992	283427	425		
02/11/1992	287332	325		
02/28/1992	292146	283		
03/19/1992	297675	276		
03/31/1992	301352	306		
04/16/1992	306229	305		
04/30/1992	306657	31		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
05/14/1992	306657	0		
05/28/1992	308312	118		
06/11/1992	317065	625		
06/25/1992	324759	550		
07/16/1992	327088	111		
07/30/1992	327088	0		
08/14/1992	327306	15		
08/28/1992	329105	129		
09/18/1992	341647	597		
10/02/1992	353224	827		
10/15/1992	363552	794		
10/30/1992	373342	653		
11/12/1992	384470	856		
11/25/1992	398149	1052		
12/15/1992	418693	1027		
12/23/1992	427243	1069	162,452,000 (Year 1992)	
01/14/1993	449388	1007		
01/29/1993	466243	1124		
02/11/1993	481608	1182		
02/25/1993	497225	1116		
03/08/1993	510007	1162		
03/23/1993	526380	1092		
04/14/1993	537194	492		
04/30/1993	538390	75		
05/11/1993	542537	377		
05/24/1993	553609	852		
06/15/1993	574367	944		
06/28/1993	586803	957		
07/14/1993	600287	843		
07/29/1993	608563	552		
08/09/1993	613548	453		
08/30/1993	624597	526		
09/15/1993	632356	485		
09/29/1993	644988	902		well run hours 6/1/93-11/30/93:
10/12/1993	658531	1042		wells 3 & 4 used more than 2 & 5
10/27/1993	672719	946		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
11/09/1993	684900	937		
11/23/1993	697505	900		
12/08/1993	708396	726		well run hours 12/1/93-5/31/94:
12/27/1993	722707	753	292,261,138 (Year 1993)	Dec Mar Apr May
01/14/1994	736049	741		#2 0 0 422 611
01/27/1994	746968	840		#3 367 577 345 425
02/16/1994	764122	858		#4 406 657 143 367
02/28/1994	764789	56		#5 82 147 231 72
03/16/1994	777363	786		
03/30/1994	788511	796		
04/14/1994	799107	706		
04/25/1994	806951	713		
05/10/1994	823260	1087		
05/20/1994	830644	738		
06/15/1994	847127	634		
06/28/1994	855795	667		
07/08/1994	861167	537		
07/18/1994	866561	539		
08/10/1994	878647	525		Wells down- line break- 8/3 night to 8/8 back on line
08/29/1994	888554	521		Start 8/12/94, run only one well pump at a time, unless
09/15/1994	896028	440		high demand drops pressure.
09/27/1994	902143	510		well run hours 6/1/94-11/30/94:
10/13/1994	909726	474		#2 1880
10/24/1994	914588	442		#3 100
11/10/1994	922714	478		#4 895
11/29/1994	930114	389		#5 359
12/13/1994	936476	454	222,295,399 (Year 1994)	
01/13/1995	945532	292		
01/31/1995	951525	333		
02/13/1995	955973	342		
02/23/1995	959353	338		
03/09/1995	964199	346		
03/31/1995	972411	373		
04/11/1995	976211	345		
04/21/1995	979810	360		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
05/11/1995	987055	362		well run hours 12/1/94-5/31/95:
05/24/1995	992612	427		wells 4 & 5 used more than 2 &3
06/15/1995	667	366		
06/29/1995	6435	412		
07/14/1995	11916	365		
07/28/1995	18093	441		
08/11/1995	24272	441		
08/31/1995	33123	443		
09/14/1995	38810	406		
09/25/1995	43290	407		
10/11/1995	49752	404		
10/27/1995	56027	392		
11/07/1995	60399	397		well run hours 6/1/95-11/30/95:
11/28/1995	68802	400		wells 4 & 5 used more than 2 &3
12/14/1995	76835	502		
12/27/1995	81463	356	139,631,280 (Year 1995)	
01/12/1996	86066	288		
01/30/1996	92781	373		
02/15/1996	98985	388		
02/29/1996	104625	403		
03/15/1996	110113	366		
03/29/1996	115244	367		
04/15/1996	121418	363		
04/24/1996	124286	319		
05/09/1996	129706	361		well run hours 12/1/95-5/31/96:
05/31/1996	137616	360		wells 4 & 5 used more than 2 &3
06/12/1996	142531	410		1 or 2 wells on at a time
06/28/1996	149213	418		
07/15/1996	154004	282		
07/30/1996	159977	398		
08/09/1996	163859	388		
08/28/1996	171381	396		
09/19/1996	180491	414		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)		Notes
09/30/1996	185370	444			well run hours 6/1/96 - 11/30/96 (% of total flow):
10/15/1996	191940	438		#2	
10/28/1996	197740	446		#3	
11/11/1996	203719	427		#4	
11/26/1996	210065	423		#5	80%
12/10/1996	215387	380			
12/23/1996	220525	395	140,214,448 (Year 1996)		
01/15/1997	229376	385			
01/29/1997	234929	397			
02/11/1997	240438	424			
02/25/1997	246002	397			
03/11/1997	251942	424			
03/26/1997	258152	414			well run hours 12/1/96-5/31/97:
04/09/1997	263708	397		#2	23
04/22/1997	268784	390		#3	282
05/14/1997	278108	424		#4	185
05/27/1997	283235	394		#5	4217
06/11/1997	289118	392			
06/23/1997	293887	397			
07/14/1997	300994	338			
07/29/1997	307554	437			
08/13/1997	313085	369			
08/26/1997	317798	363			
09/12/1997	325285	440			
09/24/1997	330691	451			well run hours 6/1/97-11/30/97:
10/06/1997	335794	425		#2	95
10/20/1997	342382	471		#3	224
11/17/1997	355255	460		#4	1584
11/29/1997	360065	401		#5	2561
12/11/1997	365505	453			
12/31/1997	372304	340	148,523,686 (Year 1997)		
01/16/1998	378465	385			
01/29/1998	384562	469			
02/12/1998	390711	439			
02/27/1998	397507	453			
03/13/1998	403686	441			

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
03/24/1998	406543	260		well run hours 12/1/97-5/31/98:
04/14/1998	414129	361		#2 49
04/29/1998	420392	418		#3 51
05/15/1998	427032	415		#4 2300
05/27/1998	432533	458		#5 2895
06/09/1998	437754	402		
06/29/1998	447004	463		
07/14/1998	453383	425		
07/28/1998	459853	462		
08/14/1998	468883	531		
08/28/1998	475712	488		
09/08/1998	480517	437		
09/29/1998	490409	471		
10/16/1998	498350	467		
10/27/1998	503408	460		
11/12/1998	511099	481		
11/23/1998	515317	383		
12/08/1998	521482	411		
12/23/1998	528073	439	159,259,622 (Year 1998)	
01/12/1999	535511	372		
01/26/1999	541710	443		
02/10/1999	548563	457		
02/22/1999	553797	436		
03/09/1999	560265	431		
03/25/1999	567390	445		well run hours 12/1/98 - 5/31/99 (% of total flow):
04/16/1999	578981	527		#2
04/29/1999	586407	571		#3 91%
05/13/1999	594127	551		#4
05/27/1999	603159	645		#5 5%
06/10/1999	608232	362		
06/25/1999	613499	351		
07/14/1999	622482	473		
07/30/1999	634322	740		
08/10/1999	640474	559		
08/26/1999	650345	617		
09/16/1999	669848	929		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
09/28/1999	679164	776		well run hours 6/1/99 - 11/30/99 (% of total flow):
10/12/1999	689576	744		#2 4%
10/27/1999	700363	719		#3 18%
11/11/1999	711017	710		#4 52%
11/23/1999	717566	546		#5 26%
12/16/1999	731599	610		
12/28/1999	737751	513	206,844,514 (Year 1999)	
01/12/2000	747171	628		
01/28/2000	759506	771		
02/09/2000	768524	752		
02/24/2000	779871	756		
03/17/2000	797845	817		
03/31/2000	809601	840		well run hours 12/1/99 - 5/31/00 (% of total flow):
04/14/2000	820848	803		#2 1%
04/27/2000	828772	610		#3 6%
05/08/2000	836359	690		#4 75%
05/25/2000	848979	742		#5 18%
06/14/2000	864497	776		
07/17/2000	891911	831		
07/31/2000	905145	945		
08/10/2000	915650	1051		
08/22/2000	927122	956		
09/11/2000	944586	873		
09/25/2000	956315	838		well run hours 6/1/00 - 11/30/00 (% of total flow):
10/12/2000	969172	756		#2 1%
10/27/2000	974318	343		#3 24%
11/13/2000	991670	1021		#4 59%
11/27/2000	998720	504		#5 17%
12/12/2000	6459	516		
12/28/2000	15954	593	277,442,883 (Year 2000)	
01/11/2001	22014	433		
01/22/2001	28222	564		
02/26/2001	48600	582		
03/14/2001	56835	515		
03/27/2001	64621	599		
04/10/2001	74248	688		

Huron Well Field
Historical Pumping Data - Process Water

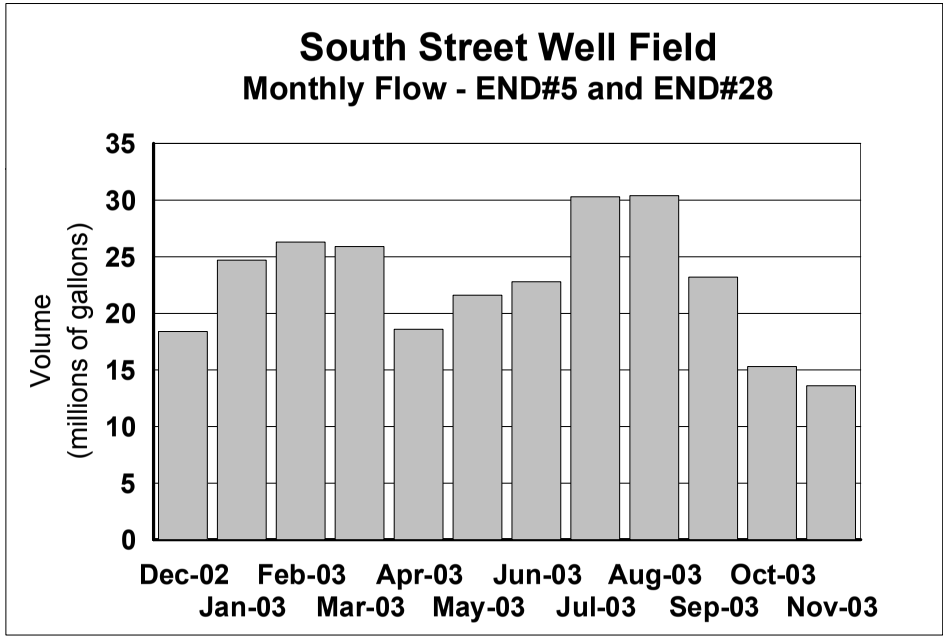
Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
04/24/2001	85083	774		
05/14/2001	102044	848		
05/31/2001	115037	764		
06/14/2001	125447	744		
06/25/2001	133673	748		
07/09/2001	143382	694		
07/26/2001	157463	828		
08/14/2001	176125	982		
08/28/2001	189583	961		
09/11/2001	203148	969		
09/24/2001	214354	862		
10/12/2001	227266	717		
10/25/2001	233922	512		
11/15/2001	241520	362		
11/28/2001	249626	624		
12/14/2001	256130	407		
12/26/2001	261128	417	246,524,821 (Year 2001)	
01/07/2002	264988	322		
01/21/2002	270588	400		
02/12/2002	279296	396		
02/25/2002	284618	409		
03/11/2002	289896	377		
03/25/2002	294577	334		
04/09/2002	298220	243		
05/09/2002	310141	397		
06/04/2002	320747	408		well run hours 12/1/01 - 11/30/02 (% of total flow):
07/02/2002	336222	553		#2 2%
08/01/2002	355348	638		#3 25%
09/05/2002	378175	652		#4 32%
10/02/2002	394305	597		#5 41%
11/05/2002	408618	421		
12/03/2002	416402	278		
01/03/2003	421441	163	156,874,651 (Year 2002)	
02/03/2003	424575	101		
03/03/2003	427703	112		
04/08/2003	434557	190		

Huron Well Field
Historical Pumping Data - Process Water

Date	Meter Readings Totalizer Meter gallons x 1000	Average Rate (Kgpd)	Total Annual Flow (gallons)	Notes
05/05/2003	440569	223		
06/02/2003	454987	515		
07/07/2003	476772	622		
08/06/2003	494947	606		
09/02/2003	513776	697		
10/06/2003	529508	463	142,914,692	(Year 2003 through 10/6/03))

South Street Well Field
Monthly Pumping Data - Treated Water

Date	Average Rate* (Kgpd)	Total Monthly Flow (gallons)
Dec-02	594	18,400,000
Jan-03	798	24,700,000
Feb-03	940	26,300,000
Mar-03	834	25,900,000
Apr-03	619	18,600,000
May-03	696	21,600,000
Jun-03	761	22,800,000
Jul-03	977	30,300,000
Aug-03	981	30,400,000
Sep-03	772	23,200,000
Oct-03	493	15,300,000
Nov-03	454	13,600,000



*Data obtained from NYSDOH, Bureau of Public Water Supply Protection, Water Systems Operation Reports

APPENDIX B-2

Physical Well Data & Well/Boring Specifications

Supplemental Groundwater Assessment
Physical Well Data and Well/Boring Specifications

Well ID	Northing	Easting	M.P. Elevation	G.S. Elevation	Stickup	Surface Completion	Location Description	Install Date	Total Depth	Casing Depth	Boring Diameter	Depth to Screen Top	Depth to Screen Bottom	Screen Length	Screen Diameter	Slot Size	Screen Material	Casing Diameter	Casing Material	Depth to Top of Silt	Top of Silt Elevation
	(grid feet)	(grid feet)	(ft amsl)	(ft amsl)	(feet)				(ft bgs)	(ft bgs)	(in)	(ft bgs)	(ft bgs)	(ft)	(in)	(in)		(in)		(ft bgs)	(ft amsl)
Upper Aquifer																					
EN-002	767896.01	965175.62	842.54	839.7	2.81	SP	Fuel oil tank near RR tracks, east of Oak Hill Ave	23-Aug-79	22.0	14.0	8.0	6.0	14.0	8.0	4.0	0.018	PVC	4.0	PVC	14.0	825.7
EN-006	766868.93	966244.74	852.34	849.7	2.65	SP	Credit Union, between McKinley and Grant	29-Aug-79	42.0	33.0	8.0	15.0	33.0	18.0	4.0	0.018	PVC	4.0	PVC	33.0	816.7
EN-012	767813.45	965734.63	851.86	849.0	2.89	SP	Between Buildings 18 and 39	22-Jan-80	25.0	24.0	7.0	14.0	24.0	10.0	4.0	0.020	PVC	4.0	PVC	21.5	827.5
EN-013	767740.63	965756.24	851.93	849.2	2.73	SP	Between Buildings 18 and 39	23-Jan-80	22.0	22.0	7.0	13.0	22.0	9.0	4.0	0.020	PVC	4.0	PVC	20.5	828.7
EN-014	767673.44	965777.26	852.00	849.1	2.94	SP	Building 18 (west side)	23-Jan-80	23.0	23.1	7.0	13.0	23.0	10.0	4.0	0.020	PVC	4.0	PVC	22.2	826.9
EN-015	767578.96	965796.99	851.81	849.1	2.69	SP	Between Buildings 18 and 14	25-Jan-80	31.0	30.5	7.0	20.0	30.0	10.0	4.0	0.020	PVC	4.0	PVC	29.0	820.1
EN-016	767501.00	965816.67	852.22	849.4	2.81	SP	Between Buildings 18 and 14	25-Jan-80	30.0	30.0	7.0	20.0	30.0	10.0	4.0	0.020	PVC	4.0	PVC	29.5	819.9
EN-017	767469.69	965884.58	852.15	849.4	2.76	SP	Building 18 (SW corner)	28-Jan-80	27.0	25.5	7.0	15.5	25.5	10.0	4.0	0.020	PVC	4.0	PVC	23.5	825.9
EN-018	767492.08	965981.38	851.45	848.8	2.63	SP	Building 18 (south side)	28-Jan-80	23.0	23.0	7.0	13.0	23.0	10.0	4.0	0.020	PVC	4.0	PVC	22.0	826.8
EN-019	767516.32	966085.05	852.34	849.7	2.68	SP	Building 18 (SE corner)	29-Jan-80	24.0	24.0	7.0	14.0	24.0	10.0	4.0	0.020	PVC	4.0	PVC	22.0	827.7
EN-020	767652.70	966078.76	851.30	848.5	2.78	SP	Building 18 (east side)	27-Jan-80	22.0	22.0	7.0	12.0	22.0	10.0	4.0	0.020	PVC	4.0	PVC	20.0	828.5
EN-021	767842.39	966114.68	847.84	845.0	2.80	SP	Between Buildings 41 and 18	27-Jan-80	21.0	21.0	7.0	11.0	21.0	10.0	4.0	0.020	PVC	4.0	PVC	18.0	827.0
EN-022	765902.83	966142.34	844.48	842.0	2.49	SP	Building 699 (SW corner), on Grant St	26-Jan-80	27.0	23.0	7.0	15.0	23.0	8.0	4.0	0.020	PVC	4.0	PVC	21.0	821.0
EN-023	767459.76	967000.64	850.37	847.8	2.61	SP	Adams Ave (north), south of Building 32	27-Jan-80	24.0	24.0	7.0	14.0	24.0	10.0	4.0	0.020	PVC	4.0	PVC	22.0	825.8
EN-024	767346.28	965453.20	852.01	849.3	2.69	SP	Building 14 (SW corner)	05-Feb-80	27.0	24.0	5.0	14.0	24.0	10.0	4.0	0.020	PVC	4.0	PVC	25.0	824.3
EN-025	768088.48	966070.23	838.64	839.0	-0.35	MH	Building 46 (SW corner)	07-Feb-80	19.0	18.0	7.0	8.0	18.0	10.0	4.0	0.020	PVC	4.0	PVC	17.5	821.5
EN-026	767734.69	964681.33	840.96	838.3	2.67	SP	Building 252, inside fenced transformers	07-Feb-80	20.0	20.0	7.0	10.0	20.0	10.0	4.0	0.020	PVC	4.0	PVC	17.5	820.8
EN-029A	766861.67	965833.81	850.40	850.8	-0.35	MH	Bank driveup window, between Garfield and Grant	15-Nov-82	37.5	36.5	0.0	21.0	36.0	15.0	4.0	0.010	PVC	4.0	PVC	36.5	814.3
EN-030	768031.87	968437.21	853.18	850.4	2.83	SP	North St between Helena and Hayes, in grass	06-Feb-80	47.0	47.0	7.0	37.0	47.0	10.0	4.0	0.020	PVC	4.0	PVC	24.0	826.4
EN-034	768325.11	966085.66	841.49	838.8	2.73	SP	Building 46 (west)	14-Mar-80	25.0	21.0	7.0	11.0	21.0	10.0	4.0	0.020	PVC	4.0	PVC	19.5	819.3
EN-035	767575.01	966442.36	854.22	851.5	2.75	SP	Building 28 (SE corner), at North and McKinley	15-Mar-80	28.0	28.0	7.0	18.0	28.0	10.0	4.0	0.020	PVC	4.0	PVC	27.5	824.0
EN-036	767620.86	966557.08	852.97	850.3	2.67	SP	Building 25 (SE corner), on North St	15-Mar-80	28.0	27.5	7.0	17.5	27.5	10.0	4.0	0.020	PVC	4.0	PVC	25.5	824.8
EN-037	768169.11	966448.87	839.97	840.3	-0.34	MH	Building 47 (south side)	18-Mar-80	28.0	25.0	7.0	15.0	25.0	10.0	4.0	0.020	PVC	4.0	PVC	22.0	818.3
EN-038	768087.15	966059.80	838.40	838.6	-0.23	MH	Building 46 (SE corner)	19-Mar-80	16.0	16.0	7.0	6.0	16.0	10.0	4.0	0.025	PVC	4.0	PVC	14.0	824.6
EN-039	768085.74	966049.77	841.21	838.5	2.76	SP	Building 46 (SE corner)	19-Mar-80	16.0	16.0	7.0	6.0	16.0	10.0	4.0	0.025	PVC	4.0	PVC	13.0	825.5
EN-040	768084.66	966039.50	837.81	838.2	-0.43	MH	Building 46 (SE corner)	20-Mar-80	17.0	16.0	7.0	6.0	16.0	10.0	4.0	0.025	PVC	4.0	PVC	14.0	824.2
EN-041	768083.43	966029.34	837.58	838.0	-0.39	MH	Building 46 (SE corner)	20-Mar-80	15.0	14.0	7.0	4.0	14.0	10.0	4.0	0.020	PVC	4.0	PVC	12.5	825.5
EN-042	768081.62	966019.93	837.45	837.8	-0.30	MH	Building 46 (SE corner)	22-Mar-80	16.0	16.0	7.0	6.0	14.0	8.0	4.0	0.025	PVC	4.0	PVC	11.5	826.3
EN-043	768113.25	966064.62	837.84	838.1	-0.29	MH	Building 46 (SE corner)	22-Mar-80	14.5	14.0	7.0	4.0	14.0	10.0	4.0	0.020	PVC	4.0	PVC	12.0	826.1
EN-044	768080.52	966005.18	837.11	837.6	-0.47	MH	Building 46 (SE corner)	23-Mar-80	20.0	14.0	7.0	7.0	14.0	7.0	4.0	0.025	PVC	4.0	PVC	12.0	825.6
EN-045	768078.59	965990.28	836.94	837.4	-0.42	MH	Building 46 (SE corner)	23-Mar-80	16.0	14.0	7.0	6.0	14.0	8.0	4.0	0.025	PVC	4.0	PVC	11.5	825.9
EN-046	768130.68	966069.24	837.60	837.9	-0.26	MH	Building 46 (SE corner)	24-Mar-80	14.0	14.0	7.0	6.0	14.0	8.0	4.0	0.020	PVC	4.0	PVC	12.0	825.9
EN-047	768145.75	966068.74	837.48	837.6	-0.16	MH	Building 46 (SE corner)	24-Mar-80	14.0	13.5	7.0	5.5	13.5	8.0	4.0	0.020	PVC	4.0	PVC	12.0	825.6
EN-048	768160.10	966068.06	837.54	837.6	-0.07	MH	Building 46 (SE corner)	26-Mar-80	16.0	16.0	7.0	6.0	16.0	10.0	4.0	0.020	PVC	4.0	PVC	13.5	824.1
EN-049	768174.79	966067.36	837.49	837.7	-0.17	MH	Building 46 (SE corner)	26-Mar-80	19.0	19.0	7.0	9.0	19.0	10.0	4.0	0.020	PVC	4.0	PVC	16.0	821.7
EN-051	768039.71	965777.26	839.65	836.8	2.88	SP	Building 48 (south), north of RR tracks	12-Apr-80	12.0	11.5	7.0	6.5	11.5	5.0	4.0	0.025	PVC	4.0	PVC	9.0	827.8
EN-052	768057.36	965883.28	839.44	836.9	2.51	SP	Building 48 (south), north of RR tracks	13-Apr-80	14.0	12.1	7.0	6.0	12.0	6.0	4.0	0.025	PVC	4.0	PVC	10.0	826.9
EN-053	768245.98	966073.22	837.86	838.2	-0.31	MH	Building 46 (SE corner)	16-Apr-80	20.0	20.0	7.0	10.0	20.0	10.0	4.0	0.020	PVC	4.0	PVC	17.5	820.7
EN-054	767827.49	965260.68	851.49	849.0	2.54	SP	North of Building 38 tank farm	13-Apr-80	27.0	24.0	7.0	14.0	24.0	10.0	4.0	0.025	PVC	4.0	PVC	19.0	830.0
EN-055	768198.35	966526.23	841.46	842.0	-0.50	MH	Building 47 (south side)	22-Apr-80	27.0	27.0	7.0	10.0	27.0	17.0	4.0	0.025	PVC	4.0	PVC	24.5	817.5
EN-056	768239.45	966737.80	844.07	844.5	-0.40	MH	Driveway before Building 47 dock gate	17-Apr-80	26.5	24.0	7.0	14.0	24.0	10.0	4.0	0.020	PVC	4.0	PVC	22.0	822.5
EN-058	768221.90	966597.96	845.75	843.0	2.79	SP	Building 47 (SE corner)	24-Apr-80	25.5	25.0	7.0	10.0	25.0	15.0	4.0	0.020	PVC	4.0	PVC	21.5	821.5
EN-059	765629.69	963899.41	833.67	831.0	2.69	SP	Broad and Harrison (SE corner)	17-Jul-80	18.0	18.0	7.0	5.0	15.0	10.0	4.0	0.020	PVC	4.0	PVC	13.0	818.0
EN-060	766403.60	964492.01	842.06	839.4	2.67	SP	Monroe and Lincoln (NE corner)	17-Jul-80	28.0	27.4	7.0	15.5	27.5	12.0	4.0	0.020	PVC	4.0	PVC	25.0	814.4
EN-061	765383.75	964781.84	838.09	838.5	-0.36	MH	Jefferson Ave, between Broad and Park	09-Jul-80	30.0	27.0	7.0	17.0	27.0	10.0	4.0	0.020	PVC	4.0	PVC	20.5	818.0
EN-062	766060.05	965231.86	840.96	838.3	2.65	SP	Madison Ave, Endicott pay parking lot	10-Jul-80	30.0	23.0	7.0	13.0	23.0	10.0	4.0	0.020	PVC	4.0	PVC	22.0	816.3
EN-063	765213.20	965322.67	837.88	838.5	-0.57	MH	South end of Madison Ave	10-Jul-80	26.0	26.7	7.0	16.0	26.0	10.0	4.0	0.020	PVC	4.0	PVC	18.5	820.0
EN-064	765919.63	965691.35	842.53	839.9	2.65	SP	Broad and Garfield (NW corner)	10-Jul-80	22.0	22.0	7.0	15.0	22.0	7.0	4.0	0.020	PVC	4.0	PVC	18.8	821.1
EN-065	767262.11	967664.40	854.92	852.2	2.69	SP	Jackson Ave across from Building 251 (HBE School)	15-Jul-80	40.0	40.0	7.0	20.0	40.0	20.0	4.0	0.020	PVC	4.0	PVC	37.5	814.7
EN-066	767313.84	963976.93	839.70	840.1	-0.37	MH	Building 96 former lagoon (SW corner)	17-Jul-80	40.0	38.0	7.0	12.0	38.0	26.0	4.0	0.020	PVC	4.0	PVC	32.0	808.1
EN-067	767506.05	963916.08	837.85	835.3	2.60	SP	Building 96 former lagoon (west side)	11-Jul-80	26.0	26.0	7.0	8.0	26.0	18.0	4.0	0.020	PVC	4.0	PVC	23.5	811.8
EN-069	767791.74	964213.37	839.14	836.4	2.73	SP	Building 96 (SW corner)	16-Jul-80	22.0	22.0	7.0	9.0	22.0	13.0	2.0	0.020	PVC	2.0	PVC	18.0	818.4
EN-070	767582.18	964402.97	841.66	838.9	2.78	SP	Building 96 (south) near RR tracks	14-Jul-80	18.0	16.5	7.0	10.0	16.0	6.0	4.0	0.020	PVC	4.0	PVC	14.5	824.4
EN-072	768035.67	964873.59	838.45	835.7	2.78	SP	Clark St and Oak Hill Ave (SW corner)	25-Jul-80	27.0	24.0	7.0	6.0	23.0	17.0	2.0	0.020	PVC	2.0	PVC	22.0	813.7
EN-073	768219.87	965240.82	839.74	836.9	2.87	SP	Clark St and Odell Ave (NE corner)	18-Jul-80	16.0	14.0	7.0	6.0	14.0	8.0	2.0	0.020	PVC	2.0	PVC	14.5	822.4
EN-074	767763.72	965085.54	851.59	848.8	2.75	SP	Building 87 (NW corner), near Oak Hill Ave and RR	22-Jul-80	28.0	25.0	7.0	15.0	25.0	10.0	2.0	0.020	PVC	2.0	PVC	23.0	825.8
EN-075	767593.25	965314.93	851.20	848.5	2.69	SP	Building 14 (NW corner)	22-Jul-80	24.0	22.0	7.0	15.0	22.0	7.0	2.0	0.020	PVC	2.0	PVC	20.0	828.5
EN-076	767266.17	965054.14	853.06	850.3	2.80	SP	North St and Oak Hill Ave (NE corner)	22-Jul-80	28.0	27.0	7.0	17.0	27.0	10.0	4.0	0.020	PVC	4.0	PVC	25.0	825.3
EN-077	767323.71	966172.91	854.25	851.6	2.66	SP	North St and The Alley	25-Jul-80	28.0	27.0	7.0	20.0	27.0	7.0	4.0	0.020	PVC	4.0	PVC	24.0	827.6
EN-078	767192.65	966537.83	852.16	849.3	2.84	SP	Building 42 (south side)	24-Jul-80	28.0	26.0	7.0	16.0	26.0	10.0	4.0	0.020	PVC	4.0	PVC	24.5	824.8
EN-079	766602.56	967052.38	848.15	845.5	2.69	SP	Monroe and Adams (NW corner)	23-Jul-80	36.0	35.0	7.0	18.0	35.0	17.0	2.0	0.020	PVC	2.0	PVC	33.0	812.5
EN-080	767021.77	967019.89	847.86	848.3	-0.45	MH	Adams Ave (west side)	23-Jul-80	28.0	26.0	7.0	16.0	26.0	10.0	2.0	0.020	PVC	2.0	PVC	24.5	823.8
EN-080A	767015.00	967022.00	NA	848.4	NA	Boring	Adams Ave (west side)	15-Jul-03	28.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24.0	824.4
EN-081	767678.21	966841.97	850.03	847.3	2.76	SP	North St (north side), NW of Building 032	24-Jul-80	30.0	30.0	7.0	13.0	30.0	17.0	4.0	0.020	PVC	4.0	PVC	28.0	819.3
EN-083	768419.03	967226.75	845.78	843.1	2.69	SP	Parking Lot No. 13 entrance on Clark, third from Hayes	24-Jul-80	12.0	12.0	7.0	10.0	12.0	2.0	2.0	0.020	PVC	2.0	PVC	11.8	831.3
EN-084	768961.72	967039.13	851.75	849.0	2.74	SP	Cycle parking NE of Building 256 on Watson	18-Jul-80	17.5	15.0	7.0	7.5	17.5	10.0	4.0	0.020	PVC	4.0	PVC	14.0	835.0
EN-086	768273.70	967894.69	844.31	841.6	2.74	SP	Hayes Ave, between North and Wayne St	24-Jul-80	16.0	15.0	7.0	6.0	16.0	10.0	2.0	0.020	PVC	2.0	PVC	Absent	Absent
EN-087	768057.66	967943.09	846.42	843.7	2.75	SP	Hayes and North (NE corner)	23-Jul-80	30.0	28.0	7.0	10.0	28.0	18.0	2.0	0.020	PVC	2.0	PVC	Absent	Absent
EN-089	768540.81	968551.43	845.48	842.5	3.00	SP	Building 57A (south)	21-Jul-80	16.0	15.0	7.0	10.0	15.0	5.0	2.0	0.020	PVC	2.0	PVC	Absent	Absent
EN-091	766867.01	965197.41	847.61	848.1	-0.48	MH	Madison parking lot	25-Aug-80	42.0	41.4	10.0	21.0	41.0	20.0	4.0	0.020	PVC	4.0	PVC	39.0	809.1
EN-092	766864.24	965627.23	850.53	848.3	2.22	SP	Garfield parking lot	20-Aug-80	38.0	37.3	10.0	22.0	38.0	16.0	4.0	0.020	PVC	4.0	PVC	35.0	813.3
EN-093	766606.18	965762.97	848.68	845.8	2.87	SP	Garfield and Monroe (NE corner)	22-Aug-80	38.0	36.5	10.0	21.0	36.0	15.0	4.0	0.020	PVC	4.0	PVC	35.0	810.8
EN-094	766834.32	964775.86	848.61	845.9	2.67	SP	Jefferson Ave (north end)	29-Aug-80	40.0	39.0	10.0	20.0	39.0	19.0	4.0	0.020	PVC	4.0	PVC	37.0	808.9
EN-095	766654.71	963794.23	846.08	843.3	2.75	SP	North and Harrison (SW corner)	21-Aug-80	54.0	54.8	6.0	18.0	54.0	36.0	4.0	0.020	PVC	4.0	PVC	40.5	802.8
EN-096	767199.13	963686.12	838.65	835.9	2.72	SP	SW of former lagoon, between Franklin and RR tracks	27-Aug-80	42.0	39.1	10.0	8.0	38.0	30.0	4.0	0.020	PVC	4.0	PVC	38.3	797.7
EN-097	768428.53	965084.95	840.37	841.1	-0.70	MH	Building 38 (north side)	26-Aug-80	24.0	18.5	10.0	8.0	18.0	10.0	4.0	0.020	PVC	4.0	PVC	Absent	Absent

Supplemental Groundwater Assessment
Physical Well Data and Well/Boring Specifications

Well ID	Northing	Easting	M.P. Elevation	G.S. Elevation	Stickup	Surface Completion	Location Description	Install Date	Total Depth	Casing Depth	Boring Diameter	Depth to Screen Top	Depth to Screen Bottom	Screen Length	Screen Diameter	Slot Size	Screen Material	Casing Diameter	Casing Material	Depth to Top of Silt	Top of Silt Elevation
	(grid feet)	(grid feet)	(ft amsl)	(ft amsl)	(feet)				(ft bgs)	(ft bgs)	(in)	(ft bgs)	(ft bgs)	(ft)	(in)	(in)		(in)		(ft bgs)	(ft amsl)
EN-098	768333.24	965156.79	839.05	839.4	-0.38	MH	Building 38 (north side)	28-Aug-80	16.0	15.9	10.0	10.5	15.5	5.0	4.0	0.020	PVC	4.0	PVC	Absent	Absent
EN-099	766614.61	965767.51	848.66	845.9	2.72	SP	Garfield and Monroe (NE corner)	18-Oct-80	36.0	35.2	0.0	30.1	35.1	5.0	2.0	0.000	PVC	2.0	PVC	NE	NE
EN-100	766632.63	965772.06	848.88	846.1	2.82	SP	Garfield and Monroe (NE corner)	18-Oct-80	32.0	31.2	0.0	26.1	31.1	5.0	2.0	0.000	PVC	2.0	PVC	NE	NE
EN-102	766613.98	965833.53	849.88	847.1	2.77	SP	Garfield and Monroe (NE corner)	19-Oct-80	36.0	34.5	0.0	29.5	34.5	5.0	2.0	0.000	PVC	2.0	PVC	34.5	812.6
EN-103	766097.34	963524.31	836.88	837.3	-0.38	MH	106 Fillmore Ave	07-Dec-80	36.0	35.5	10.0	15.0	35.5	20.5	4.0	0.020	PVC	4.0	PVC	34.0	803.3
EN-104	766472.94	963371.59	840.27	837.1	3.17	SP	610 North St, between Fillmore and Parsons	18-Dec-81	72.0	72.0	10.0	10.5	72.0	61.5	4.0	0.020	PVC	4.0	PVC	20.0	817.1
EN-105	767254.18	963408.94	834.60	832.2	2.39	SP	Franklin St (north side)	12-Dec-80	14.0	12.5	10.0	2.0	12.5	10.5	4.0	0.020	PVC	4.0	PVC	NE	NE
EN-106	768519.95	966315.14	853.89	851.2	2.73	SP	Building 47 (NW corner)	22-Dec-80	48.0	48.0	10.0	17.0	48.0	31.0	4.0	0.020	PVC	4.0	PVC	39.0	812.2
EN-107	767997.81	965571.72	840.08	838.8	1.30	SP	Building 48 (SW corner)	20-Jan-81	16.0	19.0	16.0	9.0	14.0	5.0	10.0	0.075	SS	10.0	BS	13.5	825.3
EN-108	768208.98	968420.59	843.35	840.5	2.83	SP	East of Hayes Ave, NW of Helena/Dittrich	26-Jan-81	28.0	23.0	10.0	10.0	23.0	13.0	4.0	0.020	PVC	4.0	PVC	Absent	Absent
EN-109	768193.74	968168.47	843.36	840.6	2.77	SP	East of Hayes Ave, south of Building 57	28-Jan-81	19.0	17.5	10.0	7.0	17.5	10.5	4.0	0.020	PVC	4.0	PVC	Absent	Absent
EN-111	767995.24	966074.47	841.24	841.7	-0.49	MH	Between Buildings 41 and 18	17-Apr-81	23.0	22.8	10.0	7.3	17.8	10.5	4.0	0.025	SS	4.0	BS?	17.6	824.1
EN-112	767990.94	966074.55	841.65	841.8	-0.19	MH	Between Buildings 41 and 18	16-Apr-81	23.0	23.3	10.0	7.8	18.3	10.5	4.0	0.025	SS	4.0	BS?	16.9	824.9
EN-113	767972.64	966078.05	842.02	842.4	-0.36	MH	In Building 18 driveway to east dock	21-Apr-81	22.0	21.9	10.0	4.9	16.9	12.0	4.0	0.020	SS	4.0	BS?	16.4	826.0
EN-114	768150.52	965514.07	836.40	836.8	-0.36	MH	Building 48 (SW corner)	22-Apr-81	26.0	22.8	10.0	7.5	22.8	15.3	4.0	0.020	SS	4.0	BS	22.5	814.3
EN-117	767955.83	965334.01	842.78	840.1	2.73	SP	Tank Farm, north of RR tracks	27-Apr-81	20.0	20.1	10.0	4.9	20.1	15.2	4.0	0.020	SS	4.0	BS	15.6	824.5
EN-118	768089.39	966073.31	842.19	839.2	3.00	SP	Building 46 (SW corner)	13-May-81	16.0	20.3	16.0	5.0	15.3	10.3	10.0	0.020	SS	10.0	BS	13.5	825.7
EN-119	768166.00	966522.00	NA	NA	NA	MH	Building 47 (SW corner)	17-May-81	24.0	27.0	16.0	12.0	22.0	10.0	10.0	0.020	SS	10.0	SS	22.0	~820
EN-120	766620.82	965858.98	848.23	847.8	0.40	NA	Garfield Ave pump house (Building 253)	29-May-81	43.5	43.5	16.0	18.5	38.5	20.0	8.0	0.020	SS	8.0	BS	37.5	810.3
EN-121	768062.95	964325.39	837.09	834.4	2.73	SP	Building 96 (north side), on Clark St	17-Mar-82	22.5	20.0	4.0	5.0	20.0	15.0	2.0	0.010	PVC	2.0	PVC	22.0	812.4
EN-122	768044.39	964079.13	836.39	833.7	2.69	SP	Between Building 95 and Clark St, outside fence	16-Mar-82	21.5	20.0	4.0	5.0	20.0	15.0	2.0	0.010	PVC	2.0	PVC	20.5	813.2
EN-123	767897.32	963919.81	835.41	832.7	2.69	SP	Building 95 Annex, NW corner	17-Mar-82	19.5	20.0	4.0	5.0	20.0	15.0	2.0	0.010	PVC	2.0	PVC	18.0	814.7
EN-125	766639.43	964791.80	845.47	842.9	2.61	SP	Jefferson Ave (north end)	14-May-82	44.0	42.0	6.0	22.0	42.0	20.0	2.0	0.010	PVC	2.0	PVC	41.7	801.2
EN-126	766505.61	964800.35	843.71	841.0	2.69	SP	Jefferson Ave (north end)	15-May-82	38.0	36.0	2.0	16.0	36.0	20.0	2.0	0.010	PVC	2.0	PVC	36.0	805.0
EN-127	767630.75	967042.09	844.61	845.2	-0.58	MH	Adams and North St (SE corner)	30-Jun-82	26.0	23.5	6.0	14.0	23.5	9.5	2.0	0.010	PVC	2.0	PVC	23.3	821.9
EN-129	767795.97	967634.45	846.74	846.9	-0.17	MH	Jackson Ave and North St (SW corner)	02-Jul-82	28.0	25.0	3.3	11.0	25.0	14.0	2.0	0.010	PVC	2.0	PVC	25.0	821.9
EN-130	767449.90	967345.64	850.12	850.5	-0.34	MH	10 Arthur Ave, south of North St	30-Jun-82	33.5	32.0	6.0	18.0	32.0	14.0	2.0	0.010	PVC	2.0	PVC	31.8	818.7
EN-131	766631.80	967686.09	862.22	859.5	2.70	SP	Monroe and Jackson (NW corner)	23-Jun-82	47.0	43.0	3.3	34.0	43.0	9.0	2.0	0.010	PVC	2.0	PVC	43.5	816.0
EN-132	766896.63	964871.27	848.20	848.8	-0.64	MH	Jefferson Ave (north end), outside building	13-Oct-82	41.0	40.0	6.0	25.0	40.0	15.0	2.0	0.010	PVC	2.0	PVC	38.0	810.8
EN-133	766913.04	964882.71	846.95	848.6	-1.62	NA	Jefferson Ave (north end), outside building	22-Oct-82	41.0	41.0	16.0	27.0	38.0	11.0	10.0	0.030	SS	10.0	BS	38.0	810.6
EN-146	768041.18	964497.39	837.49	834.6	2.88	SP	West of east truck gate for Building 96	29-Dec-82	22.0	21.0	8.0	7.0	21.0	14.0	4.0	0.010	PVC	4.0	PVC	20.0	814.6
EN-148	767892.23	965482.54	851.61	848.9	2.75	SP	Building 39 (NW corner)	30-Dec-82	26.0	26.0	6.0	11.0	25.0	14.0	4.0	0.010	NA	4.0	NA	NE	NE
EN-149	767125.61	963726.52	841.06	838.3	2.78	SP	Picciano's yard, pipe above ground, north of RR tracks	08-Sep-83	25.5	25.5	6.0	15.5	25.5	10.0	2.0	NA	NA	2.0	NA	NE	NE
EN-150	767120.42	963722.21	841.04	838.3	2.73	SP	Picciano's yard, pipe above ground, north of RR tracks	08-Sep-83	47.0	46.0	6.0	36.0	46.0	10.0	4.0	NA	NA	4.0	NA	46.5	791.8
EN-151	767207.60	963800.41	838.74	836.1	2.65	SP	Picciano's yard, pipe above ground, north of RR tracks	09-Sep-83	52.0	49.0	6.0	39.0	49.0	10.0	4.0	NA	NA	4.0	NA	49.0	787.1
EN-152	767207.32	963804.39	838.74	836.1	2.67	SP	Picciano's yard, pipe above ground, north of RR tracks	09-Sep-83	25.0	24.0	6.0	14.5	24.5	10.0	2.0	NA	NA	2.0	NA	NE	NE
EN-153	767250.08	963602.83	838.21	835.5	2.72	SP	NYSEG yard, pipe above ground, SW of former lagoon	07-Sep-83	22.0	20.0	6.0	10.0	20.0	10.0	2.0	NA	NA	2.0	NA	21.0	814.5
EN-154	767180.34	963738.09	830.43	836.5	-6.07	NA	Picciano's yard, pipe above ground, SW of former lagoon	30-Nov-83	41.5	39.5	16.0	23.5	39.5	16.0	10.0	0.020	SS	10.0	BS	40.0	796.5
EN-156	767495.26	967968.62	840.98	838.2	2.78	SP	Kentucky Ave, NE of HBE School dock	21-Feb-84	47.0	36.0	6.0	26.0	36.0	10.0	2.0	0.020	SS	2.0	SS	Absent	Absent
EN-157	767051.49	967943.00	840.89	838.2	2.73	SP	Kentucky Ave, next to John Deere fence	22-Feb-84	46.5	41.0	6.0	31.0	41.0	10.0	2.0	0.020	SS	2.0	SS	Absent?	Absent?
EN-158	767049.92	967759.88	855.67	852.8	2.84	SP	Jackson Ave, Building 251 (HBE School)	24-Feb-84	34.5	31.0	6.0	21.0	31.0	10.0	2.0	0.020	SS	2.0	SS	30.0	822.8
EN-160	766607.44	965849.03	848.82	847.2	1.65	SP	Garfield and Monroe (NE corner)	06-Apr-84	39.0	39.0	16.0	28.0	36.0	8.0	10.0	0.020	SS	10.0	BS	35.5	811.7
EN-161	766402.28	966798.59	847.17	844.5	2.65	SP	Monroe and Roosevelt (SE corner)	21-Aug-84	31.5	31.0	8.0	16.0	31.0	15.0	2.0	0.020	SS	2.0	SS	29.5	815.0
EN-162	766289.31	967137.15	856.48	853.8	2.68	SP	11 Adams Ave, front of house	22-Aug-84	41.5	41.0	8.0	26.0	41.0	15.0	2.0	0.020	SS	2.0	SS	39.5	814.3
EN-163	766431.57	967402.01	860.31	857.9	2.38	SP	104 Arthur Ave, front of house	23-Aug-84	41.5	41.0	8.0	26.0	41.0	15.0	2.0	0.020	SS	2.0	SS	41.0	816.9
EN-164	767402.03	964107.84	842.10	839.6	2.55	SP	Former lagoon, next to RR tracks	20-Feb-85	17.0	17.5	9.0	12.5	17.5	5.0	4.0	0.020	PVC	4.0	PVC	16.5	823.1
EN-165	767347.59	963932.47	838.31	835.9	2.45	SP	Former lagoon (SW corner)	21-Feb-85	24.0	22.0	9.0	12.0	22.0	10.0	4.0	0.020	PVC	4.0	PVC	NE	NE
EN-166	767694.73	963919.03	837.32	834.8	2.53	SP	Former lagoon (NW corner)	21-Feb-85	22.0	18.0	9.0	13.0	18.0	5.0	4.0	0.020	PVC	4.0	PVC	NE	NE
EN-167	767855.05	964021.75	835.48	836.0	-0.52	MH	Building 95 (inside)	25-Feb-85	22.0	17.0	9.0	7.0	17.0	10.0	4.0	0.020	PVC	4.0	PVC	18.0	818.0
EN-170	766581.93	966800.28	847.08	844.3	2.79	SP	Monroe and Roosevelt (NE corner)	28-Feb-85	32.0	30.5	7.0	20.5	30.5	10.0	2.0	0.020	SS	2.0	SS	29.5	814.8
EN-173	766748.40	967039.88	846.08	846.5	-0.44	MH	Parking lot north of building on Adams	06-Mar-85	37.0	36.5	7.0	26.5	36.5	10.0	2.0	0.020	SS	2.0	SS	34.5	812.0
EN-174	766797.21	967382.41	855.83	853.2	2.64	SP	36 Arthur Ave	07-Mar-85	34.0	31.0	7.0	21.0	31.0	10.0	2.0	0.020	SS	2.0	SS	29.5	823.7
EN-175	766605.56	967059.17	839.38	844.9	-5.54	MH	Adams and Monroe (NW corner), inside manhole	03-Aug-85	33.0	33.0	16.0	24.0	30.0	6.0	10.0	0.045	SS	10.0	BS	30.0	814.9
EN-176	767315.20	963979.89	842.88	840.2	2.69	SP	Building 96 former lagoon (SW corner)	16-Oct-85	25.0	22.5	9.0	14.0	22.5	8.5	4.0	0.020	PVC	4.0	PVC	NE	NE
EN-177	767511.36	964278.03	841.88	839.2	2.68	SP	Building 96 former lagoon (south side)	16-Oct-85	25.0	16.0	7.0	7.0	16.0	9.0	4.0	0.020	PVC	4.0	PVC	14.0	825.2
EN-178	765414.30	968428.81	854.18	851.4	2.78	SP	Riverview Dr, east of well EN-D04, near river	14-Nov-86	42.0	39.0	8.0	34.0	39.0	5.0	2.0	0.010	PVC	2.0	PVC	37.5	813.9
EN-179	765739.52	968759.22	831.57	832.1	-0.48	MH	Riverview Dr, north of supply wells	14-Nov-86	26.0	23.5	8.0	18.5	23.5	5.0	2.0	0.010	PVC	2.0	PVC	21.5	810.6
EN-180	765914.24	969146.49	831.21	831.6	-0.43	MH	Riverview Dr, north of supply wells	14-Nov-86	34.0	34.5	8.0	24.5	34.5	10.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-182	766588.14	966890.51	847.90	844.9	3.05	SP	Monroe St (north side) between Roosevelt and Adams	29-Nov-88	31.0	27.0	10.0	22.0	27.0	5.0	2.0	0.010	SS	10.0	SS	30.4	814.5
EN-183	766591.44	966957.94	846.97	844.6	2.36	SP	Monroe St (north side) between Roosevelt and Adams	30-Nov-88	31.0	27.5	10.0	22.5	27.5	5.0	2.0	0.010	SS	2.0	SS	30.2	814.4
EN-184	768400.40	966925.64	846.44	844.1	2.30	SP	Parking Lot No. 13 entrance, fourth from Hayes Ave	13-Dec-89	19.0	14.0	6.0	9.0	14.0	5.0	2.0	NA	SS	2.0	SS	14.0	830.1
EN-185	766590.26	966950.73	847.68	844.5	3.15	SP	Monroe St (north side) between Roosevelt and Adams	19-Apr-89	33.0	33.0	16.0	22.9	29.9	7.0	10.0	0.070	SS	10.0	LCS	30.2	814.3
EN-186	767790.54	965167.74	851.62	848.9	2.68	SP	Building 87 (north side), new tank farm along RR tracks	19-May-89	24.0	23.5	6.0	13.5	23.5	10.0	2.0	NA	SS	2.0	SS	20.5	828.4
EN-187	767750.57	965438.35	851.66	848.9	2.76	SP	West of Building 039	15-Aug-89	30.0	27.5	8.0	17.2	27.5	10.3	2.0	0.010	SS	2.0	SS	20.0	828.9
EN-188	767638.52	965216.16	848.13	848.3	-0.20	MH	Building 87 (south side), new tank farm along RR tracks	16-Aug-89	30.0	27.5	8.0	17.2	27.5	10.3	2.0	0.010	SS	2.0	SS	20.0	828.3
EN-189	767745.60	965279.76	851.00	848.3	2.70	SP	SE corner of Building 87, new tank farm	16-Aug-89	30.0	27.5	8.0	17.2	27.5	10.3	2.0	0.010	SS	2.0	SS	20.0	828.3
EN-190	766673.41	965993.08	851.76	849.3	2.50	SP	Grant Ave (west side), Parking Lot No. 40	13-Nov-90	36.0	32.5	8.0	22.5	32.5	10.0	2.0	0.010	SS	2.0	SS	33.0	816.3
EN-191	766520.15	965965.58	850.78	848.0	2.74	SP	Monroe St, Parking Lot No. 17, east of Garfield	14-Nov-90	40.0	37.1	8.0	27.1	37.1	10.0	2.0	0.010	SS	2.0	SS	37.5	810.5
EN-192	766545.31	966307.18	850.71	848.0	2.73	SP	Parking Lot No. 41, Monroe St west of McKinley	16-Nov-90	36.0	32.1	8.0	22.1	32.1	10.0	2.0	0.010	SS	2.0	SS	31.5	816.5
EN-193	766577.95	966617.67	848.28	845.5	2.77	SP	Monroe St between McKinley and Roosevelt	19-Nov-90	36.0	32.1	8.0	22.1	32.1	10.0	2.0	0.010	SS	2.0	SS	33.0	812.5
EN-194	766532.83	965964.23	840.50	848.6	-8.08	NA	Parking Lot No. 10, Monroe St east of Garfield	04-Feb-91	40.0	40.0	16.0	29.0	37.0	8.0	10.0	0.040	SS	10.0	SS	37.0	811.6
EN-195	766583.43	966626.28	836.95	845.3	-8.36		Monroe St between McKinley and Roosevelt	15-Feb-91	38.0	36.0	16.0	26.0	33.0	6.0	10.0	0.040	SS	10.0	S	33.0	812.3
EN-196	768889.47	967379.10	851.94	849.5	2.49	SP	Watson Blvd, NW of guard shack	09-Oct-92	14.0	12.5	12.0	7.5	12.5	5.0	4.0	0.010	SS	4.0	S	Absent	Absent
EN-197	768838.52	964501.03	850.44	848.4	2.07	SP	Watson Blvd between Robble and Oak Hill Ave	09-Oct-92	19.0	17.5	12.0	12.5	17.5	5.0	4.0	0.010	SS	4.0	SS	Absent	Absent
EN-200	768873.41	966000.88	850.27	848.0	2.30	SP	Building 53 (east side), inside?	07-Oct-92	25.0	21.3	12.0	11.3	21.3	10.0	4.0	0.010	SS	4.0	SS	20.8	827.2
EN-201	768685.36	967858.12	849.46	846.6	2.83	SP	Building 57 (NE corner)	03-Oct-92	27.0	25.3	12.0	10.3	25.3	15.0	4.0	0.010	SS	4.0	SS	Absent	Absent
EN-202	766785.85	964096.08	848.44	846.1	2.37	SP	North St and Cleveland Ave (SW corner)	07-Oct-92	48.0	47.5	12.0	27.5	47.5	20.0	4.0	0.010	SS	4.0	SS	44.1	802.0

Supplemental Groundwater Assessment
Physical Well Data and Well/Boring Specifications

Well ID	Northing	Easting	M.P. Elevation	G.S. Elevation	Stickup	Surface Completion	Location Description	Install Date	Total Depth	Casing Depth	Boring Diameter	Depth to Screen Top	Depth to Screen Bottom	Screen Length	Screen Diameter	Slot Size	Screen Material	Casing Diameter	Casing Material	Depth to Top of Silt	Top of Silt Elevation
	(grid feet)	(grid feet)	(ft amsl)	(ft amsl)	(feet)				(ft bgs)	(ft bgs)	(in)	(ft bgs)	(ft bgs)	(ft)	(in)	(in)		(in)		(ft bgs)	(ft amsl)
EN-203	766231.67	965611.81	846.10	843.4	2.75	SP	Parking lot next to Ideal Alley west of Garfield	27-Oct-92	37.0	35.5	12.0	20.5	35.5	15.0	4.0	0.010	SS	4.0	SS	32.8	810.6
EN-204	766006.56	966857.67	856.44	854.5	1.97	SP	Roosevelt and Main (NE corner)	23-Oct-92	59.0	57.4	12.0	32.4	57.4	25.0	4.0	0.010	SS	4.0	SS	56.6	797.9
EN-206	765630.81	967350.44	859.47	856.8	2.63	SP	Tracy and Adams (NW corner)	23-Apr-93	50.0	47.9	12.0	37.5	47.5	10.0	4.0	0.010	SS	4.0	SS	47.5	809.3
EN-206A	765651.00	967358.00	NA	856.9	NA	Boring	5' west of EN-206 parallel to sidewalk	23-Sep-03	48.0	NA	6.0	NA	NA	NA	NA	NA	NA	NA	NA	46.5	810.4
EN-206T	765610.00	967313.00	857.86	856.90	0.96	SP	1711 Tracy St	21-Oct-03	49.8	49.5	14.0	45.5	47.5	2.0	6.0	0.035	SS	6.0	SS	48.0	808.9
EN-207	765103.81	967941.85	854.92	852.7	2.18	SP	Riverview Dr near end of Arthur	19-Oct-92	47.5	45.0	12.0	40.0	45.0	5.0	4.0	0.010	SS	4.0	SS	43.5	809.2
EN-208A	765316.00	966842.00	851.64	852.0	-0.32	MH	1605 Tracy St.	01-Jul-03	40.0	NA	8.0	30.0	37.0	7.0	2.0	0.010	PVC	2.0	PVC	37.0	815.0
EN-210	764809.60	967490.81	850.67	848.0	2.69	SP	Riverview Dr near end of Roosevelt	20-Apr-93	43.5	42.5	12.0	37.1	42.1	5.0	4.0	0.010	SS	4.0	SS	41.3	806.7
EN-211	767943.79	964162.26	837.73	835.2	2.53	SP	Building 95 (east side)	31-Mar-93	18.5	17.5	12.0	7.1	17.1	10.0	4.0	0.010	SS	4.0	SS	16.0	819.2
EN-213A	765480.00	967101.00	853.94	854.2	-0.27	MH	Tracy and Roosevelt (NW corner)	27-Jun-03	40.0	NA	8.0	32.0	40.0	8.0	2.0	0.010	PVC	2.0	PVC	37.5	816.7
EN-214A	766180.00	966720.00	846.40	846.6	-0.22	MH	Columbus St between Roosevelt and McKinley	25-Jul-03	38.0	37.0	8.0	22.0	37.0	15.0	2.0	0.010	PVC	2.0	PVC	NE	NE
EN-214B	766180.00	966729.00	846.46	846.4	0.03	MH	Columbus St between Roosevelt and McKinley	24-Jul-03	52.0	48.0	8.0	43.0	48.0	5.0	2.0	0.010	PVC	2.0	PVC	49.0	797.4
EN-214C	766179.00	966715.00	848.84	846.70	2.14	SP	South side of Columbus, 5 feet west of EN-214A	08-Sep-03	52.0	51.0	12.0	43.3	48.0	4.8	6.0	0.050	SS	6.0	SS	49.0	797.7
EN-214T	766178.00	966724.00	849.12	846.50	2.62	SP	South side of Columbus, between EN-214A and EN-214B	14-Oct-03	52.5	51.0	14.0	42.5	47.5	5.0	6.0	0.035	SS	6.0	SS	49.0	797.5
EN-215	766456.46	966085.35	850.59	848.3	2.26	SP	Grant and Monroe (SE corner)	21-Apr-93	52.5	49.6	12.0	29.2	49.2	20.0	4.0	0.010	SS	4.0	SS	48.8	799.5
EN-217A	765842.00	967646.00	857.13	857.6	-0.48	MH	Tracy and Arthur (NW corner)	26-Jun-03	46.0	42.0	8.0	32.0	42.0	10.0	2.0	0.010	PVC	2.0	PVC	42.5	815.1
EN-218	768014.69	964195.00	837.32	834.6	2.70	SP	Building 95 (NE corner), on Clark St	01-Jun-94	22.5	21.5	16.0	12.5	18.5	6.0	8.0	0.030	SS	8.0	BS	18.5	816.1
EN-219	768178.17	966583.98	845.23	842.8	2.48	SP	Building 47 (SE corner)	22-Oct-96	26.5	26.0	12.0	17.0	23.0	6.0	6.0	0.040	SS	6.0	LCS	23.5	819.3
EN-220	768538.23	968532.13	844.95	842.3	2.67	SP	Building 57A (SE corner), near EN-89	06-Mar-96	15.0	14.5	8.0	4.5	14.5	10.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-221	768567.88	968550.94	845.23	842.5	2.69	SP	Building 57A (SE corner), near EN-89	05-Mar-96	16.0	14.1	8.0	4.1	14.1	10.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-222	766606.27	967050.26	848.08	845.6	2.51	SP	Adams and Monroe (NW corner), inside manhole	03-Sep-98	34.0	34.0	14.0	27.0	31.0	4.0	NA	NA	NA	NA	NA	31.0	814.6
EN-253	768096.25	966139.11	844.32	840.8	3.53	SP	South of Building 46, along RR tracks	?	19.0	19.0	14.0	10.7	15.9	5.2	8.0	0.025	SS	8.0	BS	NE	NE
EN-276	767520.66	965805.61	852.29	849.7	2.58	SP	Between Buildings 18 and 14	2000	35.4	35.4	20.0	28.0	32.0	4.0	12.0	0.030	SS	12.0	BS	NE	NE
EN-277	767318.46	965960.95	852.36	849.8	2.56	SP	Grant and North (SW corner)	14-May-02	29.0	24.0	8.0	22.0	24.0	2.0	NA	NA	NA	2.0	NA	24.0	825.8
EN-278	767158.11	965972.72	850.75	848.2	2.60	SP	Grant Ave, south of North St	14-May-02	34.0	NA	8.0	31.0	33.0	2.0	NA	NA	NA	2.0	NA	33.0	815.2
EN-279	767150.05	965974.39	850.30	848.0	2.28	SP	Grant Ave, south of North St	14-May-02	34.0	NA	8.0	24.0	26.0	2.0	NA	NA	NA	2.0	NA	33.0	815.0
EN-281	767016.46	967020.11	850.92	848.4	2.50	SP	Next to EN-80 on Adams Ave	16-May-02	26.0	NA	8.0	22.5	24.5	2.0	NA	NA	NA	2.0	NA	25.0	823.4
EN-282	767016.25	967031.05	850.81	848.3	2.48	SP	Next to EN-80 on Adams Ave	16-May-02	23.0	NA	8.0	20.5	22.5	2.0	NA	NA	NA	2.0	NA	NE	NE
EN-283	767187.51	965871.48	850.73	848.5	2.23	SP	Parking lot between Grant and Garfield	14-May-02	48.0	NA	8.0	25.0	27.0	2.0	NA	NA	NA	2.0	NA	Absent	Absent
EN-284	767197.21	965870.30	850.72	848.4	2.33	SP	Parking lot between Grant and Garfield; 15 ft N of EN-283	16-May-02	60.0	NA	8.0	55.0	57.0	2.0	NA	NA	NA	2.0	NA	Absent	Absent
EN-284A	767205.00	965866.00	NA	NA	NA	Boring	Parking lot between Grant and Garfield	16-Jul-03	58.4	NA	8.0	NA	NA	NA	NA	NA	NA	NA	NA	Absent	Absent
EN-284TD	767181.00	965871.00	853.46	850.41	3.05	SP	8' S of EN-283	03-Oct-03	61.0	58.0	14.0	43.3	57.0	13.8	6.0	0.035	SS	6.0	SS	Absent	Absent
EN-284TS	767170.00	965875.00	851.28	850.41	0.87	SP	14' S of EN-283	08-Oct-03	43.0	42.0	14.0	34.3	39.0	4.8	6.0	0.035	SS	6.0	SS	Absent	Absent
EN-300A	766758.00	963967.00	846.18	846.4	-0.25	MH	804 North St. (south side)	23-Jul-03	30.0	30.0	8.0	23.0	30.0	7.0	2.0	0.010	PVC	2.0	PVC	NE	NE
EN-300B	766763.00	963965.00	846.38	846.6	-0.22	MH	804 North St. (south side)	22-Jul-03	48.0	43.0	8.0	33.0	43.0	10.0	2.0	0.010	PVC	2.0	PVC	43.0	803.6
EN-301	767006.00	964763.00	848.16	848.47	-0.31	MH	near 3 Jefferson Ave.	17-Sep-03	38.0	34.0	8.0	24.0	34.0	10.0	2.0	0.010	PVC	2.0	PVC	34.0	814.5
EN-302	767206.00	966730.00	843.02	843.6	-0.59	MH	Parking lot east of building #40	21-Jul-03	20.0	15.0	8.0	10.0	15.0	5.0	2.0	0.010	PVC	2.0	PVC	15.0	828.6
EN-303A	768131.00	968415.00	842.93	843.3	-0.32	MH	Parking lot at corner of North and Hayes	11-Jul-03	17.0	17.0	8.0	7.0	17.0	10.0	2.0	0.010	PVC	2.0	PVC	NE	NE
EN-303B	768117.00	968415.00	843.68	844.0	-0.29	MH	Parking lot at corner of North and Hayes	10-Jul-03	36.0	33.5	8.0	23.5	33.5	10.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-304	768017.00	968309.00	849.63	849.8	-0.18	MH	North of North St. across from Deleware	14-Jul-03	28.0	24.0	8.0	14.0	24.0	10.0	2.0	0.010	PVC	2.0	PVC	25.0	824.8
EN-305	768092.00	968623.00	847.33	847.8	-0.50	MH	Dittrich and North St	07-Jul-03	24.0	21.0	8.0	11.0	21.0	10.0	2.0	0.010	PVC	2.0	PVC	21.5	826.3
EN-306A	767329.00	968426.00	838.20	838.5	-0.28	MH	Lewis St	03-Jul-03	23.0	23.0	8.0	8.0	23.0	15.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-306B	767329.00	968439.00	838.24	838.6	-0.34	MH	Lewis St	02-Jul-03	50.0	43.0	8.0	33.0	43.0	10.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-307	766479.00	968786.00	844.37	844.9	-0.56	MH	Maryland and Tracy, NW corner	17-Jun-03	38.0	25.0	8.0	17.0	25.0	10.0	2.0	0.010	PVC	2.0	PVC	23.7	821.2
EN-308	766332.00	968485.00	837.99	838.5	-0.49	MH	Deleware and Tracy, NW corner	18-Jun-03	44.0	39.0	8.0	29.0	39.0	10.0	2.0	0.010	PVC	2.0	PVC	39.0	799.5
EN-309A	766101.00	968680.00	832.28	832.6	-0.27	MH	2201 Richmond Road (north side)	19-Jun-03	64.0	38.0	8.0	23.0	38.0	15.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-309B	766114.00	968711.00	832.49	832.7	-0.17	MH	2201 Richmond Road (north side)	25-Jun-03	64.0	64.0	8.0	54.0	64.0	10.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-309C	766096.00	968669.00	832.10	832.4	-0.26	MH	2109 Richmond Road (north side)	24-Jun-03	92.0	90.0	8.0	80.0	90.0	10.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-310	765245.00	966270.00	845.75	846.4	-0.62	MH	309 Grant Ave, south of Main	08-Jul-03	32.0	28.0	8.0	18.0	28.0	10.0	2.0	0.010	PVC	2.0	PVC	28.0	818.4
EN-311	764773.00	966366.00	849.38	849.7	-0.28	MH	Riverview and Tracy, west of McKinley	09-Jul-03	52.0	45.0	8.0	35.0	45.0	10.0	2.0	0.010	PVC	2.0	PVC	45.0	804.7
EN-400A	768082.00	969335.00	855.18	855.82	-0.64	MH	7 feet east of EN-400B, 2507 North St	12-Sep-03	27.0	27.0	8.0	17.0	27.0	10.0	2.0	0.010	PVC	2.0	PVC	NE	NE
EN-400B	768084.00	969327.00	854.94	855.88	-0.94	MH	NE intersection of North/Young, 2507 North St	05-Sep-03	52.0	47.0	8.0	37.0	47.0	10.0	2.0	0.010	PVC	2.0	PVC	47.5	808.4
EN-401	765154.00	967267.00	851.79	852.12	-0.33	MH	East side of Roosevelt	20-Aug-03	42.0	39.0	8.0	24.0	39.0	15.0	2.0	0.010	PVC	2.0	PVC	39.0	813.1
EN-402	765171.00	967694.00	851.24	851.74	-0.50	MH	East side of Adams, north of Riverview	15-Sep-03	44.0	39.5	8.0	32.5	39.5	7.0	2.0	0.010	PVC	2.0	PVC	39.8	812.0
EN-403	765778.00	968122.00	854.97	855.27	-0.30	MH	East side of Jackson	22-Aug-03	44.0	41.0	8.0	26.0	41.0	15.0	2.0	0.010	PVC	2.0	PVC	41.0	814.3
EN-404	766165.00	968190.00	848.43	849.04	-0.61	MH	NW intersection of Massachusetts and Tracy	03-Sep-03	38.0	33.5	8.0	23.5	33.5	10.0	2.0	0.010	PVC	2.0	PVC	33.5	815.5
EN-405	766783.00	968716.00	861.46	861.85	-0.39	MH	East side of Maryland	04-Sep-03	40.0	36.0	8.0	26.0	36.0	10.0	2.0	0.010	PVC	2.0	PVC	36.0	825.9
EN-406	766956.00	968981.00	861.21	861.76	-0.55	MH	West side of Louisiana	26-Aug-03	42.0	37.0	8.0	30.0	37.0	7.0	2.0	0.010	PVC	2.0	PVC	37.8	824.0
EN-407A	767728.00	968960.00	850.72	851.02	-0.30	MH	West side of Nebraska	10-Sep-03	26.0	24.0	8.0	17.0	24.0	7.0	2.0	0.010	PVC	2.0	PVC	NE	NE
EN-407B	767722.00	968958.00	850.72	850.96	-0.24	MH	West side of Nebraska	10-Sep-03	48.0	44.0	8.0	29.0	44.0	15.0	2.0	0.010	PVC	2.0	PVC	44.0	807.0
EN-408	768016.00	968935.00	854.56	855.01	-0.45	MH	South side of Dittrich St.	02-Sep-03	32.0	28.0	8.0	18.0	28.0	10.0	2.0	0.010	PVC	2.0	PVC	27.8	827.3
EN-409	768343.00	968957.00	843.62	844.00	-0.38	MH	North and Nebraska	03-Sep-03	18.0	14.0	8.0	7.0	14.0	7.0	2.0	0.010	PVC	2.0	PVC	14.5	829.5
EN-410	768574.00	968759.00	843.22	843.78	-0.56	MH	South of Bldg 057A	18-Sep-03	22.0	8.0	8.0	4.0	8.0	4.0	2.0	0.020	PVC	2.0	PVC	8.0	835.8
EN-411	768797.00	968777.00	843.11	843.84	-0.73	MH	South side of Wayne	10-Sep-03	14.0	10.0	8.0	3.0	10.0	7.0	2.0	0.010	PVC	2.0	PVC	6.0	837.8
EN-412A	767019.00	968347.00	836.12	836.50	-0.38	MH	11 feet south of EN-412B	16-Sep-03	40.0	40.0	8.0	25.0	40.0	15.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-412B	767028.00	968345.00	835.65	835.92	-0.27	MH	East side of Delaware	09-Sep-03	59.0	59.0	8.0	44.0	59.0	15.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-413	766632.00	968095.00	861.29	861.59	-0.30	MH	NW intersection of Main/Kentucky	23-Sep-03	58.0	52.0	8.0	37.0	52.0	15.0	2.0	0.010	PVC	2.0	PVC	52.5	809.1
EN-414	766386.00	967751.00	859.73	860.28	-0.55	MH	SE int. Main/Jackson	11-Sep-03	48.0	44.5	8.0	34.5	44.5	10.0	2.0	0.010	PVC	2.0	PVC	44.5	815.8
EN-415	766202.00	967421.00	858.92	859.23	-0.31	MH	SW int. Main/Arthur	11-Sep-03	46.0	41.0	8.0	34.0	41.0	7.0	2.0	0.010	PVC	2.0	PVC	41.0	818.2
EN-416A	767778.00	968673.00	842.94	843.11	-0.17	MH	South side of Highland	09-Sep-03	20.0	20.0	8.0	10.0	20.0	10.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-416B	767779.00	968666.00	842.84	842.99	-0.15	MH	South side of Highland	09-Sep-03	44.0	40.0	8.0	25.0	40.0	15.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-417A	767637.00	968310.00	840.60	841.58	-0.98	MH	East side of Delaware	27-Aug-03	62.0	23.0	8.0	8.0	23.0	15.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-417B	767617.00	968312.00	840.90	841.21	-0.31	MH	11 feet south of EN-417C	12-Sep-03	47.0	47.0	8.0	32.0	47.0	15.0	2.0	0.010	PVC	2.0	PVC	Absent	Absent
EN-417C	767627.00	968311.00	840.62	841.39	-0.77	MH	10 feet south of EN-417A	28-Aug-03	68.0	65.0	8.0	50.0	65.0	15.0	2.0	0.010	PVC	2.0	PVC	65.0	776.4
EN-418	766360.00	969244.00	841.95	842.39	-0.44	MH	intersection of Louisiana and Richmond	22-Sep-03	28.0	24.0	8.0	19.0	24.0	5.0	2.0	0.010	PVC	2.0	PVC	24.0	818.4
EN-419	767362.00	965924.00	850.28	850.65	-0.37	MH	30 feet east of 412 North St.	30-Sep-03	28.0	23.8	10.0	18.8	23.8	5.0	4.0	0.020	PVC	4.0	PVC	23.8	826.9
EN-420	767400.00	966024.00	NA	850.70	NA	Boring	NW corner of parking lot	26-Sep-03	28.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24.5	826.2

Supplemental Groundwater Assessment
Physical Well Data and Well/Boring Specifications

Well ID	Northing	Easting	M.P. Elevation	G.S. Elevation	Stickup	Surface Completion	Location Description	Install Date	Total Depth	Casing Depth	Boring Diameter	Depth to Screen Top	Depth to Screen Bottom	Screen Length	Screen Diameter	Slot Size	Screen Material	Casing Diameter	Casing Material	Depth to Top of Silt	Top of Silt Elevation
	(grid feet)	(grid feet)	(ft amsl)	(ft amsl)	(feet)				(ft bgs)	(ft bgs)	(in)	(ft bgs)	(ft bgs)	(ft)	(in)	(in)		(in)		(ft bgs)	(ft amsl)
EN-421	767402.00	966133.00	850.56	850.99	-0.43	MH	North end of parking lot	29-Sep-03	30.0	25.0	10.0	20.0	25.0	5.0	4.0	0.020	PVC	4.0	PVC	25.5	825.5
EN-422	767425.00	966253.00	851.86	852.06	-0.20	MH	SW int. North/McKinley	25-Sep-03	32.0	25.5	10.0	20.5	25.5	5.0	4.0	0.020	PVC	4.0	PVC	26.8	825.3
EN-423	765769.00	965429.00	NA	835.70	NA	Boring	NW corner of Post Office	06-Oct-03	18.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.5	822.2
EN-424	765780.00	964850.00	NA	833.70	NA	Boring	NE intersection of Broad and Jefferson	02-Oct-03	18.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.0	822.7
EN-425	766069.00	964830.00	NA	835.80	NA	Boring	near 111 Jefferson	01-Oct-03	32.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.0	808.8
EN-426	765506.00	967852.00	854.14	854.66	-0.52	MH	near 414 Arthur	08-Oct-03	44.0	40.0	8.0	30.0	40.0	10.0	2.0	0.010	PVC	2.0	PVC	40.0	814.7
EN-427	765958.00	967877.00	857.00	857.18	-0.18	MH	near 1909 Tracy	09-Oct-03	48.0	45.0	8.0	30.0	45.0	15.0	2.0	0.010	PVC	2.0	PVC	45.5	811.7
Lower Aquifer																					
EN-CAF	767267.70	966430.91	843.88	842.3	1.57	SP	Building 42 (SW corner), in basement	01-Jan-63	250.0	106.0	8.0	NA	NA	NA	NA	NA	OH	8.0	S	NA	NA
EN-D01	765385.05	964797.44	841.58	838.8	2.78	SP	Jefferson Ave, between Broad and Park	20-Sep-80	165.0	152.0	12.0	NA	NA	NA	NA	NA	OH	4.0	BS	24.0	814.8
EN-D02	765910.46	966133.96	844.84	842.1	2.78	SP	Building 699 (SW corner), on Grant St	03-Sep-80	136.0	123.0	6.0	119.0	123.0	4.0	6.0	0.020	SS	6.0	BS	21.0	821.1
EN-D03	764640.47	964647.91	843.26	840.6	2.71	SP	Main and Lincoln, NE corner	06-Oct-80	170.0	160.0	6.0	116.3	160.0	43.7	6.0	0.020	SS	6.0	BS	45.0	795.6
EN-D04	765372.02	968361.09	854.87	852.2	2.71	SP	Riverview and Jackson, near river	12-May-87	177.0	177.0	8.0	167.0	177.0	10.0	4.0	0.020	SS	4.0	GS	39.0	813.2
EN-D04S	765372.02	968361.09	854.60	852.2	2.44	SP	Riverview and Jackson, near river	12-May-87	177.0	110.0	8.0	100.0	110.0	10.0	2.0	0.020	SS	2.0	GS	39.0	813.2
EN-D05	765917.56	969457.03	834.51	831.7	2.81	SP	Riverview and Jackson, near river	22-Apr-87	155.0	150.0	8.0	140.0	150.0	10.0	4.0	0.020	SS	4.0	GS	36.0	795.7
EN-D05S	765917.56	969457.03	834.30	831.7	2.60	SP	Riverview and Jackson, near river	22-Apr-87	155.0	83.0	8.0	73.0	83.0	10.0	2.0	0.020	SS	2.0	GS	36.0	795.7
EN-D06	767177.63	966476.62	852.94	850.0	2.93	SP	Cafeteria parking lot on McKinley	11-Jan-91	151.6	107.0	10.0	90.0	107.0	17.0	4.0	0.020	SS	4.0	SS	31.0	819.0
EN-D07	766581.18	966653.85	848.03	845.5	2.55	SP	Parking Lot No. 10, Monroe St. east of McKinley	04-Jan-91	105.0	105.0	6.0	85.0	105.0	20.0	2.0	0.010	SS	2.0	SS	33.0	812.5
EN-D08	767078.20	967776.67	853.87	851.3	2.56	SP	Jackson Ave, Building 251 (HBE School)	30-Mar-92	75.5	41.0	8.0	70.5	75.5	5.0	4.0	0.010	SS	4.0	SS	28.0	823.3
EN-D09	767057.56	967776.24	854.64	851.5	3.13	SP	Jackson Ave, Building 251 (HBE School)	30-Mar-92	152.0	121.5	5.5	122.0	152.0	30.0	4.0	0.010	SS	4.0	SS	33.0	818.5
EN-D10	766742.31	967050.91	849.53	846.4	3.18	SP	Parking Lot No. 22, along Adams Ave	30-Mar-92	132.8	105.0	6.0	102.8	132.9	30.0	4.0	0.010	SS	4.0	SS	35.0	811.4
EN-D11	766879.89	966327.25	852.51	850.2	2.33	SP	Parking Lot No. 20, south of Credit Union	30-Jun-92	179.0	128.3	5.5	149.0	179.0	30.0	4.0	0.010	SS	4.0	SS	28.5	821.7
EN-D12	767321.08	966227.44	854.05	851.7	2.31	SP	Parking Lot No. 25, NW of Credit Union	30-Jun-92	76.5	36.0	16.0	71.5	76.5	5.0	4.0	0.010	SS	4.0	SS	30.0	821.7
EN-D13	768066.64	966455.05	845.31	843.0	2.27	SP	Building 47 on south side of RR tracks	08-Feb-94	128.0	128.0	6.0	98.0	128.0	30.0	4.0	0.010	SS	4.0	SS	21.0	822.0
EN-D14	768068.73	966466.21	846.22	843.3	2.89	SP	Building 47 on south side of RR tracks	08-Feb-94	65.0	63.0	8.0	53.0	63.0	10.0	4.0	0.010	SS	4.0	SS	24.0	819.3
EN-D30	767015.00	967027.00	848.01	848.29	-0.28	MH	West side of Adams, 7 feet SE of EN-281	08-Sep-03	103.0	103.0	6.0	88.0	103.0	15.0	2.0	0.010	PVC	2.0	PVC	22.5	825.8
EN-D31	766178.00	966710.00	846.15	846.45	-0.30	MH	South side of Columbus, 10 feet west of EN-214A	15-Aug-03	118.0	118.0	4.0	103.0	118.0	15.0	2.0	0.010	PVC	2.0	PVC	50.0	796.5
EN-D32	766340.00	968491.00	837.82	838.34	-0.52	MH	NW of intersection Delaware and Tracy	03-Oct-03	138.0	120.0	12.0	105.0	120.0	15.0	2.0	0.010	PVC	2.0	PVC	43.0	795.3
DOT Wells																					
DOT-1	767787.64	967316.72	849.14	846.5	2.62	SP	North St (north side), in front of old Building 5 (east)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE
DOT-2	767738.52	967120.67	848.57	846.0	2.61	SP	North St (north side), in front of old Building 5 (west)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE
DOT-3	767724.76	967045.44	848.73	846.4	2.34	SP	North St (north side), in front of old Building 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE
DOT-4	767712.71	966981.01	848.61	845.9	2.70	SP	North St (north side), in front of old Building 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE
Huron/EIT Supply Wells																					
1	765586.70	968718.41	835.54	834.9	0.62	NA	Riverview Dr SE of main plant	1934	170.0	NA	NA	149.0	170.0	21.0	8.0	0.100	NA	12.0	NA	26.0	808.9
2	765644.56	968810.11	826.10	831.7	-5.60	NA	Riverview Dr SE of main plant	1934	165.0	NA	NA	143.8	164.8	21.0	NA	0.125	NA	12.0	NA	22.0	809.7
3	765672.39	968873.38	826.13	831.5	-5.33	NA	Riverview Dr SE of main plant	1935	159.0	NA	NA	136.5	158.5	22.0	NA	0.063	NA	16.0	NA	25.0	806.5
4	765723.25	968993.47	827.16	831.8	-4.66	NA	Riverview Dr SE of main plant	1937	157.0	NA	NA	135.0	157.0	22.0	NA	0.063	NA	12.0	NA	NA	NA
5	765762.40	969119.83	827.02	832.1	-5.09	NA	Riverview Dr SE of main plant	1940	163.0	NA	NA	141.0	163.0	22.0	NA	NA	NA	10.0	NA	32.0	800.1
High School Wells																					
UE-MW-2	764670.00	965718.00	821.79	822.38	-0.59	MH	Between track and bleachers, east of school	21-Jan-97	25.0	24.0	8.0	4.0	24.0	20.0	2.0	0.020	PVC	2.0	PVC	NE	NE
UE-MW-3	764565.00	965483.00	821.56	822.33	-0.77	MH	Between track and bleachers, south of school	22-Jan-97	25.0	24.0	8.0	4.0	24.0	20.0	2.0	0.020	PVC	2.0	PVC	NE	NE
UE-MW-4	764766.00	965648.00	842.48	842.84	-0.36	MH	East of school in dumpster enclosure	26-Feb-97	44.0	44.0	8.0	24.0	44.0	20.0	2.0	0.020	PVC	2.0	PVC	NE	NE
UE-RW-1E	764707.00	965617.00	841.17	841.66	-0.49	MH	South of school, north of press box, eastern	Feb-97	50.0	50.0	10.0	30.0	50.0	20.0	6.0	0.020	PVC	6.0	PVC	NE	NE
UE-RW-1W	764702.00	965607.00	841.35	841.59	-0.24	MH	South of school, north of press box, western	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Village Wells																					
MW-1	763798.00	964113.00	NA	NA	NA	NA	South of South St, NW of END#28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	763839.00	964319.00	NA	NA	NA	NA	South of South St, west of MW-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EN#28	763628.00	964489.00	NA	NA	NA	NA	South of South St, on river bank (east)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EN#5	763512.00	964305.00	NA	NA	NA	NA	South of South St, on river bank (west)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Key:
Planar coordinates, measuring points and ground surface elevations are based on the May 2003 comprehensive well field survey with subsequent followup surveys through November 2003.
Coordinate base in N.Y.S. Coordinate Grid NAD1927.
M.P./TOC = measuring point / top of casing (groundwater elevation reference point)
G.S. = ground surface
ft bgs = feet below ground surface
ft amsl = feet above mean sea level
SP = Standpipe surface completion
MH = Flush-mount manhole surface completion
PVC = Polyvinyl Chloride
LCS = Low carbon steel
SS = Stainless steel
BS = Bare steel
GS = Galvanized steel
OH = Open hole completion (no casing in bedrock)
NA = Data not available or not applicable
NE = Silt layer not encountered (silt may be present at greater depth)
Absent = Silt layer not present

APPENDIX B-3

Logs for Monitoring Wells, Test Wells, and Soil Borings

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-80A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM-Endicott (Supplemental Groundwater Assessment)***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/15/2003***	DEVELOPMENT DATE:	***NA***
		LOCATION:	***In Parking lot off of Adams Ave.***
NOTES: Soil Boring		ELEVATION	NA
		EASTING	NA
		NORTHING	NA

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	15, 6, 7, 4		5"		ASPHALT		0		Asphalt Patch (0-3")
					SAND AND GRAVEL: Brown to grayish brown, loose, dry to damp, fine-grained SAND and GRAVEL (fill)				Bentonite chips (3"-3')
2	5, 8, 10, 11		16"				2		
4	14, 15, 17, 15		12"				4		
6	10, 14, 21, 19		12"		SAND AND GRAVEL: Brown, loose, damp, fine-medium-grained SAND and GRAVEL; trace silt		6		Bentonite slurry (3'-19')
8	2, 2, 4, 5		6"				8		
10	4, 4, 2, 4		8"		SAND: Brown, loose, damp, fine-grained SAND; little medium-grained sand and gravel; trace silt		10		
12	4, 5, 5, 4		22"		SAND: Grayish brown, loose, damp, fine-grained SAND; trace gravel and silt		12		
14	2, 3, 4, 5		12"				14		
16	4, 5						16		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-80A

PROJECT: ***IBM-Endicott (Supplemental Groundwater Assessment)***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	7, 11		20"		SAND: Brown, loose, damp, fine-grained SAND; little gravel and medium-grained sand; trace silt				
18	7, 4, 6, 5		2"		SAND AND GRAVEL: Brown, loose, wet, medium-grained SAND and GRAVEL; little fine-grained sand; trace silt		18		
20	4, 5, 2, 2		13"		SAND: Brown, loose, saturated, medium-grained SAND; some to little gravel; little coarse-grained sand; trace silt		20		
22	3, 3, 4, 3		15"		SAND: Brown, loose, saturated, medium-grained SAND; some gravel; little coarse-grained sand; trace silt		22		Bentonite chips (19'-28')
24	4, 4, 5, 6		14"		SILT: Greenish-brown, semi-dense, semi-stiff, SILT; little clay		24		
26	6, 5, 5, 5		12"				26		
28							28		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-206A

PROJECT INFORMATION

PROJECT:	***IBM-Endicott Supplemental Groundwater Assessment***
SITE LOCATION:	***Endicott, New York***
JOB NO.:	***02007.33.0301***
LOGGED BY:	***S. Fisher***
DATES DRILLED:	***9/22/03 - 9/23/03***

DRILLING INFORMATION

DRILLING CO.:	***Parratt Wolff Inc.***
DRILLER:	***Jim Lansing***
RIG TYPE:	***CME-55***
DRILLING METHOD:	***Hollow Stem Auger***
DEVELOPMENT DATE:	***NA***
LOCATION:	***Approx. 5 ft W of EN-206 on Tracy Street***

NOTES: Soil boring drilled to collect soil samples
Boring backfilled immediately after drilling completed

ELEVATION	856.9 ft amsl
EASTING	967358.00
NORTHING	765651.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	2, 2, 4, 4		11"	1	TOPSOIL: sod with dk gray organic-rich silt and sand, some gravel, moist		0		Sand backfill (0'-1')
					SAND & GRAVEL: mod. brown (5 YR 4/4) silty, vf-c, some vc, pred m-c, and f-m SR-R gravel, moist				
2	3, 3, 4, 2		8"	2	SAND & GRAVEL: as above, pred m-c, w/ f, some vf, tr silt		2		
4	4, 4, 8, 10		9"	3	SAND & GRAVEL: as above, very gravelly, dry		4		
6	10, 12, 16, 22		10"	4	SAND & GRAVEL: pred m-c, some vf-f, some vc, and fine gravel, trace m gravel		6		8' dia. HSA borehole (0'-46')
8	27, 29, 31, 30		15"	5	SAND & GRAVEL: more vf-f sand, sl. incr. silt with abundant gravel, tr. peat masses 10"-12",		8		
10	30, 34, 26, 18		19"	6	SAND & GRAVEL: pred m-c with vf-f, w/ occ. clay masses, tr. vc, some silt, f-m SR-R gravel, moist		10		
12	19, 25, 32, 37		13"	7	SAND & GRAVEL: sand layer 7"-9", pred f-m, tr vf, incr sand content, pred fine gravel, tr med gravel		12		
14	14, 11, 12, 19		0"	8	SAND & GRAVEL: No recovery - pushed coarse material		14		Bentonite slurry backfill (1'-46')
16	26, 47, 54, Augered		18"	9	SAND & GRAVEL: as above, some silt		16		
18	24, 48, 40, 42		19"	10	SAND & GRAVEL: pred m-c, some vf-f, tr silt, with f-m SR-R gravel		18		
20	44, 47, 41, 41		20"	11	SAND & GRAVEL: dk yell. brown m-c sand and f-m SR-R gravel, some f-vf sand, little silt, tr. clay masses		20		
22	54, 59		10"	12	SAND & GRAVEL: as above		22		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-206A

PROJECT: ***IBM-Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
24	Augered						24		
	31 34 54 31		20"	13	SAND & GRAVEL: pred m, some c-vc, with vf-f, tr silt, large pebble 9"-12", incr. gravel, pred c with m sand, crumbly, moist				8' dia. HSA borehole (0'-46')
26	29 17 14 14		21"	14	SAND & GRAVEL: as above SAND: dk yell. brown, pred m, some vf-f, tr c, tr silt, homogeneous, sand composed of qtz and gray rock, loose, moist		26		
28	19 36 47 23		23"	15	SAND: as above SAND & GRAVEL: dk yell. brown, pred m-f, lit vf, tr. c, with fine SR gravel, some med gravel, thin sand layer 14"-18"		28		
30	46 71		10"	16	SAND & GRAVEL: as above, v. gravelly with med gravel		30		
	Augered								
32	88 50/.2'		10"	17	SAND & GRAVEL: as above with more c-vc sand 2"-5"		32		
	Augered								
34	36 24 9 7		19"	18	SAND & GRAVEL: pred m-c sand, some vf-f, tr silt, lit vc, pred f SR-R gravel, some med, wet at 14"		34		Bentonite slurry backfill (1'-46')
36	8 9 11 10		24"	19	SAND & GRAVEL: as above, pred gravel with m-c, some vc, tr vf-f, loose, wet SAND: dk yell. brown, f-m, some vf, tr c, cohesive		36		
38	16 11 9 7		10"	20	SAND: as above, homogeneous		38		
40	7 8 7 9		12"	21	SAND: dk yell brown, pred fine with vf, some med, tr silt		40		
42	8 9 11 15		17"	22	SAND: as above, lit c, faint layering, cohesive, wet		42		
44	14 16 22 22		24"	23	SAND: pred m-c, some vf-f, tr vc, pred c lower3", wet		44		2" spoon borehole (46'-48')
46	8 10 11 12		24"	24	SAND: pred c-vc, some med, tr. fine SR-R gravel at bottom, wet SILT: dusky yellow silt w/ occ. pale red clay laminations, dense, stiff, plastic, turning lt olive gray below 21"		46		Collapsed formation (46'-48')
48							48		
50							50		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-206T

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM-Endicott SGA***	DRILLING CO.:	***Layne Christensen Co.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***D. King***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***Bucyrus Erie 22-W***
LOGGED BY:	***S. Fisher***	DRILLING METHOD:	***Cable Tool***
DATES DRILLED:	***10/20/03 - 10/21/03***	DEVELOPMENT DATE:	***10/23/03***
		LOCATION:	***1711 Tracy Street, approx. 40 ft W of EN-206***

NOTES: Extraction test well
SWL= 37.67 ft below TOC, 10/23/03
TOC elvation: 857.86 ft amsl

ELEVATION	856.90 ft amsl
EASTING	967313.00
NORTHING	765610.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
2							2		Aluminum locking cap
0					SAND & GRAVEL: (See EN-206A log for soil description details)		0		Bentonite chip surface seal
2							2		
4							4		
6							6		
8							8		Bentonite slurry annular seal (0'-38')
10							10		
12							12		
14							14		14" dia. borehole
16							16		
18							18		
20							20		6" dia. 304 SS riser pipe (+2 - 45.5')
22							22		
24							24		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-206T

PROJECT: ***IBM-Endicott SGA***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
26							26		
28							28		Bentonite slurry annular seal (0'-38')
30							30		
32							32		
34							34		6" dia. 304 SS riser pipe (+2 - 45.5')
36							36		
38							38		
40							40		Bentonite chips (38' - 43.5')
42							42		
44							44		#0 Sand pack (43.5'-44')
									#1 Sand pack (44'-48')
46							46		6" 304SS 35-slot screen (45.5'-47.5')
48					SILT: dusky yellow (5 Y 6/4), laminated		48		2 ft stainless steel sump
									Bentonite chips (48'-49.5')
50							50		#0 Sand pack (49.5'-49.8')
52							52		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-208A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	*IBM/Endicott Supplemental Groundwater Assessment*	DRILLING CO.:	*Parratt Wolff Inc.*
SITE LOCATION:	*Endicott, New York*	DRILLER:	*Glen Lansing*
JOB NO.:	*02007.33.0301*	RIG TYPE:	*CME 75*
LOGGED BY:	*David Reusswig and Jason Taylor*	DRILLING METHOD:	*HSA*
DATES DRILLED:	*07/01/2003*	DEVELOPMENT DATE:	*07/22/2003*
		LOCATION:	*1605 Tracy St.*
NOTES: TOC Elevation: 851.64		ELEVATION	851.96
		EASTING	966842
		NORTHING	765316

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	2, 4, 3, 3		5"		TOPSOIL SAND AND SILT: Brown, loose, dry, fine-grained SAND and SILT; some gravel		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	3, 4, 3, 3		0"		Unknown (no recovery)		2		Grainular Bentonite (1'-3')
4	2, 3, 4, 3		10"		SAND: Brown, loose, dry, fine-grained SAND; some gravel; little silt and medium-grained sand		4		8" diameter auger hole
6	3, 4, 4, 3		18"		SAND: Brown, semi-loose, damp, fine-grained SAND; little silt; trace gravel		6		Bentonite slurry (3'-26.5')
8	4, 3, 2, 2		15"		SAND: Brown, loose, damp, fine-medium-coarse grained SAND SAND: Brown, semi-loose, damp, fine-grained SAND; trace silt		8		
10	5, 5, 6, 7		15"		SAND: Brown, loose, damp, fine-medium-coarse-grained SAND		10		
12	6, 7, 8, 7		8"		GRAVEL: Brown, loose, damp, GRAVEL; some fine-medium-grained sand and silt		12		2" PVC riser (0.2'-30')
14	20, 32, 31, 32		7"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; trace silt		14		
16	50/4"		4"				16		
18	23, 29						18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-208A

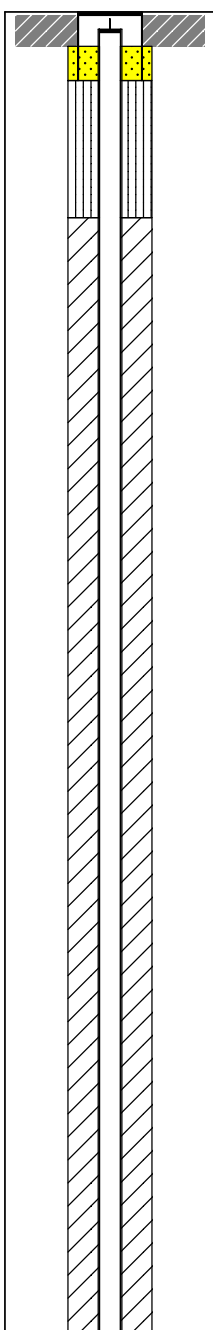
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	33		8"						
20	44						20		
	11								
	21		15"						
	28								
22	34						22		
	8				SAND: Brown, loose, damp, fine-medium-grained SAND				
	7		12"						
	6								
24	13						24		
	12				SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; little silt				
	16		11"						
	19								
26	31						26		
	17								
	21		15"						Bentonite chips (26.5'-28.5')
	25								
28	34						28		
	20								
	23		14"						
	23								
30	25						30		
	42		1"		SAND AND GRAVEL: Brown, loose, wet, fine-medium-grained SAND and GRAVEL; little silt				2" PVC 10-slot screen (30'-37')
	50/2"								
32							32		
	12								
	13		15"						
	15				SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little silt				
34	17						34		
	10								
	8		14"						#0 Sand pack (28.5'-37')
	11								
36	8						36		
	9				SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; little gravel				
	10		24"						
	10				SILT: Brown, semi-loose, semi-soft, saturated, SILT/CLAY; pink laminae				
38	12						38		
	3				SILT: Greenish-brown, dense, stiff, plastic, saturated, SILT; some clay				
	4		8"						
	4								Bentonite chips (37'-40')
40	5						40		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-213A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Glen Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***06/27/2003***	DEVELOPMENT DATE:	***07/17/2003 and 7/21/2003***
		LOCATION:	***Corner of Tracy St. and Roosevelt Ave.***
NOTES: TOC Elevation: 853.94		ELEVATION	854.21
		EASTING	967102
		NORTHING	765470

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	4, 4, 5, 4		7"		TOPSOIL		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
					SAND AND GRAVEL: Brown, loose, damp, medium-grained SAND and GRAVEL; little silt; trace fine-grained and coarse-grained sand				
2	3, 3, 3, 4		5"				2		Granular Bentonite (1'-3')
4	4, 3, 3, 5		0"		Unknown (no recovery)		4		8" diameter auger hole
6	4, 2, 3, 4		8"		SAND AND GRAVEL: Brown, loose, damp, medium-grained SAND and GRAVEL; little silt; trace fine-grained and coarse-grained sand		6		Bentonite slurry (3'-28.5')
8	17, 13, 15, 13		17"		SAND: Brown, semi-loose, damp, fine-grained SAND; little silt and gravel		8		
					SAND AND GRAVEL: Brown, loose, damp, medium-grained SAND and GRAVEL; trace silt				
10	9, 11, 13, 13		6"				10		
12	8, 9, 9, 19		14"		SAND AND GRAVEL: Brown, semi-dense, damp, medium-grained SAND and GRAVEL; trace silt		12		2" PVC riser (0.2'-32')
14	6, 9, 10, 24		11"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL; trace silt		14		
16	21, 31, 38, 43		18"		SAND AND GRAVEL: Brown, dense, damp, fine-medium-grained SAND and GRAVEL; little silt		16		
18	15, 16						18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-213A

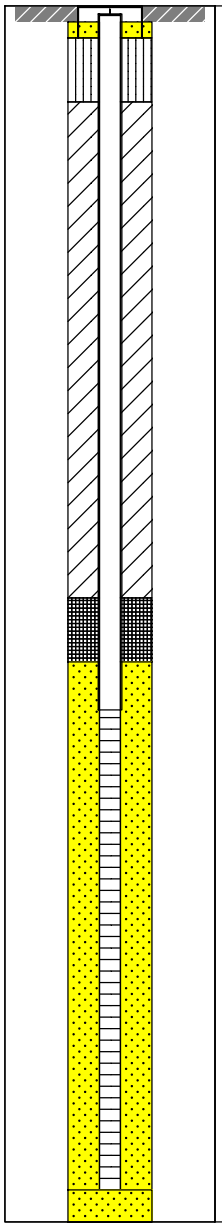
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	12, 10		14"						
20	11, 20, 20, 26		11"		SAND AND SILT: Brown, dense, wet, fine-grained SAND and SILT SAND AND GRAVEL: Brown, semi-dense, damp, medium-grained SAND and GRAVEL; trace silt		20		
22	11, 12, 21, 26		8"		SAND: Brown, loose, damp, fine-medium-grained SAND; some silt		22		
24	10, 12, 21, 33		18"		SAND: Brown, loose, damp, fine-medium-grained SAND; trace silt and gravel SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL; trace silt		24		
26	11, 16, 31, 39		14"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; some to little silt		26		
28	7, 12, 13, 12		12"		SAND: Brown, loose, fine-medium-grained SAND; trace gravel and silt		28		Bentonite chips (28.5'-30.5')
30	12, 21, 22, 29		13"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; little silt		30		
32	12, 11, 14, 21		8"				32		#0 Sand pack (30.5'-40')
34	7, 8, 9, 8		9"				34		
36	6, 7, 8, 12		20"		SAND AND GRAVEL: Brown, semi-loose, saturated, fine-medium-grained SAND and GRAVEL; little silt SILT: Brown, dense, stiff, plastic, SILT/CLAY		36		
38	6, 7, 11, 16		20"		SILT: Gray, dense, stiff, plastic, SILT/CLAY		38		2" PVC 10-slot screen (32'-40')
40							40		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-214A

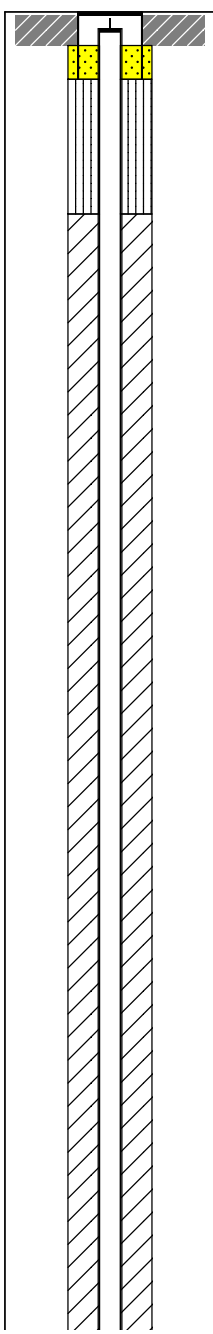
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/25/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***South side of Columbus St. (in Village "Right of Way")***
NOTES: TOC Elevation: 846.40		ELEVATION	846.62
		EASTING	966720
		NORTHING	766177

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 38' Refer to EN-214B log for soil description		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3') Bentonite slurry (3'-18.5') 8" diameter auger hole 2" PVC riser (0.2'-22') Bentonite chips (18.5'-20.5') #0 Sand pack (20.5'-38') 2" PVC 10-slot screen (22'-37')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		
22							22		
24							24		
26							26		
28							28		
30							30		
32							32		
34							34		
36							36		
38							38		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-214B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/24/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***South side of Columbus St. (in Village "Right of Way")***
NOTES: TOC Elevation is 846.43		ELEVATION	846.46
		EASTING	966730
		NORTHING	766176

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	2, 6, 7, 6		20"		TOPSOIL SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; some silt; trace coal, ash and cinder; (fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	5, 4, 4, 5		19"				2		Granular Bentonite (1'-3')
4	2, 2, 2, 2		21"		SAND: Orange-brown, loose, wet, fine-medium-grained SAND; little to some silt; (fill)		4		8" diameter auger hole
6	2, 3, 4, 5		20"		SAND AND GRAVEL: Brown, loose, damp, fine-medium-coarse-grained SAND and GRAVEL; little silt		6		Bentonite slurry (3'-39.5')
8	2, 3, 2, 3		19"		SAND: Brown, loose, damp to wet, fine-medium-coarse-grained SAND; trace gravel		8		
10	2, 2, 2, 3		19"				10		
12	2, 2, 3, 3		21"				12		2" PVC riser (0.2'-43')
14	2, 2, 3, 4		20"				14		
16	4, 5, 6, 8		22"				16		
18	5, 18, 20		22"		SAND: Brown, semi-dense, damp to wet, fine-medium-coarse-grained SAND; trace gravel SAND AND GRAVEL: Brown, loose,		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-214B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	20				damp, medium-coarse-grained SAND and GRAVEL		20		
	10 20 21 19		18"						
22	12 15 12 8		15"				22		
24	3 2 3 3		19"		SAND: Brown, loose, fine-medium-coarse-grained SAND; trace gravel SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND		24		
26	3 4 5 5		24"				26		
28	1 2 3 4		10"				28		
30	3 3 3 3		24"				30		
32	4 4 4 5		22"				32		
34	5 8 8 6		12"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little silt		34		
36	5 5 5 6		8"		SAND: Brown, loose, saturated, fine-grained SAND; little silt		36		
38	6 6 7 8		10"				38		
40	6 5 6 8		13"				40		Bentonite chips (39.5'-41.5')
42	7 7 8		14"		GRAVEL AND SAND: Brown, loose, saturated, GRAVEL and fine-medium-coarse-grained SAND		42		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-214B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
44	9						44		
	7 9 9 9		6"		GRAVEL: Brown, semi-dense, saturated, GRAVEL, some fine-medium-coarse-grained sand; little silt/clay				#0 Sand pack (41.5'-52')
46	7 9 17 18		4"				46		2" PVC 10-slot screen (43'-48')
48	5 6 7 9		20"		SILT: Brown, loose, soft, saturated, SILT/CLAY		48		
50	6 7 9 8		10"				50		
52							52		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-214C

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM-Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***G. Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***S. Fisher***	DRILLING METHOD:	***Hollow Stem Auger***
DATES DRILLED:	***9/8/03***	DEVELOPMENT DATE:	***9/10/03 - 9/17/03***
		LOCATION:	***5 ft W of EN-214A along Columbus St.***

NOTES: Extraction test well
SWL = 27.05 ft below TOC on 9/10/03
TOC elevation: 848.84 ft amsl

ELEVATION	846.70 ft amsl
EASTING	966715.00
NORTHING	766179.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
2							2		Locking well cap
0					See log for EN-214B for soil description details		0		Bentonite chip surface seal
2	Augered to 47.5 ft						2		
4							4		12' dia. HSA borehole (0'-49.5')
6							6		
8							8		
10							10		
12							12		Bentonite slurry annular seal (0'-39.5')
14							14		
16							16		
18							18		
20					SAND & GRAVEL		20		6" dia. stainless steel riser (2.5'-43.25')
22							22		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-214C

PROJECT: ***IBM-Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
24							24		Bentonite slurry annular seal (0'-39.5')
26							26		
28					SAND		28		
30							30		6" dia. stainless steel riser (2.5'-43.25')
32							32		
34							34		
36							36		
38							38		
40							40		Bentonite chips (37.5'-41')
42							42		#00N Sand pack (41'-41.4')
					SAND & GRAVEL				
44							44		#2 Sand pack (41.4'-52')
46							46		6" dia. Type 304 SS 50-slot v-wire screen (43.25'-48')
48	5 5 5 6		9"	1	SAND & GRAVEL: dk yellow brown (10 YR 4/2) predominantly f-c, some vf and vc, tr. silt, w/ fine SR-R gravel, wet		48		6" dia. stainless steel sump (48'-51')
50	3 4 5 6		19"	2	SILT: dusky yellow (5 Y 6/4) little clay, tr. vf sand, laminated, dense		50		#00N Sand pack (49.5'-51.5') 8" dia. rollerbit borehole (49.5'-52')
52	Rollerbit						52		Collapsed formation

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-214T

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM Endicott SGA***	DRILLING CO.:	***Layne Christensen, Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***D. King***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***Bucyrus Erie 22-W***
LOGGED BY:	***K. Tamulonis***	DRILLING METHOD:	***Cable Tool***
DATES DRILLED:	***10/13/03 - 10/14/03***	DEVELOPMENT DATE:	***10/15/03***
		LOCATION:	***5 ft W of EN-214B along Columbus St.***

NOTES: Extraction test well
SWL = 28.32 ft below TOC on 10/16/03
TOC elevation: 849.12 ft amsl

ELEVATION	846.50 ft amsl
EASTING	966724.00
NORTHING	766178.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
2							2		Locking well cap
0					(See log for EN-214B for soil description details)		0		Bentonite chip surface seal
2							2		
4							4		14" dia. borehole (0'-35')
6							6		
8							8		
10							10		
12							12		Bentonite slurry annular seal (0'-39.5')
14							14		
16							16		
18							18		
20							20		6" dia. stainless steel riser (2.5'-43.25')
22							22		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-214T

PROJECT: ***IBM Endicott SGA***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
24							24		Bentonite slurry annular seal (0'-39.5')
26							26		
28							28		6" dia. stainless steel riser (2.5'-43.25')
30							30		
32							32		Bentonite chips (27.5'-33.3')
34							34		#1 Sand pack (33.3'-38.5')
36							36		6" dia. Type 304 SS 35-slot screen (35.5'-37.5')
38							38		
40							40		Bentonite chips (37.5'-41')
42							42		
44							44		#1 Sand pack (41.4'-52')
46							46		6" dia. Type 304 SS 35-slot screen (42.5'-47.5')
48							48		6" dia. stainless steel sump (48'-51')
50					SILT		50		8" dia. rollerbit borehole (49.5'-52')
52							52		
54							54		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-217A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	*IBM/Endicott Supplemental Groundwater Assessment*	DRILLING CO.:	*Parratt Wolff Inc.*
SITE LOCATION:	*Endicott, New York*	DRILLER:	*Glen Lansing*
JOB NO.:	*02007.33.0301*	RIG TYPE:	*CME-75*
LOGGED BY:	*Jason Taylor*	DRILLING METHOD:	*HSA*
DATES DRILLED:	*06/26/2003*	DEVELOPMENT DATE:	*07/15/2003 and 07/16/2003*
		LOCATION:	*Corner of Tracy St. and Arthur Ave.*
NOTES: TOC Elevation: 857.13		ELEVATION	857.61
		EASTING	967646
		NORTHING	765842

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	3, 3, 3, 4		7"		TOPSOIL SAND AND GRAVEL: Brown, loose, moist, medium-grained SAND and GRAVEL; little silt; (fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	3, 4, 4, 4		8"				2		Granular Bentonite (1'-3')
4	2, 3, 3, 3		16"				4		8" diameter auger hole
6	5, 4, 3, 3		8"		SAND: Brown, semi-dense, moist, fine-medium-coarse-grained SAND; trace silt SAND AND GRAVEL: Brown, semi-loose, moist, fine-grained SAND and GRAVEL; little silt; trace medium-grained sand		6		Bentonite slurry (3'-28.5')
8	3, 3, 3, 3		8"				8		
10	3, 3, 4, 2		13"		PEAT: Dark brown, dense, firm, saturated, PEAT; some gravel; trace silt/clay		10		
12	6, 2, 3, 2		8"		SAND AND GRAVEL: Brown, semi-loose, moist, fine-grained SAND and GRAVEL; little silt SAND AND GRAVEL: Brown, loose, moist, fine-medium-coarse-grained SAND and GRAVEL		12		2" PVC riser (0.2'-32')
14	4, 4, 3, 4		13"		SAND: Dark brown, semi-dense, wet, fine-grained SAND		14		
16	4, 5, 5, 6		9"		SAND AND GRAVEL: Brown, semi-dense, moist, fine-medium-grained SAND and GRAVEL; little silt		16		
18	8, 11, 21, 3		12"				18		
20	11						20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-217A

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22	21, 31, 42		2"				22		
24	10, 12, 12, 13		13"				24		
26	15, 21, 24, 32		10"				26		
28	12, 21, 31, 44		11"				28		
30	18, 22, 28, 41		9"				30		Bentonite chips (28.5'-30.5')
32	19, 24, 34, 45		5"				32		
34	12, 24, 26, 34		11"				34		#0 Sand pack (30.5'-42')
36	18, 21, 24, 29		12"				36		
38	21, 25, 25, 27		18"		SAND AND GRAVEL: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		38		2" PVC 10-slot screen (32'-42')
40	9, 15, 11, 10		14"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; little gravel		40		
42	12, 44, 15, 17		15"				42		
44	6, 9, 9, 10		19"		SILT: Brown, dense, stiff, non-plastic, saturated, SILT SILT: Gray, dense, stiff, plastic, saturated, SILT/CLAY		44		Collapse to 42'
46	3, 3, 3, 5		11"				46		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-284A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM-Endicott (Supplemental Groundwater Assessment)***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***7/16/03***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***Parking lot between Garfield and Grant street***

NOTES: TOC Elevation: NA
Soil boring only

ELEVATION	NA
EASTING	965866
NORTHING	767205

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	17, 15, 15, 25		3"		ASPHALT SAND AND SILT: Brown, loose, moist, SILT and fine-grained SAND; little gravel; layers of wood, ash, cinder, slag (fill)		0		Asphalt (0'-0.5')
2	14, 7, 5, 3		6"				2		
4	3, 4, 4, 3		5"				4		
6	3, 5, 11, 3		10"				6		
8	2, 4, 2, 3		7"				8		
10	2, 1, 1, 1		12"				10		Bentonite Slurry (0.5'-20')
12	2, 2, 2, 2		5"				12		
14	3, 3, 3, 4		10"		SAND AND GRAVEL: Brown, semi-loose, wet, fine-grained SAND and GRAVEL; some silt		14		
16	3, 7, 11, 9		11"		SAND AND GRAVEL: Brown, loose, wet, fine-medium-coarse-grained SAND and GRAVEL; trace silt		16		
18	13, 12				SAND AND GRAVEL: Brown, loose, damp, medium-coarse-grained SAND and GRAVEL; trace silt		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-284A

PROJECT: ***IBM-Endicott (Supplemental Groundwater Assessment)***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	12 11		14"				20		
22	13 15 14 10		10"				22		
24	8 11 11 10		12"				24		
26	7 7 8 7		16"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little silt		26		Bentonite Chips (20'-58')
28	7 7 6 5		14"				28		
30	8 3 3 6		8"				30		
32	5 6 7 9		20"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL		32		
34	8 7 6 7		13"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; trace gravel SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		34		
36	6 5 6 7		11"		SAND: Brown, loose, saturated, fine-medium-grained SAND; trace gravel and silt SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		36		
38	4 7 8 8		9"				38		
40	3 3 4 4		10"		SAND: Brown, loose, saturated, fine-grained SAND; trace silt		40		
42	3 6 5 7		3"				42		
	5				GRAVEL AND SAND: Brown, loose, saturated, GRAVEL and				

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-284A

PROJECT: ***IBM-Endicott (Supplemental Groundwater Assessment)***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
44	9 7 8		10"				44		
46	4 6 7 5		11"				46		
48	8 7 6 7		7"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; litte silt		48		
50	2 2 4 6		11"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; some gravel; trace silt SAND: Brown, loose, saturated, fine-medium-grained SAND; trace silt		50		
52	10 11 10 8		20"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; little gravel and silt		52		
54	8 7 10 7		24"				54		
56	6 5 4 5		16"				56		
58	8 7 7 6		16"		GRAVEL AND SAND: Brown, loose, saturated, gravel and fine-medium-coarse-grained SAND; trace silt		58		
	50/4"				SILT: Brown, dense, firm, non-plastic, moist, SILT/CLAY; some gravel Unknown (Bedrock/Till)				

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-284TD

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM-Endicott SGA***	DRILLING CO.:	***Layne Christensen Co.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***D. King***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***Bucyrus Erie 22-W***
LOGGED BY:	***S. Fisher***	DRILLING METHOD:	***Cable Tool***
DATES DRILLED:	***9/30/03 - 10/3/03***	DEVELOPMENT DATE:	***10/23/03 - 10/24/03***
		LOCATION:	***Approx. 5 ft S. of EN-283 in EIT parking lot***

NOTES: Deep extraction test well
SWL= 29.34 ft below TOC, 10/9/03
TOC elevation: 853.46 ft amsl

ELEVATION	850.41 ft amsl
EASTING	965871.00
NORTHING	767181.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
2							2		Aluminum locking cap
0					FILL: sand and gravel with wood, brick, and cinder block frags., occ. metal frags. and concrete		0		Bentonite chip surface seal
2							2		
4							4		
6							6		14" dia. borehole (0'-61')
8							8		
10							10		
12					SAND: dark yellowish brown (10 YR 4/2), f-m, some c-vc and vf, little silt, trace SR-R gravel and silty at top		12		Bentonite slurry annular seal (1'-38')
14							14		
16							16		
18					SAND & GRAVEL: dk yellowish brown, f-c, some vf, tr silt, w/ f-m SR-R gravel of various lithologies: siltstone, quartzite, red sandstone, occ green and red shale, some gneiss and limestone, tr cobbles		18		6" dia. stainless steel riser (+3'-43.25')
20							20		
22							22		
24							24		
26							26		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-284TD

PROJECT: ***IBM-Endicott SGA***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
28							28		6" dia. stainless steel riser (+3'-43.25')
30							30		
32							32		
34							34		
36							36		Bentonite slurry annular seal (1'-38')
38					SAND: dk yellowish brown, f-c		38		
40					SAND & GRAVEL: trace of cobbles		40		Bentonite chips (38'-41.5')
42					SAND: pred sand, dk yell. brown, f-c, some vf, tr silt, tr f-m SR-R gravel		42		
44							44		#1 Sand pack (41.5'-49')
46							46		6" 304SS 35-slot screen (43.25'-49.25')
48							48		
50					SAND: dk yell brown, m-c with fine, some vf, tr silt, little gravel, occ thin gravelly zones		50		#0 sand pack (49'-51.4')
52							52		6" 304SS 25-slot screen (49.25'-51.6')
54							54		#1 Sand pack (51.4'-57.7')
56							56		6" 304SS 35-slot screen (51.6'-57')
58					SILT, SAND & GRAVEL: dusky yellow (5 Y 6/4) some sand, pred c-vc, tr m-vf, w f-m A-SA gravel, some SR-R gravel, typically gray siltstone, occ. cobble, dense, plastic, more olive gray color below 60 ft		58		6" dia. stainless steel sump (57'-58')
60							60		Bentonite chips (57.7'-61')
62							62		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-284TS

PROJECT INFORMATION

PROJECT:	***IBM Endicot SGA***
SITE LOCATION:	***Endicott, New York***
JOB NO.:	***02007.33.0301***
LOGGED BY:	***S. Fisher***
DATES DRILLED:	***10/7/03 - 10/8/03***

DRILLING INFORMATION

DRILLING CO.:	***Layne Christensen Co.***
DRILLER:	***Dean King***
RIG TYPE:	***Bucyrus Erie 22-W***
DRILLING METHOD:	***Cable Tool***
DEVELOPMENT DATE:	***10/24/03***
LOCATION:	***Approx. 5 ft S. of EN-284TD in EIT parking lot***

NOTES: Shallow extraction test well
SWL= 27.31 ft below TOC, 10/24/03
TOC elevation: 851.28 ft amsl

ELEVATION	850.41 ft amsl
EASTING	965875.00
NORTHING	767170.00

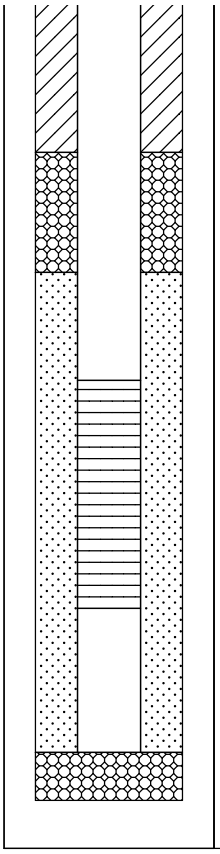
DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
2							2		Aluminum locking cap
0					FILL: (See log for EN-284TD for soil description details)		0		Bentonite chip surface seal
2							2		
4							4		
6							6		
8							8		Bentonite slurry annular seal (1'-29.5')
10							10		
12					SAND		12		14" dia. borehole
14							14		
16							16		
18					SAND & GRAVEL		18		
20							20		6" dia. stainless steel riser (1' - 34.25')
22							22		
24							24		
26							26		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-284TS

PROJECT: ***IBM Endicot SGA***

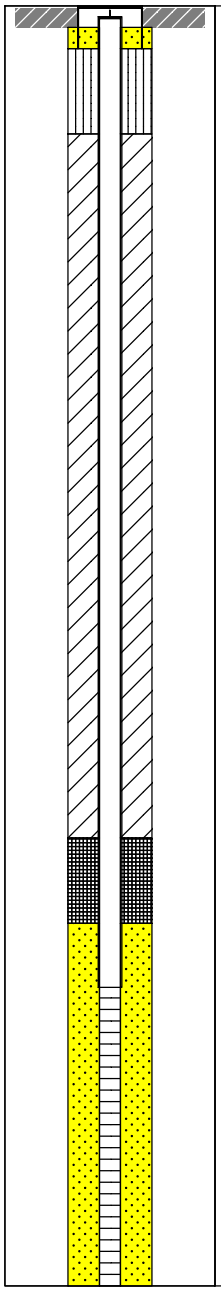
DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
28							28		
30							30		Bentonite chips (29.5' - 32')
32							32		
34							34		#1 Sand pack (32'-42')
36							36		6" dia. 304SS 35-slot screen (34.25'-39')
38					SAND: some gravel		38		
40							40		3 ft stainless steel sump
42							42		Bentonite chips (42'-43')
44							44		



GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-300A

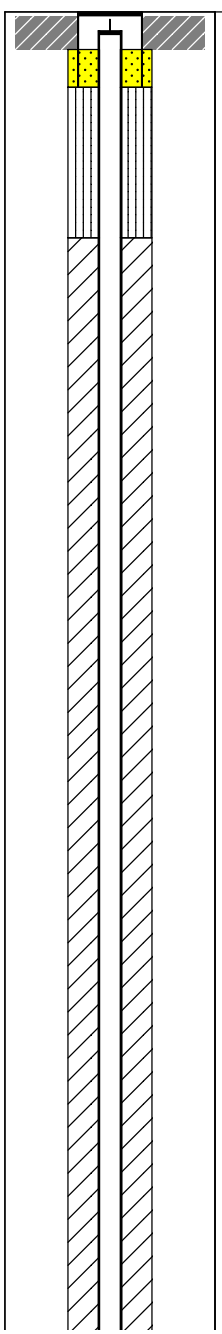
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/23/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***804 North St.***
NOTES: TOC Elevation: 846.18		ELEVATION	846.43
		EASTING	963967
		NORTHING	766758

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 30' Refer to EN-300B log for soil discription		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3') 8" diameter auger hole Bentonite slurry (3'-19.5') 2" PVC riser (0.2'-23') Bentonite chips (19.5'-21.5') #0 Sand pack (21.5'-30') 2" PVC 10-slot screen (23'-30')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		
22							22		
24							24		
26							26		
28							28		
30							30		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-300B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/22/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***804 North St.***
NOTES: TOC Elevation: 846.38		ELEVATION	846.60
		EASTING	963965
		NORTHING	766763

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	1, 1, 2, 2		8"		TOPSOIL SAND: Dark-brown, semi-loose, damp, fine-grained SAND; little silt; trace gravel		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	2, 2, 2, 4		14"		SAND: Brown, loose, damp, medium-grained SAND; little fine-grained sand and gravel; trace silt		2		Granular Bentonite (1'-3')
4	2, 2, 2, 2		6"		SAND: Brown, loose, damp, medium-grained SAND; little fine-grained sand, gravel and silt		4		8" diameter auger hole
6	3, 3, 1, 2		18"		SAND: Brown, loose, damp, fine-grained SAND; little medium-grained sand; trace silt and gravel		6		Bentonite slurry (3'-29.5')
8	1, 2, 1, 3		5"				8		
10	1, 3, 7, 8		20"		SAND AND GRAVEL: Dark brown to greenish brown, loose, damp, fine-grained SAND and GRAVEL; little coarse-grained sand, trace silt		10		
12	4, 6, 4, 4		10"		SAND: Dark brown, loose, damp, medium-grained SAND; little gravel; trace silt		12		2" PVC riser (0.2'-33')
14	4, 5, 4, 4		12"		SAND: Grayish-brown, loose, damp, medium-grained SAND; some gravel; little fine-grained sand		14		
16	4, 4, 5		16"		SAND: Grayish-brown, loose, damp, medium-grained SAND; little gravel and fine-grained sand; trace silt		16		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-300B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
18	8						18		
	6, 10, 15, 13		18"		SAND AND GRAVEL: Grayish-brown, loose, damp, fine-medium-grained SAND and GRAVEL; trace silt				
20	9, 12, 11, 8		14"				20		
22	6, 9, 13, 14		13"				22		
24	5, 9, 8, 10		12"		SAND: Brown, loose, damp to wet, fine-grained SAND; some gravel; trace silt		24		
26	13, 18, 16, 13		23"		SAND AND GRAVEL: Brown, loose, saturated, medium-grained SAND and GRAVEL; little coarse-grained sand; trace silt		26		
28	10, 9, 8, 8		20"		SAND AND GRAVEL: Brown, loose, saturated, medium-coarse-grained SAND and GRAVEL; trace silt		28		
30	7, 7, 8, 10		18"				30		Bentonite chips (29.5'-31.5')
32	7, 4, 9, 11		20"		SAND AND GRAVEL: Brown, loose, saturated, medium-grained SAND and GRAVEL; little coarse grained sand; trace to little silt SAND: Brown, semi-loose, saturated, fine-grained sand; little to some silt; trace gravel		32		
34	5, 5, 5, 5		12"		SAND AND GRAVEL: Brown, loose, saturated, medium-coarse-grained SAND and GRAVEL; little fine-grained sand; trace silt		34		#0 Sand pack (31.5'-43')
36	6, 9, 10, 8		21"		SAND: Brown, loose, saturated, fine-grained SAND; little medium-coarse-grained sand; little gravel; trace silt		36		
38	10, 10						38		2" PVC 10-slot screen (33'-43')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-300B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	7 10								
40	3 19 13 21		12"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		40		
42	13 21 10 9		15"		SILT: Brown to greenish brown, semi-dense, semi-stiff, saturated, SILT; little clay		42		
44	6 7 8 8		12"		SILT: Greenish brown, semi-dense, semi-stiff, saturated, SILTwith pink laminae; some clay		44		Collapse to 43.5
46	6 8 9 12		24"				46		
48							48		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-301

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Ed Stoner***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/17/2003***	DEVELOPMENT DATE:	***09/26/2003***
		LOCATION:	***Jefferson Ave. near North St.***
NOTES: TOC Elevation 848.16		ELEVATION	848.47
		EASTING	964763
		NORTHING	767006

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	3, 11, 10, 5	0	16"		SAND AND SILT: Brown, semi-dense, damp, very fine-grained SAND and SILT; trace gravel and organics		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
					GRAVEL: Brown, loose, damp, GRAVEL; some sand; trace silt and asphalt				
2	3, 3, 2, 2	0	8"				2		Granular Bentonite (1'-3')
4	1, 3, 2, 3	0	7"		GRAVEL: Brown, loose, wet, GRAVEL; some sand; trace silt		4		8" diameter auger hole
6	2, 3, 6, 9	0	16"		SAND: Brown, semi-dense, damp, medium-grained SAND; some gravel; trace silt		6		Bentonite slurry (3'-20')
8	7, 14, 14, 12	0	12"				8		
10	6, 10, 12, 14	0	11"				10		2" PVC riser (0.2'-24')
12	10, 12, 11, 13	0	12"		SAND: Brown, semi-dense, damp, medium-grained SAND; trace gravel and coarse-grained sand		12		
					SAND: Brown, dense, damp, fine-medium-grained SAND				
14	3, 4, 6, 7	0	14"		SAND: Brown, semi-dense, damp, medium-grained SAND; some gravel; trace coarse-grained sand and silt		14		
					SAND: Brown, semi-dense, damp, medium-grained SAND; trace gravel and coarse-grained sand				
16	7, 11, 21, 21	0	12"		SAND: Brown, dense, damp, fine-medium-grained SAND; trace coarse grained sand		16		
18	8				SAND: Brown, semi-dense, damp, medium-grained SAND; some gravel; trace silt		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-301

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	11, 13, 9	0	12"		SAND: Brown, semi-dense, damp, medium-grained SAND; trace gravel and coarse-grained sand				
20	4, 7, 10, 6	0	12"		SAND: Brown, semi-dense, damp, medium-grained SAND; trace gravel and coarse-grained sand SAND: Brown, semi-dense, damp, medium-grained SAND; some gravel; trace silt		20		Bentonite chips (20'-22')
22	5, 7, 8, 8	0	13"		SAND: Brown, semi-dense, damp, fine-medium-grained SAND; trace gravel SAND AND SILT: Brown, dense, damp, fine-grained SAND grading to SILT		22		
24	11, 11, 10, 15	0	12"		GRAVEL: Brown, loose, damp, GRAVEL, some medium-grained sand, trace silt 1" medium-grained sand layers with coarse-grained sand at 25.5'-26' [saturated at approx. 26']		24		#0 Sand pack (22'-34')
26	8, 18, 12, 11	0	10"				26		
28	6, 9, 21, 27	0	16"				28		2" PVC 10-slot screen (24'-34')
30	12, 27, 17, 23	0	15"		SAND: Brown, loose, saturated, medium-grained SAND; some gravel; little fine-grained sand; trace coarse-grained sand and silt		30		
32	10, 13, 15, 17	0	4"		SAND: Brown, loose, saturated, medium-grained SAND; little gravel; trace coarse-grained sand and silt		32		
34	6, 7, 11, 13	0	13"		SILT: Light olive to medium light gray, SILT with occasional pink layers of clay SILT: Light gray, dense, saturated, SILT with occasoinal pink layers of clay		34		Collapse to 34'
36	10, 9, 12, 11	0	2"				36		
38							38		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-302

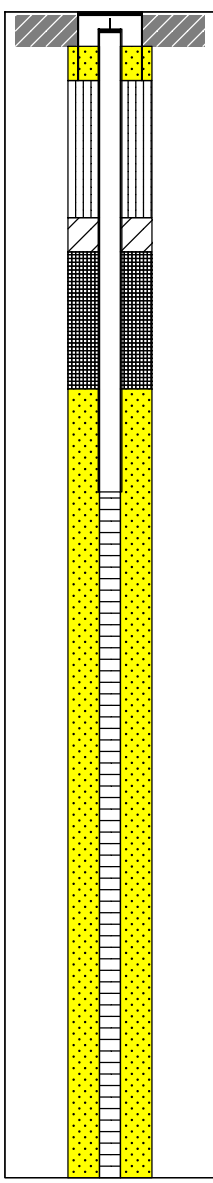
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/21/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***Parking lot between Roosevelt and Adams 75' E of Bldg #40***
NOTES: TOC Elevation: 843.02		ELEVATION	843.61
		EASTING	966730
		NORTHING	767206

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	20, 10, 7, 5		14"		ASPHALT		0		4" Cement pad
					SAND: Brown, semi-loose, damp, fine-grained SAND; some gravel (fill)				2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	4, 5, 4, 4		15"				2		Granular Bentonite (1'-3')
4	3, 2, 2, 1		16"		SAND: Brown, loose, damp, medium-grained SAND; little silt; trace gravel		4		Bentonite slurry (3'-6) 8" diameter auger hole
6	2, 3, 2, 2		24"		SAND AND GRAVEL: Brown, loose, damp, medium-grained SAND and GRAVEL; trace silt		6		Bentonite chips (6'-8')
8	3, 3, 3, 3		16"		SAND: Brown, loose, damp, medium-grained SAND; some gravel; trace silt		8		2" PVC riser (0.2'-10')
10	3, 2, 2, 2		7"				10		#0 Sand pack (8'-15')
12	2, 3, 2, 2		9"		SAND: Brown, loose, wet, medium-grained SAND; some gravel; trace silt		12		2" PVC 10-slot screen (10'-15')
14	2, 2, 2, 3		14"		SAND AND GRAVEL: Brown, loose, saturated, medium-grained SAND and GRAVEL SILT: Greenish-brown, dense, stiff, saturated, SILT and CLAY		14		
16	4, 6, 6, 7		20"		SILT: Greenish-brown, dense, stiff, saturated, SILT with pink laminae; some clay		16		Bentonite chips (15'-20')
18	1, 2, 4, 4		20"				18		
20							20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-303A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/11/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***Parking lot at NE corner of North St. and Hayes Ave.***
NOTES: TOC Elevation: 842.93		ELEVATION	843.25
		EASTING	968415
		NORTHING	768131

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 17' Refer to EN-303B log for soil description		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2							2		Granular bentonite (1'-3')
									Bentonite slurry (3'-3.5')
4							4		Bentonite chips (3.5'-5.5')
									5" diameter auger hole
6							6		2" PVC riser (0.2'-7')
									#0 Sand pack (5.5'-17')
8							8		
10							10		2" PVC 10-slot screen (7'-17')
12							12		
14							14		
16							16		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-303B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	*IBM/Endicott Supplemental Groundwater Assessment*	DRILLING CO.:	*Parratt Wolff Inc.*
SITE LOCATION:	*Endicott, New York*	DRILLER:	*Mickey Marshall*
JOB NO.:	*02007.33.0301*	RIG TYPE:	*CME-55*
LOGGED BY:	*Jason Taylor*	DRILLING METHOD:	*HSA*
DATES DRILLED:	*07/10/2003*	DEVELOPMENT DATE:	*July 2003*
		LOCATION:	*Parking lot at NE corner of North St. and Hayes Ave.*
NOTES: TOC Elevation: 843.68		ELEVATION	843.97
		EASTING	968415
		NORTHING	768117

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	17, 7, 5, 6		10"		ASPHALT SAND AND SILT: Brown-orange, loose, soft, moist, SILT and fine-grained SAND; little gravel (fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	4, 6, 6, 5		0"				2		Granular Bentonite (1'-3')
4	4, 3, 3, 3		10"				4		8" diameter auger hole
6	4, 7, 6, 4		6"		SAND AND GRAVEL: Brown, loose, moist, fine-medium-grained SAND and GRAVEL; little silt		6		Bentonite slurry (3'-19.5')
8	4, 2, 2, 3		8"		SAND AND GRAVEL: Brown, loose, moist, fine-medium-coarse-grained SAND and GRAVEL; little silt		8		
10	2, 2, 2, 1		6"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		10		
12	2, 2, 1, 1		0"				12		2" PVC riser (0.2'-23.5')
14	1, 1, 1, 1		24"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; trace gravel and silt		14		
16	1, 2, 2, 3		24"				16		
18	2, 2				SAND: Brown, loose, saturated, fine-grained SAND; some silt		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-303B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	2, 2		24"		SILT: Brown, loose, soft, saturated, SILT/CLAY				
20	2, 3, 3, 2		12"		SAND: Brown, loose, saturated, fine-grained SAND; trace silt		20		Bentonite chips (19.5'-21.5')
22	2, 3, 2, 4		18"				22		
24	2, 2, 3, 4		24"				24		#0 Sand pack (21.5'-34')
26	4, 4, 3, 4		24"				26		2" PVC 10-slot screen (23.5'-33.5')
28	4, 3, 3, 2		24"				28		
30	2, 2, 3, 4		24"				30		
32	6, 21, 17, 30		24"				32		
34	17, 41, 29, 19		18"		SILT AND GRAVEL: Gray, semi-dense, semi-firm, damp, SILT/CLAY with angular shale Gravel (till or weathered bedrock?)		34		Collapse to 34
36							36		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-304

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/14/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***Just north of North St. and acrossed from Delaware Ave.***
NOTES: TOC Elevation: 849.63		ELEVATION	849.81
		EASTING	968309
		NORTHING	768017

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	9, 12, 10, 11		12"		TOPSOIL SAND AND GRAVEL: Brown, loose, dry to damp, fine-grained SAND and GRAVEL (Fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	5, 5, 5, 4		14"				2		Granular bentonite (1'-3')
4	11, 7, 8, 9		12"		SAND AND GRAVEL: Brown, loose, damp, fine-grained SAND and GRAVEL		4		8" diameter auger hole
6	7, 7, 4, 6		10"		SAND AND GRAVEL: Brown, loose, damp, fine-grained SAND and GRAVEL; trace to little silt		6		Bentonite slurry (3'-10.5')
8	3, 3, 5, 5		15"		SAND: Brown, loose, damp, medium-grained SAND; little gravel; trace silt		8		
10	4, 4, 4, 4		18"				10		Bentonite chips (10.5'-12.5')
12	6, 6, 9, 5		12"		SAND AND SILT: Brown, loose, damp to wet, fine-grained SAND and SILT; little gravel SAND: Brown, loose, damp, medium-grained SAND; little gravel; trace silt		12		
14	2, 2, 2, 2		18"		SAND: Dark-brown, loose, wet, fine-grained SAND; little gravel and silt		14		
16	2, 3, 2, 1		10"		SAND: Dark-brown, loose, saturated, fine-grained SAND; little gravel and silt; trace medium-coarse-grained sand		16		#00N Sand pack (12.5'-24')
18	2, 1						18		2" PVC riser (0.2'-14')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-304

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

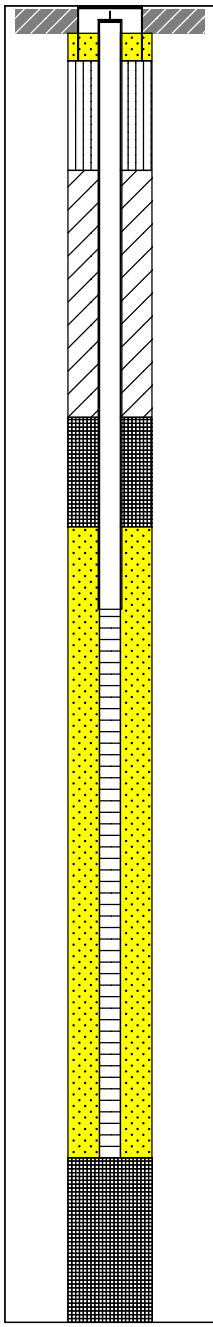
DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	1 2		20"						2" PVC 10-slot screen (14'-24')
20	1 1 3 2		22"		SAND: Dark-brown, loose, saturated, fine-grained SAND; little gravel; trace silt and medium-grained sand		20		
22	3 3 2 3		18"		SAND: Dark-brown, loose, saturated, fine-medium-grained SAND; little gravel and silt SAND: Dark-brown, loose, saturated, fine-medium-grained SAND; little gravel; trace silt		22		
24	3 2 3 3		20"		SAND AND SILT: Brown, semi-dense, saturated, fine-grained SAND and SILT; trace medium-grained gravel SILT: Brown, semi-dense, semi-stiff, saturated, SILT; little clay		24		
26	3 3 3 3		24"		SILT: Brown, semi-dense, semi-stiff, saturated, SILT; some clay		26		
28							28		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-305

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/07/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***Corner of North St. and Dettrich St.***
NOTES: TOC Elevation: 847.33		ELEVATION	847.83
		EASTING	968623
		NORTHING	768092

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET
0	7, 5, 3, 3		6"		ASPHALT		0
					SAND: Brown, loose, damp, fine-grained SAND; some gravel; trace silt (fill)		
2	5, 5, 3, 3		4"				2
4	3, 3, 5, 3		4"		SAND AND GRAVEL: Brown, loose, damp, fine-grained SAND and GRAVEL; trace silt		4
6	3, 8, 12, 14		12"		SAND AND GRAVEL: Brown, loose, damp, fine-grained SAND and GRAVEL; trace silt		6
8	7, 17, 12, 21		10"				8
10	10, 12, 21, 27		18"		SAND AND GRAVEL: Brown, loose, damp, medium-grained SAND and GRAVEL; trace silt		10
12	20, 23, 21, 16		10"				12
14	1, 1, 1, 1		10"		SAND AND GRAVEL: Brown, loose, wet to damp, medium-grained SAND and GRAVEL; trace silt		14
16	2, 1, 2, 1		16"		SAND: Brown, semi-loose, saturated, fine-grained SAND; little silt; trace gravel		16
18	2, 2, 1, 2						18
20	WOH, 1, 2, 2		22"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-grained SAND and GRAVEL; little silt		20
22	3, 5, 5, 6		22"		SILT: Greenish-brown, dense, stiff, plastic, saturated, SILT; little clay		22
24							24



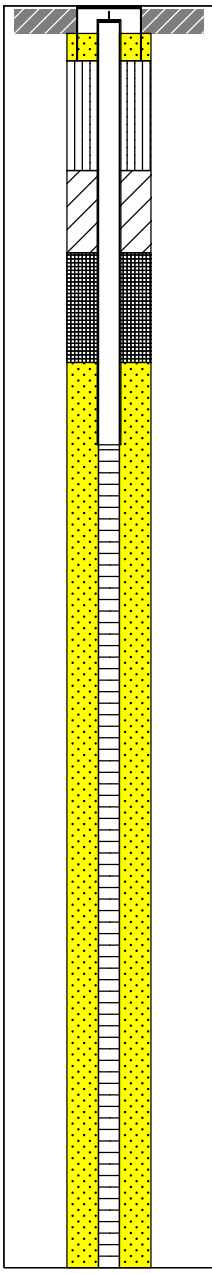
WELL CONSTRUCTION DETAILS

- 4" Cement pad
- 2" Well cap
- Flushmount manhole
- #0 Sand (0.3'-1')
- Granular Bentonite (1'-3')
- Bentonite slurry (3'-7.5')
- 2" PVC riser (0.2'-11')
- 8" diameter auger hole
- Bentonite chips (7.5'-9.5')
- #0 Sand pack (9.5'-21')
- 2" PVC 10-slot screen (11'-21')
- Bentonite chips (21'-24')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-306A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/03/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***In road, on Lewis St., near on corner with Delaware Ave.***
NOTES: TOC Elevation: 838.20		ELEVATION	838.48
		EASTING	968426
		NORTHING	767329

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 23' Refer to EN-306B log for soil description		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3') Bentonite slurry (3'-4.5') Bentonite chips (4.5'-6.5') 2" PVC riser (0.2'-8') 8" diameter auger hole #0 Sand pack (6.5'-23') 2" PVC 10-slot screen (8'-23')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		
22							22		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-306B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Glen Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/02/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***In road, on Lewis St., near corner with Delaware St.***
NOTES: TOC Elevation: 838.24		ELEVATION	838.58
		EASTING	968439
		NORTHING	767329

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	1, 5, 8, 7		10"		ASPHALT SILT: Brown, semi-dense,semi-stiff, damp, SILT, some fine-grained sand (fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	5, 4, 5, 4		11"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-grained SAND and GRAVEL; some silt; trace medium-grained sand		2		Granular Bentonite (1'-3')
4	5, 4, 3, 3		1"				4		8" diameter auger hole
6	1, 2, 1, 2		1"				6		Bentonite slurry (3'-29.5')
8	3, 2, 2, 5		4"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-grained SAND and GRAVEL; little silt		8		
10	3, 4, 4, 5		14"		SAND AND GRAVEL: Grayish-brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		10		
12	6, 11, 7, 9		9"				12		
14	5, 8, 9, 13		16"		SAND AND GRAVEL: Grayish-brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little silt		14		2" PVC riser (0.2'-33')
16	6, 8, 9, 14		24"		SAND AND GRAVEL: Grayish-brown, semi-dense, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		16		
18	8						18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-306B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	8 7 2		1"						
20	4 5 5 7		7"		SAND: Gray, semi-loose, saturated, fine-grained SAND; trace silt		20		
22	3 4 4 4		17"		SAND AND GRAVEL: Gray, loose, saturated, medium-coarse-grained SAND and GRAVEL; trace silt SAND: Gray, loose, saturated, fine-grained SAND; little silt		22		
24	3 5 5 7		14"		SAND: Gray, loose, saturated, fine-medium-coarse-grained SAND, trace gravel and silt 0.5" of pink Laminae at 27.2		24		
26	6 5 7 9		16"				26		
28	5 6 8 9		23"		SAND AND GRAVEL: Gray, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL		28		
30	6 6 5 7		8"		SAND: Grayish-green, loose, saturated, fine-medium-grained SAND; trace silt		30		Bentonite chips (29.5'-31.5')
32	6 7 8 12		15"				32		
34	5 5 6 6		13"		SAND: Gray, loose, saturated, fine-medium-coarse-grained SAND SAND: Gray, semi-loose, saturated, fine-medium-grained SAND		34		
36	6 7 9 6		24"		SAND: Gray, loose, saturated, fine-medium-coarse-grained SAND SAND: Gray, semi-loose, saturated, fine-medium-grained SAND; trace silt SAND: Gray, loose, saturated, fine-medium-coarse-grained SAND		36		#0 Sand pack (31.5'-43')
38	5 6 7 7		7"		SAND: Gray, semi-loose, saturated, fine-medium-grained SAND; little silt		38		2" PVC 10-slot screen (33'-43')
40	4 6 6 8		5"				40		
42							42		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-306B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	5, 5, 8, 10		6"						
44	5, 6, 25, 31		7"		SAND SILT GRAVEL: Gray, semi-loose, semi-stiff, saturated, SILT and fine-grained SAND; trace medium-coarse-grained sand and angular gravel (Till)		44		Bentonite chips (43'-50')
46	23, 27, 29, 20		6"		SILT AND GRAVEL: Gray, very dense, very stiff, damp, SILT/CLAY; some angular gravel (Till)		46		
48	27, 27, 29, 28		6"				48		
50							50		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-307

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Glen Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***David Reusswig and Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***06/17/2003***	DEVELOPMENT DATE:	***06/26/2003 and 06/27/2003***
		LOCATION:	***Corner of Tracy St. and Maryland Ave.***
NOTES: TOC Elevation: 844.37		ELEVATION	844.93
		EASTING	968786
		NORTHING	766479

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	2, 4, 8, 8		12"		TOPSOIL SAND: Brown, loose, dry, fine-grained SAND; some silt and gravel (fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	4, 8, 24, 16		0"				2		Granular Bentonite (1'-3')
4	12, 14, 16, 25		9"		GRAVEL: Brown-gray, loose, dry, GRAVEL; little fine-grained sand and silt		4		8" diameter auger hole
6	8, 24, 27, 28		12"		SAND AND GRAVEL: Light Brown, loose, dry, fine-grained SAND and GRAVEL; trace silt and medium-coarse-grained sand		6		Bentonite slurry (3'-14.5')
8	7, 11, 12, 9		13"		SAND AND GRAVEL: Brown, loose, damp, fine-medium-grained SAND and GRAVEL; trace silt		8		
10	11, 14, 13, 12		12"				10		2" PVC riser (0.2'-17')
12	12, 12, 15, 16		12"				12		
14	12, 11, 14, 19		12"		SAND: Brown, loose, damp, fine-grained SAND; some gravel; trace silt and medium-grained sand		14		Bentonite chips (14.5'-16')
16	8, 15, 11, 12		13"		SAND: Brown, loose, damp, medium-grained SAND; some gravel; trace silt and fine-grained sand		16		#0 Sand pack (16'-25.5')
18	11, 19				SAND: Brown, loose, damp, fine-medium-grained SAND; some gravel; trace silt		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-307

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	13, 12		14"				20		
	14, 15, 15, 16		12"						2" PVC 10-slot screen (17'-25')
22	11, 39, 12, 13		17"		SAND AND GRAVEL: Brown, semi-loose, wet, fine-medium-grained SAND and GRAVEL; little silt		22		
24	3, 5, 6, 6		24"		SILT: Brown, dense, stiff, non-plastic, saturated, SILT		24		
26	4, 4, 4, 5		24"		SILT: Brown, dense, stiff, plastic, saturated, SILT; some clay		26		
28	2, 3, 4, 4		24"		SILT: Brown, dense,stiff, non-plastic, saturated, SILT; little clay		28		Bentonite chips (25.5'-38')
30	3, 4, 4, 5		24"				30		
32	2, 4, 4, 6		24"				32		
34	3, 5, 5, 6		24"				34		
36			12"		SILT: Green, dense, stiff, plastic, saturated, SILT/CLAY		36		
38							38		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-308

PROJECT INFORMATION

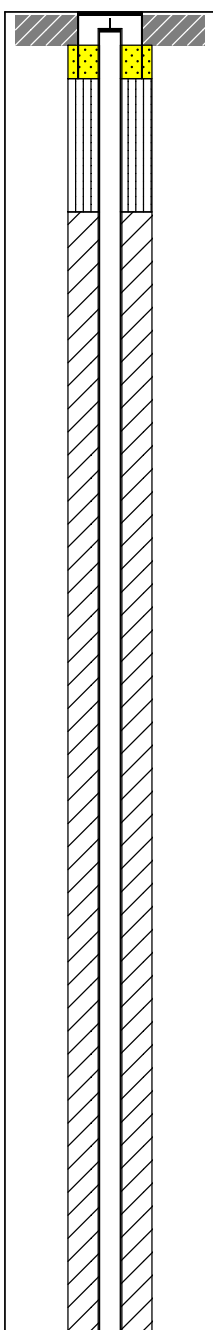
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***
SITE LOCATION:	***Endicott, New York***
JOB NO.:	***02007.33.0301***
LOGGED BY:	***David Reusswig***
DATES DRILLED:	***06/18/2003***

DRILLING INFORMATION

DRILLING CO.:	***Parratt Wolff Inc.***
DRILLER:	***Glen Lansing***
RIG TYPE:	***CME-75***
DRILLING METHOD:	***HSA***
DEVELOPMENT DATE:	***06/24/2003 and 06/25/2003***
LOCATION:	***Corner of Tracy St. and Delaware Ave.***

NOTES: TOC Elevation: 837.99

ELEVATION	838.48
EASTING	968485
NORTHING	766332

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	4 4 5 8		11"		TOPSOIL SAND: Brown, loose, dry, fine-grained SAND; some gravel; little silt (fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	5 5 6 8		9"				2		Granular bentonite (1'-3')
4	3 3 2 3		10"				4		8" diameter auger hole
6	2 2 2 2		6"		SAND: Brown, semi-loose, damp, fine-grained SAND; some gravel and silt		6		Bentonite slurry (3'-26')
8	2 2 2 2		8"				8		
10	2 3 3 3		5"		SAND: Brown, semi-loose, wet, fine-grained SAND; some gravel and silt		10		
12	2 2 3 3		6"		SAND AND GRAVEL: Brown, loose, wet, fine-grained SAND and GRAVEL; little silt; trace medium-grained sand		12		2" PVC riser (0.2'-29')
14	3 2 2 2		4"				14		
16	3 7 9 11		13"		SAND AND GRAVEL: Brown, dense, wet, fine-medium-grained SAND and GRAVEL; little silt		16		
18	11 18 19		13"				18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-308

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	18, 8, 11, 14, 11		11"				20		
22	9, 9, 9, 7		0"		Unknown (no recovery)		22		
24	20, 17, 28, 30		0"				24		
26	8, 12, 18, 14		12"		SAND AND GRAVEL: Brown, loose, damp, fine-medium-grained SAND and GRAVEL; trace silt		26		Bentonite chips (26'-28')
28	8, 11, 14, 12		16"				28		
30	10, 12, 12, 10		20"				30		#0 Sand pack (28-39.5)
32	8, 4, 3, 5		22"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-grained SAND and GRAVEL; trace silt		32		2" PVC 10-slot screen (29'-39')
34	3, 3, 5, 8		8"		SAND AND GRAVEL: Brown, loose, saturated, medium-coarse-grained SAND and GRAVEL; trace silt		34		
36	4, 6, 10, 12		24"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-grained SAND and GRAVEL; trace silt		36		
38	4, 8, 9, 10		20"		SILT: Brown, semi-dense, semi-stiff, saturated, SILT		38		
40	2, 3, 5, 5		18"		SILT: Light brown to greenish brown, dense, stiff, wet to saturated, SILT; little clay		40		
42	6, 8, 8, 7		12"		SILT: Light brown to greenish brown, dense, stiff, wet to saturated, SILT; some clay		42		Bentonite chips (39.5'-44')
44							44		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-309A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Glen Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***06/19/2003***	DEVELOPMENT DATE:	***07/01/2003, 07/07/2003 and 07/11/2003***
		LOCATION:	***2201 Richmond St.***
NOTES: TOC Elevation: 832.28		ELEVATION	832.55
		EASTING	968680
		NORTHING	766101

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					ASPHALT		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
					SAND: Brown, loose, damp, fine-grained SAND (fill)				
2			N/A		SAND AND GRAVEL: Brown, loose, damp, fine-grained SAND and GRAVEL; little silt		2		Granular bentonite (1'-3')
	7 7		9"						
4	4 2 5 9		8"				4		8" diameter auger hole
6	5 6 5 5		9"		SAND AND GRAVEL: Brown, loose, damp, fine-grained SAND and GRAVEL; trace silt and medium-coarse-grained sand		6		Bentonite slurry (3'-20')
8	7 6 5 5		0"				8		
10	5 4 3 4		10"		SAND AND GRAVEL: Brown, loose, damp, fine-grained SAND and GRAVEL; little silt		10		
12	3 3 3 3		18"		SAND: Brown, semi-loose, damp, very fine-grained SAND; some silt		12		2" PVC riser (0.2'-23')
14	2 2 2 3		21"		SAND: Brown, semi-loose, damp, fine-grained SAND; little silt; trace medium-grained sand		14		
16	4 4 4 5		10"				16		
18	6 7						18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-309A

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	7 5		12"		SAND AND GRAVEL: Brown, loose, damp, fine-grained SAND and GRAVEL; trace silt				
20	5 7 8 7		12"				20		Bentonite chips (20'-22')
22	6 7 8 9		1"				22		
24	5 4 5 5		6"		SAND AND GRAVEL: Brown, loose, wet, fine-grained SAND and GRAVEL; trace silt		24		#0 Sand pack (22'-38')
26	5 6 8 9		13"		SAND AND GRAVEL: Brown, loose, saturated, medium-grained SAND and GRAVEL; trace silt and coarse-grained sand		26		
28	10 7 7 8		13"				28		2" PVC 10-slot screen (23'-38')
30	13 17 17 16		9"				30		
32	8 8 14 16		7"				32		
34	8 14 16 19		6"				34		
36	6 6 6 6		12"				36		
38	5 5 6 7		9"				38		
40	5 6 6 9		9"				40		
42	8 13						42		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-309A

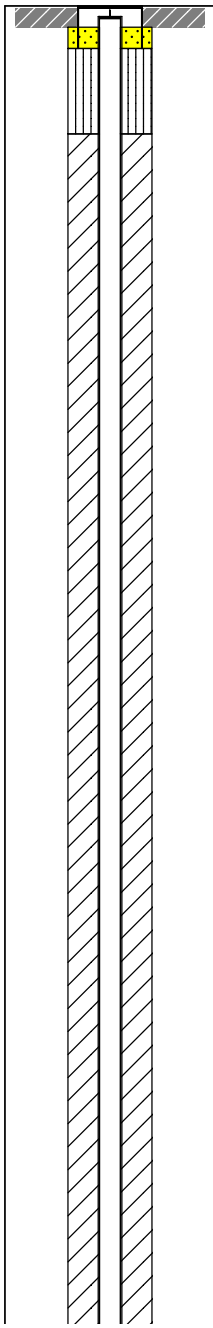
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	9, 7		10"						
44	5, 7, 8, 11		9"		Brown, loose, saturated, medium-grained SAND and GRAVEL; trace silt and coarse-grained sand		44		
46	5, 8, 10, 8		9"				46		Bentonite chips (40'-64')
48	5, 8, 8, 7		8"				48		
50	5, 5, 5, 5		9"				50		
52	5, 8, 9, 13		4"				52		
54	8, 12, 15, 12		7"				54		
56	6, 9, 11, 9		10"				56		
58	8, 12, 8, 12		9"				58		
60	6, 9, 12, 9		12"				60		
62	7, 11, 11, 11		8"				62		
64							64		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-309B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM-Endicott (Supplemental Groundwater Assessment)***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Glen Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***06/25/2003***	DEVELOPMENT DATE:	***07/09/2003 and 07/10/2003***
		LOCATION:	***2201 Richmond St.***
NOTES: TOC Elevation: 832.49		ELEVATION	832.66
		EASTING	968711
		NORTHING	766114

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 64' Refer to EN-309B log for soil description		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular bentonite (1'-3') 8" diameter auger hole Bentonite slurry (3'-50.5') 2" PVC riser (0.2'-54')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		
22							22		
24							24		
26							26		
28							28		
30							30		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-309B

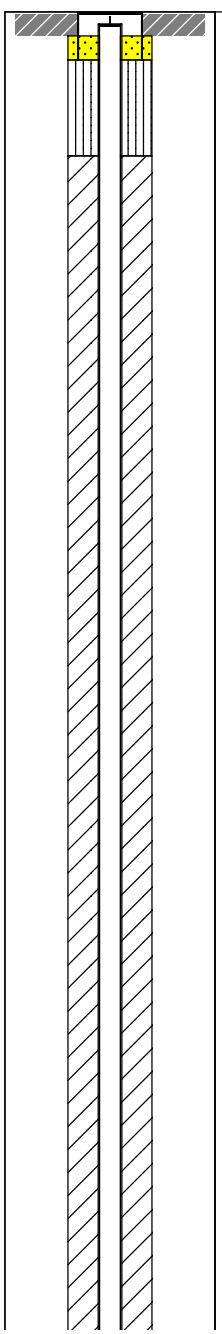
PROJECT: ***IBM-Endicott (Supplemental Groundwater Assessment)***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
32							32		
34							34		
36							36		
38							38		
40							40		
42							42		
44							44		
46							46		
48							48		
50							50		
52							52		Bentonite chips (50.5'-52.5')
54							54		
56							56		#0 Sand pack (52.5'-64')
58							58		2" PVC 10-slot screen (54'-64')
60							60		
62							62		
64							64		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-309C

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Glen Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***06/20/2003-06/24/2003***	DEVELOPMENT DATE:	***07/08/2003***
		LOCATION:	***2109 Richmond St.***
NOTES: TOC Elevation: 832.10		ELEVATION	832.36
		EASTING	968669
		NORTHING	766096

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 58' Soil log starts at 58'. For soil description between 0'-58', refer to EN-309A		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular bentonite (1'-3') 8" diameter auger hole Bentonite slurry (3'-76.5') 2" PVC riser (0.2'-80')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		
22							22		
24							24		
26							26		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-309C

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
28							28		
30							30		
32							32		
34							34		
36							36		
38							38		
40							40		
42							42		
44							44		
46							46		
48							48		
50							50		
52							52		
54							54		
56							56		
58	20 12 8 9				SAND AND GRAVEL: Brown, semi-loose, saturated, medium-grained SAND and GRAVEL; trace coarse-grained sand and silt		58		
60	6 6						60		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-309C

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
62	6, 8		22"				62		
	6, 12, 11, 13		20"						
64	6, 7, 10, 10		12"		SAND AND GRAVEL: Brown, semi-loose, saturated, fine-medium-grained SAND and GRAVEL; little silt		64		
66					Driller overdrilled this interval		66		
68	18, 17, 17, 20		22"		SAND AND GRAVEL: Brown, semi-loose, saturated, medium-grained SAND and GRAVEL; little fine-grained sand and silt		68		
70	11, 12, 10, 14		22"				70		
72	9, 11, 14, 16		220"				72		
74	10, 12, 14, 22		22"		SAND: Brown, semi-dense, saturated, fine-medium-grained SAND; some gravel; little silt		74		
76	9, 11, 17, 20		20"				76		Bentonite chips (76.5'-78.5')
78	11, 12, 14, 20						78		
80	11, 17, 11, 10		24"				80		
82	14, 13, 8, 15		24"				82		#0 Sand pack (78.5'-90')
84	8, 11, 12, 14		24"				84		2" PVC 10-slot screen (80'-90')
86	10, 12, 12, 21		24"				86		
88	11, 14, 16, 21		24"				88		
90	7, 7, 6, 7		24"				90		
92							92		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-310

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***David Reusswig***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/08/2003***	DEVELOPMENT DATE:	***NA***
		LOCATION:	***309 Grant Ave.***
NOTES: TOC Elevation: 845.75		ELEVATION	846.37
		EASTING	966270
		NORTHING	765245

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	4, 6, 8, 5		10"		TOPSOIL SAND: Brown, loose, dry, fine-grained SAND; some gravel; trace silt (fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	4, 3, 3, 3		0"		Unknown (no recovery)		2		Granular bentonite (1'-3')
4	3, 2, 1, 1		10"		SAND: Brown, semi-loose, damp, fine-grained SAND; little gravel; trace silt		4		8" diameter auger hole
6	3, 2, 1, 2		12"				6		Bentonite slurry (3'-14.5')
8	3, 3, 2, 3		18"		SAND: Brown, loose, damp to wet, fine-medium-grained SAND; little gravel; trace coarse-grained sand and silt		8		
10	6, 4, 7, 10		20"		SAND: Brown, semi-loose, damp to wet, fine-grained SAND; little silt SAND: Brown, loose, damp to wet, fine-medium-grained SAND; little gravel; trace silt		10		2" PVC riser (0.2'-18')
12	10, 16, 12, 10		12"		SAND AND GRAVEL: Grayish-brown, semi-dense, damp, fine-medium-grained SAND and GRAVEL; trace silt		12		
14	3, 3, 4, 3		16"		SAND: Brown, semi-dense, damp to wet, fine-medium-grained SAND; trace silt SAND: Brown, loose, damp, fine-medium-grained SAND; little gravel; trace silt		14		Bentonite chips (14.5'-16.5')
16	6, 5, 5, 6		18"				16		
18	2, 7						18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-310

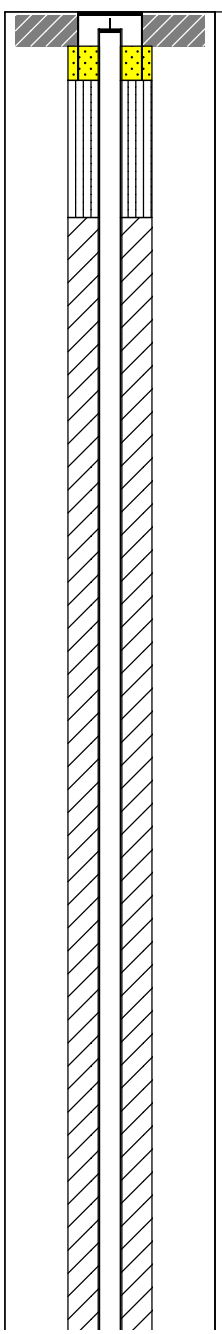
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	7 8		18"						
20			12"		SILT: Brown, semi-dense, semi-stiff, damp, SILT; trace clay SAND AND GRAVEL: Brown, semi-dense, damp, fine-medium-grained SAND and GRAVEL; trace silt		20		#0 Sand pack (16.5'-28')
22	10 12 16 12		10"				22		2" PVC 10-slot screen (18'-28')
24	10 16 25 17		12"				24		
26	7 12 10 11		14"		SAND AND GRAVEL: Brown to grayish-brown, loose, damp to wet, fine-medium-grained SAND and GRAVEL; trace silt		26		
28	4 4 3 6		16"		SILT: Brown, dense, stiff, wet to saturated, SILT with pink laminae; little clay		28		
30	4 7 6 5		12"				30		
32							32		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-311

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Mickey Marshall***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***07/09/2003***	DEVELOPMENT DATE:	***July 2003***
		LOCATION:	***End of Riverview Dr. (in front of Boys and Girls Club)***
NOTES: TOC Elevation: 849.38		ELEVATION	849.66
		EASTING	966366
		NORTHING	764765

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	19, 6, 6, 4		6"		ASPHALT SAND AND GRAVEL: Brown, loose, moist, fine-grained SAND and GRAVEL; little silt (fill)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular bentonite (1'-3') 8" diameter auger hole Bentonite slurry (3'-31.5') 2" PVC riser (0.2'-35')
2	6, 5, 5, 5		5"		SAND AND GRAVEL: Brown, loose, moist, fine-medium-coarse-grained SAND and GRAVEL; trace silt		2		
4	9, 10, 12, 10		10"				4		
6	10, 14, 14, 12		7"				6		
8	9, 4, 7, 9		10"		SAND: Brown, loose, moist, fine-medium-coarse-grained SAND SAND AND GRAVEL: Brown, loose, moist, fine-medium-grained SAND and GRAVEL; little silt		8		
10	11, 13, 14, 12		0"				10		
12	4, 5, 5, 4		8"		SAND AND SILT: Brown, loose, wet, fine-grained SAND and SILT/CLAY SAND: Brown, loose, moist, fine-medium-coarse-grained SAND		12		
14	6, 9, 11, 9		8"		SAND AND GRAVEL: Brown, loose, moist, fine-medium-coarse-grained SAND and GRAVEL; little silt		14		
16	10, 10, 9, 11		10"		SAND AND GRAVEL: Brown, loose, moist, fine-medium-coarse-grained SAND and GRAVEL; trace silt		16		
18	7, 12						18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-311

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	11, 10		15"						
20	14, 22, 25, 27		9"		SAND AND GRAVEL: Brown, semi-loose, moist, fine-medium-coarse-grained SAND and GRAVEL; little silt		20		
22	16, 17, 17, 14		8"				22		
24	7, 6, 6, 9		10"		SAND: Brown, loose, moist, fine-medium-coarse-grained SAND; trace gravel		24		
26	6, 7, 6, 6		22"		SAND: Brown, loose, moist fine-medium-grained SAND; trace silt		26		
28	6, 5, 5, 5		16"				28		
30	7, 5, 6, 5		16"		SAND: Brown, loose, moist, fine-medium-coarse-grained SAND; trace gravel and silt		30		
32	6, 6, 5, 5		17"				32		Bentonite chips (31.5'-33.5')
34	9, 12, 11, 11		16"				34		
36	5, 8, 10, 11		10"		SAND: Brown, semi-loose, moist, fine-medium-coarse-grained SAND; some gravel; trace silt		36		#0 Sand pack (33.5'-46')
38	10, 12, 10, 9		12"		SAND: Brown, semi-loose, moist, fine-medium-coarse-grained SAND; little gravel		38		2" PVC 10-slot screen (35'-45')
40	10, 9, 15, 17		13"				40		
42	18						42		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-311

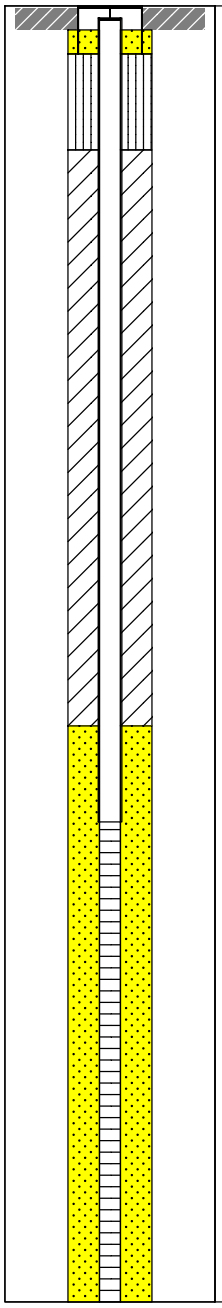
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	20 21 20		15"		SAND: Brown, loose, wet, fine-grained SAND; little silt				
44	3 5 7 6		24"		SAND AND GRAVEL: Brown, loose, wet, fine-medium-coarse-grained SAND and GRAVEL SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little silt		44		
46	8 9 9 7		24"		SILT: Brown, loose, soft, saturated, SILT and fine-grained SAND SAND: Brown, semi-loose, saturated, fine-grained SAND and SILT		46		Bentonite chips (46'-47')
48	6 9 10 8		13"		SILT: Brown, semi-loose, semi-soft, saturated, SILT/CLAY with pink laminae		48		Collapse to 47'
50	10 12 17 16		6"				50		
52							52		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-400A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Dick Waris***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***KatieTamulonis***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/11/2003***	DEVELOPMENT DATE:	***09/21/2003***
		LOCATION:	***North St. in front of Toyota dealer (2507 North St.)***
NOTES: TOC Elevation: 855.18		ELEVATION	855.82
		EASTING	969335
		NORTHING	768082

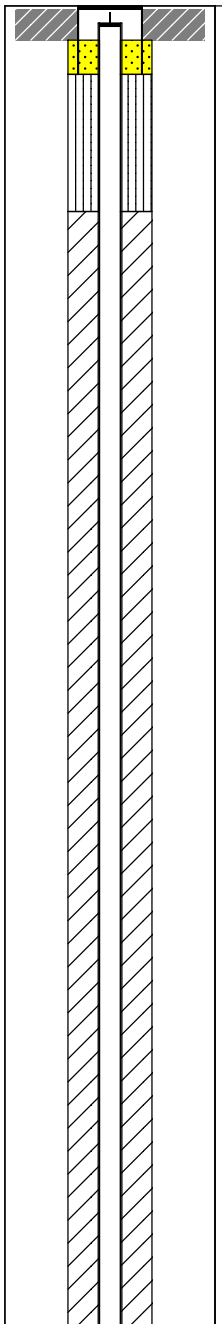
DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Auger to 27' Refer to EN-400B for soil descriptions		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3"-1') Granular bentonite (1'-3') 8" diameter auger hole Bentonite slurry (3'-15') 2" PVC riser (0.2'-10') 2" PVC 10-slot screen (17'-27')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		
22							22		
24							24		
26							26		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-400B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	*IBM/Endicott Supplemental Groundwater Assessment*	DRILLING CO.:	*Parratt Wolff Inc.*
SITE LOCATION:	*Endicott, New York*	DRILLER:	*Dick Waris*
JOB NO.:	*02007.33.0301*	RIG TYPE:	*CME-75*
LOGGED BY:	*Katie Tamulonis*	DRILLING METHOD:	*HSA*
DATES DRILLED:	*09/04/2003 and 09/05/2003*	DEVELOPMENT DATE:	*09/24/2003*
		LOCATION:	*North St. in front of Toyota dealer (2507 North St.)*
NOTES: TOC Elevation: 854.94		ELEVATION	855.88
		EASTING	969327
		NORTHING	768084

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION
0					CEMENT
	7 5 6	0	6"		SAND: Brown, semi-dense, damp, fine-medium-grained SAND; little silt and gravel
2	4 4 6 10	0	6"		SAND AND GRAVEL: Brown, semi-dense, damp, fine-medium-coarse-grained SAND and GRAVEL; little silt
4	8 16 19 14	0	9"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL; little silt
6	35 21 27 34	0	12"		
8	31 36 49 44	0	8"		SAND AND GRAVEL: Brown, semi-dense, damp, medium-coarse-grained SAND and GRAVEL; some silt
10	50/0.4	0	4"		SAND: Tan with pink, semi-loose, damp, fine-medium-grained SAND; some silt; little gravel
					GRAVEL AND SAND: Brown, dense, damp, GRAVEL and medium-coarse-grained SAND; little silt; trace fine-grained sand
12	36 41 50/0.3	0	5"		
14	35 41 52 62	0	19"		SAND AND GRAVEL: Dark brown, dense, damp, medium-coarse-grained SAND and GRAVEL; trace fine-grained sand and silt
16	54 50/0.3	0	10"		SAND AND GRAVEL: Light brown, dense, damp, fine-medium-coarse-grained SAND and GRAVEL; trace silt
18	35 63	0	10"		



WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	4" Cement pad
	2" Well cap
	Flushmount manhole
	#0 Sand (0.3"-1')
	Granular bentonite (1'-3')
	8" diameter auger hole
	Bentonite slurry (3'-33.5')
	2" PVC riser (0.2'-37')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-400B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	43, 21, 23, 22	0	19"				20		
22	29, 33, 30, 21	0	12"				22		
24	4, 8, 9, 8	0	10"		SAND: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND; some gravel; trace silt		24		
26	11, 7, 7, 8	0	11"		SAND: Brown, semi-loose, saturated, fine-medium-grained SAND; some coarse-grained sand		26		
28	7, 4, 5, 9	0	22"				28		
30	6, 8, 9, 12	0	9"				30		
32	8, 10, 10, 12	0	9"				32		
34	8, 12, 9, 12	0	10"				34		Bentonite chips (33.5'-35.5')
36	10, 14, 13, 17	0	12"		SAND AND SILT: Light brown, semi-dense, saturated, medium-coarse-grained SAND and SILT		36		
38	14, 13, 15, 20	0	14"				38		2" PVC 10-slot screen (37'-47')
40	12, 15, 16, 20	0	21"				40		#0NN Sand pack (35.5'-47.5')
42	14, 12						42		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-400B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	12 14	0	14"						
44	11 9 9 10	0	12"				44		
46	7 6 7 6	0	12"				46		
48	4 3 3 4	0	13"		SILT: Gray, semi-loose, saturated, SILT/CLAY		48		Bentonite chips (47.5'-52')
50	5 4 4 3	0	15"				50		
52							52		

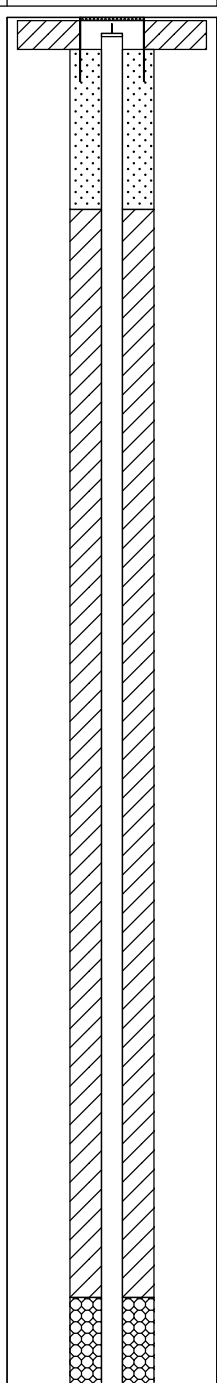
GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-401

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	*IBM-Endicott Supplemental Groundwater Assessment*	DRILLING CO.:	*Parratt Wolff Inc.*
SITE LOCATION:	*Endicott, New York*	DRILLER:	*Jim Hammond*
JOB NO.:	*02007.33.0301*	RIG TYPE:	*CME-55*
LOGGED BY:	*S. Fisher*	DRILLING METHOD:	*Hollow Stem Auger*
DATES DRILLED:	*08/20/03*	DEVELOPMENT DATE:	*9/10/03*
		LOCATION:	*415 Roosevelt Street*
NOTES: SWL= 35.32 ft below TOC, 8/21/03 TOC elevation: 851.79 ft amsl		ELEVATION	852.12 ft amsl
		EASTING	967267.00
		NORTHING	765154.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION
0	3, 4, 3, 2		5"	1	SILT, SAND & GRAVEL: dk yell. brown (10 YR 4/2) silt w/ vf-c sand, some vc, some f-m SR-R gravel, some organic matter, loose, moist to dry
2	2, 2, 2, 4		4"	2	SILT, SAND & GRAVEL: as above, loose
4	3, 3, 3, 4		7"	3	SAND & GRAVEL: dk yell brown, m-c, some vf-f and vc, some silt, with f-m SR-R gravel, grvl typically composed of siltstone, occ. gneiss, moist
6	3, 4, 4, 4		8"	4	SAND & GRAVEL: as above, tr organic material, moist to dry
8	10, 9, 6, 6		15"	5	SAND & GRAVEL: as above SAND: dk yell. brown mixed w/ white and clear qtz grains, m-c, litvf-f, tr vc, tr f SR-R gravel, tr silt, homogeneous, moist
10	6, 7, 8, 8		1"	6	SAND: little recovery - large siltstone fragment in spoon
12	6, 7, 7, 8		19"	7	SAND: as above with gravelly f-vc sand at top
14	3, 3, 7, 21		12"	8	SAND: as above SAND & SILT: dk yell. brown to mod. yell brown (10 YR 5/4), stratified silt and vf-f sand, some m-c sand layers, wet SAND & GRAVEL: as below
16	28, 27, 29, 36		21"	9	SAND & GRAVEL: dk yell. brown, m-c, some vc, lit fine, tr vf and silt, with f-m SR-R gravel, cohesive, moist to wet
18	15, 37, 43, 50/.4'		14"	10	SAND & GRAVEL: as above, very gravelly
20	26, 28		22"	11	SAND & GRAVEL: as above, very gravelly, cohesive to crumbly, some silt, moist

GRAPHIC



WELL CONSTRUCTION DETAILS
Flushmount manhole
2" locking well cap
#0 Sand
8' dia. HSA borehole (0'-39')
Bentonite slurry annular seal (3'-20')
Bentonite chip annular seal (20'-22')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-401

PROJECT: ***IBM-Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	36 42								Bentonite chip annular seal (20'-22')
22	28 48 50/.4'		14"	12	SAND & GRAVEL: as above, v. gravelly, occ. cobbles brought up in augers		22		
	Augered								
24	12 7 6 7		18"	13	SAND & GRAVEL: as above SAND: dk yell. brown, m-c, some vf-f, tr silt, cohesive, homogeneous, moist		24		8' dia. HSA borehole (0'-39')
26	27 47 48 30		23"	14	SAND: as above, incr c-vc sand, moist SAND & GRAVEL: dk yell. brown, m-c, w/ vc, some vf-f, tr silt, w/ f-m SR-R gravel of various lithologies (quartzite, gneiss, red & gray siltstone), moist		26		
28	18 18 17 25		19"	15	SAND & GRAVEL: as above, occ cobble brought up in augers		28		
30	14 28 31 25		17"	16	SAND & GRAVEL: as above, very gravelly		30		#0 Sand pack (22'-39')
32	19 22 22 29		20"	17	SAND & GRAVEL: as above with more sand content, moist to wet		32		
34	19 21 19 17		18"	18	SAND & GRAVEL: as above, very sandy top 5", then cohesive to crumbly sand and gravel, wet		34		2" dia. 10-slot PVC screen (24'-39')
36	14 13 15 14		17"	19	SAND & GRAVEL: as above, with ~40% gravel, typically fine SR-R, pred m-c sand, some vc, tr silt and vf sand, wet		36		
38	11 16				SAND & GRAVEL: as above, wet		38		
	12 10		17"	20	SILT: dusky yellow to mod yell. brown, laminated w/ tr. clay, sl plastic, moist to wet, contact w/ gravel is irregular and pink colored				
40	8 8 9 13		18"	21	SILT: laminated, dense, some pink clay		40		Collapsed formation (39'-42')
42							42		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-402

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM-Endicott (Supplemental Groundwater Assessment)***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/15/2003***	DEVELOPMENT DATE:	***09/25/2003***
		LOCATION:	***423 Adams Ave***

NOTES: TOC Elevation: 851.24

ELEVATION	851.74
EASTING	967964
NORTHING	765171

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	3, 7, 5, 6		8"		SAND AND SILT: Dark brown, loose, damp, SILT/CLAY and fine-grained SAND (topsoil)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
					SAND AND GRAVEL: Brown, loose, damp, medium-grained SAND and GRAVEL; some silt and fine-grained sand				
2	5, 6, 6, 4		0"				2		Granular Bentonite
4	10, 5, 3, 5		6"				4		8" diameter auger hole
6	4, 5, 10, 16		9"		SAND AND GRAVEL: Brown, loose, wet, medium-coarse-grained SAND and GRAVEL; some silt and fine-grained sand		6		Bentonite slurry (3'-28.5')
8	12, 34, 34, 47		0"		No recovery (unknown)		8		
10	34, 38, 36, 32		13"		SAND AND GRAVEL: Brown, dense, damp, medium-grained SAND and GRAVEL; little silt and fine-grained sand		10		
12	21, 25, 31, 31		18"		SAND AND GRAVEL: Brown, dense, damp, medium-grained SAND and GRAVEL; little fine-grained sand; trace silt		12		
14	21, 27, 17, 21		17"		SAND: Brown, semi-dense, damp, medium-grained SAND; little fine-grained sand		14		2" PVC riser (0.2'-39.5')
16	26, 31, 26, 17		14"		SAND AND SILT: Brown, loose, soft, damp, fine-grained SAND and SILT SAND AND GRAVEL: Brown, semi-dense, damp, fine-medium-grained SAND and GRAVEL; some silt		16		
18	10, 21, 24		0"		SAND AND GRAVEL: Brown, dense, damp, fine-medium-grained SAND and GRAVEL; little silt		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-402

PROJECT: ***IBM-Endicott (Supplemental Groundwater Assessment)***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	31, 21, 42, 49		17"				20		
22	49, 44, 49, 40		17"				22		
24	17, 47, 51, 32		8"				24		
26	26, 34, 16, 18		15"				26		
28	20, 27, 31, 36		17"				28		Bentonite chips (28.5'-30.5')
30	42, 22, 40, 27		17"		SAND AND GRAVEL: Brown, dense, damp, fine-medium-grained SAND and GRAVEL; trace to little silt		30		
32	33, 25, 42, 47		18"				32		
34	49, 24, 46, 50/.2		9"				34		2" PVC 10-slot screen (39.5'-32.5')
36	14, 12, 11, 10		18"		SAND: Brown, semi-dense, wet, fine-medium-grained SAND; little gravel SAND: Brown, semi-dense, saturated, fine-medium-grained SAND; little gravel		36		#0 Sand pack (30.5'-39.5')
38	5, 11, 21, 6		19"				38		
40	3, 4, 6, 8		9"		SILT: Brown to tan, loose, soft, saturated, SILT/CLAY with pink laminae present; some to little fine grained sand		40		
42	9, 10, 10, 11		4"				42		
44							44		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-403

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM-Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***S. Fisher***	DRILLING METHOD:	***Hollow Stem Auger***
DATES DRILLED:	***08/21/03***	DEVELOPMENT DATE:	***9/10/03***
		LOCATION:	***411 Jackson Street***
NOTES: SWL= 36.47 ft below TOC, 9/9/03 TOC elevation: 854.97 ft amsl		ELEVATION	855.27 ft amsl
		EASTING	968122.00
		NORTHING	765778.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	4, 4, 3, 3		13"	1	SILT, SAND & GRAVEL: dk yell. brown (10 YR 4/2) to mod yell. brown (10 YR 5/4), f-mw/ vf sand and silt, w/ f-m SR-R gravel, loose, tr. organics, moist to dry		0		Flushmount manhole 2" locking well cap
2	4, 4, 4, 4		7"	2	SILT, SAND & GRAVEL: as above, dry		2		#0 Sand
4	5, 5, 5, 6		9"	3	SILT, SAND & GRAVEL: as above, trace organics, dry to moist		4		
6	8, 9, 15, 15		6"	4	SILT, SAND & GRAVEL: as above very gravelly at bottom SAND & GRAVEL: dk yell. brown, f-c w/ vf, fr silt, tr vc, w/ f-m SR-R gravel (pred siltstone), crumbly, moist		6		
8	15, 14, 16, 20		15"	5			8		
10	33, 40, 46, 50/.4'		6"	6	SAND & GRAVEL: as above, very gravelly, occ cobbles and large pebbles brought up in augers		10		8' dia. HSA borehole (0'-41')
12	40, 40, 46, 48		24"	7	SAND & GRAVEL: as above, pred m-c, w/ f-m gravel, some vf and vc, lit silt, gavel composed of various lithologies		12		
14	26, 42, 46, 48		17"	8	SAND & GRAVEL: as above, very gravelly		14		Bentonite slurry annular seal (3'-20')
16	40, 36, 39, 34		21"	9	SAND & GRAVEL: as above, pred m-c with vf-f, tr silt, w/ f-m SR-R gravel of various lithologies, moist		16		
18	18, 25, 30, 57		14"	10	SAND & GRAVEL: as above, large quartzite pebbles at bottom		18		
20	29, 26		20"	11	SAND & GRAVEL: as above, harder formation		20		Bentonite chip annular seal (20'-24')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-403

PROJECT: ***IBM-Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	42 46								
22	21 39 45 52		15"	12	SAND & GRAVEL: as above, v. large (>2") pebbles near bottom		22		Bentonite chip annular seal (20'-24')
24	51 37 42 57		13"	13	SAND & GRAVEL: as above, very gravelly		24		8' dia. HSA borehole (0'-41')
26	45 37 32 27		21"	14	SAND & GRAVEL: as above, very gravelly		26		
28	30 32 42 49		20"	15	SAND & GRAVEL: as above, very gravelly		28		
30	42 49 95 50/.2'		9"	16	SAND & GRAVEL: as above, w/ cobbles		30		#0 Sand pack (24'-41')
32	8 10 19 20		18"	17	SAND & GRAVEL: as above SAND: dk yell. brown, m-c, some vf-f, tr silt, pebble at 9"-12" SAND & GRAVEL: as above, f-m, some c-vc, tr silt and vf sand, w/ f-m gravel, moist to wet		32		
34	19 29 34 34		19"	18	SAND & GRAVEL: as above		34		2" dia. 10-slot PVC screen (26'-41')
36	29 40 48 49		23"	19	SAND & GRAVEL: as above, wet		36		
38	21 26 24 21		24"	20	SAND & GRAVEL: as above, saturated		38		
40	12 8 11 11		24"	21	SAND & GRAVEL: as above with increased sand content, finer gravel, wet SILT: dusky yellow (5 Y 6/4) laminated w/ pale red clay, dense stiff, moist to wet		40		
42	15 14 13 14		7"	22	SILT: as above, turning lt olive gray (5 Y 4/1) below 5" w/ occ. pale red clay lamination		42		Collapsed formation (41'-44')
44							44		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-404

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott, NY***	DRILLER:	***Dick Waris***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***HSA***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***CME-75***
DATES DRILLED:	***09/03/2003***	DEVELOPMENT DATE:	***09/25/2003***
		LOCATION:	***NW corner of Tracy St. and Massachusetts Ave.***
NOTES: TOC Elevation: 848.43		ELEVATION	849.04
		EASTING	968190
		NORTHING	766165

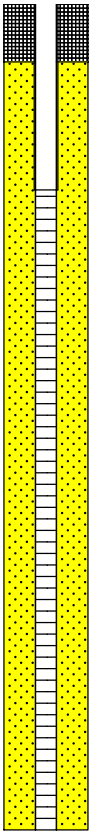
DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	2, 2, 3, 5	0	13"		SILT: Brown, dense, stiff, damp, SILT/CLAY (topsoil)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	5, 10, 7, 8	0	2"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; some silt; trace coal (fill)		2		Granular Bentonite
4	2, 2, 1, 1	0	10"		SAND AND GRAVEL: Brown, semi-loose, wet, fine-medium-grained SAND and GRAVEL; some silt; trace coal and coarse-grained sand (fill)		4		8" diameter auger hole
6	3, 4, 3, 3	0	4"				6		Bentonite slurry (3'-28.5')
8	4, 3, 5, 5	0	8"		SAND AND GRAVEL: Brown, semi-loose, wet, fine-medium-grained SAND and GRAVEL; some silt; little ash, cinder and coal; trace coarse-grained sand (fill)		8		
10	4, 2, 6, 6	0	9"				10		2" PVC riser (0.2'-23.5')
12	14, 9, 7, 5	0	8"				12		
14	7, 12, 16, 31	0	13"		SAND AND GRAVEL: Brown, dense, wet, fine-medium-coarse-grained SAND and GRAVEL; trace to little silt		14		
16	66	0	0"		Unknown (no recovery)		16		
18	19, 15, 21, 31	0	8"		SAND AND GRAVEL: Brown, very dense, damp, fine-medium-grained SAND and GRAVEL; little silt and coarse-grained sand		18		
20	25				SAND AND GRAVEL: Brown, very		20		Bentonite chips (19.5'-21.5')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-404

PROJECT: ***Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22	24, 27, 25	0	20"		dense, damp, fine-medium-coarse-grained SAND and GRAVEL; trace silt		22		
24	41, 36, 21, 25	0	13"				24		
26	15, 15, 21, 27	0	18"		SAND: Brown, very dense, damp, medium-grained SAND; little gravel and fine-grained sand		26		#0 Sand pack (21.5'-33.5')
28	35, 23, 9, 7	0	14"		SAND AND GRAVEL: Brown, dense, damp, medium-grained SAND and GRAVEL; trace to little silt and fine-grained sand		28		2" PVC 10-slot screen (23.5'-33.5')
30	6, 6, 12, 15	0	15"		SAND: Brown, loose, wet to damp, medium-grained SAND; little fine-grained sand; trace gravel		30		
32	19, 22, 15, 13	0	16"		SAND AND GRAVEL: Brown, dense, damp, medium-grained SAND and GRAVEL; little silt and fine-grained sand		32		
34	19, 22, 12, 21	0	9"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little silt SILT: Brown to tan, dense, soft, SILT; some fine-grained sand		34		
36	11, 6, 5	0	22"		SILT: Brown to tan, dense, stiff, saturated, SILT/CLAY with pink laminae; little fine-grained sand		36		
38	11, 10, 9, 9	0	21"				38		



GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-405

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/04/2003***	DEVELOPMENT DATE:	
		LOCATION:	***NW corner of Tracy St. and Maryland Ave.***
NOTES: TOC Elevation 861.46 ft amsl		ELEVATION	861.85 ft amsl
		EASTING	968716
		NORTHING	766783

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	50, 28, 14, 10	0	11"		SILT: Dark Brown, semi-loose, soft, damp, SILT; some fine-grained sand; trace tree roots (topsoil)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3"-1')
2	7, 9, 9, 16	0	12"		SAND AND GRAVEL: Brown, semi-loose, damp, medium-grained SAND and GRAVEL; little fine-coarse-grained sand and silt		2		Granular bentonite (1'-3')
4	6, 5, 4, 5	0	7"		SAND AND GRAVEL: Brown, loose, damp, fine-medium-coarse-grained SAND and GRAVEL; trace to little silt		4		8" diameter auger hole
6	6, 9, 15, 24	0	12"		SAND AND GRAVEL: Brown, dense, damp, fine-medium-grained SAND and GRAVEL; little coarse-grained sand and silt		6		Bentonite slurry (3'-22')
8	16, 32, 53, 53	0	11"				8		
10	23, 43, 43, 47	0	12"				10		
12	39, 33, 50/0.4		0"		Unknown (no recovery)		12		
14	33, 39, 40, 26	0	16"		SAND AND GRAVEL: Brown, dense, damp, medium-grained SAND and GRAVEL; little fine-coarse-grained sand and silt		14		2" PVC riser (0.2'-26')
16	30, 21, 15, 15	0	16"		SAND: Brown, semi-loose, damp, fine-medium-grained SAND; trace silt		16		
18	9, 9				SAND: Brown, semi-loose, damp, fine-medium-grained SAND; trace gravel		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-405

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

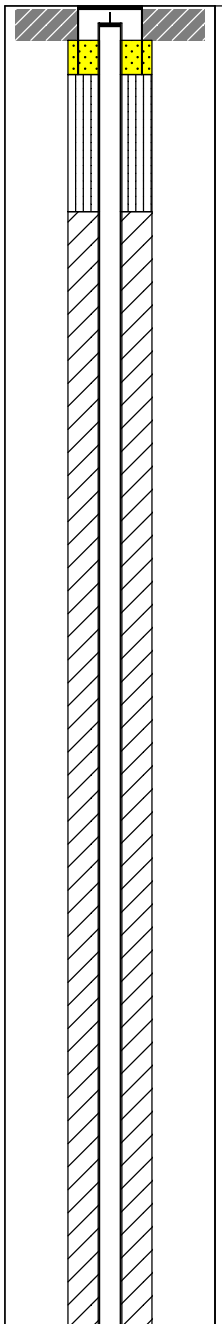
DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	10 9	0	15"						
20	8 9 19 26	0	16"		SAND AND GRAVEL: Brown, semi-dense, damp, fine-medium-coarse-grained SAND and GRAVEL; trace silt		20		
22	29 23 17 19	0	16"		SAND AND SILT: Brown to tan, loose, damp, fine-medium SAND and SILT; trace gravel		22		Bentonite chips (22'-24')
24	7 6 11 16	0	19"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; little coarse-grained sand and silt		24		#0 Sand pack (24'-36.5')
26	23 19 14 14	0	17"		SAND: Brown to tan, loose, damp, fine-medium-grained SAND; some silt, little gravel		26		
28	9 13 24 21	0	20"		SAND: Brown, semi-loose, damp, fine-medium-grained SAND; trace gravel and coarse-grained sand		28		2" PVC 10-slot screen (26'-36')
30	29 27 24 23	0	18"		SAND: Brown, semi-loose, damp, fine-medium-grained SAND; some gravel; little coarse-grained sand; trace silt		30		
32	20 18 22 18	0	16"		SAND AND GRAVEL: Brown, semi-loose, wet, fine-medium-grained SAND and GRAVEL; little silt		32		
34	15 17 22 15	0	14"		SAND: Brown, semi-loose, damp, fine-medium-grained SAND; trace silt		34		
36	8 9 10 12	0	22"		SAND AND SILT: Light brown, loose, wet, fine-grained SAND and SILT SILT: Light brown to tan, saturated, SILT/CLAY; little fine-grained SAND; with pink laminae present		36		
38	5 5 6 6	0	21"				38		Collapse to 36.5
40							40		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-406

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***08/25/2003***	DEVELOPMENT DATE:	***09/03/2003***
		LOCATION:	***Corner of E Main St. and Louisianna Ave.***
NOTES: TOC Elevation: 861.21 ft amsl		ELEVATION	861.76 ft amsl
		EASTING	968981
		NORTHING	766956

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	3, 3, 2, 7	0	2"		SAND AND SILT: Brown, loose, dry, SILT and fine-grained SAND (topsoil) Unknown		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3"-1')
2	7, 4, 4, 4	0	2"		SAND: Brown, loose, dry, fine-grained SAND; some gravel and silt		2		Granular bentonite (1'-3')
4	6, 5, 3, 5	0	2"				4		8" diameter auger hole
6	6, 6, 11, 14	0	0"		Unknown (no recovery)		6		Bentonite slurry (3'-26')
8	14, 21, 24, 27	0	10"		SAND: Brown, semi-loose, damp to wet, fine-medium-grained SAND; some gravel and silt		8		
10	13, 30, 21, 27		11"		SAND AND GRAVEL: Brown, semi-dense, damp, fine-grained SAND and GRAVEL; little silt		10		
12	49, 50/0.2	0	6"				12		
14	39, 48, 45, 50/0.3	0	6"				14		2" PVC riser (0.2'-30')
16	24, 37, 44, 50/0.4		17"		SAND AND GRAVEL: Brown, dense, damp, fine-medium-grained SAND and GRAVEL; little coarse-grained sand and silt		16		
18	10, 40						18		



GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-406

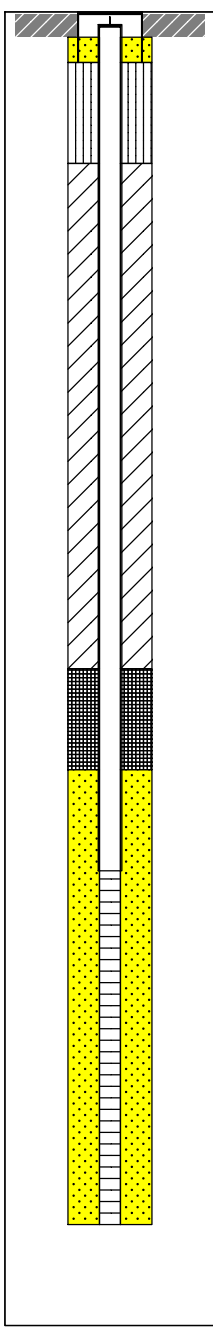
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	42 37		9"						
20	17 27 24 16	0	4"		SAND AND GRAVEL: Brown, dense, wet to damp, fine-medium-coarse-grained SAND and GRAVEL; little silt		20		
22	23 12 12 13	0	3"				22		
24	11 12 12 10	0	15"		SAND AND SILT: Brown, loose, wet, fine-grained SAND and SILT; some gravel; little medium-grained sand SAND: Brown, semi-dense, damp, medium-coarse-grained SAND; little gravel and fine-grained sand		24		
26	13 12 12 14	0	16"		SAND: Brown, dense, dry, fine-medium-coarse-grained SAND; some silt; little to trace gravel		26		Bentonite chips (26'-28')
28	7 14 14 25	0	17"		SAND: Brown, dense, damp, fine-medium-coarse-grained SAND; some silt; little to trace gravel SAND: Brown, semi-dense to dense, damp, fine-medium-grained SAND; little coarse-grained sand, trace gravel		28		
30	13 12 10 12	0	16"				30		
32	16 31 32 30	0	18"		SAND: Brown, dense, damp, fine-medium-grained SAND; little gravel and coarse-grained sand		32		#0NN Sand pack (28'-37.5')
34	12 5 5 7	0	18"		SAND: Brown, semi-loose, saturated, fine-grained SAND; little to some silt		34		2" PVC 10-slot screen (30'-37')
36	5 13 10 7	0	14"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little silt SAND: Brown, semi-loose, saturated, fine-grained SAND; some silt; trace gravel		36		
38	15 12 7 5	0	12"		SILT: Brown, soft, saturated, SILT with pink laminae SAND AND SILT: Brown, loose, saturated, fine-grained SAND, some silt with pink laminae		38		Collapse to 37.5
40	7 11 7 9	0	17"				40		
42							42		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-407A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Ed Stoner***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/10/2003***	DEVELOPMENT DATE:	***09/11/2003 and 09/12/2003***
		LOCATION:	***12 Nebraska Ave.***
NOTES: TOC Elevation: 850.72 ft amsl Water level 19.53 on 09/11/2003		ELEVATION	851.02 ft amsl
		EASTING	968960
		NORTHING	767728

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 24' Refer to EN-407B log for soil description		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite 8" diameter auger hole Bentonite slurry (3'-13') Bentonite chips (13'-15') 2" PVC riser (0.2'-17') #0 Sand pack (15'-24') 2" PVC 10-slot screen (17'-24') Collapse to 24'
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		
22							22		
24	2 3 6 6	0	11"		SAND: Brown, loose, saturated, fine-medium-grained SAND; trace silt and gravel		24		
26							26		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-407B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Ed Stoner and Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/09/2003***	DEVELOPMENT DATE:	***09/10/2003***
		LOCATION:	***12 Nebraska Ave***

NOTES: TOC Elevation: 850.72 ft amsl
Water level 19.57 on 09/12/2003

ELEVATION	850.96 ft amsl
EASTING	968958
NORTHING	767722

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	5, 9, 8, 9	0	16"		SAND AND SILT: Dark Brown, semi-loose, damp, fine-grained SAND and SILT/CLAY (topsoil)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	10, 10, 21, 48	0	15"		SAND: Brown, semi-loose, damp, fine-medium-grained SAND; some gravel; little silt; trace coal (fill) SAND AND GRAVEL: Brown, dense, damp, medium-grained SAND and GRAVEL; little silt and fine-grained sand		2		Granular Bentonite
4	10, 33, 46, 56	0	15"		SAND AND GRAVEL: Brown, very dense, dry, fine-medium-grained SAND and GRAVEL; trace to little silt		4		8" diameter auger hole
6	35, 43, 43, 43	0	18"				6		Bentonite slurry (3'-24.5')
8	23, 39, 40, 43	0	18"		SAND AND GRAVEL: Brown, very dense, dry to damp, medium-grained SAND and GRAVEL; little coarse-grained sand; trace silt and fine-grained sand		8		
10	20, 31, 32, 36	0	16"				10		
12	42, 41, 36, 28	0	17"		SAND AND GRAVEL: Brown, very dense, damp, medium-grained SAND and GRAVEL; little fine-coarse-grained sand; trace silt		12		
14	15, 23, 33, 30	0	7"		SAND: Brown, very dense, damp, medium-grained SAND; some gravel; little fine-coarse-grained sand; trace silt		14		2" PVC riser (0.2'-29')
16	25, 17, 15, 17	0	13"		SAND AND GRAVEL: Brown, very dense, damp, medium-grained SAND and GRAVEL; little fine-coarse-grained sand; trace silt		16		
18	6, 14, 14, 7	0	18"		SAND: Brown, loose, damp, medium-grained SAND SAND: Brown, damp to wet, medium-grained SAND; some gravel; trace silt		18		
20	6, 5, 5, 4	0	11"		SAND: Brown, loose, saturated, medium-grained SAND; trace gravel and silt		20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-407B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22	6, 9, 7, 9	0	24"				22		
24	9, 9, 9, 10	0	12"		SAND: Brown, loose, saturated, medium-grained SAND; trace silt		24		Bentonite chips (24.5'-27')
26	11, 10, 12, 13	0	11"		SAND: Brown, semi-dense, saturated, fine-medium-grained SAND; trace silt		26		
28	5, 5, 8, 13	0	9"				28		
30	5, 8, 9, 11	0	17"				30		
32	7, 7, 7, 8	0	14"				32		
34	10, 12, 10, 11	0	8"		SAND: Brown, semi-dense, saturated, fine-medium-grained SAND; little silt		34		2" PVC 10-slot screen (29'-44')
36	10, 13, 13, 15	0	15"				36		#0 Sand pack (27'-45')
38	11, 10, 11, 12	0	10"				38		
40	9, 9, 9, 12	0	7"				40		
42	12, 16, 22, 26	0	12"				42		
44	9, 19, 17, 24	0	5"		SILT: Gray, very dense, saturated, SILT/CLAY; some gravel and sand (till)		44		
46	18, 26, 37, 54	0	9"				46		Collapse to 45'
48							48		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-408

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Katie Tamulonis and Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/02/2003***	DEVELOPMENT DATE:	***09/21/2003***
		LOCATION:	***SW corner of North St. and Nebraska Ave.***
NOTES: TOC Elevation: 854.56 ft amsl		ELEVATION	855.01 ft amsl
		EASTING	968935
		NORTHING	768016

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	3, 4, 4, 4	0	8"		SILT: Brown, semi-dense, damp, SILT; little fine-grained sand, trace gravel (topsoil)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	5, 6, 9, 10	0	12"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL; little silt		2		Granular Bentonite
4	11, 11, 12, 12	0	13"				4		8" diameter auger hole
6	12, 13, 16, 20	0	13"				6		Bentonite slurry (3'-14')
8	16, 16, 16, 15	0	14"		SAND AND GRAVEL: Brown, semi-dense, damp, medium-coarse-grained SAND and GRAVEL; little silt; trace fine-grained sand		8		
10	13, 16, 15, 14	0	4"				10		2" PVC riser (0.2'-18')
12	26, 16, 19, 22	0	6"				12		
14	10, 14, 14, 14	0	15"		SAND AND GRAVEL: Brown, semi-dense, damp, medium-coarse-grained SAND and GRAVEL; trace silt and fine-grained sand		14		Bentonite chips (14'-16')
16	16, 19, 23, 20	0	14"		SAND AND GRAVEL: Brown, semi-dense, damp, medium-coarse-grained SAND and GRAVEL; little silt; trace fine-grained sand		16		
18	14						18		#0 Sand pack (16'-28')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-408

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	15 21 17	0	19"						
20	20 14 10 9	0	11"		SAND AND GRAVEL: Brown, semi-dense, damp, medium-coarse-grained SAND and GRAVEL; trace fine-grained sand		20		
22	9 8 7 6	0	12"		SAND: Brown, semi-dense, damp, fine-medium-coarse-grained SAND SAND AND GRAVEL: Brown, semi-dense, damp, medium-coarse-grained SAND and GRAVEL; trace silt		22		2" PVC 10-slot screen (18'-28')
24	7 6 7 7	0	15"		SAND: Brown, semi-loose, saturated, fine-grained SAND; some silt and medium-grained SAND SAND: Brown, semi-loose, saturated, fine-medium-grained SAND; trace gravel		24		
26	3 5 5 8	0	13"				26		
28	5 5 6 7	0	14"		SILT: Brown to tan, soft, saturated, SILT/CLAY		28		Collapse to 28'
30	4 3 4 5	0	20"		SILT: Gray, soft, saturated, SILT/CLAY with pink laminae		30		
32							32		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-409

PROJECT INFORMATION

PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***
SITE LOCATION:	***IBM-Endicott***
JOB NO.:	***02007.33.0301***
LOGGED BY:	***Katie Tamulonis***
DATES DRILLED:	***09/03/2003***

DRILLING INFORMATION

DRILLING CO.:	***Parratt Wolff Inc.***
DRILLER:	***Jim Hammond***
RIG TYPE:	***CME-55***
DRILLING METHOD:	***HSA***
DEVELOPMENT DATE:	***09/11/2003***
LOCATION:	***12 Dittrich St.***

NOTES: TOC Elevation 843.62 ft amsl

ELEVATION	844.00 ft amsl
EASTING	968957
NORTHING	768343

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	augered to 4'	0					0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	4, 8, 9, 11	0	11"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL; little silt		2		Granular Bentonite
4	6, 13, 15, 2	0	12"				4		Bentonite chips (3'-5')
6	28, 28, 25, 23	0	11"				6		2" PVC riser (0.2'-7')
8	16, 4, 7, 6	0	10"				8		8" diameter auger hole
10	2, 2, 2, 4	0	9"		SAND: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND; some gravel and silt		10		#00N Sand pack (5'-14')
12	5, 4, 2, 2	0	11"		SAND: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND; some silt; little gravel		12		2" PVC 10-slot screen (7'-14')
14	34, 5, 7, 9	0	12"		SILT: Gray, dense, saturated, SILT/CLAY with pink laminae		14		
16		0	11"				16		
18							18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-410

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Ed Stoner***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/18/2003***	DEVELOPMENT DATE:	***09/24/2003***
		LOCATION:	***Behind Bulding #57***
NOTES: TOC Elevation: 843.22 ft amsl		ELEVATION	843.78 ft amsl
		EASTING	968759
		NORTHING	768574

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	20, 28	0	4"		ASPHALT: Asphalt and crushed stone		0		Cement pad (0'-1.5') 2" Well cap Flushmount manhole
2	8, 8, 7, 8		0"		SAND: Brown, semi-dense, damp, fine-grained SAND; some silt; trace gravel		2		Bentonite chips (1.5'-2.5') 2" PVC riser (0.2'-4')
4	3, 4, 3, 6	0	7"				4		2" PVC 20-slot screen (4'-8')
6	8, 7, 3, 2		0"		SAND: Brown, semi-dense, saturated, fine-grained SAND; some silt; trace gravel		6		#0 Sand pack (2.5'-9')
8	2, 3, 7, 8	0	18"		SILT: Dark greenish gray, stiff, mottled, damp, SILT/CLAY; some areas look laminated; organics (roots and twigs) present		8		
10	3, 4, 6, 8	0	14"				10		8" diameter auger hole
12	4, 5, 8, 10	0	18"		SILT: Medium light gray, stiff, mottled, wet, SILT/CLAY		12		Bentonite chips (9'-22')
14	3, 6, 5, 5	0	16"		SILT: Medium light gray, stiff, saturated, SILT/CLAY; trace fine-grained SAND @16' thin layer of medium-grained SAND; trace gravel and silt		14		
16	4, 2, 5, 7	0	13"		SILT: Medium light gray, stiff, layered, saturated, SILT; little clay; some gravel at end of spoon		16		
18	11, 14, 16, 19	0	9"		SAND AND SILT: Medium light gray, very dense, saturated, medium-fine SAND and SILT; little gravel (till)		18		
20	18, 21, 18, 44	0	12"				20		
22							22		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-411

PROJECT INFORMATION

PROJECT:	***IBM-Endicott (Supplemental Groundwater Assessment)***
SITE LOCATION:	***IBM-Endicott***
JOB NO.:	***02007.33.0301***
LOGGED BY:	***Katie Tamulonis***
DATES DRILLED:	***09/10/2003***

DRILLING INFORMATION

DRILLING CO.:	***Parratt Wolff Inc.***
DRILLER:	***David Waris***
RIG TYPE:	***CME-75***
DRILLING METHOD:	***HSA***
DEVELOPMENT DATE:	***09/24/2003***
LOCATION:	***Wayne St. (in front of Bldg. #57)***

NOTES: TOC Elevation: 843.11 ft amsl

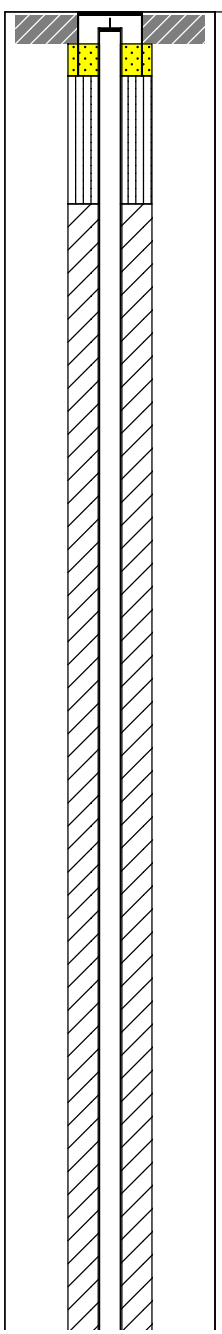
ELEVATION	843.84 ft amsl
EASTING	968777
NORTHING	768797

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	6, 8, 16, 14	0	10"		GRAVEL AND SAND: Brown, semi-dense, damp, GRAVEL and fine-medium-coarse-grained SAND; some silt		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Bentonite chips (1'-1.5') 2" PVC Riser (0.2'-3')
2	7, 8, 5, 7	0	9"		GRAVEL AND SAND: Light tan, semi-dense, damp, GRAVEL and fine-medium-grained SAND; some silt		2		
4	4, 3, 7, 8	0	15"		SAND SILT GRAVEL: Light tan, semi-dense, damp, GRAVEL,fine-medium-grained SAND and SILT; some coarse-grained sand SAND SILT GRAVEL: Light tan, semi-loose, damp, GRAVEL,fine-medium-grained SAND and SILT; some coarse-grained sand		4		8" diameter auger hole
6	5, 8, 18, 19	0	12"		SAND SILT GRAVEL: Light tan, semi-loose, saturated, GRAVEL,fine-medium-grained SAND and SILT; some coarse-grained sand SILT: Gray with tan, semi-loose, saturated, SILT/CLAY; some coarse-grained sand		6		#0 Sand pack (1.5'-10')
8	6, 15, 31, 50/0.1	0	12"		SILT: Gray, semi-dense, saturated, SILT/CLAY; some gravel (weathered bedrock?) SILT AND GRAVEL: Brown, dense, damp, SILT/CLAY and gravel (shale fragments)		8		2" PVC 10-slot screen (3'-10')
10	100/0.3		3"		SILT AND GRAVEL: Brown, dense, damp, SILT/CLAY and gravel (gray siltstone)		10		Bentonite chips (10'-14')
12	106/0.2		2"		WEATHERED BEDROCK: Gray, dense, saturated, SILTSTONE with SILT/CLAY		12		
14							14		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-412A

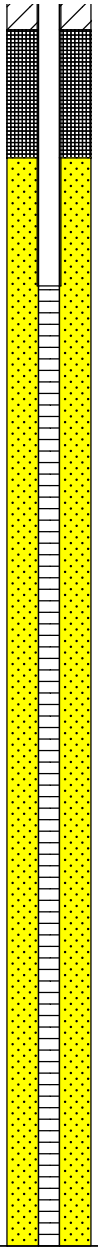
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/16/2003***	DEVELOPMENT DATE:	***09/21/2003***
		LOCATION:	***Delaware Ave. (south of Endicott Mechine & Tool Bldg)***
NOTES: TOC Elevation: 836.12 ft amsl		ELEVATION	836.50 ft amsl
		EASTING	968347
		NORTHING	767019

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 40' Refer to EN-412B log for soil descriptions		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3') 8" diameter auger hole Bentonite slurry (3'-21') 2" PVC riser (0.2'-25')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20					Refer to EN-412B log for soil descriptions		20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-412A

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22							22		Bentonite chips (21'-23')
24							24		#0 Sand pack (23'-40')
26							26		
28							28		
30							30		2" PVC 10-slot screen (25'-40')
32							32		
34							34		
36							36		
38							38		
40							40		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-412B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/05/2003***	DEVELOPMENT DATE:	***09/08/2003 and 09/11/2003***
		LOCATION:	***Delaware Ave. (south of Endicott Machine & Tool Bldg)***
NOTES: TOC Elevation: 835.65 ft amsl		ELEVATION	835.92 ft amsl
		EASTING	968345
		NORTHING	767028

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	15, 12, 13, 14	0	2"		ASPHALT: Unknown (no recovery)		0		4" Cement pad; 2" Well cap; Flushmount manhole
2	16, 16, 14, 10	0	4"		GRAVEL: Gray, semi-loose, saturated, GRAVEL (angular to subrounded); little coarse-grained sand		2		#0 Sand (0.3'-1'); Granular Bentonite
4	4, 5, 10, 8	0	12"		PEAT: Dark brown, loose, soft, wet, PEAT; trace coarse-grained sand and gravel		4		8" diameter auger hole
6	4, 2, 1, 2	0	17"				6		Bentonite slurry (3'-40')
8	1, 1, 2, 2	0	24"				8		
10	2, 2, 3, 3	0	22"				10		
12	3, 3, 3, 4	0	20"		SILT: Tanish gray, loose, very soft, organic, high plasticity, wet, SILT; trace coarse-grained sand, gravel and roots; SAND: Gray, loose, saturated, fine-medium grained SAND; PEAT: Dark brown, loose, soft, PEAT; trace gravel and medium-grained sand		12		
14	2, 2, 2, 2	0	21"		SAND: Gray, loose, saturated, fine-medium-grained SAND; some silt; SAND AND SILT: Gray, loose, soft, plastic, saturated, fine-grained SAND and SILT		14		2" PVC riser (0.2'-44')
16	2, 1, 1	0	24"		SAND: Gray, loose, saturated, fine-medium-grained SAND; some silt		16		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-412B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
18	2, 5, 8, 11, 10	0	24"		SAND AND SILT: Gray, loose, saturated, fine-grained SAND and SILT; little gravel SAND: Gray, loose, saturated, medium-coarse-grained SAND; little fine-grained sand and gravel; trace silt		18		
20	5, 6, 7, 8	0	19"		SAND: Gray, loose, saturated, fine-grained SAND; little gravel, medium-grained sand and silt		20		
22	7, 5, 7, 7	0	18"		SAND: Gray, semi-loose, saturated, fine-medium-grained SAND; little gravel and silt		22		
24	17, 16, 17, 14	0	18"				24		
26	6, 9, 6, 5	0	24"		GRAVEL: Gray, semi-loose, saturated, GRAVEL; little fine-medium-coarse-grained sand and silt SAND: Gray, semi-loose, saturated, medium-grained SAND; little fine-medium-grained sand; trace gravel		26		
28	9, 8, 8, 8	0	12"		SAND AND GRAVEL: Gray, loose, saturated, fine-medium-grained SAND and GRAVEL; trace silt SAND: Gray, semi-loose, saturated, medium-grained SAND; little gravel, fine-coarse-grained sand and silt		28		
30	8, 8, 9, 12	0	13"				30		
32	13, 13, 18, 16	0	14"		GRAVEL: Gray, semi-loose, saturated, GRAVEL; little silt and fine-medium-coarse-grained sand		32		
34	8, 8, 12, 14	0	6"				34		
36	9, 16, 13, 15	0	14"		SAND AND GRAVEL: Gray, semi-loose, saturated, fine-medium-grained SAND and GRAVEL; little coarse-grained sand		36		
38	8, 15						38		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-412B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	22 17	0	12"						
40	10 20 20 24	0	12"		GRAVEL: Gray, semi-loose, saturated, GRAVEL; some fine-medium-grained sand; little silt		40		Bentonite chips (40'-42')
42	11 18 16 14	0	15"				42		
44	12 16 14 12	0	7"		SAND AND GRAVEL: Gray, semi-loose, saturated, fine-medium-grained SAND and GRAVEL; little silt		44		
46	10 16 16 14	0	8"		SAND AND GRAVEL: Gray, semi-loose, saturated, medium-grained SAND and GRAVEL; little fine-grained sand; trace silt		46		#0 Sand pack (42'-59')
48	8 10 13 13	0	4"		SAND: Gray, semi-dense, saturated, medium-grained SAND; little to some gravel and fine-grained sand; trace silt		48		2" PVC 10-slot screen (44'-59')
50	8 11 11 11	0	7"				50		
52	9 8 8 11	0	13"		SAND: Gray, semi-dense, saturated, fine-medium-grained SAND; trace gravel and silt		52		
54	10 12 15 14	0	11"		SAND: Gray, semi-dense, saturated, fine-medium-grained SAND; little silt		54		
56	10 12 17 14	0	8"		SAND: Gray, semi-dense, saturated, fine-medium-grained SAND; little gravel and silt		56		
58	6 8		0"		Uknown (no recovery)		58		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-413

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/23/2003***	DEVELOPMENT DATE:	***09/24/2003***
		LOCATION:	***NW corner of E. Main St. and Kentucky Ave.***

NOTES: TOC Elevation: 861.29 ft amsl
Hand dug to 4'

ELEVATION	861.59 ft amsl
EASTING	968095
NORTHING	766632

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					ASPHALT		0		4" Cement pad
2		0			SAND SILT GRAVEL: Brown, loose, damp to wet, GRAVEL, fine-grained SAND and SILT/CLAY (fill)		2		2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3')
4	3 4 4 5		0"		Unknown (no recovery)		4		8" diameter auger hole
6	4 8 9 9	0	9"		SAND AND GRAVEL: Brown, loose, damp to wet, fine-medium-grained SAND and GRAVEL; some silt		6		Bentonite slurry (3'-33')
8	8 20 28 46	0	11"		SAND AND GRAVEL: Brown, semi-dense, damp to dry, fine-medium-grained SAND and GRAVEL; some silt		8		
10	30 44 50 50/0.2	0	14"		SAND AND GRAVEL: Brown, dense, dry, fine-medium-grained SAND and GRAVEL; little to some silt; trace coarse-grained sand		10		
12	32 39 32 28	0	18"				12		
14	35 46 30 28	0	15"				14		2" PVC riser (0.2'-37')
16	38 38 33 29	0	6"				16		
18	23 14				SAND: Brown, dense, dry, medium-grained SAND; little to some silt; little gravel and fine-grained sand		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-413

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	12 11	0	8"						
20	9 11 9 9	0	11"		SAND: Brown, semi-dense, damp, medium-grained SAND; little fine-grained sand; trace gravel and silt		20		
22	11 9 9 8	0	19"		SAND: Brown, semi-loose, damp, fine-medium-grained SAND; trace gravel		22		
24	14 21 18 16	0	13"		SAND AND GRAVEL: Brown, semi-dense, damp, fine-medium-grained SAND and GRAVEL; some silt; little coarse-grained sand		24		
26	16 16 15 18	0	8"				26		
28	15 18 16 20	0	3"				28		
30	15 32 21 23	0	11"		SAND AND GRAVEL: Brown, dense, damp, fine-medium-grained SAND and GRAVEL; some silt		30		
32	24 34 40 36	0	2"				32		
34	10 10 12 13	0	17"		SAND: Brown, semi-loose, damp to wet, fine-medium-grained SAND; little gravel		34		Bentonite chips (33'-35')
36	12 11 15 16	0	16"		SAND: Brown, semi-loose, damp, fine-medium-coarse-grained SAND; trace gravel Wet at shoe		36		#0 Sand pack (35'-55')
38	10 14 12 13	0	14"				38		
40	9 6 7 9	0	14"		SAND: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND; trace gravel and silt		40		
42	8 8						42		2" PVC 10-slot screen (37'-52')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-413

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	7 6	0	15"						
44	5 5 6 8	0	13"				44		
46	11 11 13 15	0	14"		SAND: Brown, semi-loose, saturated, fine-medium-grained SAND; trace to little silt; trace gravel and coarse-grained sand		46		
48	5 9 12 15	0	10"				48		
50	10 10 11 13	0	14"				50		
52	20 8 8 9	0	15"		SAND AND SILT: Gray, semi-loose, semi-soft, saturated, SILT and fine-grained SAND; laminae of clay		52		
54	6 6 8 11	0	10"		Pink laminae at 56'		54		Collapse to 52'
56	4 5 6 9	0	20"		green color at 57.5'		56		
58							58		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-414

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Ed Stoner***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/11/2003***	DEVELOPMENT DATE:	***09/24/2003***
		LOCATION:	***SE corner of Main St. and Jackson Ave.***
NOTES: TOC Elevation: 859.73 ft amsl		ELEVATION	860.28 ft amsl
		EASTING	967751
		NORTHING	766386

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					ASPHALT		0		4" Cement pad
		0			SAND AND GRAVEL: Dark brown, loose, damp, medium-grained SAND and GRAVEL; trace clay				2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite
2		0			SAND AND GRAVEL: Dark brown, semi-dense, damp, medium-grained SAND and GRAVEL; some silt		2		
4	5 4 5 4		0"		No recovery (unknown)		4		8" diameter auger hole
6	3 3 3 3	0	9"		SAND: Dark yellowish brown, loose, wet, medium-grained SAND; some gravel; trace silt		6		Bentonite slurry (3'-29.5')
8	6 4 3 2	0	2"				8		
10	2 5 10 11	0	3"		GRAVEL: Brown, loose, wet, GRAVEL; some sand; trace silt		10		
12	15 12 18 16	0	5"				12		
14	16 21 23 25	0	15"		SAND: Brown, dense, damp, medium-grained SAND; some gravel; trace silt and coarse-grained sand		14		2" PVC riser (0.2'-34.5')
16	33 32 31 28	0	17"				16		
18	18 27 37 40	0	15"				18		
20	25 50/0.2	0	8"		SAND: Brown, dense, damp, medium-grained SAND; some gravel and silt; trace coarse-grained sand		20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-414

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22	23, 22, 21, 16	0	18"		SAND: Brown, dense, damp, medium-grained SAND; some gravel; trace silt		22		
24	16, 15, 16, 18	0	18"		SAND: Brown, loose, damp, medium-grained SAND (well sorted)		24		
26	28, 26, 16, 14	0	4"		SAND: Brown, semi-dense, damp, fine-medium-grained SAND; some gravel; trace coarse-grained sand; 1" very fine-grained sand layer at 25.5'		26		
28	7, 7, 7, 9	0	14"		SAND: Brown, semi-dense, damp, fine-medium-grained SAND; trace silt and gravel		28		
30	7, 7, 21, 31	0	13"		SAND: Brown, semi-dense, damp, medium-grained SAND; trace coarse-grained sand slightly coarser at 31.5		30		Bentonite chips (29.5'-32.5')
32	32, 34, 36, 32	0	17"		SAND: Brown, dense, saturated, medium-grained SAND; some gravel; trace coarse-grained sand and silt		32		
34	22, 20, 20, 16	0	6"				34		#0 Sand pack (32.5'-44.5')
36	18, 14, 13, 10	0	0"				36		
38	4, 6, 6, 7	0	13"		SAND: Brown, semi-dense, saturated, medium-grained SAND; trace silt and gravel		38		
40	2, 3, 6, 7	0	22"				40		2" PVC 10-slot screen (34.5'-44.5')
42	6, 7, 9, 11	0	22"				42		
44	5, 12, 8, 9	0	16"		SAND: Brown, semi-dense, saturated, medium-grained SAND; some gravel, trace silt SILT: Moderate olive brown, stiff, saturated, SILT with pink laminea of clay		44		
46	11, 13, 17, 18	0	3"				46		Collapse to 44.5'
48							48		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-415

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Katie Tamulonis***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/10/2003***	DEVELOPMENT DATE:	***09/24/2003***
		LOCATION:	***SW corner of E. Main St. and Arthur Ave.***
NOTES: TOC Elevation: 858.92 ft amsl		ELEVATION	859.23 ft amsl
		EASTING	967421
		NORTHING	766202

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	4, 3, 3, 2	0	10"		SAND AND SILT: Brown, semi-dense, damp, fine-medium-grained SAND and SILT; little coarse-grained sand (topsoil)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3')
2	5, 4, 3, 3	0	11"		SAND AND GRAVEL: Brown, semi-loose, damp, medium-coarse-grained SAND and GRAVEL; some fine-grained sand; trace silt		2		
4	6, 8, 14, 16	0	11"		SAND AND GRAVEL: Brown, semi-dense, damp, medium-coarse-grained SAND and GRAVEL; some fine-grained sand; trace silt		4		8" diameter auger hole
6	12, 20, 21, 25	0	12"		SAND AND GRAVEL: Brown, semi-loose, damp, medium-coarse-grained SAND and GRAVEL; some fine-grained sand		6		Bentonite slurry (3'-30')
8	7, 6, 5, 5	0	11"				8		
10	5, 7, 7, 6	0	10"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL		10		
12	7, 6, 11, 15	0	9"		SAND: Brown, semi-dense, damp, fine-medium-grained SAND; some gravel; trace silt SAND AND GRAVEL: Brown, semi-dense, damp, fine-medium-grained SAND and GRAVEL; trace silt		12		
14	19, 31, 52, 47	0	8"				14		2" PVC riser (0.2'-34')
16	42, 50/0.4	0	6"		GRAVEL: Brown, loose, rounded, damp, GRAVEL; some fine-medium-grained sand		16		
18	20, 30, 25, 23	0	7"		GRAVEL: Brown, semi-loose, rounded, damp, GRAVEL; some fine-medium-grained sand		18		
20	16, 19				GRAVEL AND SAND: Brown, semi-loose, damp, GRAVEL and		20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-415

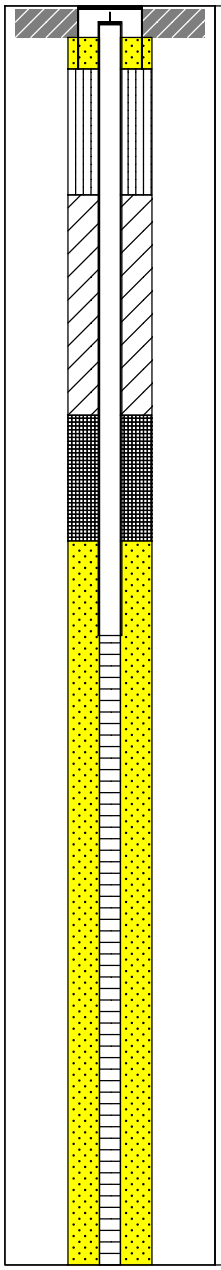
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22	22, 23	0	12"		fine-medium-coarse-grained sand; trace silt		22		
24	76	0	10"				24		
26	21, 34, 24, 21	0	21"				26		
28	17, 21, 22, 20	0	10"		SAND: Brown, semi-loose, damp, fine-medium-coarse-grained SAND; some gravel; trace silt		28		
30	10, 10, 9, 12	0	21"		SAND: Brown, semi-loose, damp, fine-medium-coarse-grained SAND; trace gravel and silt		30		
32	12, 16, 13, 13	0	15"				32		Bentonite chips (30'-32')
34	16, 29, 34, 31	0	14"				34		#0 Sand pack (32'-41')
36	21, 31, 34, 32	0	10"		SAND: Brown, semi-dense, damp, fine-medium-coarse-grained SAND; some gravel; trace silt		36		2" PVC 10-slot screen (34'-41')
38	19, 20, 24, 21	0	15"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL; trace silt		38		
40	7, 10, 20, 24	0	16"		SAND AND GRAVEL: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		40		
42	12, 27, 10, 12	0	14"		SAND AND GRAVEL: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; some silt		42		Bentonite chips (41'-46')
44	19, 22, 17, 19	0	10"		SILT: Tan, semi-dense, damp, SILT/CLAY		44		
46	7, 5, 7, 11	0	13"		SILT: Tan, semi-loose, damp, SILT/CLAY		46		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-416A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***Katie Tamulonis***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/09/2003***	DEVELOPMENT DATE:	***09/21/2003***
		LOCATION:	***4 Highland Ave.***
NOTES: TOC Elevation: 842.94		ELEVATION	843.11 ft amsl
		EASTING	968673
		NORTHING	767778

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 20' Refer to EN-416B log for soil descriptions		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3') 2" PVC riser (0.2'-10') Bentonite slurry (3'-6.5') Bentonite chips (6.5'-8.5') #0 Sand pack (8.5'-20') 8" diameter auger hole 2" PVC 10-slot screen (10'-20')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-416B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Dick Waris***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***Katie Tamulonis***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/08/2003***	DEVELOPMENT DATE:	***09/24/2003***
		LOCATION:	***4 Highland Ave.***
NOTES: NR = Not recorded TOC Elevation: 842.84 ft amsl		ELEVATION	842.99 ft amsl
		EASTING	968666
		NORTHING	767779

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	3, 4, 4, 4		5"		SAND AND SILT: Brown, semi-dense, damp, fine-medium-grained SAND and SILT; some gravel (topsoil)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	9, 7, 6, 7		3"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL; little silt		2		Granular Bentonite (1'-3')
4	5, 3, 8, 10		10"				4		8" diameter auger hole
6	10, 13, 9, 11		8"		SAND AND GRAVEL: Brown, semi-dense, cohesive, damp, medium-coarse-grained SAND and GRAVEL; little silt		6		Bentonite slurry (3'-21.5')
8	11, 8, 11, 12		12"		SAND AND GRAVEL: Brown, semi-loose, damp, medium-coarse-grained SAND and GRAVEL; little silt and fine-grained sand		8		
10	12, 10, 11, 12		10"				10		
12	7, 4, 4, 5		10"		SAND: Brown, semi-loose, saturated, medium-coarse-grained SAND; trace gravel and fine-grained sand		12		
14	8, 8, 11, 5		16"		SAND AND GRAVEL: Brown with 1" tan layers, semi-loose, saturated, medium-coarse-grained SAND and GRAVEL; trace fine-grained sand		14		2" PVC riser (0.2'-25')
16	13, 7, 9, 7		14"				16		
18	4, 7, 7, 9		12"		SAND: Brown with 1" tan layers, semi-loose, saturated, medium-coarse-grained SAND; trace fine-grained sand and gravel		18		
20	5, 3				SAND: Brown, semi-loose, saturated, medium-coarse-grained SAND; little		20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-416B

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	6 6		15"		fine-grained sand; trace gravel				
22	4 5 8 11		16"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; trace silt and gravel		22		Bentonite chips (21.5'-23.5')
24	7 7 9 11		15"				24		#00N Sand pack (23.5'-40')
26	5 6 8 9		23"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		26		
28	10 16 22 NR		3"				28		
30	13 14 17 14		2"		GRAVEL: Brown, loose, saturated, GRAVEL; some fine-medium-coarse-grained sand and silt		30		2" PVC 10-slot screen (25'-40')
32	14 12 11 10		13"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; trace silt and gravel		32		
34	11 6 7 8		17"				34		
36	8 8 11 16		19"		SAND: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND; little silt; trace gravel		36		
38	11 16 18 22		16"		SAND AND SILT: Brown, semi-dense, saturated, fine-medium-coarse-grained SAND and SILT		38		
40	18 17 21 20		12"		SILT AND GRAVEL: Gray, dense, saturated, SILT/CLAY and GRAVEL (angular), some fine-medium-coarse-grained sand		40		
42	12 15 31 50/0.1		9"				42		
44							44		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-417A

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***08/26/2003 and 08/27/2003***	DEVELOPMENT DATE:	***09/08/2003 and 09/09/2003***
		LOCATION:	***Adjacent to 11 Delaware Ave.***
NOTES: 840.60 ft amsl		ELEVATION	841.58 ft amsl
		EASTING	767637
		NORTHING	968310

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					CEMENT		0		4" Cement pad
	12, 9, 4	0	13"		SAND AND GRAVEL: Orangish brown, loose, damp, fine-grained SAND and GRAVEL; some silt/clay (fill)				2" Well cap Flushmount manhole #0 Sand (0.3'-1')
2	3, 4, 5, 5	0	7"		SAND AND SILT: Orangish brown, loose, soft, wet, fine-grained SAND and SILT; some gravel and medium-grained sand (fill)		2		Granular Bentonite (1'-3')
4	6, 7, 6, 6	0	5"				4		Bentonite chips (3'-6')
6	5, 2, 4, 11	0	9"		SILT AND GRAVEL: Orangish brown, loose, soft, damp, GRAVEL and SILT/CLAY; some medium-fine-grained sand		6		2" PVC riser (0.2'-8')
8	4, 3, 5, 3	0	9"				8		#0 Sand pack (6'-24')
10	5, 11, 12, 12	0	18"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little to some silt		10		2" PVC 10-slot screen (8'-23')
12	11, 18, 13, 11	0	17"				12		
14	9, 11, 16, 17	0	16"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace to little silt		14		8" diameter auger hole
16	8, 8, 14, 11	0	14"				16		
18	8, 11						18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-417A

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	13 16	0	12"						
20	8 9 10 16	0	12"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; little silt		20		
22	9 10 12 12	0	10"				22		
24	8 9 10 20	0	10"		SAND: Brown, semi-loose, saturated, fine-medium-coarse-grained SAND; little gravel; trace silt		24		
26	18 18 13 14	0	18"		SAND: Brown, dense, saturated, fine-medium-coarse-grained SAND; little gravel; trace silt		26		Bentonite chips (24'-61')
28	15 13 18 21	0	10"				28		
30	9 13 17 17	0	19"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND		30		
32	13 14 15 13	0	7"		SAND AND GRAVEL: Brown, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL; trace silt		32		
34	5 7 8 8	0	12"		SAND: Brown, dense, saturated, fine-medium-grained SAND; trace silt		34		
36	8 9 13 12	0	11"				36		
38	5 8 10 15	0	14"		SAND: Brown, semi-loose, saturated, fine-medium-grained SAND; trace silt		38		
40	8 10 11 13	0	12"				40		
42	9 11						42		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-417A

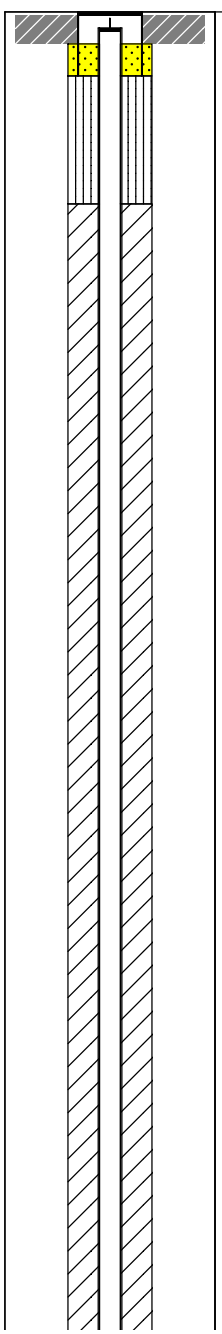
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	13 14	0	12"						
44	9 7 11 13	0	9"		SAND: Brown, semi-loose, saturated, fine-grained sand, trace silt		44		
46	6 7 8 9	0	14"				46		
48	7 11 11 13	0	17"				48		
50	4 7 7 7	0	13"				50		
52	7 8 9 12	0	16"				52		
54	7 6 11 14	0	19"				54		
56	5 6 6 10	0	17"				56		
58	8 8 11 15	0	18"				58		
60	5 5 5 8	0	19"				60		
62							62		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-417B

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Katie Tamulonis***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/12/2003***	DEVELOPMENT DATE:	***09/24/2003***
		LOCATION:	***Adjacent to 11 Delaware Ave.***
NOTES: TOC Elevation: 840.90 ft amsl		ELEVATION	841.21 ft amsl
		EASTING	968312
		NORTHING	767617

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 47' Refer to EN-417A log for soil descriptions		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3') 8" diameter auger hole Bentonite slurry (3'-28') 2" PVC riser (0.2'-32')
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-417B

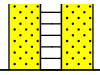
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22					Refer to EN-417A log for soil descriptions		22		
24							24		
26							26		
28							28		Bentonite chips (28'-30')
30							30		
32							32		#0 Sand pack (30'-47')
34							34		
36							36		2" PVC 10-slot screen (32'-47')
38							38		
40							40		
42							42		
44							44		

GROUNDWATER SCIENCES CORPORATION

***GEOLOGIC LOG:* EN-417B**

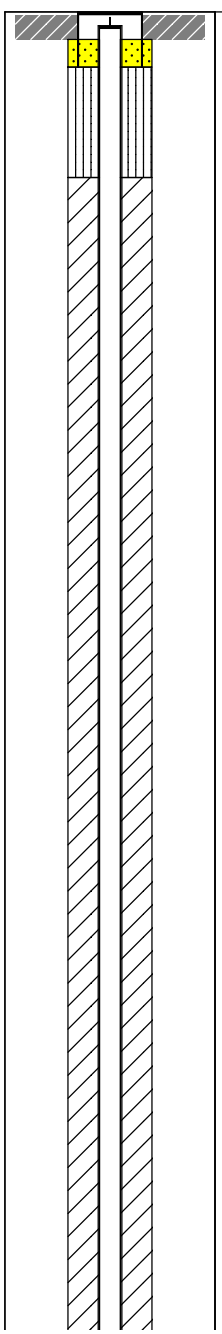
PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
46							46		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-417C

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***08/28/2003***	DEVELOPMENT DATE:	***09/08/2003, 09/09/2003, and 09/10/2003***
		LOCATION:	***Adjacent to 11 Delaware Ave.***
NOTES: TOC Elevation: 840.62 ft amsl		ELEVATION	841.39 ft amsl
		EASTING	767627
		NORTHING	968311

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 54' Refer to EN-417A for soil descriptions		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3') 2" PVC riser (0.2'-50') Bentonite Slurry (3'-46') 8" diameter auger hole
2							2		
4							4		
6							6		
8							8		
10							10		
12							12		
14							14		
16							16		
18							18		
20							20		
22							22		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-417C

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
24							24		
26							26		
28							28		
30							30		
32							32		
34							34		
36							36		
38							38		
40							40		
42							42		
44							44		
46							46		Bentonite chips (46'-48')
48							48		
50							50		
52							52		#00N Sand pack (48'-65')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-417C

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
54							54		
	4 5 6 5	6.3	2"		SAND: Brown, loose, saturated, fine-grained SAND; trace to littlesilt				
56	4 6 6 8	5.2	10"				56		2" PVC 10-slot screen (50'-65')
58	10 10 12 17	5.9	15"				58		
60	5 5 6 6	4.5	7"				60		
62	4 4 4 6	0					62		
64	8 14 12 16	0					64		
66	16 21 24 51	0			SILT: Gray, semi-dense, semi-stiff, saturated, SILT/CLAY; some medium-coarse-grained sand and gravel SILT: Gray, dense, stiff, wet, SILT/CLAY; some gravel (angular to subrounded); little coarse-grained sand		66		Collapse to 65'
68							68		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-418

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/22/2003***	DEVELOPMENT DATE:	***09/22/2003***
		LOCATION:	***NW corner of Richmond St. and Louisiana Ave.***
NOTES: TOC Elevation: 841.95		ELEVATION	842.39 ft amsl
		EASTING	969244
		NORTHING	766360

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	3, 10, 14, 18		11"		SAND AND SILT: Brown, semi-loose, damp, SILT/CLAY and fine-grained SAND (topsoil)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3')
2	22, 30, 33, 33		10"		SAND AND GRAVEL: Brown, semi-dense, dry, fine-grained SAND and GRAVEL; some medium-grained sand and silt		2		
4	23, 48, 37, 42		9"		SAND AND GRAVEL: Brown, dense, dry, fine-medium-grained SAND and GRAVEL; some silt		4		8" diameter auger hole
6	36, 41, 50		10"				6		Bentonite slurry (3'-15')
8	39, 38, 37, 36		14"		SAND AND GRAVEL: Brown, dense, damp, fine-medium-grained SAND and GRAVEL; little coarse-grained sand and silt		8		
10	30, 41, 44, 32		20"				10		
12	50, 50, 50, 51		11"				12		2" PVC riser (0.2'-19')
14	50, 35, 30, 31		14"				14		
16	28, 18, 15, 14		18"		SAND: Brown, dense, damp, fine-grained SAND; little medium-grained sand and gravel; trace silt		16		Bentonite chips (15'-17')
18	12, 12, 11, 12		0"		Unknown (no recovery)		18		#0 Sand pack (17'-24')
20	15, 11, 10, 9		15"		SAND: Brown, semi-dense, wet, fine-medium-grained SAND; little gravel; trace to little silt		20		
22	8, 8, 13, 15		16"		SAND: Brown, semi-dense, wet, fine-grained SAND; little silt; trace gravel		22		2" PVC 10-slot screen (19'-24')
24	4, 4, 4, 7		15"		SAND: Brown, semi-loose, wet, medium-grained SAND; little fine-grained sand; trace silt		24		Collapse to 24'
26	7, 9, 11, 12		23"		SILT: Brown to tan, pink laminae, saturated, SILT/CLAY; some fine-grained sand		26		
28							28		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-419

PROJECT INFORMATION

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***
SITE LOCATION: ***IBM-Endicott***
JOB NO.: ***02007.33.0301***
LOGGED BY: ***Jason Taylor***
DATES DRILLED: ***09/30/2003***

DRILLING INFORMATION

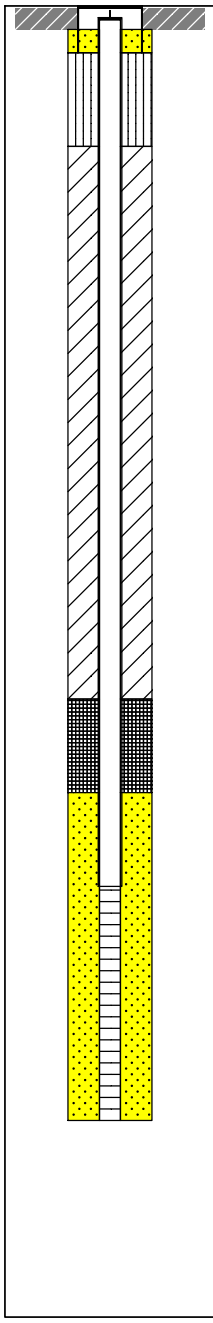
DRILLING CO.: ***Parratt Wolff Inc.***
DRILLER: ***Jim Hammond***
RIG TYPE: ***CME-55***
DRILLING METHOD: ***HSA***
DEVELOPMENT DATE:
LOCATION: ***North center of Parking lot between Grant and Garfield Ave.***

NOTES: TOC Elevation: 850.28 ft amsl
3" diameter split-spoons used

ELEVATION 850.65 ft amsl
EASTING 965924
NORTHING 767362

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION
0	4, 13, 11, 13	0	22"		SILT: Brown, semi-loose, semi-soft, damp, SILT/CLAY (topsoil)
					SAND SILT GRAVEL: Brown, semi-dense, damp, SILT, fine-grained SAND and GRAVEL; trace asphalt (fill)
2	13, 15, 10, 9	0	8"		
4	6, 12, 9, 6	0	15"		
6	6, 5, 23, 26	0	20"		FILL: Cinder, concrete, wood, coal, slag, ash; little medium-grained sand
8	17, 25, 30, 27	0	15"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL
10	23, 27, 33, 34	0	18"		GRAVEL: Loose, dry, GRAVEL SAND AND GRAVEL: Brown, loose, damp, fine-medium-grained SAND and GRAVEL; some silt
12	34, 44, 40, 53	0	20"		SAND AND GRAVEL: Brown, loose, damp, fine-medium-grained SAND and GRAVEL; little coarse-grained sand; trace silt
14	27, 40, 49, 28	0	23"		
16	22, 19, 16, 22	0	23"		SAND: Brown, semi-loose, damp, medium-grained SAND and GRAVEL; little fine-grained sand and gravel
18	8, 11, 11, 16	0	20"		SAND: Brown, loose, damp, fine-medium-coarse-grained SAND
20	13, 13, 10, 10	0	24"		SAND: Brown, loose, damp, fine-medium-grained SAND; little coarse-grained sand; trace gravel
22	6, 10, 26, 17	0	20"		SAND: Brown, loose, damp, fine-medium-coarse-grained SAND; trace gravel and silt SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; trace gravel
24	7, 9, 9, 11	0	20"		SAND AND GRAVEL: Gray, loose, saturated, fine-medium-coarse-grained SAND and GRAVEL
26	8, 8, 9, 10	0	19"		SAND AND SILT: Brown, semi-dense, saturated, SILT/CLAY and fine-grained SAND with pink laminae
28					

GRAPHIC



WELL CONSTRUCTION DETAILS

- 4" Cement pad
- 4" Well cap
- Flushmount manhole
- #0 Sand (0.3'-1')
- Granular Bentonite (1'-3')
- 10" diameter auger hole
- Bentonite slurry (3'-14.8')
- 4" PVC riser (0.2'-18.8')
- Bentonite chips (14.8'-16.8')
- #0 Sand pack (16.8'-23.8')
- 4" PVC 20-slot screen (18.8'-23.8')
- Collapse to 23.8'

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-420

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/26/2003***	DEVELOPMENT DATE:	
		LOCATION:	***SE corner of North St. and Grant Ave.***

NOTES: 3" diameter split-spoons used
No well constructed due to lack of groundwater above silt

ELEVATION	850.70 ft amsl
EASTING	966024
NORTHING	767400

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	10, 14, 13, 9	0	14"		SAND AND SILT: Dark Brown, semi-dense, damp, SILT/CLAY and fine-grained SAND (topsoil)		0		Topsoil (0.5'-0')
					SAND AND GRAVEL: Brown, semi-loose, damp, medium-grained SAND and GRAVEL; some silt and fine-grained sand; trace coal (fill)				Bentonite chips (0.5'-1')
2	7, 9, 8, 5	0	8"		GRAVEL: Gray, loose, dry, GRAVEL (angular to rounded), some medium-grained sand, little silt and fine-grained sand		2		
4	5, 4, 4, 5	0	15"		SAND AND GRAVEL: Brown, semi-loose, damp, medium-grained SAND and GRAVEL; some silt, fine-grained sand and coal (fill)		4		Bentonite slurry (1'-28')
6	4, 8, 5, 3	0	8"		SAND AND GRAVEL: Brown, semi-loose, damp, medium-grained SAND and GRAVEL; some silt, fine-grained sand; little wood, cinder and coal (fill)		6		10" diameter auger hole
8	5, 13, 13, 16	0	12"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL (subrounded); little silt		8		
10	12, 20, 21, 23	0	17"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL (subrounded); trace to little silt		10		
12	43, 30, 20, 18	0	13"				12		
14	17, 18, 35, 42	0	18"				14		
16	45, 53	0	11"				16		
18	12, 21				SAND AND GRAVEL: Brown, loose, damp, medium-grained SAND and GRAVEL; little fine-grained sand		18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-420

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	18 15	0	18"						
20	0 15 15 30	0	18"		SAND: Brown, loose, damp to wet, fine-medium-coarse-grained SAND; trace to little gravel		20		
22	33 53	0	6"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; little silt		22		
24	7 5 8 9	0	24"		SILT: Brown, dense, stiff, wet, SILT/CLAY with pink laminae		24		
26	3 5 7 8	0	24"		SILT: Greenish gray, loose, soft, saturated, SILT/CLAY with pink laminae		26		
28							28		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-421

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/29/2003***	DEVELOPMENT DATE:	
		LOCATION:	***North center of parking lot between Mckinley and Grant***

NOTES: TOC Elevation: 850.56 ft amsl
3" diameter split-spoons used

ELEVATION	850.99 ft amsl
EASTING	966133
NORTHING	767402

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	27, 12, 10, 8	0	8"		ASPHALT SAND AND GRAVEL: Black, loose, dry, fine-medium-coarse-grained SAND and GRAVEL; little silt		0		4" Cement pad 4" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3')
2	9, 5, 6, 7	0	8"		SAND AND SILT: Dark brown to gray, semi-loose, soft, damp, fine-grained SAND and SILT, little medium-grained sand and gravel; trace brick (fill)		2		
4	4, 4, 4, 5	0	8"		SAND SILT GRAVEL: Brown, semi-loose, soft, wet, fine-grained SAND, SILT and GRAVEL; little medium-grained sand; trace brick (fill)		4		10" diameter auger hole
6	12, 29, 21, 11	0	0"		Unknown (no recovery)		6		Bentonite slurry (3'-16')
8	12, 14, 9, 6	0	22"		SILT: Dark brown, loose, soft, damp to wet, SILT; little gravel FILL: Brick, wood and cinder SAND AND GRAVEL: Brown, loose, damp to wet, medium-coarse-grained SAND and GRAVEL; little to some silt		8		
10	6, 5, 6, 5	0	14"				10		
12	6, 6, 6, 4	0	15"		SAND AND GRAVEL: Brown, loose, damp, medium-grained SAND and GRAVEL; trace silt		12		4" PVC riser (0.2'-20')
14	18, 27, 42, 53	0	24"		SAND AND GRAVEL: Brown, dense, damp, fine-medium-grained SAND and GRAVEL; trace silt		14		
16	50/0.4	0			SAND AND GRAVEL: Brown, loose, damp, fine-medium-grained SAND and GRAVEL; little coarse-grained sand and		16		Bentonite chips (16'-18')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-421

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
			4"						
18	17, 15, 18, 15	0	24"		SAND: Brown, loose, damp, fine-medium-grained SAND; trace coarse-grained sand		18		
20	17, 25, 17, 14	0	15"				20		#0 Sand pack (18'-25.5')
22	8, 4, 14, 16	0	19"		SAND AND GRAVEL: Brown, loose, wet, fine-medium-coarse-grained SAND and GRAVEL; trace silt		22		
24	12, 12, 10, 12	0	24"		GRAVEL AND SAND: Brown to tan, saturated, GRAVEL and fine-grained SAND; some silt and medium-grained sand SAND AND SILT: Gray, loose, saturated, fine-grain SAND and SILT; some gravel SAND: Gray, semi-dense, damp, fine-medium-grained SAND; little coarse-grained sand and gravel		24		4" PVC 20-slot screen (20'-25')
26	8, 8, 4, 7	0	15"		SAND AND SILT: Brown to tan, semi-dense, stiff, saturated, SILT and fine-grain SAND with pink laminae SAND AND SILT: Grayish green, semi-dense, stiff, saturated, SILT and fine-grain SAND with pink laminae		26		Bentonite chips (25.5'-30')
28	4, 7, 7, 5	0	10"				28		
30							30		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-422

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***09/25/2003***	DEVELOPMENT DATE:	
		LOCATION:	***SW corner of North St. and McKinley Ave.***

NOTES: TOC Elevation: 851.86 ft amsl
3" diameter split-spoons used

ELEVATION	852.06 ft amsl
EASTING	966253
NORTHING	767425

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	7, 18, 16, 11	0	19"		SILT: Dark brown, semi-soft, semi-loose, damp, SILT/CLAY; trace fine-grained sand (fill)		0		4" Cement pad
					SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; little to some silt				4" Well cap
									Flushmount manhole
									#0 Sand (0.3'-1')
2	16, 13, 10, 8	0	13"		GRAVEL: Brown, semi-dense, damp, GRAVEL; some silt/clay, little fine-medium-grained sand (fill)		2		Granular Bentonite (1'-3')
4	29, 21, 12, 8	0	15"		GRAVEL: Brown, semi-loose, damp, GRAVEL; some silt and fine-medium-grained sand (fill)		4		10" diameter auger hole
6	9, 6, 7, 15	0	14"				6		Bentonite slurry (3'-16')
8	32, 50/0.3	0	7"		SAND AND GRAVEL: Brown, loose, damp, medium-coarse-grained SAND and GRAVEL; some silt		8		
10	21, 50/0.3	0	0"		Unknown (no recovery)		10		
12	16, 15, 25, 23	0	24"		SAND AND GRAVEL: Brown, semi-dense, damp, fine-grained SAND and GRAVEL; some silt and medium-coarse-grained sand		12		4" PVC riser (0.2'-20.5')
					SAND: Brown, semi-loose, damp to wet, fine-medium-coarse-grained SAND; little to trace gravel				
14	12, 17, 41, 40	0	22"				14		
					SAND AND GRAVEL: Brown, semi-dense, damp, fine-medium-grained SAND and GRAVEL; little coarse-grained sand; trace silt				
16	34, 44						16		Bentonite chips (16'-18')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-422

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	49 41	0	20"						
18	36 31 28 35	0	23"		SAND: Brown, semi-dense, damp, fine-grained SAND; some medium-grained sand; little silt; little to trace gravel		18		
20	14 16 21 26		21"				20		#0 Sand pack (18'-26')
22	23 21 16 14	0	17"		SAND: Brown, semi-dense, damp, fine-grained SAND; little medium-grained sand and silt		22		4" PVC 20-slot screen (20.5'-25.5')
24	8 8 5 13	0	19"		SAND AND GRAVEL: Grayish brown, semi-dense, damp, fine-medium-grained SAND and GRAVEL; trace silt SAND: Brown with gray layers, loose, saturated, medium-coarse-grained SAND; trace gravel		24		
26	9 8 9 11	0	20"		SAND: Brown, loose, saturated, very fine-fine-grained SAND; little to some silt; trace gravel SAND: Gray, loose, saturated, fine-medium-coarse-grained SAND; little gravel; trace silt		26		Bentonite chips (26'-32')
28	5 8 8 9	0	20"		SAND AND SILT: Grayish green, soft, saturated, SILT/CLAY and fine-grained SAND with pink laminae		28		
30	5 6 6 6	0	21"				30		
32							32		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-423

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***10/06/2003***	DEVELOPMENT DATE:	***NA***
		LOCATION:	***On Broad St. (on north side of Post office)***
NOTES: Soil boring (drilled to 18') 3" diameter split spoons used		ELEVATION	835.70 ft amsl
		EASTING	965429
		NORTHING	765769

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					ASPHALT		0		
	4 5 6		8"		SAND AND SILT: Brown, semi-loose, damp, medium-grained SAND and SILT; little gravel, trace wood (fill)				Cement (0'-1')
2	4 5 5 6		24"		SAND: Brown, semi-loose, damp, fine-medium-grained SAND; trace to little silt; trace gravel and trace wood		2		Granular bentonite (1'-3')
4	4 5 5 5		13"				4		8" diameter auger hole
6	5 6 6 6		24"				6		Bentonite slurry (3'-18')
8	6 6 8 8		18"		SAND: Brown, semi-loose, wet, fine-medium-grained SAND; little silt; trace gravel		8		
10	4 7 6 4		12"		SAND: Brown, semi-loose, saturated, fine-medium-grained SAND; little silt and coarse-grained sand		10		
12	2 11 8 11		20"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; little gravel		12		
14	5 7 7 9		24"		SAND AND SILT: Brown, semi-loose, saturated, SILT and fine-grained SAND with pink laminae		14		
16	6 8 8 10		24"		SAND AND SILT: Gray, semi-loose, saturated, SILT and fine-grained SAND with pink laminae		16		
18							18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-424

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Robertson***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***10/02/2003***	DEVELOPMENT DATE:	***NA***
		LOCATION:	***NE corner of Broad St. and Jefferson Ave.***
NOTES: Soil boring (drilled to 18') 3" diameter split spoons used		ELEVATION	833.70 ft amsl
		EASTING	964850
		NORTHING	765780

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	4 5 6 5	0	17"		SAND AND SILT: Dark Brown, semi-sense, damp, fine-grained SAND and SILT; little medium-grained sand (topsoil)		0		Topsoil (0'-0.5')
									#0 Sand (0.5'-1')
2	3 3 4 5	0	15"		SAND AND GRAVEL: Brown, semi-dense, damp, medium-grained SAND and GRAVEL; some silt and fine-grained sand		2		Granular bentonite (1'-3')
					SAND AND SILT: Brown, semi-loose, damp, fine-grained SAND and SILT; trace gravel and wood				
4	4 3 5 6	0	13"		SAND: Brown, semi-loose, damp, fine-medium-grained SAND; trace to little silt		4		8" diameter auger hole
6	5 5 6 5	0	21"				6		Bentonite slurry (3'-18')
8	5 5 4 5	0	12"		GRAVEL AND SAND: Brown, semi-loose, damp, GRAVEL and medium-grained SAND; little silt		8		
10	5 8 9 9	0	20"		GRAVEL: Brown, semi-loose, saturated, GRAVEL; some medium-coarse-grained sand		10		
					SAND AND SILT: Brown, semi-loose, saturated, SILT/CLAY and fine-grained SAND with pink laminae				
12	10 9 10 10		0"		Unknown (no recovery)		12		
14	7 8 8 7	0	24"		SILT: Gray, loose, soft, plastic, saturated, SILT/CLAY with pink laminae		14		
16	5 3 3 4	0	24"				16		
18							18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-425

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***Jim Hammond***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-55***
LOGGED BY:	***Jason Taylor***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***10/01/2003***	DEVELOPMENT DATE:	***NA***
		LOCATION:	***Broad St.***

NOTES: Soil boring (drilled to 32')
3" diameter spilt spoons used

ELEVATION	835.80 ft amsl
EASTING	964830
NORTHING	766069

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	5, 5, 6, 7	0	13"		SAND AND SILT: Dark brown, semi-loose, soft, damp, fine-grained SAND and SILT/CLAY; little gravel (topsoil)		0		Top soil (0'-0.5')
									#0 Sand (0.5'-1')
2	9, 7, 9, 8		0"		SAND AND GRAVEL: Brown, semi-loose, damp, fine-medium-grained SAND and GRAVEL; some silt Unknown (no recovery)		2		Granular bentonite (1'-3')
4	7, 10, 15, 17	0	17"		SAND AND GRAVEL: Brown, loose, damp to wet, fine-medium-coarse-grained SAND and GRAVEL; trace to little silt		4		
6	22, 22, 24, 25	0	21"				6		Bentonite slurry (3'-32')
8	20, 20, 24, 28	0	18"				8		
10	25, 30, 31, 25	0	20"				10		8" diameter auger hole
12	13, 11, 9, 11	0	20"		SAND: Brown, loose, damp, fine-medium-grained SAND; little coarse-grained sand; trace gravel		12		
14	7, 10, 11, 10	0	18"		SAND: Brown, loose, saturated, fine-medium-coarse-grained SAND; trace to little gravel		14		
16	11, 10, 20, 26	0	24"				16		
18	11, 12	0	24"				18		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-425

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	19 28								
20	8 14 9 9	0	15"				20		
22	9 20 22 23	0	14"		SAND: Brown; semi-loose, saturated; fine-grained SAND; some medium-grained sand; little silt		22		
24	16 17 19 42	0	8"				24		
26	20 23 25 28	0	8"		GRAVEL: Brown, semi-dense, saturated, GRAVEL; some silt and fine-medium-grained sand SILT: Brown to tan, semi-loose, soft, saturated, SILT/CLAY with pink laminae		26		
28	11 14 12 16	0	18"		SILT: Grayish green, semi-loose, soft, saturated, SILT/CLAY with pink laminae		28		
30	7 9 11 14	0	20"				30		
32							32		

GROUNDWATER SCIENCES CORPORATION

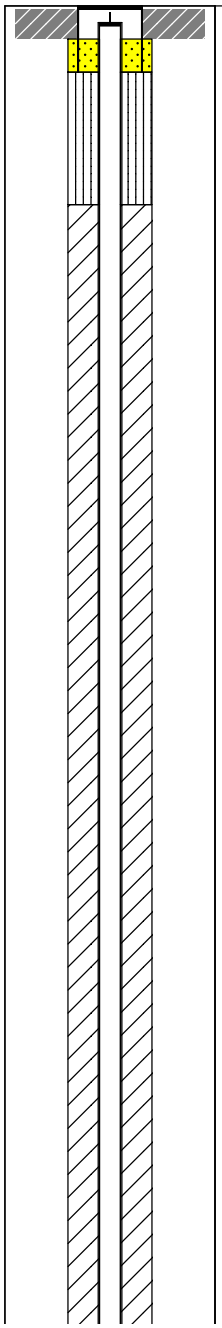
GEOLOGIC LOG: EN-426

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Ron Bush***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***IR-300***
LOGGED BY:	***Katie Tamulonis***	DRILLING METHOD:	***HSA***
DATES DRILLED:	***10/08/2003***	DEVELOPMENT DATE:	
		LOCATION:	***414 Arthur Ave.***

NOTES: TOC Elevation: 854.14 ft amsl
Static water level at 34.97' below top of casing on 10/09/03

ELEVATION	854.66 ft amsl
EASTING	967852
NORTHING	765506

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET
0	2, 2, 2, 3		5"		SAND AND SILT: Brownish black, semi-loose, damp, fine-medium-coarse-grained SAND and SILT; little gravel (topsoil)		0
2	3, 3, 4, 3		6"		SAND AND GRAVEL: Moderate brown, loose, damp, fine-medium-coarse-grained SAND and GRAVEL, some silt		2
4	4, 4, 9, 14		8"		GRAVEL AND SAND: Dark yellowish brown, loose, damp, GRAVEL and fine-medium-coarse-grained SAND; some silt		4
6	9, 14, 16, 20		15"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, damp, GRAVEL and fine-medium-coarse-grained SAND; little silt		6
8	20, 27, 35, 37		17"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, dry, GRAVEL and fine-medium-coarse-grained SAND; trace silt		8
10	29, 41, 50/0.3		15"				10
					Unknown (no recovery)		
12	26, 41, 50/0.4		14"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, dry, GRAVEL and fine-medium-grained SAND; trace silt		12
					Unknown (no recovery)		
14	29, 39, 34, 35		15"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, dry, GRAVEL and fine-medium-grained SAND; little silt		14
16	39, 44, 47, 52		16"				16
18	41, 46, 50/0.4		13"				18
					Unknown (no recovery)		



4" Cement pad

2" Well cap
Flushmount manhole

#0 Sand (0.3'-1')

Granular Bentonite (1'-3')

8" diameter auger hole

Bentonite slurry (3'-26')

2" PVC riser (0.2'-30')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-426

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	44, 62		14"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, dry, GRAVEL and fine-medium-grained SAND; little silt		20		
					Unknown (no recovery)				
22	48, 50/0.4		13"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, dry, GRAVEL and fine-medium-grained SAND; little silt		22		
					Unknown (no recovery)				
24	22, 20, 36, 42		16"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, damp, GRAVEL and fine-medium-grained SAND; little silt		24		
26	45, 41, 55/0.5		16"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, damp, GRAVEL and fine-medium-grained SAND; some silt		26		Bentonite chips (26'-28')
					Unknown (no recovery)				
28	20, 32, 28, 28		18"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, damp, GRAVEL and fine-medium-grained SAND; some silt		28		
30	32, 35, 46, 55		16"		GRAVEL AND SAND: Pale yellowish brown, semi-loose, damp, GRAVEL and fine-medium-grained SAND; some silt		30		#0 Sand pack (28'-40')
32	50, 41, 41, 37		15"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, damp, GRAVEL and fine-medium-grained SAND; some silt		32		
34	20, 20, 32, 22		14"		SAND AND GRAVEL: Dark yellowish brown, semi-loose, saturated, fine-medium-grained SAND and GRAVEL; some silt		34		2" PVC 10-slot screen (30'-40')
36	31, 25, 22, 26		17"				36		
38	9, 9, 10, 12		6"		SAND: Dark yellowish brown, loose, saturated, fine-medium-coarse-grained SAND; little gravel and silt		38		
40	6, 6, 5, 5		19"		SILT: Moderate yellowish brown, semi-dense, saturated, SILT; little fine-medium-grained sand		40		Bentonite chips (40'-44')
					SILT: Moderate yellowish brown, semi-dense, stiff, laminated, saturated, SILT with pink laminae				
42	5, 5, 5, 5		19"		SILT: Light olive gray, semi-dense, stiff, laminated, saturated, SILT with pink laminae		42		
44							44		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-427

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	*IBM/Endicott Supplemental Groundwater Assessment*	DRILLING CO.:	*Parratt Wolff Inc.*
SITE LOCATION:	*IBM-Endicott*	DRILLER:	*Ron Bush*
JOB NO.:	*02007.33.0301*	RIG TYPE:	*IR-300*
LOGGED BY:	*Katie Tamulonis*	DRILLING METHOD:	*HSA*
DATES DRILLED:	*10/09/2003*	DEVELOPMENT DATE:	
		LOCATION:	*1909 Tracy St.*
NOTES: TOC Elevation: 857.00 ft amsl		ELEVATION	857.18 ft amsl
		EASTING	967877
		NORTHING	765958

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	2, 2, 5, 4		9"		SAND AND SILT: Dusky yellowish brown, loose, damp, fine-medium-grained SAND and SILT; trace gravel (subangular)		0		4" Cement pad 2" Well cap Flushmount manhole #0 Sand (0.3'-1') Granular Bentonite (1'-3')
2	5, 4, 5, 4		8"		SAND AND GRAVEL: Dark yellowish brown, semi-loose, damp, fine-medium-coarse-grained SAND and GRAVEL (subrounded); some silt		2		
4	2, 2, 2, 2		10"		SAND: Dark yellowish brown, semi-loose, damp, fine-medium-grained SAND; some silt; little gravel (subrounded)		4		8" diameter auger hole
6	2, 2, 4, 2		7"		GRAVEL AND SAND: Moderate yellowish brown, semi-loose, damp, GRAVEL (subrounded) and fine-medium-grained SAND; trace coarse-very fine-grained sand and silt		6		Bentonite slurry (3'-26')
8	2, 3, 2, 3		9"		GRAVEL AND SAND: Moderate yellowish brown, semi-loose, wet, GRAVEL (subrounded) and fine-medium-grained SAND; trace coarse-very fine-grained sand and silt		8		
10	2, 2, 1, 2		8"		GRAVEL AND SAND: Moderate yellowish brown, semi-loose, damp, GRAVEL (subrounded) and fine-medium-grained SAND; little silt		10		
12	2, 2, 1, 1		6"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, damp, GRAVEL (subrounded) and fine-medium-grained SAND; trace silt		12		
14	3, 1, 1, 1		2"				14		2" PVC riser (0.2'-30')
16	1, 2, 1, 1		10"		GRAVEL AND SAND: Dark yellowish brown, semi-loose, wet, GRAVEL (subrounded) and fine-medium-grained SAND; trace silt		16		
18	1, 2, 1, 1		11"				18		
20	1, 2, 2, 2		3"				20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-427

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22	2, 2, 2, 3		10"				22		
24	11, 10, 6, 8		10"		SAND AND GRAVEL: Dark yellowish brown, loose, wet, fine-medium-grained SAND and GRAVEL (subrounded); little silt		24		
26	9, 13, 17, 20		12"		GRAVEL AND SAND: Moderate yellowish brown, semi-loose, damp, GRAVEL and fine-medium-grained SAND; little silt		26		Bentonite chips (26'-28')
28	30, 34, 38, 41		17"				28		
30	26, 30, 34, 39		20"		GRAVEL AND SAND: Moderate yellowish brown, semi-dense, dry, GRAVEL and fine-medium-grained SAND; trace silt		30		
32	65, 70		11"				32		
					No recovery (unknown)				2" PVC 10-slot screen (30'-45')
34	9, 6, 6, 10		10"		SAND: Dusky yellowish brown, loose, damp, fine-medium-grained SAND; little gravel (subrounded)		34		
36	19, 15, 15, 16		17"		SAND: Dusky yellowish brown, loose, saturated, fine-medium-grained SAND; little gravel (subrounded)		36		
38	15, 17, 15, 16		15"		GRAVEL AND SAND: Dark yellowish brown, loose, saturated, GRAVEL and fine-medium-grained SAND; trace silt		38		#0 Sand pack (30'-45')
40	7, 11, 32, 27		22"		SAND: Dark yellowish brown, loose, saturated, fine-medium-grained SAND; trace gravel (rounded) and silt		40		
42	10, 12, 14, 15		18"		GRAVEL AND SAND: Dark yellowish gray, semi-loose, saturated, fine-medium-grained SAND and GRAVEL (subrounded); trace silt		42		
44	13, 22, 25, 18		19"				44		
46	17, 17, 17, 20		10"		SILT: Moderate yellowish brown, dense, stiff, laminated, saturated, SILT with pink laminae; trace fine-medium-grained sand		46		Bentonite chips (45'-48')
48					SILT: Dusky yellow, dense, stiff, laminated, saturated, SILT with pink laminae		48		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D30

PROJECT INFORMATION

PROJECT:	***IBM Endicott Supplemental Groundwater Assessment***
SITE LOCATION:	***Endicott, New York***
JOB NO.:	***02007.33.0301***
LOGGED BY:	***S. Fisher***
DATES DRILLED:	***9/2/03 - 9/5/03***

DRILLING INFORMATION

DRILLING CO.:	***Parratt Wolff Inc.***
DRILLER:	***G. Lansing***
RIG TYPE:	***CME-75***
DRILLING METHOD:	***HSA and Mud Rotary***
DEVELOPMENT DATE:	***9/30/03***
LOCATION:	***Adjacent to EN-80, west of Adams St.***

NOTES: Deep monitoring well
SWL = 35.05 ft below TOC, 9/9/03
TOC elevation: 848.01 ft amsl

ELEVATION	848.29 ft amsl
EASTING	967027.00
NORTHING	767015.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	AUGERED to 22 feet				ASPHALT: pavement with gravel base		0		Flushmount manhole 2" locking well cap
2							2		
					SAND & GRAVEL: mod. brown (5 YR 4/6) silty vf-m w/ c-vc, f-m gravel, moist, sandy below 8 ft, pred m w/ c, some vf-f				
4							4		10" dia. HSA borehole (0'-37')
6							6		
8							8		Portland cement 6" x 10" annular seal (0.5'-37')
10							10		
12							12		6" dia. steel well casing (0.5'-37')
14							14		
16							16		Bentonite slurry 2" x 6" annular seal (0.5'-84')
18							18		
20							20		2" dia. sch. 40 PVC riser (0.25'-88')
22	10 6				SAND & GRAVEL: dk yell brown to med gray, f-c w/ vf, tr silt, w/ f-m grvl		22		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D30

PROJECT: ***IBM Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	5 4		11"	1	SILT: lt olive gray (5 Y 5/2) turning dusky yellow (5 Y 6/4) laminated, dense, tr. vf sand, sl plastic				
24					SILT: as above		24		
	AUGERED to 38 feet								10" dia. HSA borehole (0'-37')
26							26		
28							28		
30							30		Portland cement 6" x 10" annular seal (0.5'-37')
32							32		
34							34		6" dia. steel well casing (0.5'-37')
36							36		
38	5 6 6 6		0"	2	SILT: as above		38		Bentonite slurry 2" x 6" annular seal (0.5'-84')
40	4 3 3 3		18"	3	SILT: dusky yellow to lt olive gray (5 Y 6/1) w/ zones of vf sand, sl flowing in sandy layers, pink clay laminations throughout, sl. plastic, dense		40		2" dia. sch. 40 PVC riser (0.25'-88')
42	2 3 3 4		16"	4	SILT: as above w/ pink clay laminations		42		
44	3 2 2 3		15"	5	SILT: some vf sand, 0.5" pink clay layer at 8", laminated, softer		44		Portland cement 4" x 6" annular seal (0.5'-65')
46	4 3 3 3		16"	6	SILT: incr stiffness, pink clay laminations common		46		
48	3 3 2 2		23"	7	SILT: several thick pink clay laminations, some vf sand, stiff, sl flowing in sandy layers		48		6" dia. mud rotary borehole (37'-103')
50	2 1		10"	8	SILT: as above, w/ pink clay laminations, wet		50		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D30

PROJECT: ***IBM Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
52	1 4						52		
	4 4 3 2		14"	9	SILT: as above, w/ pink clay laminations				
54	3 3 3 3		24"	10	SILT: tr vf sand, cohesive, stiff, with pink clay laminations		54		6" dia. mud rotary borehole (37'-103')
56	3 4 4 6		17"	11	SILT: pink clay layers 5-6", 13-13.5"tr vf sand, stiff, dense		56		
58	3 4 6 6		13"	12	SILT: as above, pink clay laminations 6-8"		58		
60	3 4 6 6		14"	13	SILT: pink clay varves 8-9", and 13-14", dense, stiff		60		Bentonite slurry 2" x 6" annular seal (0.5'-84')
62	5 5 6 8		20"	14	SILT: pink varves 6-7", and 17-19", well laminated		62		
64	2 3 5 5		22"	15	SILT: pink varves0-1" and 18-19", lit vf sand 5"-16", sl flowing, stiff, wet		64		2" dia. sch. 40 PVC riser (0.25'-88')
66	6 6 9 9		20"	16	SILT: lit vf sand throughout, more olive gray color, some pink clay laminations SAND & SILT: olive gray silt and vf sand, sl laminated, cohesive to sl flowing		66		
68	5 6 7 8		14"	17	SAND & SILT: as above		68		
70	4 5 8 9		22"	18	SAND & SILT: as above with pink clay varves, sl flowing, wet		70		6" dia. mud rotary borehole (37'-103')
72	7 8 10 11		16"	19	SAND & SILT: as above		72		
74	2 5 12 19		10"	20	SAND & SILT: as above, pred silt, tr vf sand, soft, wet SILT, SAND & GRAVEL: lt olive gray, pred silt matrix, lit vf-f, tr m-vc, w/ f-m SA-R shale gravel, cohesive, wet		74		Bentonite slurry 2" x 4" annular seal (0.5'-99')
76	9 10 16 21		8"	21	SILT, SAND & GRAVEL: pred silt matrix w/ lit vf sand, tr. f-vc, A-SR shale gravel, incr hardness with depth, wet		76		
78	27 30 54		17"	22	SILT, SAND & GRAVEL: 80% silt matrix, tr vf sand, tr f-m shale rock fragments, hard, dense SAND & SILT		78		

GROUNDWATER SCIENCES CORPORATION

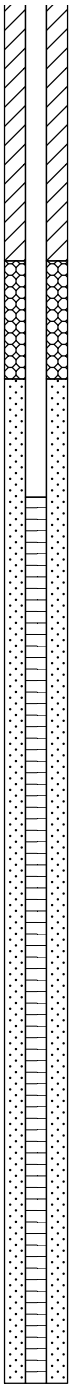
GEOLOGIC LOG: EN-D30

PROJECT: ***IBM Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
80	70					
	70/.5'		6"	23	SILT, SAND & GRAVEL: pred large weathered shale fragments, some silt matrix, hard	2" dia. sch. 40 PVC riser (0.25'-88')
	ROLLERBIT					
82	38, 40, 50, 57		18"	24	SILT, SAND & GRAVEL: as above at top then softer w/ sl incr. in vf sand	
84	21, 26, 33, 37		11"	25	SILT, SAND & GRAVEL: dense, stiff, increasing weathered shale fragments	Bentonite chips (84'-86')
86	20, 34, 46, 52		16"	26	SILT, SAND & GRAVEL: very rocky top 10", then incr matrix	
88	40, 65		12"	27	SILT, SAND & GRAVEL: as above, v. dense	
	ROLLERBIT					
90	80/.5'		6"	28	SILT, SAND & GRAVEL: as above	#00N Sand pack (101'-118')
	ROLLERBIT					
92	75/.5'		6"	29	SILT, SAND & GRAVEL: pred weathered rock, hard, wet	
	ROLLERBIT					
94	70/.5'		4"	30	SILT, SAND & GRAVEL: hard, stiff, 60% matrix	
	ROLLERBIT					
96	25, 34, 65		12"	31	SILT, SAND & GRAVEL: v. dense, stiff	
	ROLLERBIT					
98	48, 50/.1'		6"	32	SILT, SAND & GRAVEL: v. dense, large fractured rock fragments	2" PVC 10-slot screen (88'-103')
	ROLLERBIT					
100	60/.5'		6"	33	SILT, SAND & GRAVEL: v. hard, dense, 50% matrix	
	ROLLERBIT				SHALE: dk gray fractured shale, tr. silt, cohesive, very hard at 103 ft	
102	50/.2'		2"	34		
	ROLLERBIT					
	50/.1'		1"	35		
104						

GRAPHIC

WELL CONSTRUCTION



GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D31

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***Endicott, New York***	DRILLER:	***G. Lansing***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***CME-75***
LOGGED BY:	***S. Fisher***	DRILLING METHOD:	***HSA and Mud Rotary***
DATES DRILLED:	***8/6/03 - 8/14/03***	DEVELOPMENT DATE:	***9/14/03***
		LOCATION:	***Columbus St., adjacent to 214A & 214B***

NOTES: Deep monitoring well
TOC elevation: 846.15 ft amsl

ELEVATION	846.45 ft amsl
EASTING	966710.00
NORTHING	766178.00

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0	AUGERED to 48 feet				TOPSOIL		0		Flushmount manhole
					SAND & GRAVEL: (See log for EN-214B for soil description details 0'-50')				2" locking well cap
2							2		
4							4		
									10" dia. HSA borehole
6							6		
									Portland cement 6" x 10" annular seal (0.5'-55')
8							8		
10							10		6" dia. steel well casing (0.5'-55')
12							12		Portland cement 4" x 6" annular seal (0.5'-65')
14							14		
									4" dia. steel well casing (0.5'-65')
16							16		
									Bentonite slurry 2" x 4" annular seal (0.5'-99')
18							18		
20							20		2" dia. sch. 40 PVC riser (0.25'-103')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D31

PROJECT: ***IBM Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22							22		
24							24		10" dia. HSA borehole
26							26		Portland cement 6" x 10" annular seal (0.5'-55')
28							28		
30							30		6" dia. steel well casing (0.5'-55')
32							32		
34							34		Portland cement 4" x 6" annular seal (0.5'-65')
36							36		4" dia. steel well casing (0.5'-65')
38							38		
40							40		Bentonite slurry 2" x 4" annular seal (0.5'-99')
42							42		
44							44		2" dia. sch. 40 PVC riser (0.25'-103')
46							46		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D31

PROJECT: ***IBM Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	WELL CONSTRUCTION DETAILS
48						
	9 7 7 9		2"	1	SAND & GRAVEL: dk yellow brown sand and gravel	10" dia. HSA borehole
50	7 7 7 8		24"	2	SILT: mod. yell. brown (10 YR 5/4) to dusky yellow (5 Y 6/4), tr. clay, laminated, occ pale red (10 R 6/2) varve, dense, wet	Portland cement 6" x 10" annular seal (0.5'-55')
52	AUGERED to 55 feet				SILT: as above	6" dia. steel well casing (0.5'-55')
54						
56	1 2 3 3		9"	3	SILT: as above, with pink varves in top 2"	
58	5 5 7 10		21"	4	SILT: as above, finely laminated	Portland cement 4" x 6" annular seal (0.5'-65')
	ROLLERBIT				SILT	
60	SHELBY TUBE		13"	ST-1	SILT: as above, some vf-f sand, tr fine gravel	4" dia. steel well casing (0.5'-65')
	ROLLERBIT				SILT: as above, turning lt olive gray color, tr gravel w/ sand at 62'	
62	2 2 3 5		14"	5	SANDY SILT: olive gray (5 Y 4/1) laminated with vf sand and clay varves, cohesive, sl flowing in sandy layers	
64	ROLLERBIT				SANDY SILT: as above	
66	WOH/1' 2 2		13"	6	SANDY SILT: dusky yell to mod yellow brown silt w/ vf sand, faintly laminated, tr f-c sand, wet	4" dia. mud rotary borehole (65'-118')
68	2 12 7 5		20"	7	SANDY SILT: as above, pred olive gray, laminated, pred vf sand w/ silt lams lower 16"	
	6 6		5"	8	SANDY SILT: as above	Bentonite slurry 2" x 4" annular seal (0.5'-99')
70	6 10 15 18		17"	9	SANDY SILT: olive gray vf sand and silt, occ. pale red clay laminations	
72	5 8 13		12"	10	SANDY SILT: as above, pale red clay laminations absent	2" dia. sch. 40 PVC riser (0.25'-103')

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D31

PROJECT: ***IBM Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
74	15								
	8, 16, 16, 19		13"	11	SANDY SILT: pred vf sand and silt, tr clay laminations		74		
76	8, 12, 13, 16		15"	12	SANDY SILT: pred vf sand with silt, trace fine sand, cohesive, sl. flowing. 0.5" red shale pebble at 2"		76		4" dia. mud rotary borehole (65'-118')
78	12, 22, 22, 18		13"	13	SANDY SILT: pred silt, some vf sand top 5", tr clay laminations, sandy at bottom		78		
80	4, 7, 11, 15		18"	14	SANDY SILT: pred vf sand, some fine, w/ silt, tr laminations		80		Bentonite slurry 2" x 4" annular seal (0.5'-99')
82	12, 16, 20, 22		13"	15	SANDY SILT: stiff olive gray silt top 5", then vf sand w/ silt below, tr fine sand		82		
84	3, 8, 13, 9		6"	16	SANDY SILT: pred vf sand , tr fine, w/ silt, faint cross-lamination at top		84		2" dia. sch. 40 PVC riser (0.25'-103')
86	9, 16, 15, 19		8"	17	SANDY SILT: pred vf sand w/ silt, tr fine		86		
88	12, 16, 21, 28		8"	18	SANDY SILT: vf-f sand, some silt, sl more gray color at bottom, wet		88		
90	7, 4, 6, 13		18"	19	SANDY SILT: as above		90		
92	9, 14, 17, 23		11"	20	SILT: olive gray, laminated, some vf sand layers, occ pink clay lamination, stiff, wet		92		
94	13, 24, 26, 34		6"	21	SILT, SAND & GRAVEL: olive gray matrix of silt, some vf sand, tr f-vc sand w/ f-c SA-SR siltstone gravel, dense, stiff, wet		94		
96	12, 31, 43, 46		13"	22	SILT, SAND & GRAVEL: dense, stiff, slight medium gray color		96		
98	43, 50, 51		10"	23	SILT, SAND & GRAVEL: v. dense, more dark gray color, stiff, moist		98		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D31

PROJECT: ***IBM Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
100	50/.4'						100		
	42 51 50/.4'		13"	24	SILT, SAND & GRAVEL: v. dense, stiff, moist				Bentonite chips (99'-101')
	ROLLERBIT								
102	73		5"	25	SILT, SAND & GRAVEL: as above with large silstone fragments, dense		102		
	ROLLERBIT								
104	74		6"	26	SILT, SAND & GRAVEL: as above, dense		104		
	ROLLERBIT								4" dia. mud rotary borehole (65'-118')
106	26 43 41 21		15"	27	SILT, SAND & GRAVEL: as above, dense, stiff 0-8", then more sandy and slightly crumbly		106		
108	12 29 31 44		11"	28	SILT, SAND & GRAVEL: v. dense, silt binder, pred. wthrd siltstone frags. 5"-9", silt bound gravel at bottom, dense, moist, wet in broken rock zone		108		
110	33 41 44 49		5"	29	SILT, SAND & GRAVEL: as above, very rocky (90% broken shale frags.), some silt binder		110		#00N Sand pack (101'-118')
112	81		4"	30	SILT, SAND & GRAVEL: as above large siltstone fragment at bottom		112		
	ROLLERBIT								
114	34 56 50/.3'		9"	31	SILT, SAND & GRAVEL: as above with less wthrd rock frags., incr silt binder, moist to wet		114		2" PVC 10-slot screen (103'-118')
	ROLLERBIT								
116	86		5"	32	SILT, SAND & GRAVEL: predominantly wthrd rock fragments, some binder, wet		116		
	ROLLERBIT								
118	100/.1'		0"	33	SHALE: dk gray shale		118		
120							120		

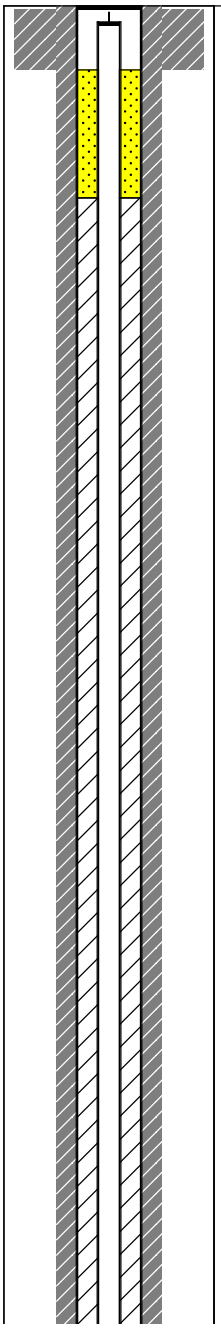
GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D32

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	***IBM/Endicott Supplemental Groundwater Assessment***	DRILLING CO.:	***Parratt Wolff Inc.***
SITE LOCATION:	***IBM-Endicott***	DRILLER:	***Dick Waris***
JOB NO.:	***02007.33.0301***	RIG TYPE:	***IR-300***
LOGGED BY:	***Katie Tamulonis***	DRILLING METHOD:	***HSA and mud rotary***
DATES DRILLED:	***09/23/2003 to 10/03/2003***	DEVELOPMENT DATE:	
		LOCATION:	***NW corner of Tracy St. and Delaware Ave.***

NOTES: TOC Elevation: 837.82
Static water level at 30.61 below top of casing on 10/08/03

ELEVATION	838.34
EASTING	968491
NORTHING	766340

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0					Augered to 39' Refer of EN-308 log for soil descriptions		0		1' Cement pad 2" Well cap Flushmount manhole #0 Sand 1'-3')
2							2		
4							4		12" diameter auger hole (0'-62')
6							6		Bentonite slurry (3'-101')
8							8		
10							10		6" diameter steel casing
12							12		Cement between casing and soil (0-62')
14							14		2" PVC riser (0.2'-105')
16							16		
18							18		
20							20		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D32

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
22							22		
24							24		
26							26		
28							28		
30							30		
32							32		
34							34		
36							36		
38							38		
40	7 7 8 12		15"		SAND: Dark yellow brown, loose, saturated, fine-medium-grained SAND; some silt		40		
42	6 8 11 15		14"				42		
44	9 12 12 14		14"		SILT: Moderate olive brown, semi-dense, saturated, SILT; little clay SILT: Light olive gray; dense, moderate laminea saturated, SILT		44		
46					Start mud rotary, no samples taken from 45' to 62'		46		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D32

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
46							46		
48							48		
50							50		
52							52		
54							54		
56							56		
58							58		
60							60		
62	6 7 10		16"		SILT: Light olive gray; dense, stiff, saturated, SILT with laminae; some clay		62		
64	14 20 27 36		14"		SILT: Light olive gray; dense, stiff, saturated, SILT with moderate red laminae; some clay		64		6" mud rotary hole (62'-138')
66	9 13 15 21		12"				66		
68	15 23 27 28		15"				68		
70	13 9 12		18"		SILT: Light olive gray; dense, stiff, saturated, SILT; some clay		70		

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
72	15						72		
	15								
	14								
	18		15"						
	20								
74	13				SILT: Light olive gray; dense, stiff, saturated, SILT with moderate red laminae; some clay		74		
	17								
	19		19"						
	22								
76	10						76		
	10								
	10		17"						
	14								
78	10						78		
	12								
	20		17"						
	29								
80	10						80		
	13								
	24		21"						
	21								
82	9						82		
	12								
	15		16"						
	23								
84	10				SILT: Light olive gray; dense, stiff, saturated, SILT; some clay		84		
	14								
	18		21"						
	24								
86	10						86		
	14								
	17		15"						
	21								
88	13				SILT: Light olive gray; dense, stiff, saturated, SILT with moderate red laminae; some clay		88		
	20								
	20		18"						
	23								
90	12						90		
	16								
	16		18"						
	16								
92	22				SILT: Light olive gray; dense, laminated, saturated, SILT; some clay and very fine-grained sand		92		
	28								
	31		15"						
	35								
94	11				SILT: Light olive gray; dense, laminated, saturated, SILT with moderate red laminae; some clay and very fine-grained sand		94		
	15								
	15		21"						
	19								
96	5				SAND: Medium dark gray, semi-loose,		96		

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	8, 10, 12		12"		saturated, fine-medium-grained SAND; SAND: Medium dark gray, semi-loose, saturated, fine-medium-grained SAND; some silt; trace gravel (subrounded)				
98	14, 28, 60		13"		SAND: Medium dark gray, semi-loose, saturated, fine-medium-grained SAND; little silt; trace gravel (subrounded)		98		
100	18, 21, 13		10"		GRAVEL: Medium dark gray, dense, saturated, GRAVEL; some fine-medium-grained sand and silt; Roller bit/No sample (unknown); SAND: Medium dark gray, dense, saturated, fine-medium-grained SAND; some silt; trace gravel (subrounded)		100		
102	24, 42, 54		12"		SILT: Light olive gray; semi-dense, laminated, saturated, SILT with moderate red laminae		102		Bentonite chips (101'-103')
104	34, 18, 17, 23		16"		SAND AND GRAVEL: Medium dark gray, semi-loose, saturated, fine-medium-coase-grained SAND and GRAVEL; some silt; SAND SILT GRAVEL: Medium dark gray, dense, saturated, fine-medium-coase-grained SAND, GRAVEL and SILT		104		#00N Sand pack (103'-121')
106	18, 20, 20, 20		18"		Roller bit/No sample (unknown); SAND: Medium dark gray, semi-dense, saturated, fine-medium-grained SAND; little silt		106		
108	23, 34, 37, 40		17"		SAND: Grayish brown, semi-dense, saturated, fine-medium-grained SAND; little silt; SAND: Grayish brown, semi-dense, saturated, fine-medium-grained SAND; some silt		108		2" PVC 10-slot screen (105'-120')
110	19, 26, 20, 23		17"				110		
112	27, 39, 40, 42		15"		SAND: Dark yellowish brown, semi-dense, saturated, fine-medium-grained SAND; some silt		112		
114	19, 23, 26, 29		17"		SAND: Dark yellowish brown, semi-dense, saturated, fine-medium-grained SAND; some silt; trace gravel (subrounded)		114		
116	17, 30, 28, 39		16"				116		
118	32, 49, 47, 57		17"		SAND: Dark yellowish brown, semi-dense, saturated, fine-medium-grained SAND; little coarse-grained sand and silt; trace gravel (subrounded)		118		
120	23, 25, 25, 25		19"				120		Bentonite chips (121'-122')
122							122		

GROUNDWATER SCIENCES CORPORATION

GEOLOGIC LOG: EN-D32

PROJECT: ***IBM/Endicott Supplemental Groundwater Assessment***

DEPTH FEET	BLOW COUNTS	PID (ppm)	RECOV.	SAMP. #	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
	24 31 33 38		18"		SAND AND SILT: Medium gray, semi-dense, saturated, very fine-grained SAND and SILT				
124	16 20 17 18		16"		SILT: Moderate yellowish brown, dense, stiff, saturated, SILT/CLAY SAND AND SILT: Medium gray, semi-dense, saturated, very fine-grained SAND and SILT		124		Drill mud and sand
126	13 15 19 21		16"		SILT: Dark yellowish brown, dense, stiff, saturated, SILT; some clay SAND: Dark gray, semi-dense, saturated, very fine-fine-grained SAND; some silt; little medium-grained sand		126		
128	19 24 27 29		20"		SILT: Medium gray, semi-dense, stiff, saturated, SILT; some clay		128		
130	16 19 28 29		18"		SILT: Medium gray, semi-dense, stiff, laminated, saturated, SILT; some clay		130		
132	20 50/0.1		15"		SILT: Medium gray, semi-dense, stiff, laminated, saturated, SILT; some clay and angular gravel Roller bit/No sample (unknown)		132		
134	32 80		6"		SILT: Medium gray, very dense, saturated, SILT and angular GRAVEL; little clay Roller bit/No sample (unknown)		134		
136	77/0.5		2"		SILTSTONE: Medium blush gray, siltstone fragments (bedrock?) Roller bit/No sample (unknown)		136		
138							138		

APPENDIX B-4

Gradation Analyses for Borings EN-206A, EN-214B, and EN-284A

F. T. KITLINSKI & ASSOCIATES, INC.

CONSULTING GEOTECHNICAL ENGINEERS

FELIX T. KITLINSKI, P.E. (1959-2001)
BLAIR C. KITLINSKI, P.E.

TELEPHONE: 717-652-8620
FAX: 717-651-0725

3608 NORTH PROGRESS AVENUE
HARRISBURG, PENNSYLVANIA 17110
(1.2 MILES NORTH OF PROGRESS AVENUE
INTERCHANGE NO. 69 OF I-81)

RECEIVED
AUG 21 2003
Groundwater Sciences Corporation

August 19, 2003

Mr. Neil Ketchum
Groundwater Sciences Corporation
2601 Market Place Street - Suite 310
Harrisburg, Pennsylvania 17110-9340

Re: Results of Laboratory
Soil Testing
IBM Site
Endicott, New York
FTKA No. 03-08-8569

Mr. Ketchum:

Transmitted herewith are the results of the laboratory testing completed on the soil samples originating from the referenced project site.

The tests performed included 17 sieve analysis.

If you have any questions concerning the test results, please feel free to contact our office.

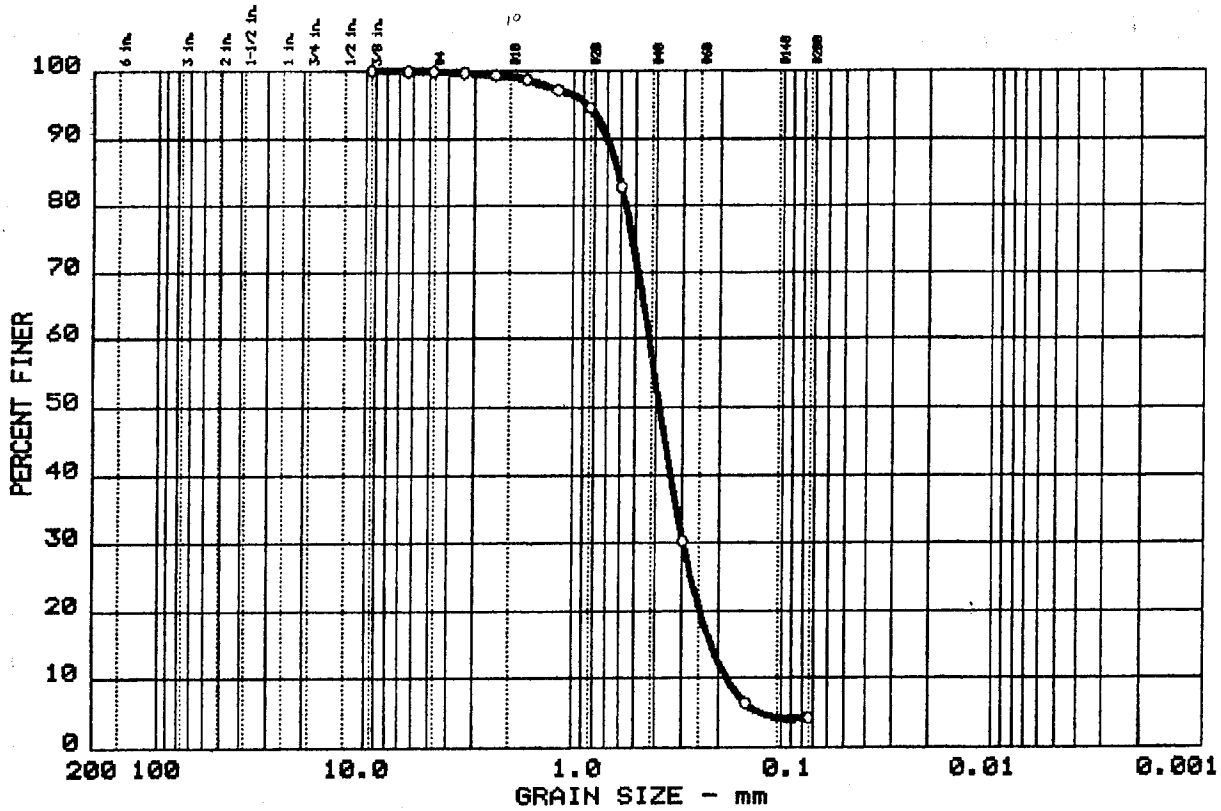
Very truly yours,

F. T. KITLINSKI & ASSOCIATES, INC.

Blair C. Kitlinski, P.E.

BCK/lk
attachments

GRAIN SIZE DISTRIBUTION TEST REPORT



	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
O	0.0	0.1	95.6	4.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
O	N/A	N/A	0.62	0.43	0.38	0.296	0.2193	0.1843	1.10	2.3

MATERIAL DESCRIPTION	USCS	AASHTO
O Sand with Trace of Fines	SP	A-3

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
O Location: EN284A, 30 - 31

Date: 08-19-2003

GRAIN SIZE DISTRIBUTION TEST REPORT
F. T. KITLINSKI & ASSOCIATES, INC.

Remarks:
Groundwater Sciences Corporation
Harrisburg, PA

Figure No.1

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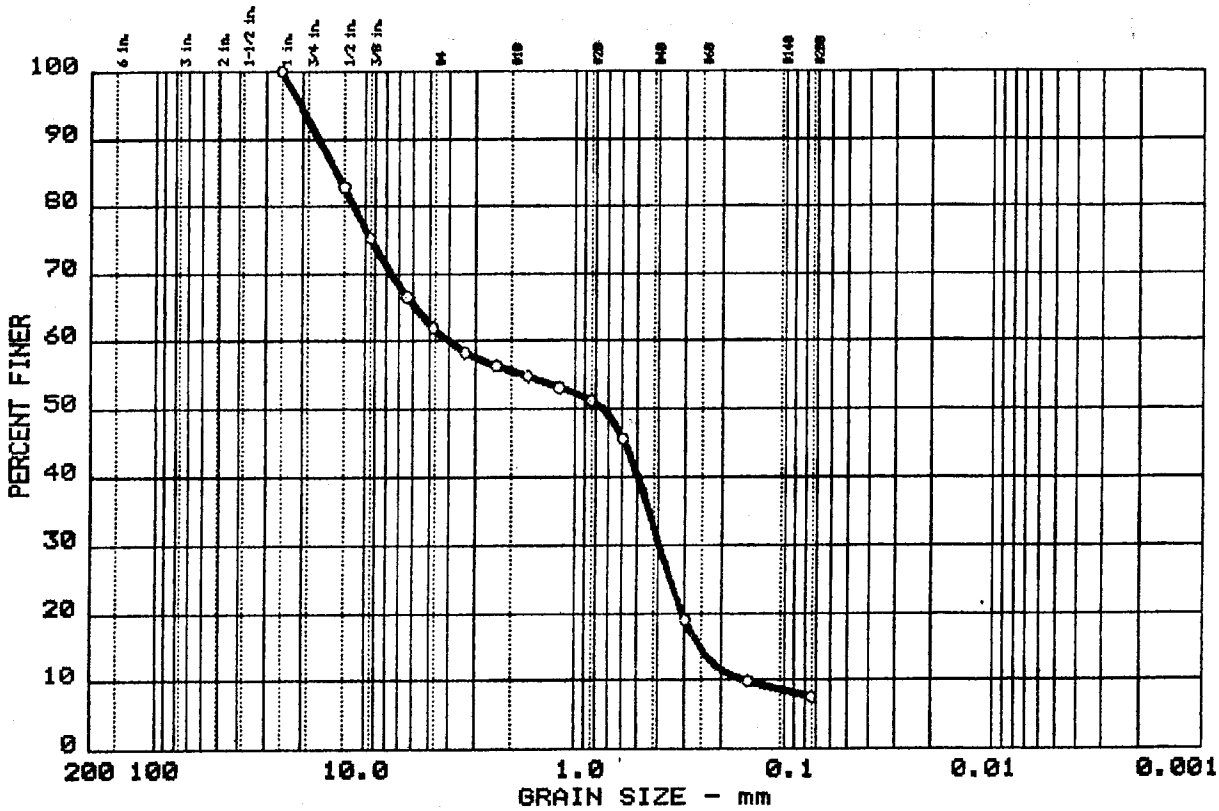

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	38.0	54.4	7.6	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	13.80	4.03	0.74	0.394	0.2541	0.1531	0.25	26.3

MATERIAL DESCRIPTION	USCS	AASHTO
○ Gravelly Sand with Trace of Fines	SP-SM	A-1-b

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN284A, 31 - 31.5

Date: 08-19-2003

Remarks:
Groundwater Sciences Corporation
Harrisburg, PA

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Figure No.1

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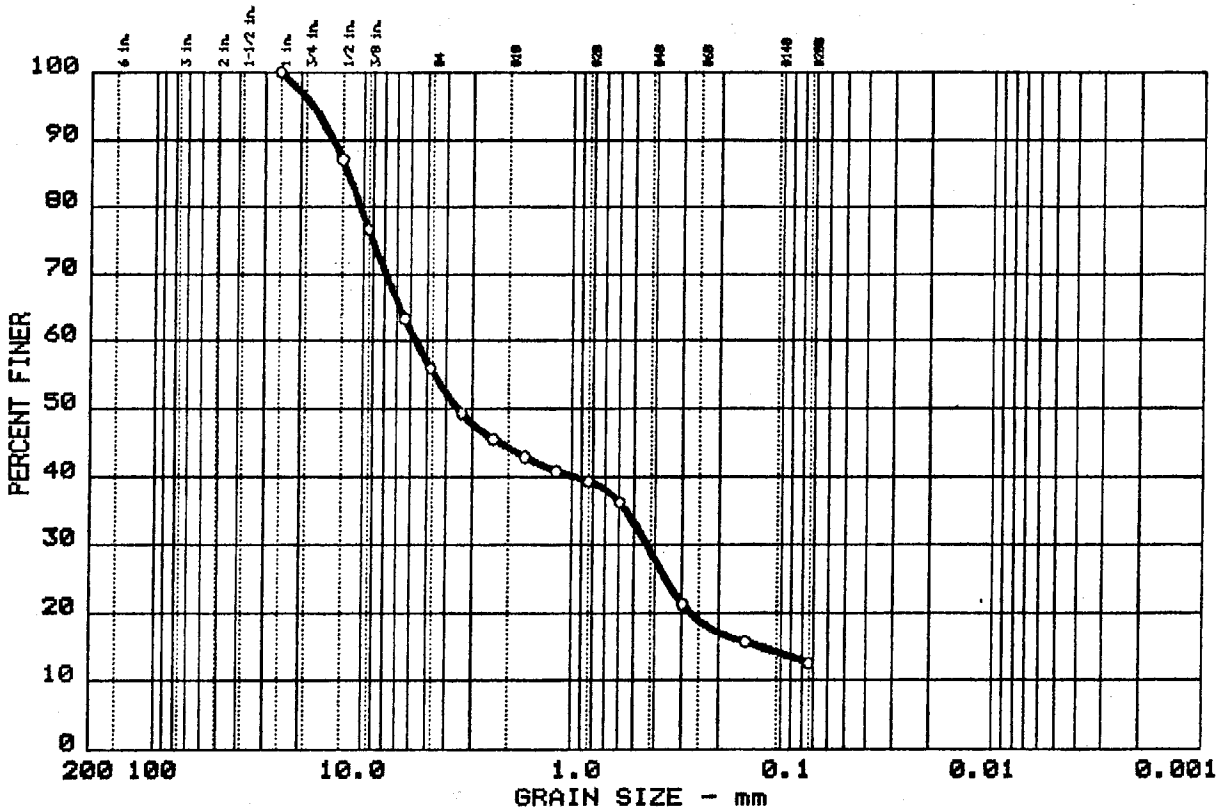

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	44.0	43.4	12.6	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	11.89	5.61	3.50	0.436	0.1242			

MATERIAL DESCRIPTION	USCS	AASHTO
○ Gravel and Sand with Little Fines	GM	A-1-a

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN284A, 31.5 - 33.5

Date: 08-19-2003

Remarks:
Groundwater Sciences Corporation
Harrisburg, PA

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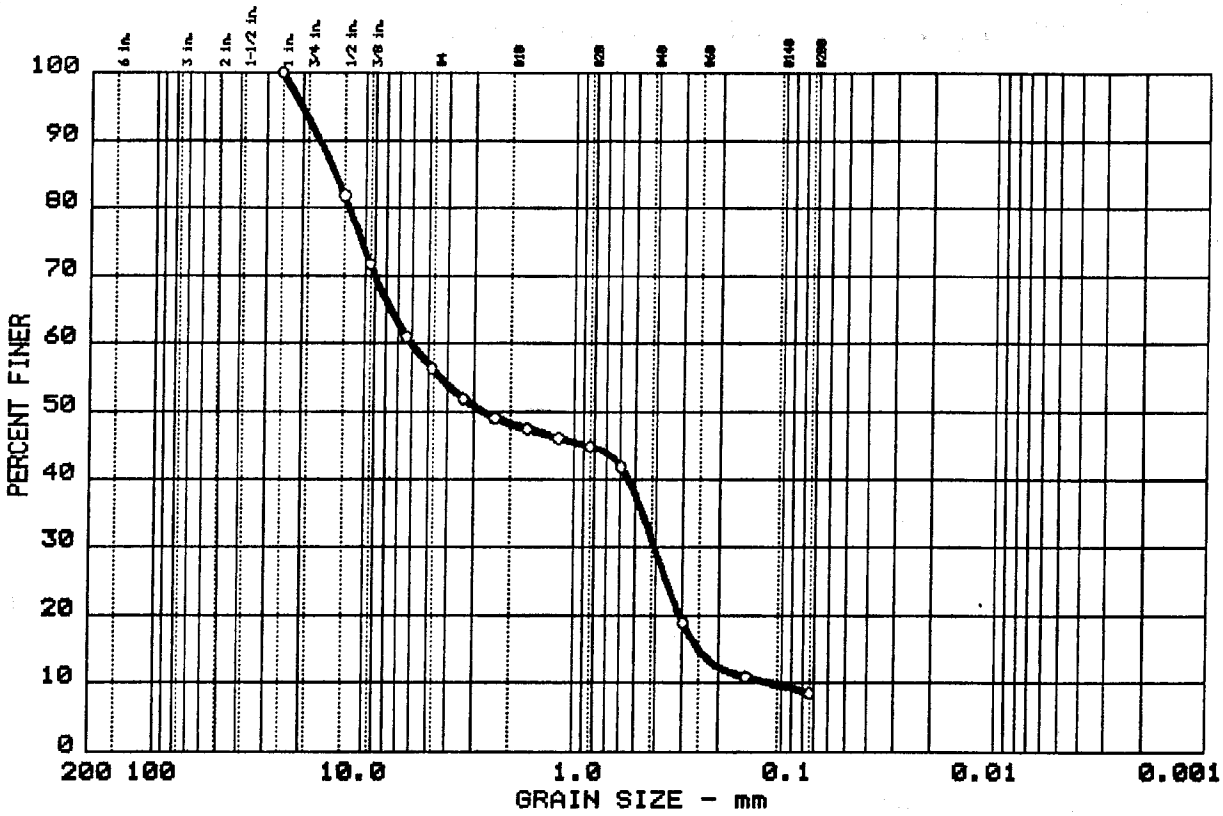

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	43.6	47.8	8.6	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	13.96	5.96	2.72	0.407	0.2483	0.1122	0.25	53.1

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand & Gravel with Trace of Fines	SP-SM	A-1-b

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN284A, 33.5 - 34

Date: 08-19-2003

Remarks:
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Harrisburg, PA

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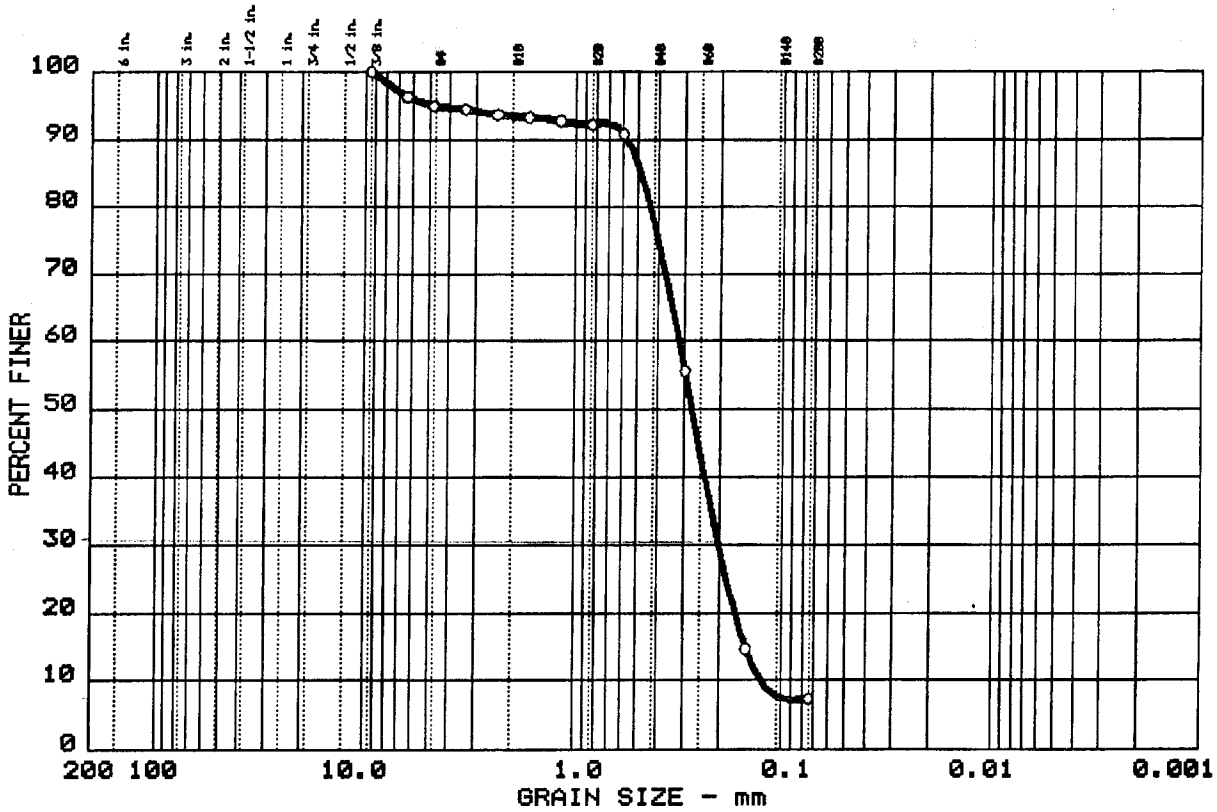

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
O	0.0	5.1	87.6	7.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
O	N/A	N/A	0.49	0.32	0.27	0.203	0.1505	0.1252	1.04	2.5

MATERIAL DESCRIPTION	USCS	AASHTO
O Sand with Trace of Gravel & Fines	SP-SM	A-3

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
O Location: EN284A, 34 - 35

Date: 08-19-2003

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Remarks:
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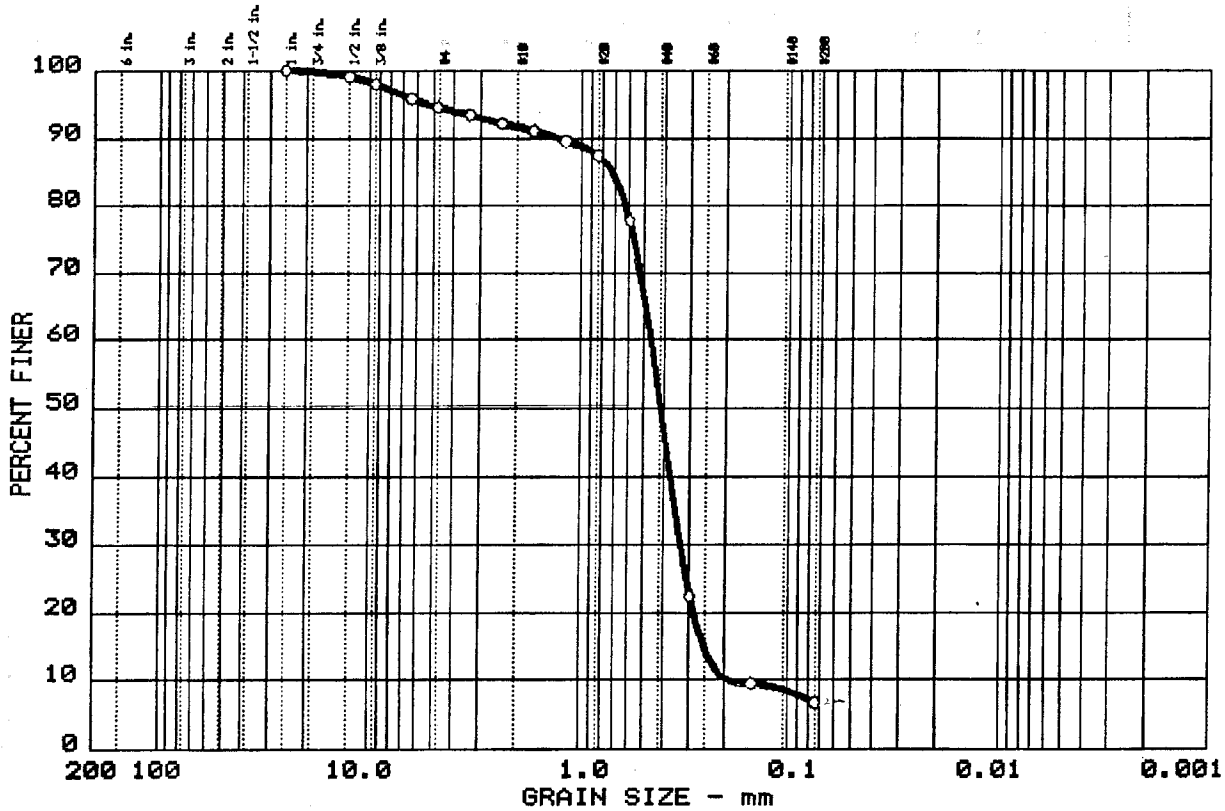

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	5.4	87.9	6.7	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.72	0.46	0.42	0.330	0.2535	0.1945	1.21	2.4

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Trace of Gravel and Fines	SP-SM	A-3

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN284A, 35 - 38

Date: 08-19-2003

Remarks:
Groundwater Sciences Corporation
Harrisburg, PA

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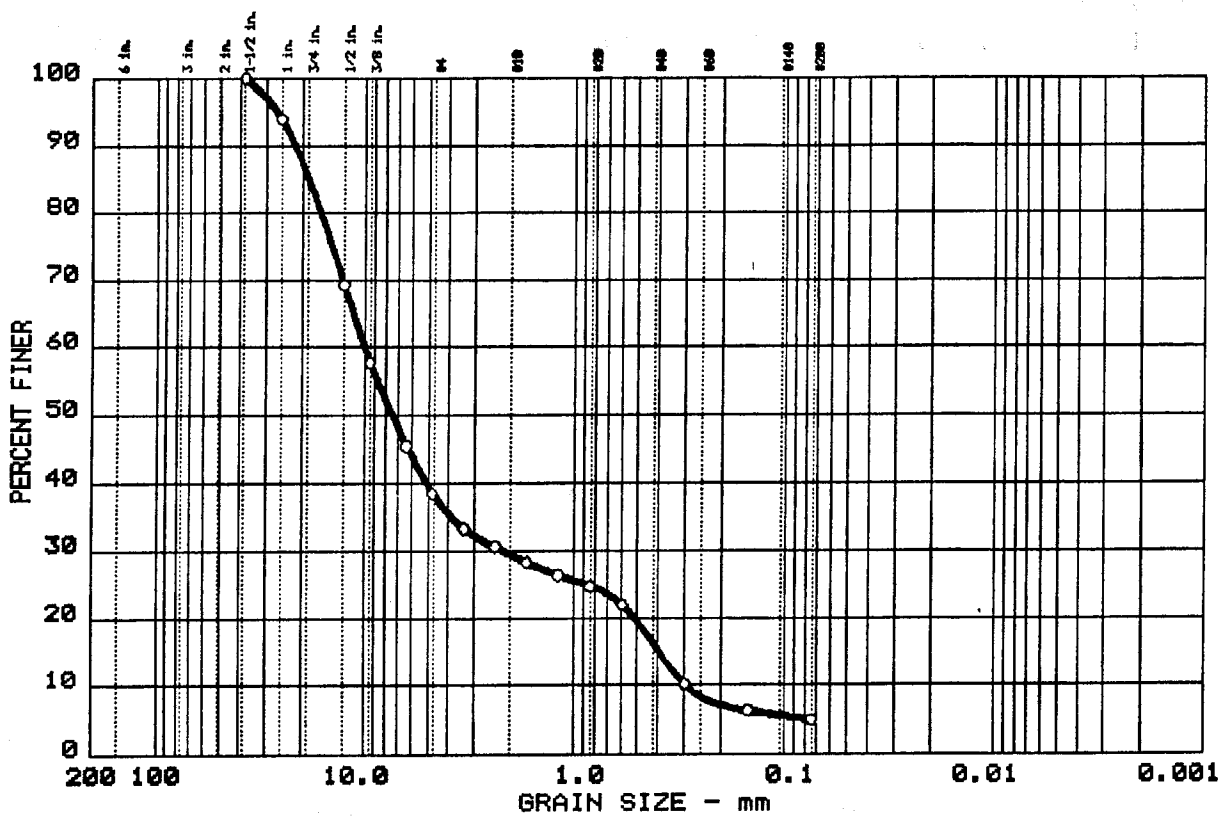

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	61.5	33.5	5.0	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	18.84	10.10	7.48	2.158	0.3926	0.2911	1.58	34.7

MATERIAL DESCRIPTION	USCS	AASHTO
○ Gravel with Some Sand and Trace of Fines	GW	A-1-a

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN284A, 42 - 46

Date: 08-19-2003

Remarks:
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Harrisburg, PA

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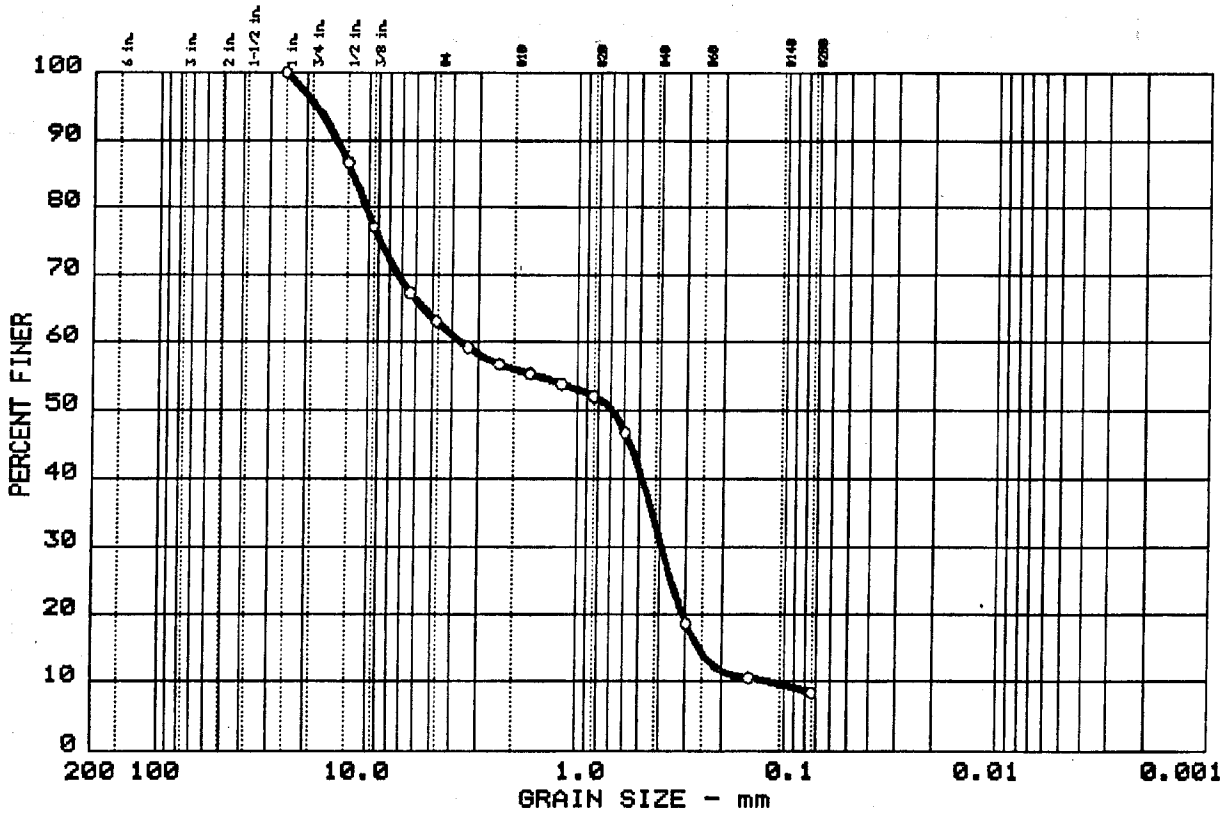

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
O	0.0	36.9	54.7	8.4	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
O	N/A	N/A	12.02	3.59	0.68	0.393	0.2594	0.1172	0.37	30.6

MATERIAL DESCRIPTION	USCS	AASHTO
O Sand and Gravel with Trace of Fines	SP-SM	A-1-b

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
O Location: EN284A, 46 - 48

Date: 08-19-2003

GRAIN SIZE DISTRIBUTION TEST REPORT
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Remarks:
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Figure No.1

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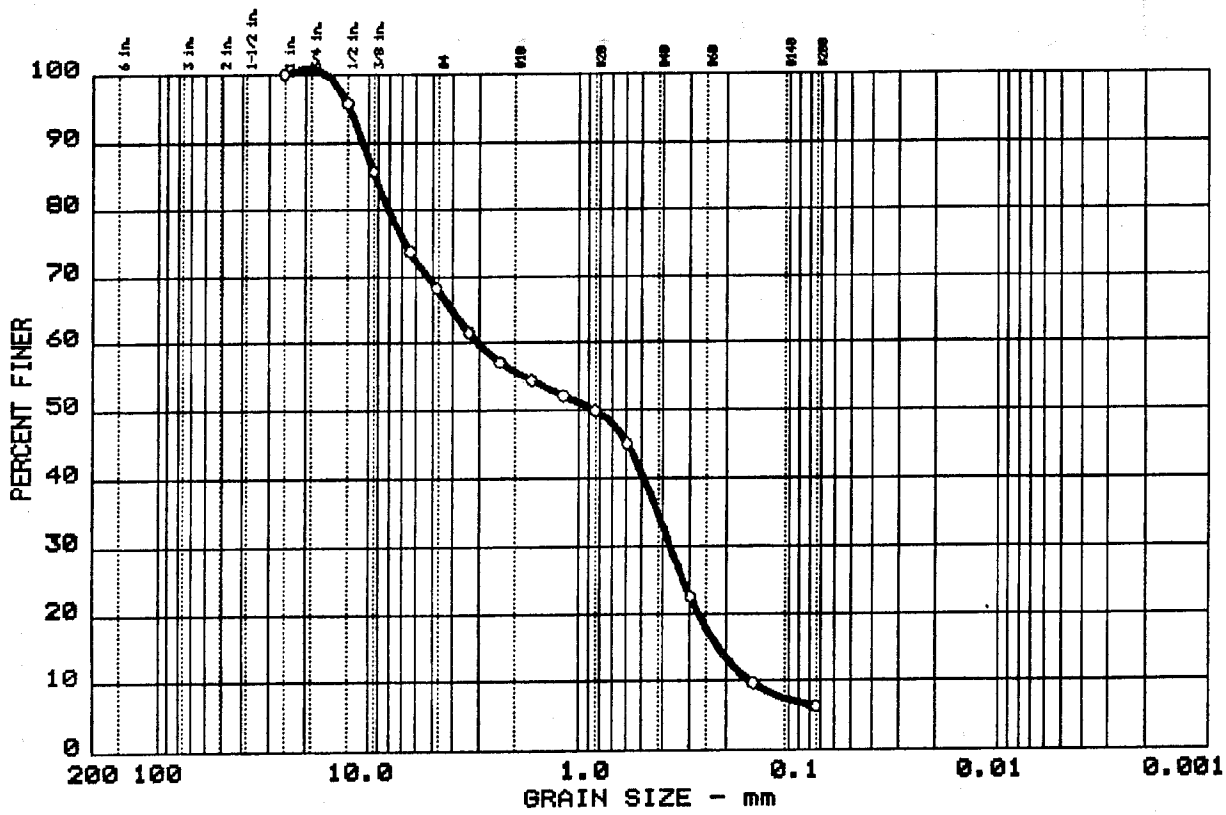

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
O	0.0	31.8	61.9	6.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
O	N/A	N/A	9.33	3.02	0.84	0.370	0.2180	0.1526	0.30	19.8

MATERIAL DESCRIPTION	USCS	AASHTO
O Sand with Some Gravel and Trace of Fines	SP-SM	A-1-b

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
O Location: EN284A, 48 - 48.5

Date: 08-19-2003

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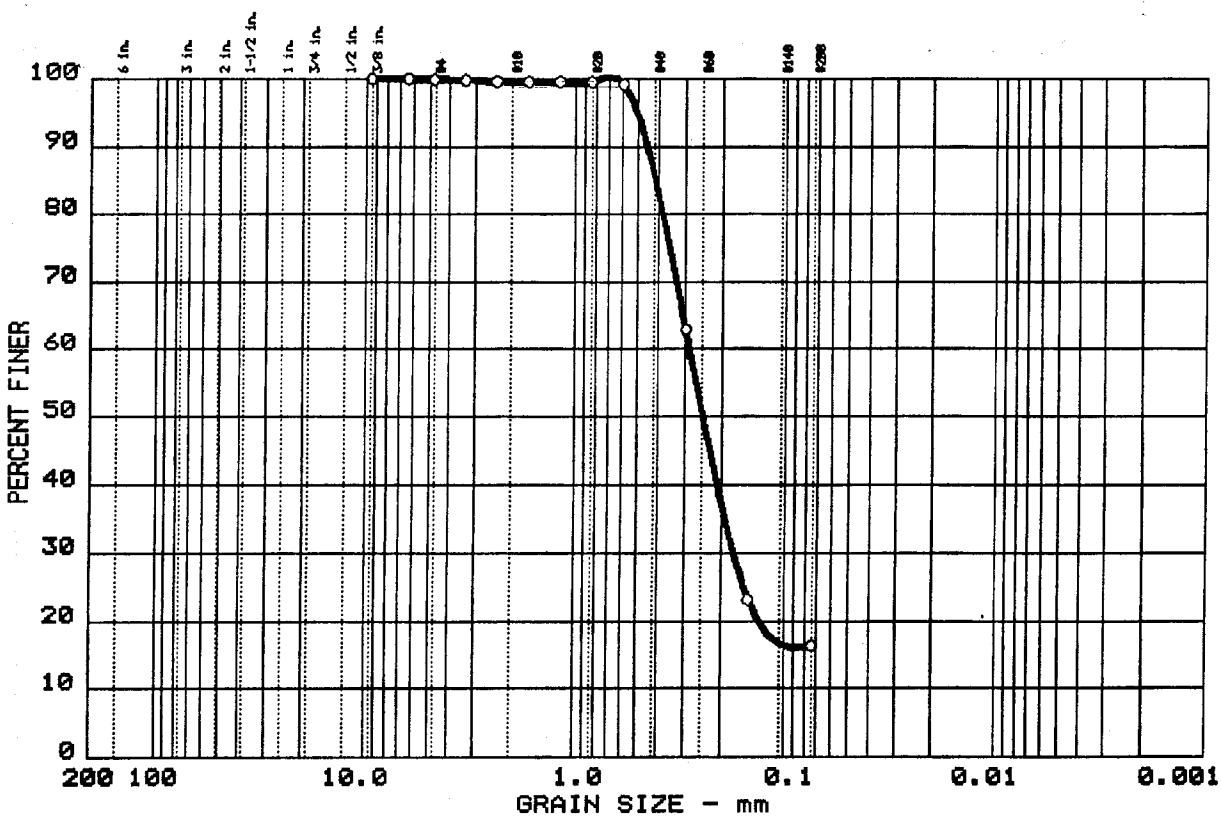

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.1	83.6	16.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.41	0.28	0.25	0.176				

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Little Fines	SM	

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN284A, 48.5 - 50

Date: 08-19-2003

Remarks:
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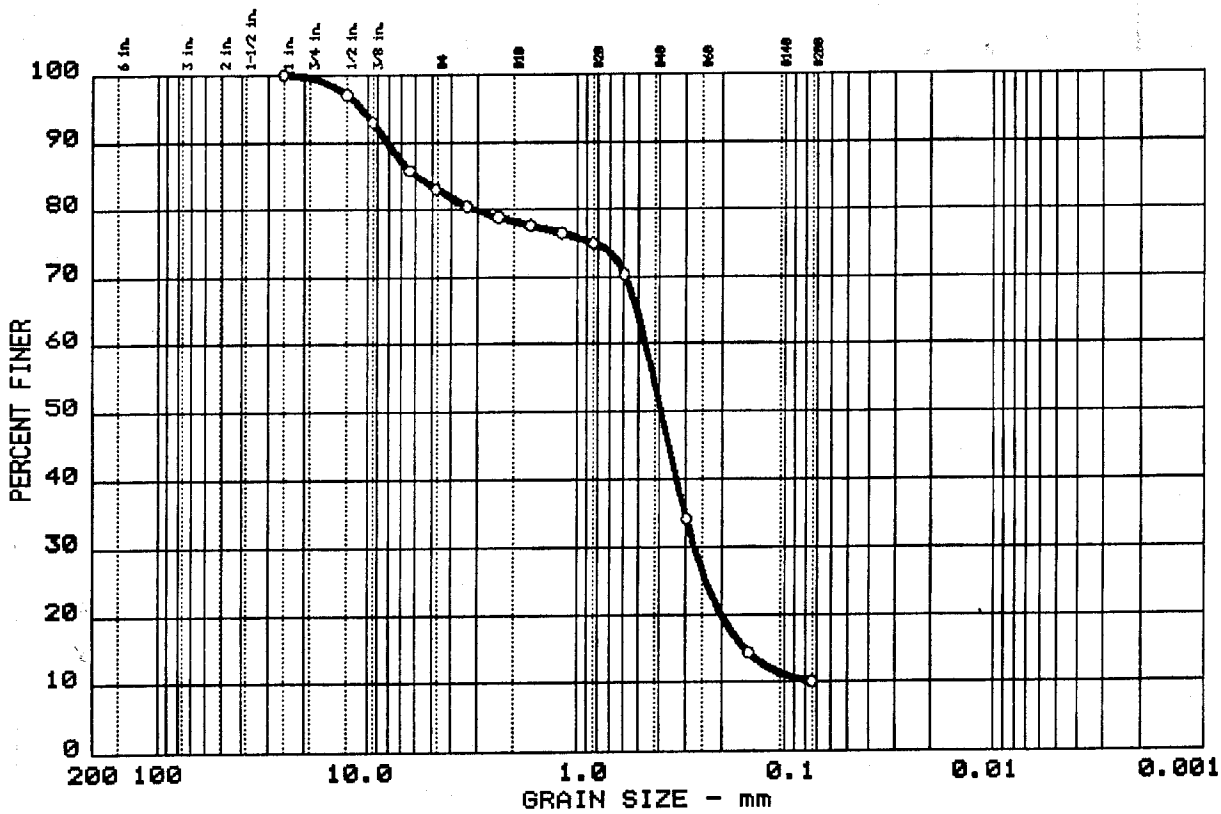

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
O	0.0	17.0	72.9	10.1	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
O	N/A	N/A	5.89	0.46	0.39	0.272	0.1567			

MATERIAL DESCRIPTION	USCS	AASHTO
O Sand with Little Gravel and Fines	SP-SM	A-3

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
O Location: EN284A 50 - 57

Date: 08-19-2003

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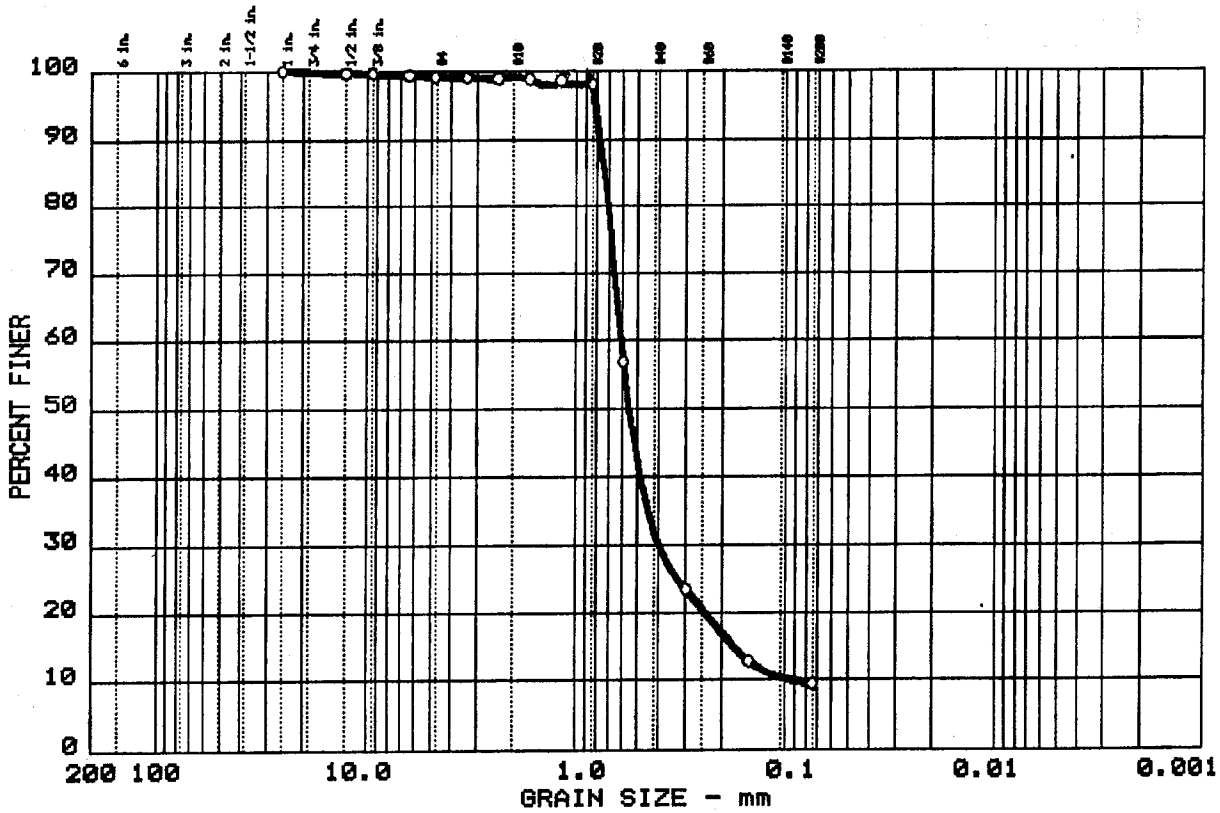

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.8	89.7	9.5	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.73	0.60	0.55	0.400	0.1768	0.0939	2.82	6.4

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Trace Fines	SW-SM	A-1-b

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: 214B, 30 - 35

Date: 08-19-2003

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Remarks:
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Figure No.1

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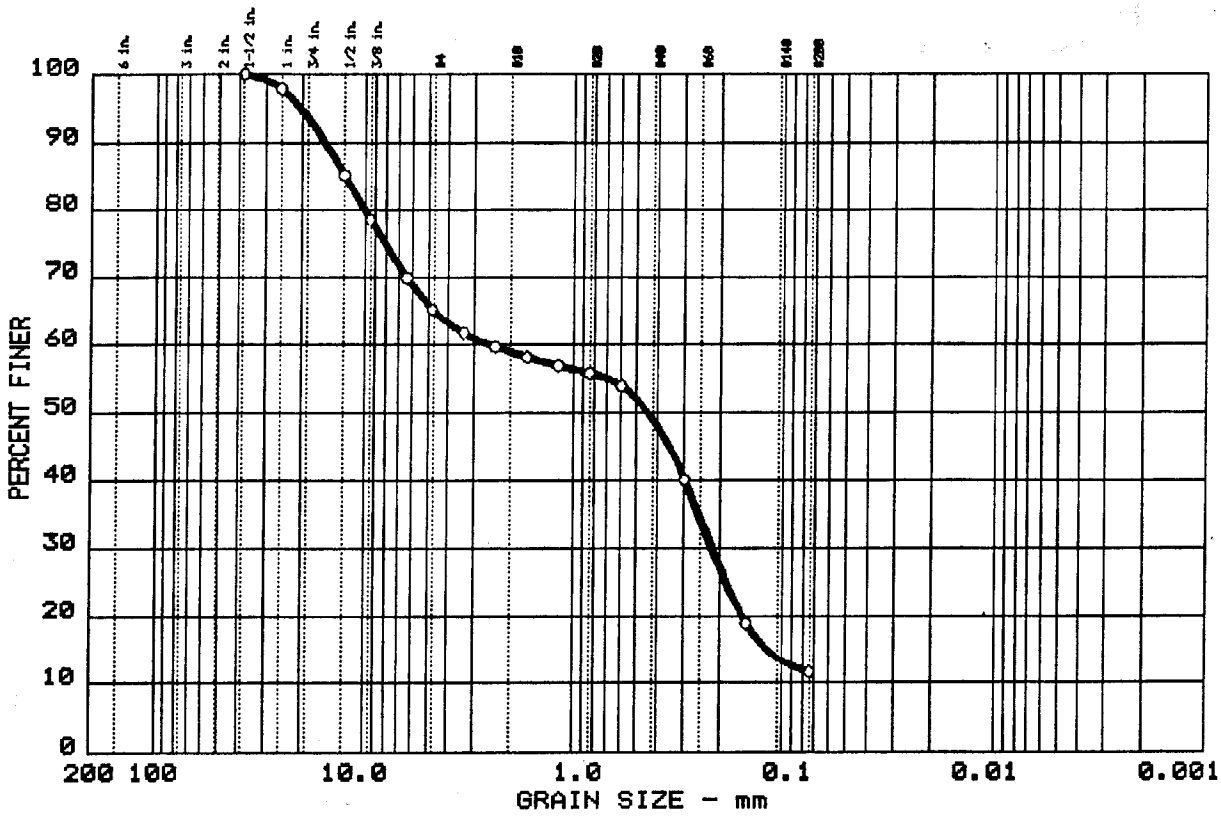

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	34.8	53.5	11.7	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	12.59	2.51	0.44	0.219	0.1189			

MATERIAL DESCRIPTION	USCS	AASHTO
○ Gravelly Sand with Little Fines	SP-SM	A-1-b

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN214B, 35 - 37.5

Date: 08-19-2003

Remarks:
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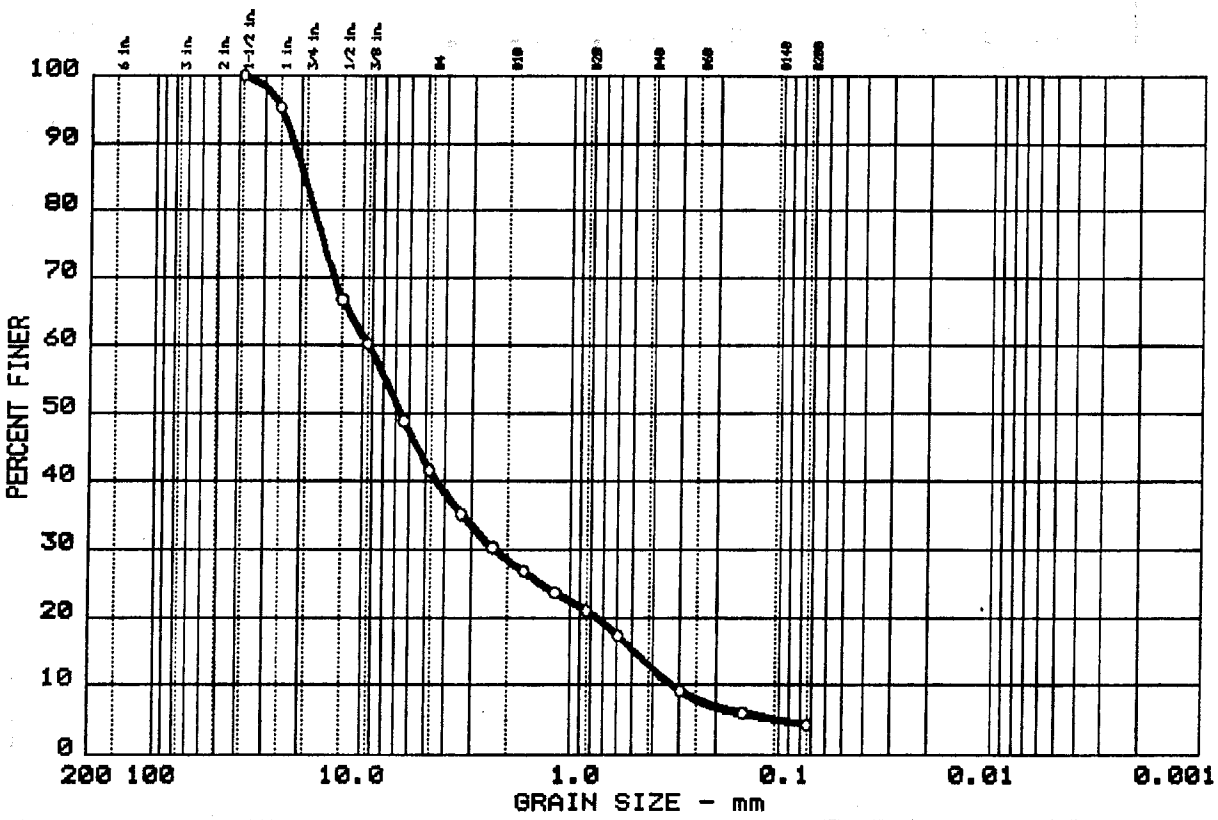

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	58.5	37.2	4.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	19.43	9.39	6.57	2.331	0.4926	0.3217	1.80	29.2

MATERIAL DESCRIPTION	USCS	AASHTO
○ Gravel and Sand with Trace of Fines	GW	A-1-a

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN214B, 42 - 44

Date: 08-19-2003

Remarks:
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Figure No.1

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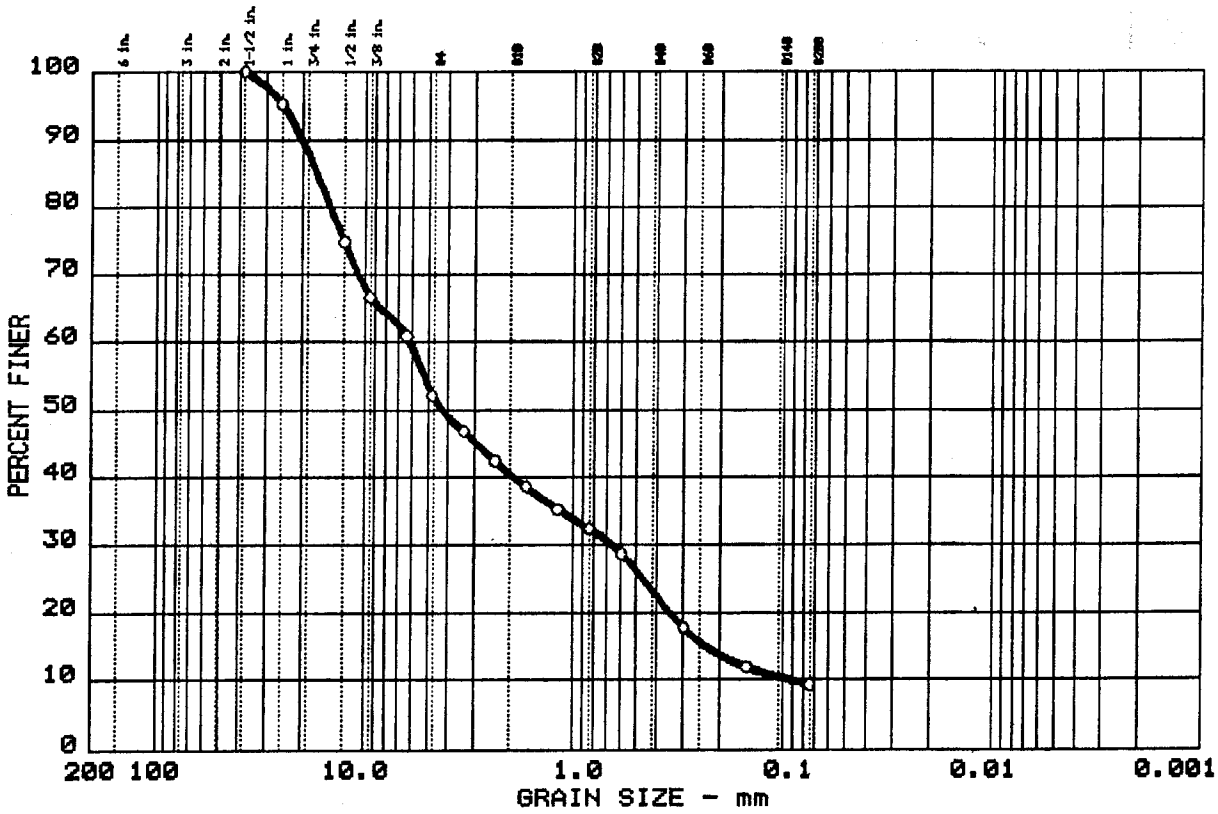

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	47.8	42.9	9.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	17.18	6.10	4.27	0.661	0.2344	0.0912	0.79	66.8

MATERIAL DESCRIPTION	USCS	AASHTO
○ Gravel and Sand with Trace of Fines	GP-GM	A-1-a

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN214B, 44 - 49

Date: 08-19-2003

Remarks:
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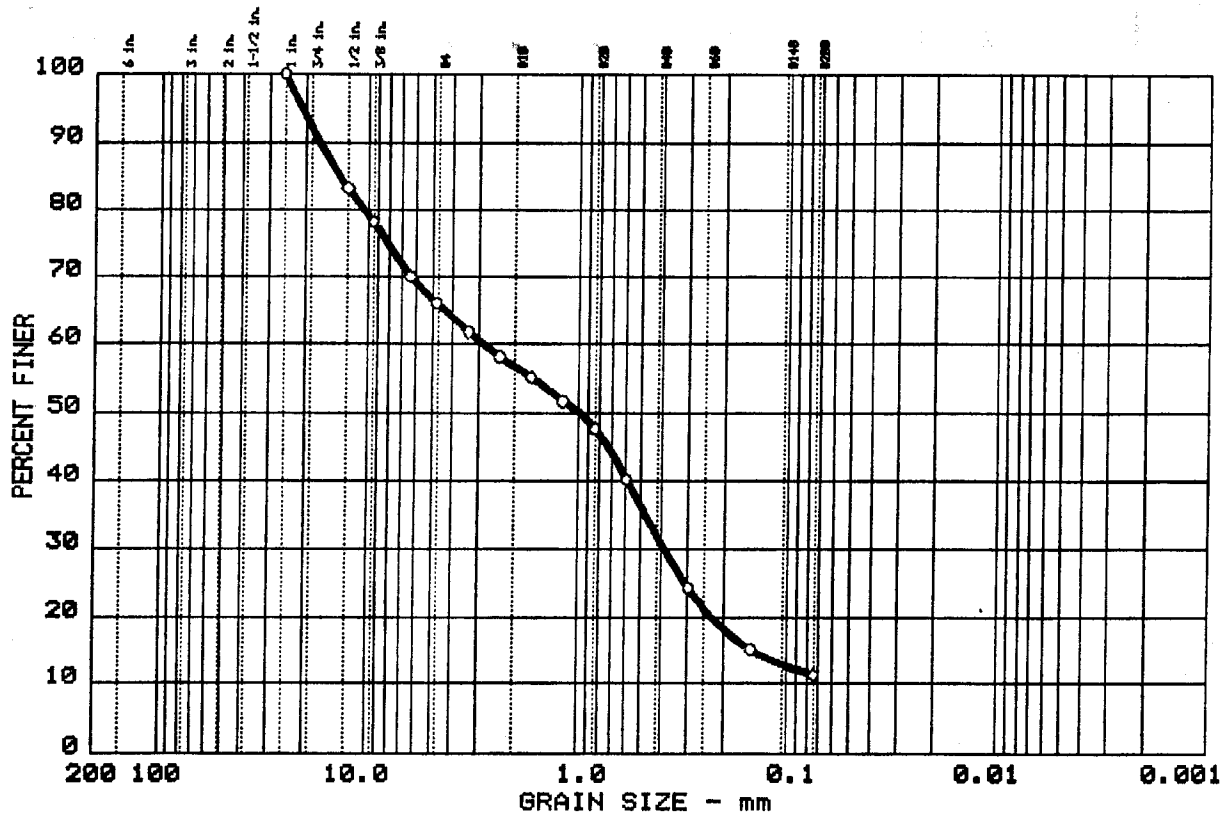

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	34.0	54.7	11.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	13.80	2.85	1.00	0.385	0.1462			

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Some Gravel and Little Fines	SP-SM	A-1-b

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN80A, 20 -22

Date: 08-19-2003

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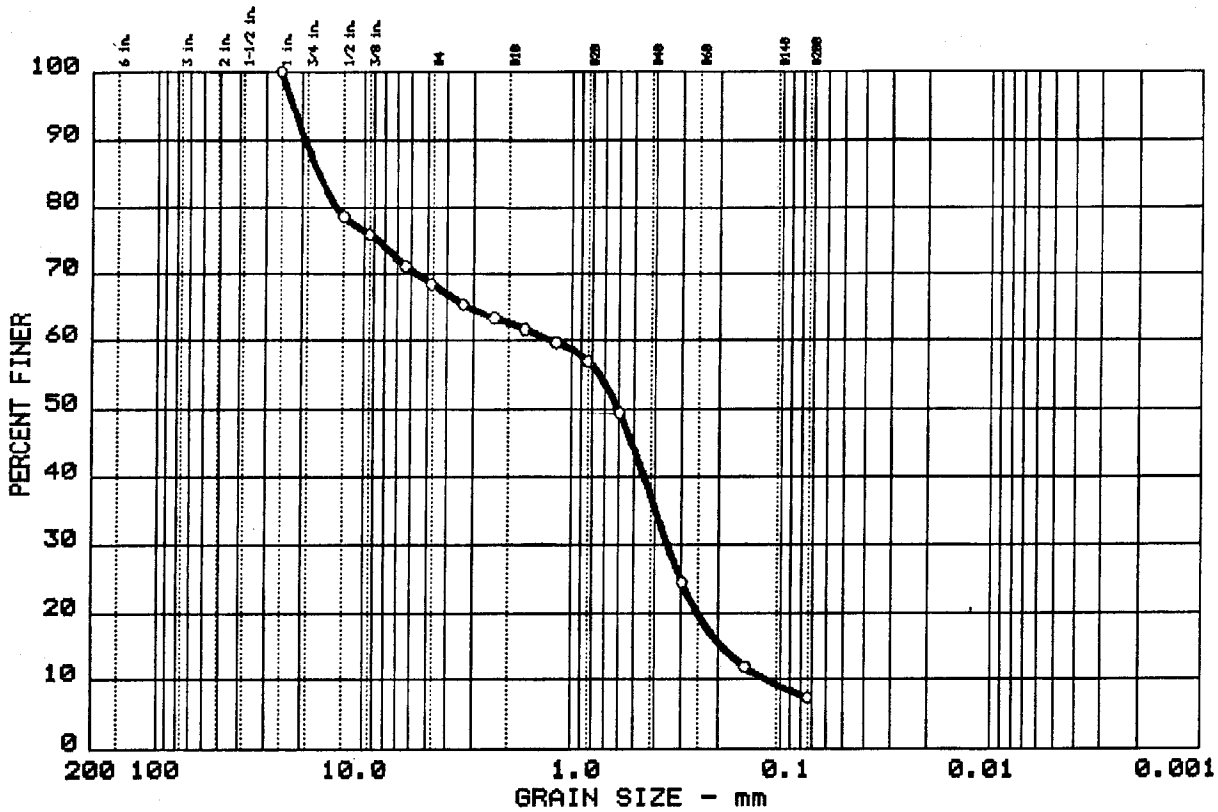

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
o	0.0	31.6	61.1	7.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
o	N/A	N/A	16.71	1.24	0.60	0.349	0.1916	0.1182	0.83	10.5

MATERIAL DESCRIPTION	USCS	AASHTO
o Sand with Some Gravel and Trace of Fines	SP-SM	A-1-b

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
o Location: EN80A, 22 - 24

Date: 08-19-2003

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Figure No.1

F. T. KITLINSKI & ASSOCIATES, INC.
CONSULTING GEOTECHNICAL ENGINEERS

FELIX T. KITLINSKI, P.E. (1959-2001)
BLAIR C. KITLINSKI P.E.

TELEPHONE: 717-652-8620
FAX: 717-651-0725

3608 NORTH PROGRESS AVENUE
HARRISBURG, PENNSYLVANIA 17110
(1.2 MILES NORTH OF PROGRESS AVENUE
INTERCHANGE NO. 69 OF I-81)

FAX MESSAGE

TO: STEVE FISHER

FIRM: GROUNDWATER SCIENCES CORP.

FAX NO.: 657-1611

FROM: BLAIR KITLINSKI

DATE: 9-26-2003

SUBJECT/ PROJECT: LAB TEST RESULTS
IBM ENDICOTT, N.Y.
EN 206

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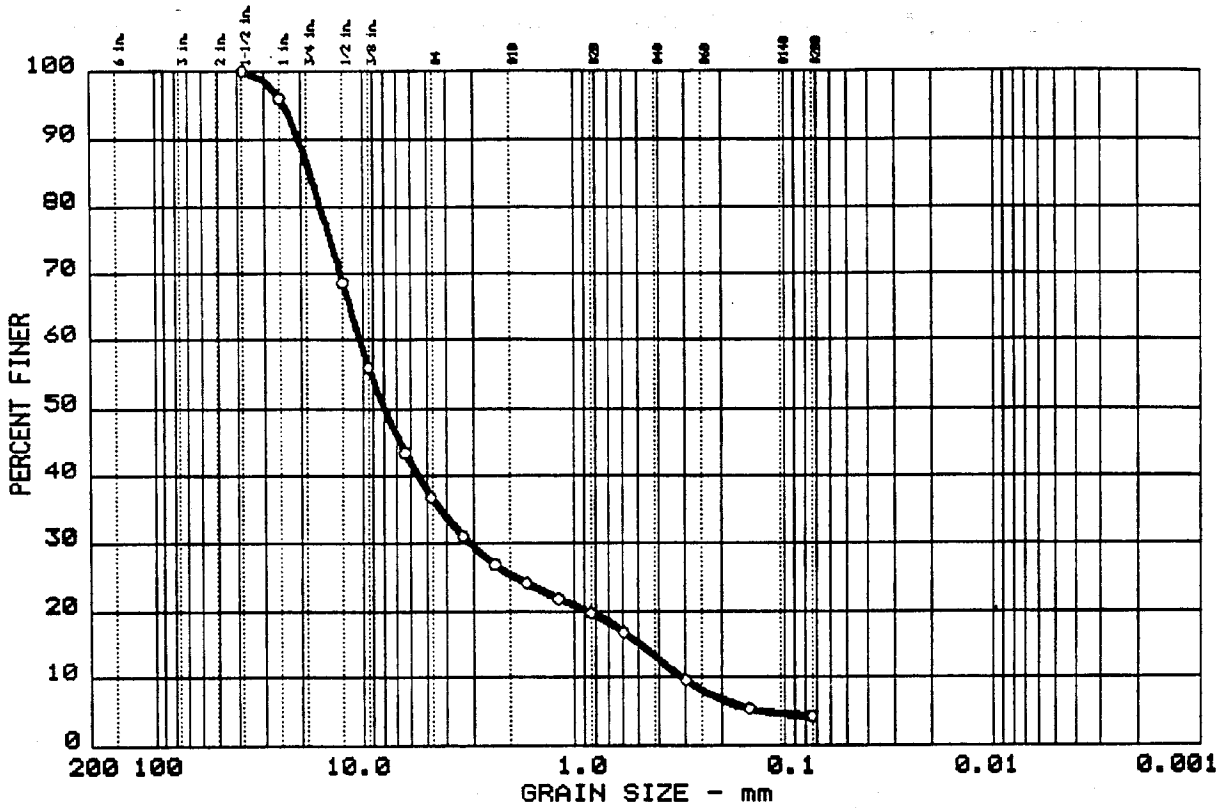

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	63.3	32.5	4.2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	18.20	10.47	8.00	3.112	0.4932	0.3076	3.01	34.0

MATERIAL DESCRIPTION	USCS	AASHTO
○ Gravel with Some Sand and Trace of Fines	GP	A-1-a

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN206, 34'-36'

Date: 9-25-2003

Remarks:
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Harrisburg, PA

GRAIN SIZE DISTRIBUTION TEST REPORT
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Figure No.1

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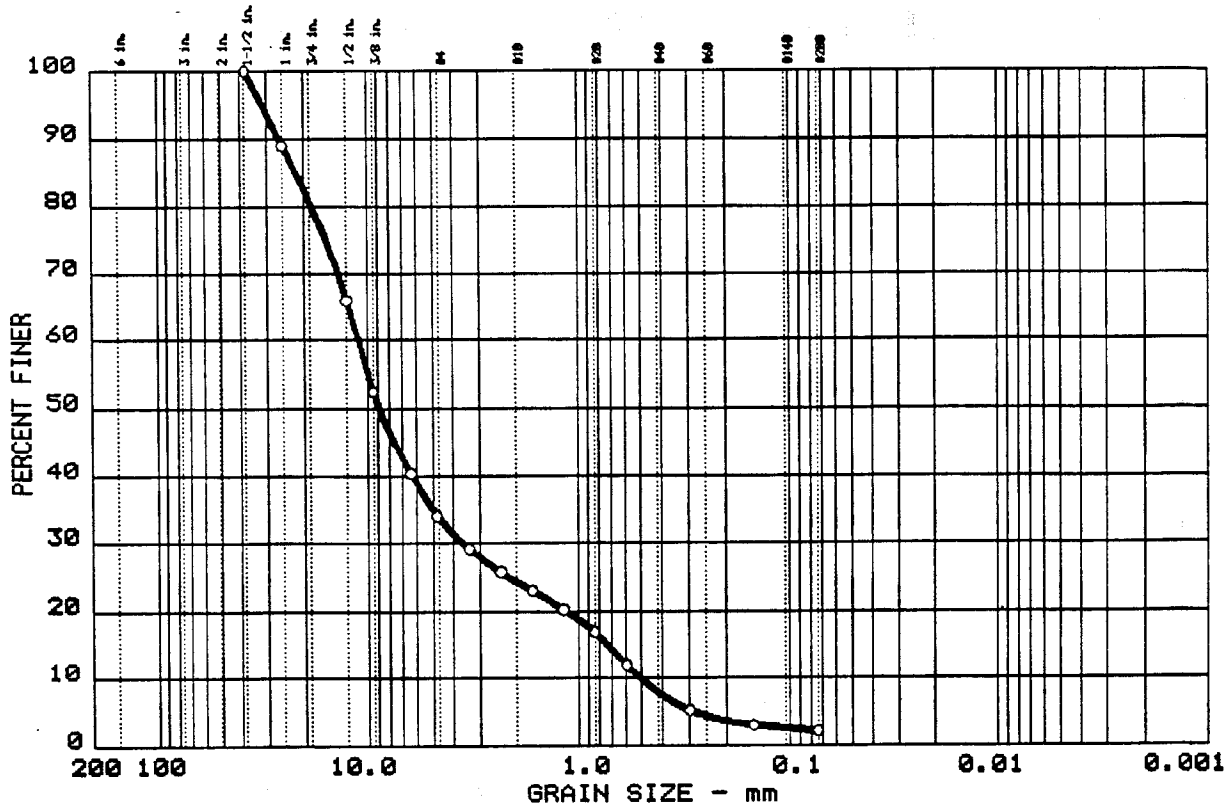

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	66.0	31.9	2.1	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	21.88	11.22	8.91	3.631	0.7244	0.5070	2.32	22.1

MATERIAL DESCRIPTION	USCS	AASHTO
○ Gravel with Some Sand and Trace of Fines	GW	A-1-a

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN206, 36.0'-37.8'

Date: 9-25-2003

Remarks:
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Figure No.2

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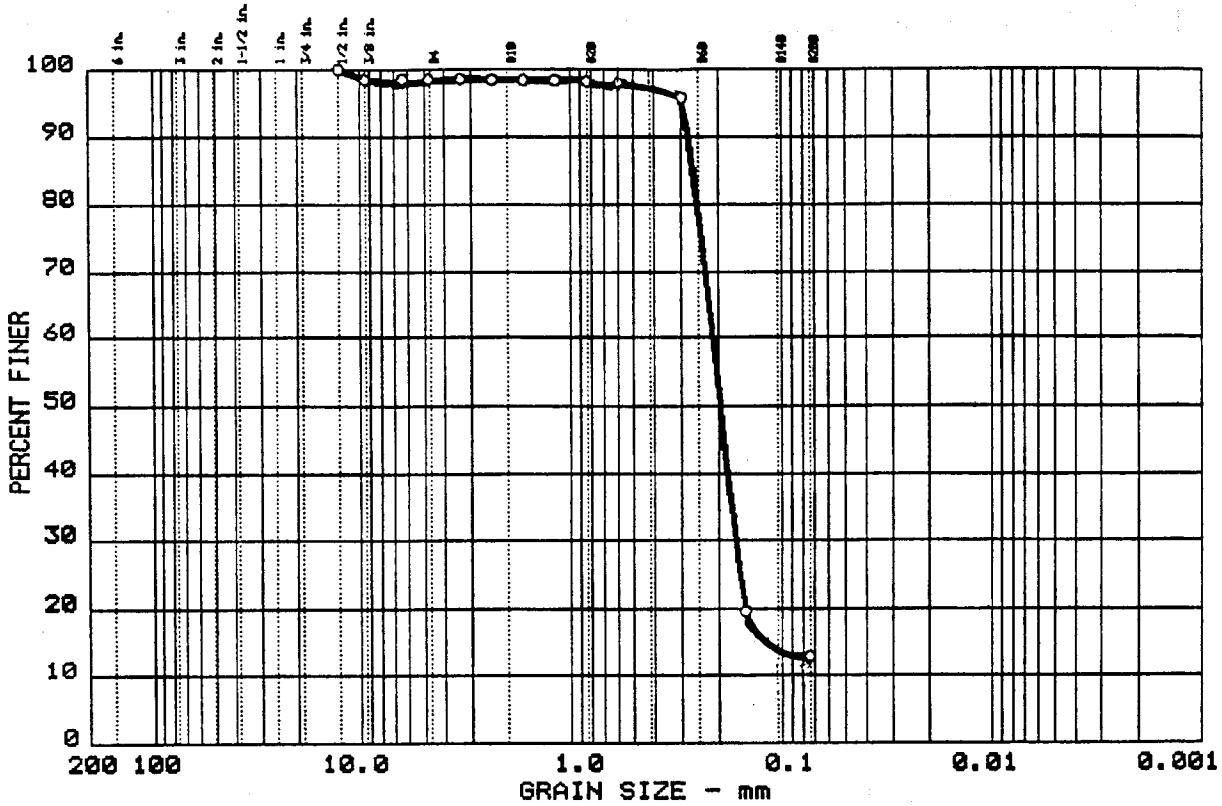

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	1.9	85.2	12.9	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.26	0.21	0.20	0.166	0.1396	0.1257	1.04	1.7

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Little Fines	SM	

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN206, 38'-40'

Date: 9-25-2003

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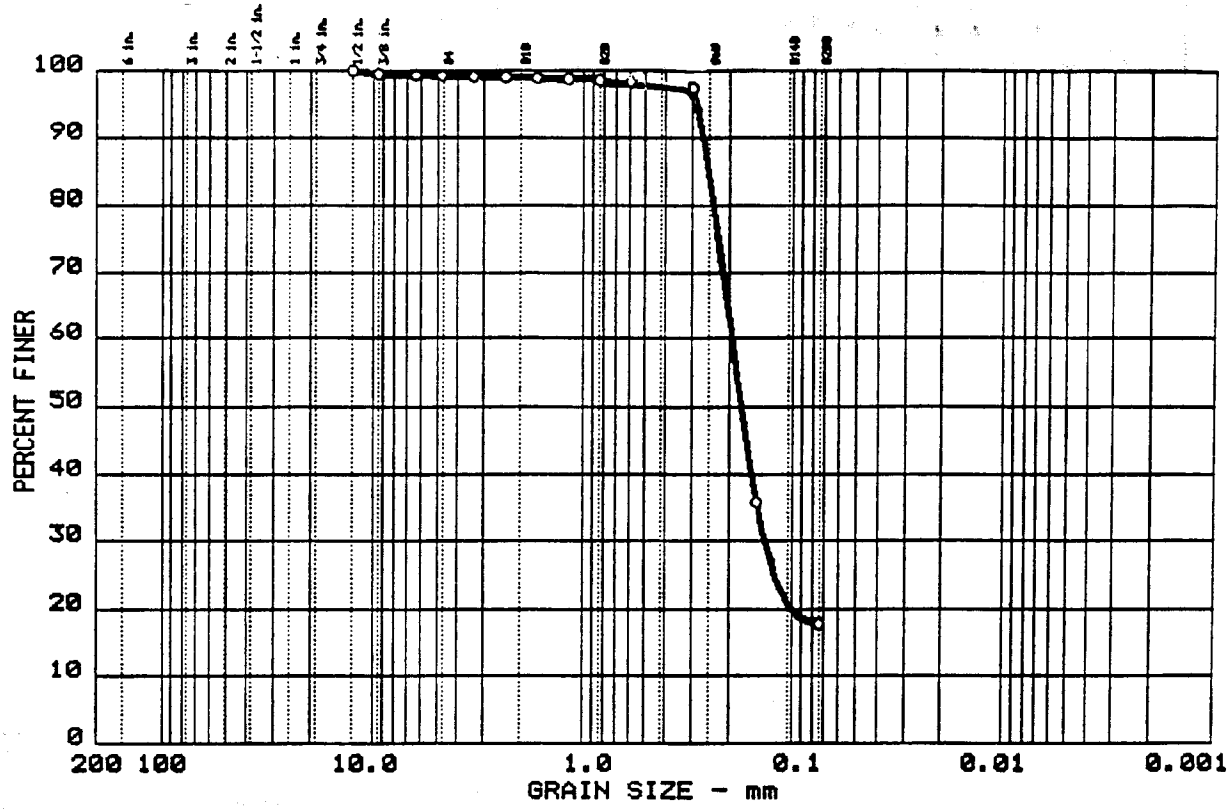

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.8	81.5	17.7	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.25	0.19	0.18	0.136				

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Little Fines	SM	

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN206, 40'-42'

Date: 9-25-2003

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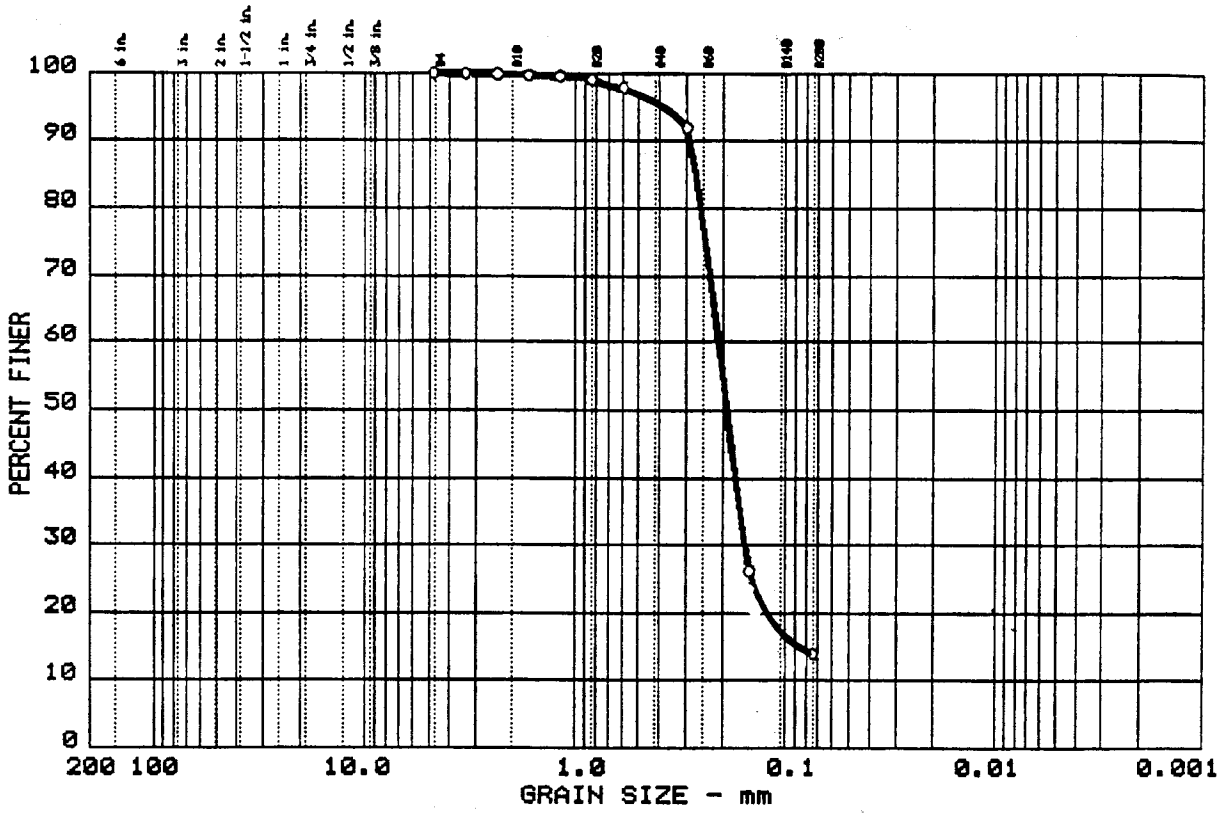

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.0	86.0	14.0	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.27	0.21	0.19	0.157	0.1175			

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Little Fines	SM	

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN206, 42'-44'

Date: 9-25-2003

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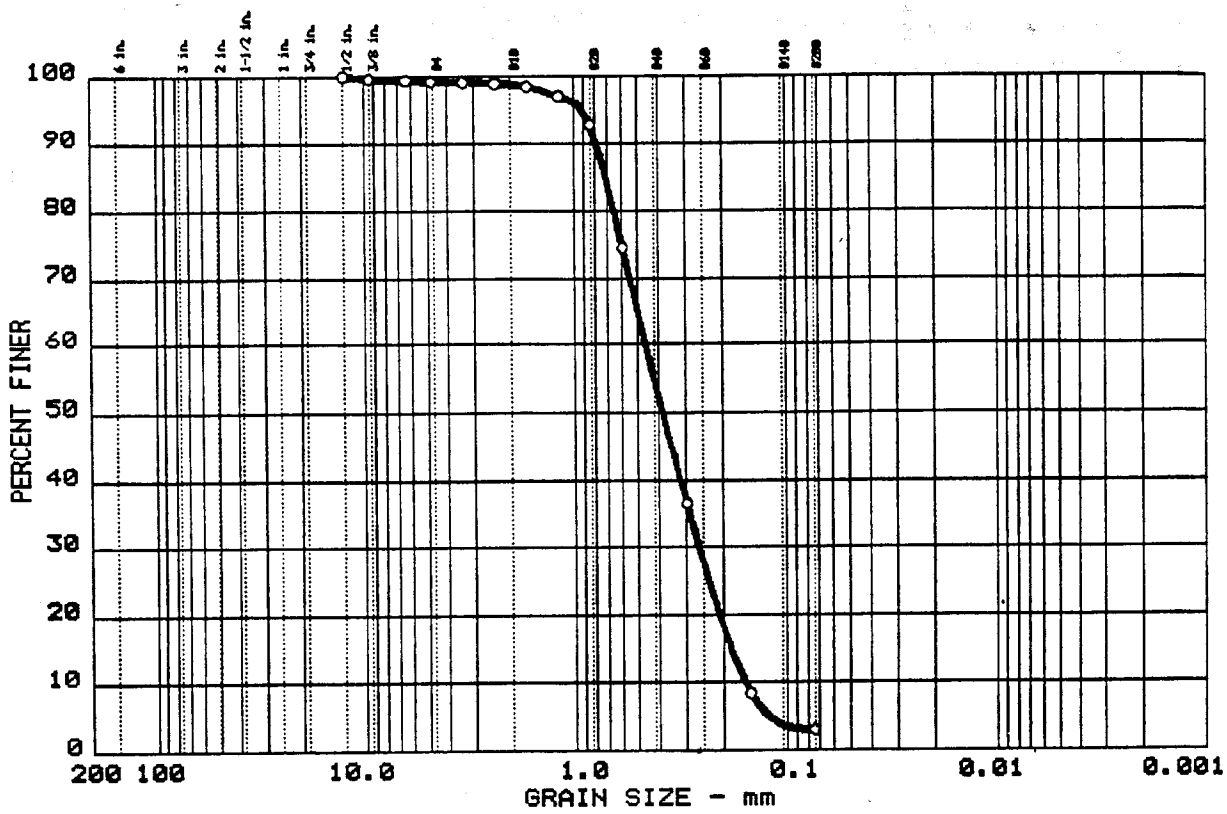

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.8	96.2	3.0	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.71	0.46	0.38	0.261	0.1845	0.1570	0.94	2.9

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Trace Fines	SP	A-3

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN206,44' - 46'

Date: 9-25-2003

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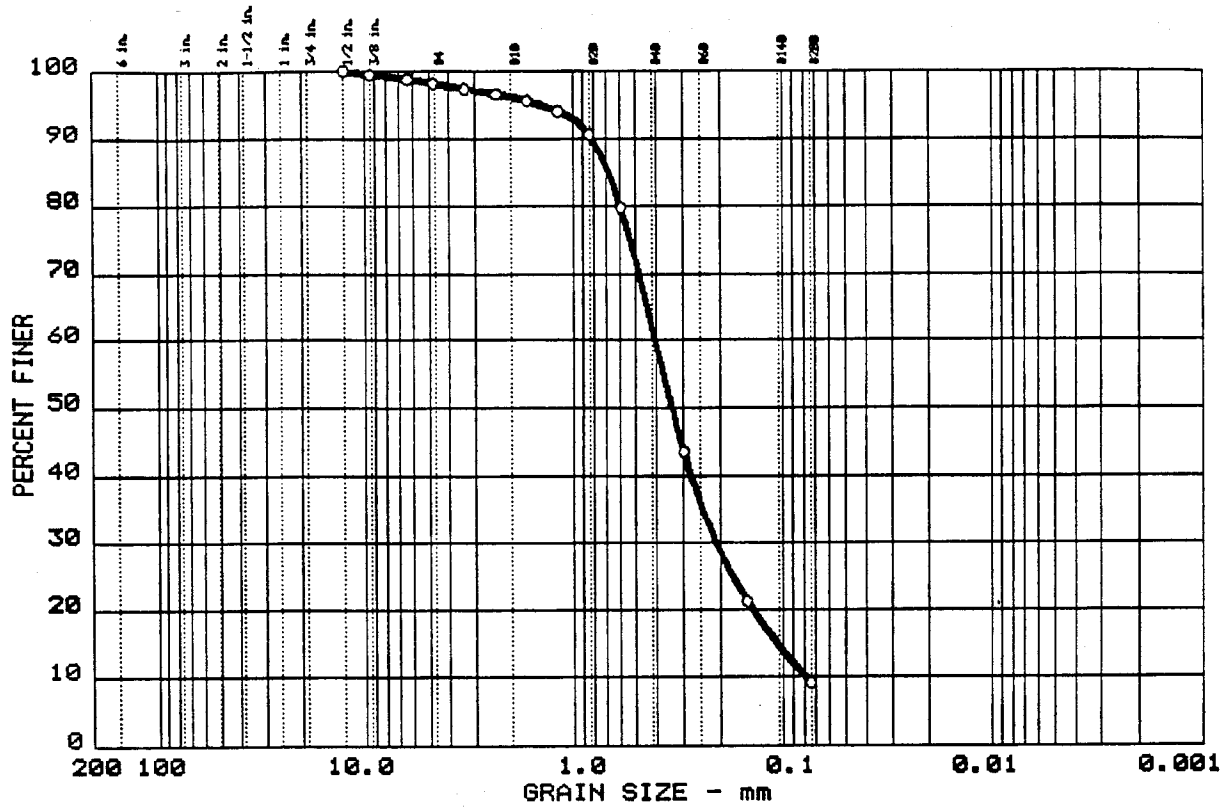

	%+75mm	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	1.8	89.0	9.2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.68	0.40	0.34	0.210	0.1078	0.0781	1.40	5.2

MATERIAL DESCRIPTION	USCS	AASHTO
○ Sand with Trace of Fines	SP-SM	A-3

Project No.: 03-08-8569
Project: IBM Site, Endicott, New York
○ Location: EN206, 46.0'-46.5'

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Figure No.7

APPENDIX B-5

Aquifer Test Data:

Compact Disc with Raw Data
D&M Table 2: Upper Aquifer Characteristics (1980)
Table B-1: Summary of Aquifer Test Parameters (2003)
Aquifer Test Work Plan Summary
Shutdown Test Chronology
Pumping Test Chronology
Groundwater Elevation Graphs for Shutdown Test
Aquifer Test Analysis Graphs
Groundwater Elevation Graphs for Observation Wells
Slug (Pulse) Test Reports

TABLE 2

UPPER ALLUVIAL AQUIFER CHARACTERISTICS

Well No.	Date of Test	Thickness of Aquifer (ft)	Pumping Test: Drawdown Phase: Duration (min)	Final Drawdown (ft)	Discharge Rate (gpm)	Transmissibility (gpd/ft)	Permeability (ft/day)	Recovery Phase: Duration (min)	Transmissibility (gpd/ft)	Permeability (ft/day)
EN -1*										
EN -2	10-4-79	3.55	18	0.75	0.9	620	23	15	440	16
EN -3	10-4-79	9.95	81	3.03	8.6	1250	17	80	990	13
EN -4	10-4-79	5.44	31	1.63	1.7	580	14	25	440	11
EN -5	10-3-79	2.00	81	1.65	0.7	310	21	60	410	27
EN -6	10-10-79	7.40	10	2.08	6.5	1060	19	7.5	1030	19
EN -9	2-11-80	6.50	66	0.43	2.0**			50	1650	34
EN-62	9-4-80	6.25	73	5.03	4.9	510	11			
EN-65	9-5-80	11.75	44	2.44	1.5	290	2.5	10	320	3.0
EN-67	9-8-80	12.75	64	19.83	1.5			60	50	0.5
EN-93	10-20-80	11.50	1440	6.80	37.5	108,000***	1260***			

* Well is nearly dry, not enough water to perform a test.
** This discharge rate is for the pumping well (EN-4) located nine feet east of Well EN-9
***Average of values calculated from drawdown data in observation wells EN-99, EN-100, EN-101, and EN-102 with radial distance of 9.04, 27.04, 98.46 and 68.81 feet respectively from EN-93.

Source: Dames & Moore, December 1980, Groundwater Investigation Report for IBM Endicott, New York.

Table B-1

Supplemental Groundwater Assessment
Aquifer Hydraulic Analysis Results

Well	Hydraulic Conductivity, K (ft/day)	Transmissivity T (ft^2/day)	Specific Yield, Sy
EN-284TD Pumping Test			
EN-29A	854	5,120	---
EN-278	70	628	0.14
EN-284	23	766	0.11
EN-214T Pumping Test			
EN-204	110	2,740	---
EN-214B	6	161	---
EN-206T Pumping Test			
EN-206	385	4,235	---
EN-206	336	3,690	---
Pulse Tests			
EN-19	23	---	---
EN-206	50	---	---
EN-207	20	---	---
EN-208A	20	---	---
EN-210	15	---	---
EN-213A	17	---	---
EN-214A	430	---	---
EN-214B	2	---	---
EN-217A	78	---	---
EN-284	146	---	---
EN-301	28	---	---
EN-311	111	---	---
EN-401	65	---	---
EN-402	60	---	---
EN-415	61		
EN-419	50	---	---
EN-421	43	---	---
EN-422	20	---	---
EN-426	41	---	---
EN-D2	48	---	---
EN-D30	0.37	---	---
EN-D31	0.32	---	---

Aquifer Test Work Plan Summary
Supplemental Groundwater Assessment
Endicott, New York

Prior to performing aquifer tests, eight (8) existing extraction wells will be shut down and water level recovery will be monitored for a period of 10 days at twenty-five (25) observation wells to help assess the areal influence of the current system (refer to Plate 2-3 for well locations).

An aquifer test will be performed at three (3) new test wells and with continuous monitoring of water level response in the aquifer at twenty-five (25) observation wells (refer to Plate 2-3).

The aquifer tests will involve the simultaneous operation of three (3) test wells at rates anticipated to range from 20 to 125 gpm. The actual pumping rates for the long-term test will be determined based on the results of short term and step-drawdown tests in each well Performing these tests concurrently is possible due to the distances separating the wells, which precludes interference effects from being a significant concern.

Groundwater extracted during this testing will be treated at each wellhead using filtration to remove suspended solids and using carbon adsorption treatment to remove volatile organic compounds (VOCs) prior to discharge to the village storm sewer system (see attached schematic diagram, Figure 1). Removal of VOCs using carbon adsorption is the same technology that is used in the treatment of groundwater extracted by the current pumping wells.

Sampling and analysis of raw extracted groundwater and the treated effluent will be performed routinely with 24-hour reporting of the results to document the effectiveness of the treatment units.

Sketch maps (Figures 2, 3, and 4) are attached for each of the pumping locations. The plan for wells EN-284TD/TS presents two maps, one close-in (Figure 4) and one showing the entire parking lot area (Figure 4a).

Initially, a constant-rate controlled test will be performed for a period of seven (7) days followed by a period of extended pumping for up to two (2) additional weeks.

Monitoring of water level recovery following the test will be performed for a period of at least one week.

At the conclusion of the aquifer test, groundwater samples will be collected from six (6) monitoring wells to demonstrate that the shutdown of the existing extraction wells has not resulted in downgradient expansion of the plume (refer to Plate 2-3).

Sampling of these same wells will also be performed two to three weeks following the restart of the current extraction wells.

Based on the anticipated receipt of a discharge permit from NYSDEC by October 24, 2003 for discharge of treated effluent from the tests, the schedule for these activities is shown on the attached Gantt chart (Figure 5).

At the conclusion of the test pumping, pumping from the test wells will cease and the current extraction wells will be restarted.

IBM Endicott
Groundwater Treatment Train for Aquifer Test Wells

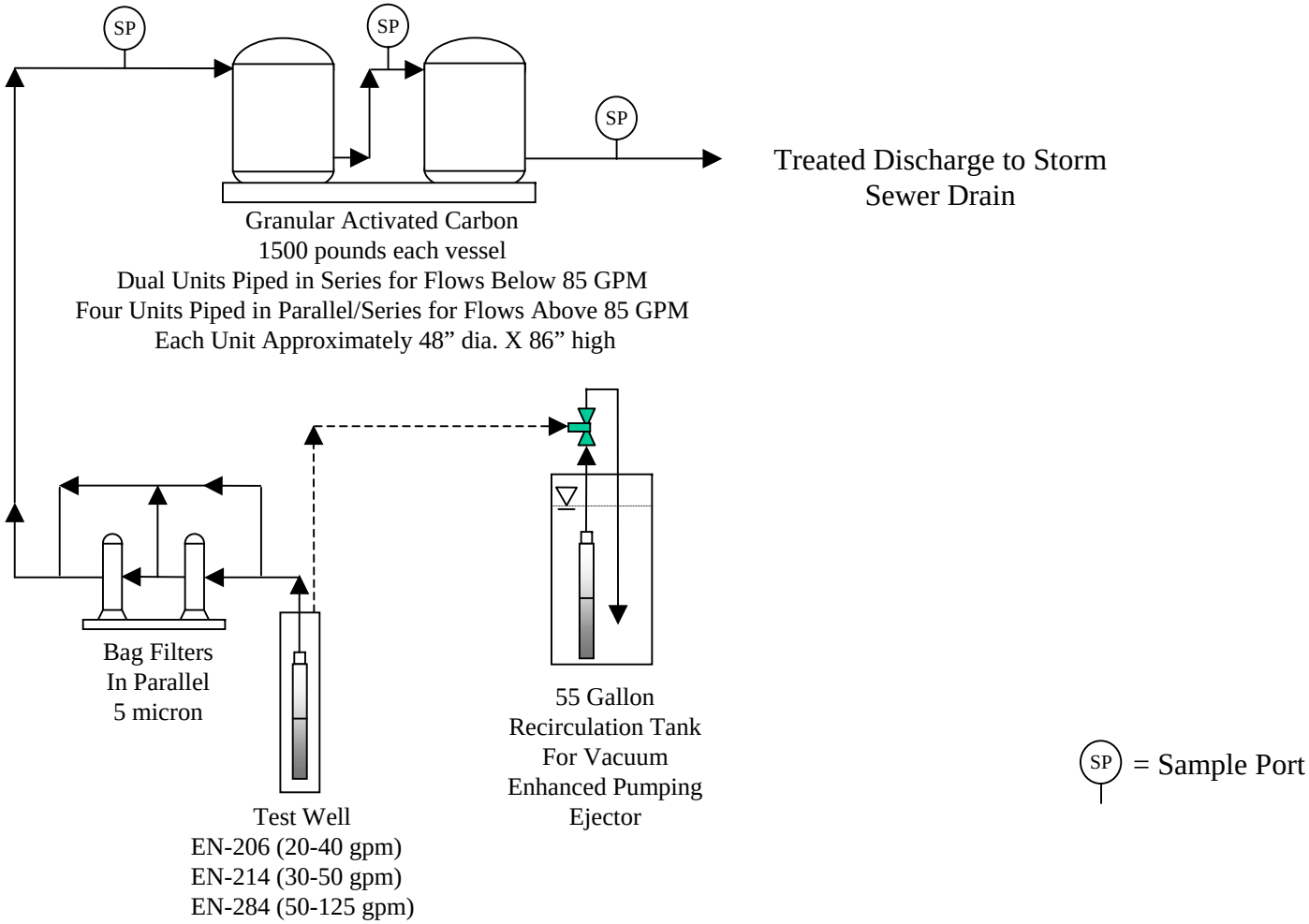
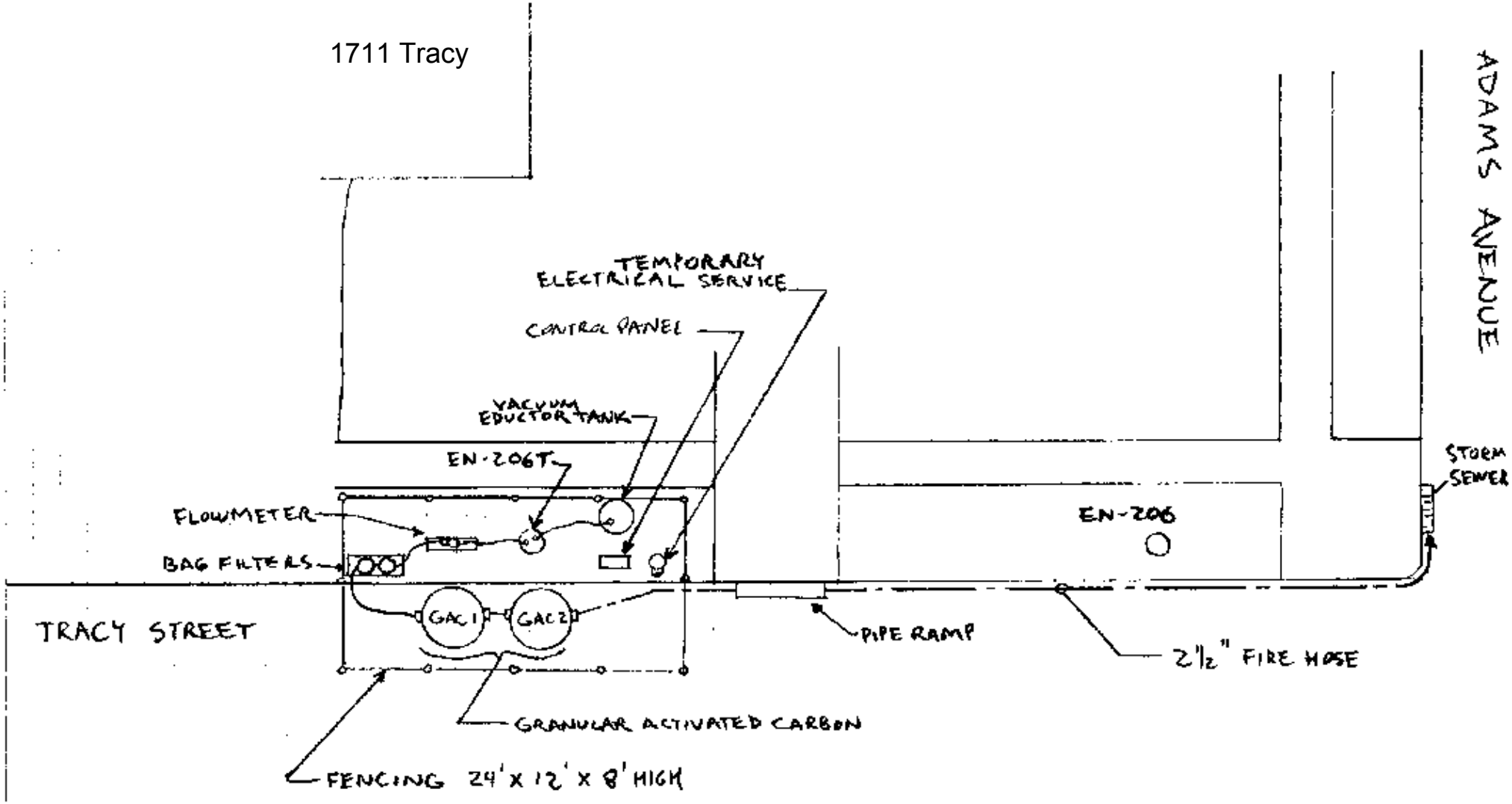
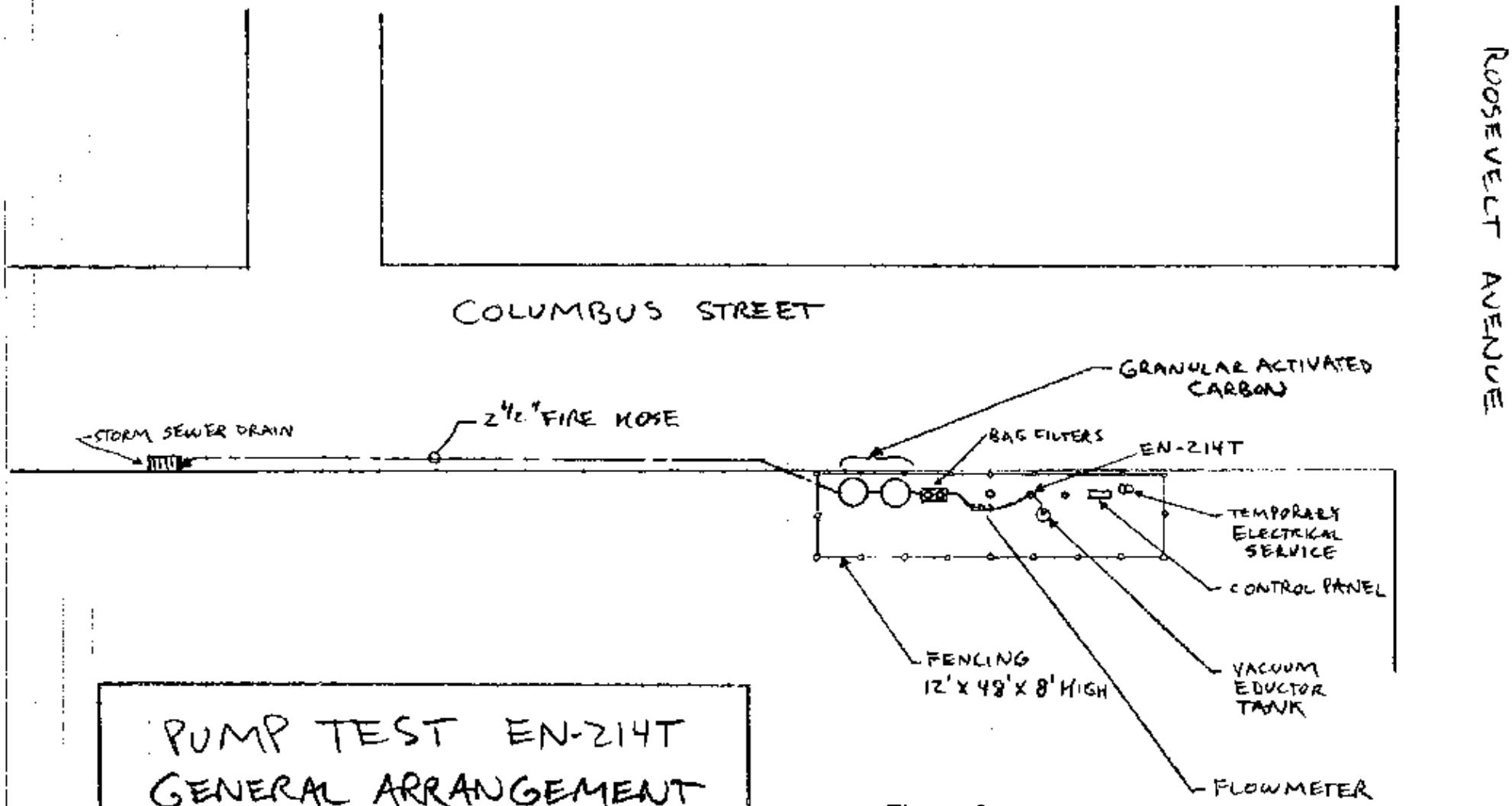


Figure 1



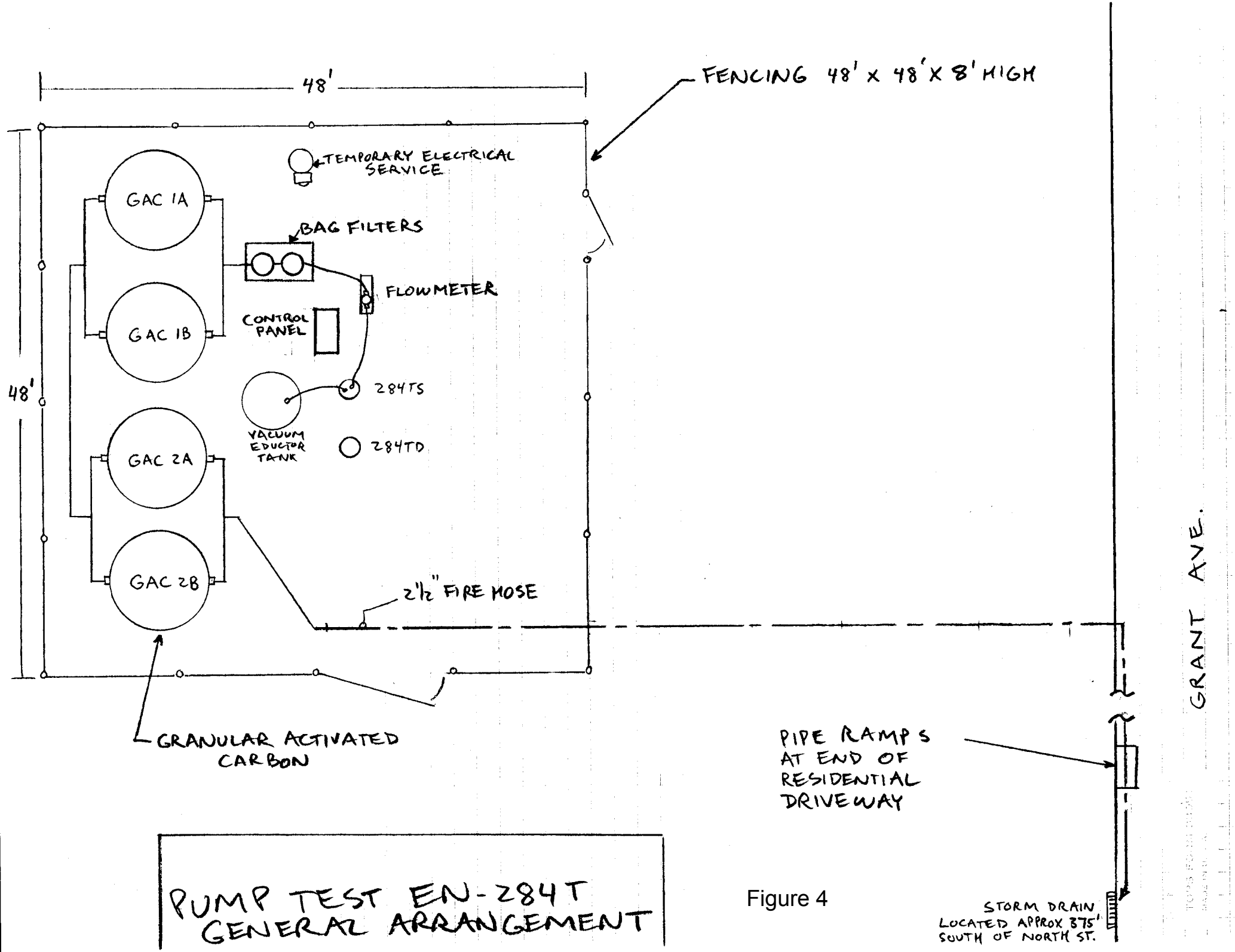
PUMP TEST EN-206T
GENERAL ARRANGEMENT

Figure 2



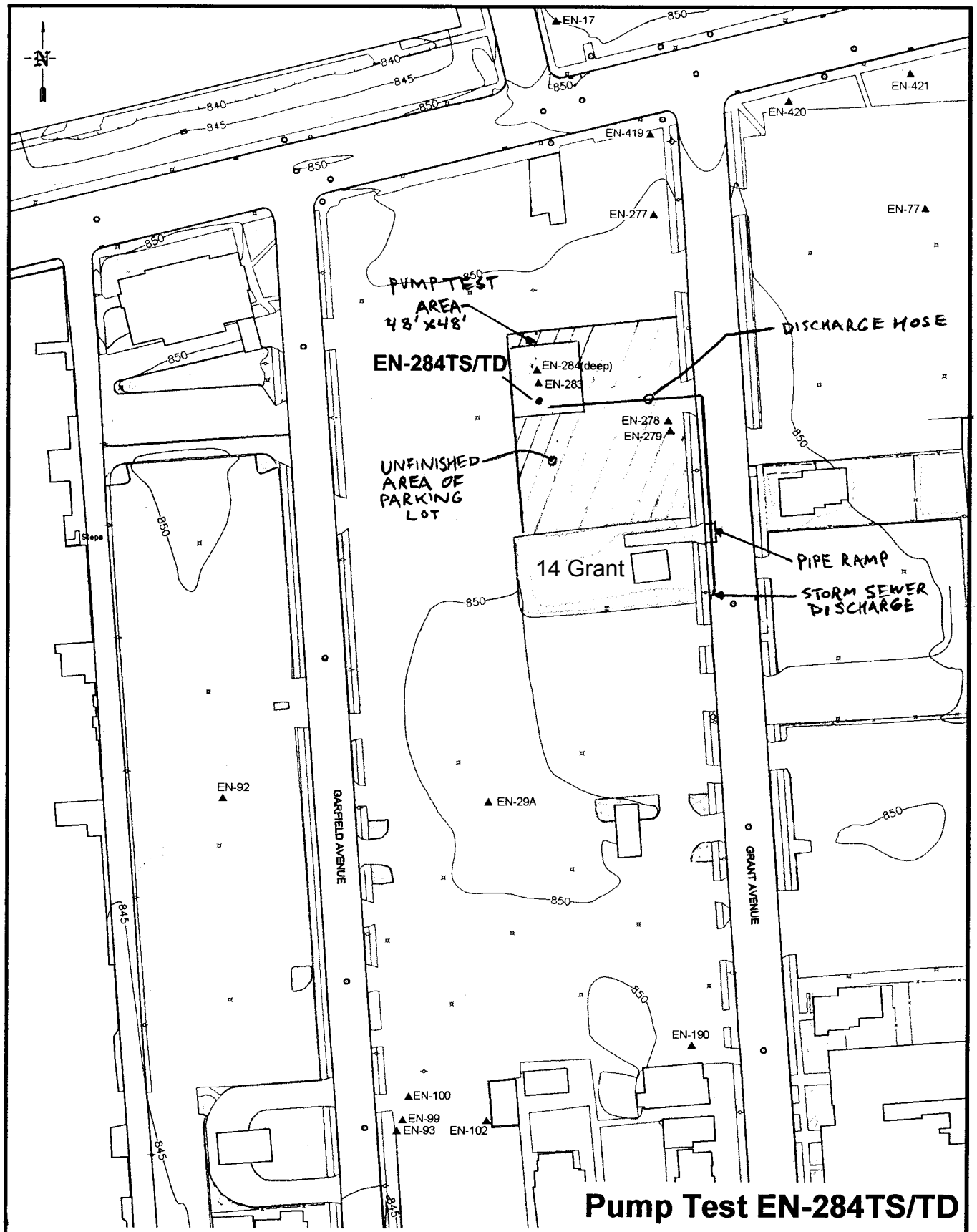
PUMP TEST EN-214T
GENERAL ARRANGEMENT

Figure 3



PUMP TEST EN-284T
GENERAL ARRANGEMENT

Figure 4



Pump Test EN-284TS/TD

Figure 4A

GROUNDWATER SCIENCES CORPORATION

22007-031-A / 10-14-03

Former IBM Endicott Facility
Supplemental Groundwater Assessment
Aquifer Testing Completion Schedule

ID	Task Name
1	
2	**Shutdown, Aquifer and Restart Test Monitoring ***
3	Install Trolls for Shutdown Test
4	Collect Antecedent Water Level Data
5	Shut Down Interceptor Wells
6	Monitor Water Level Recovery
7	Redeploy Trolls For Aquifer Test
8	Monitor Water Levels During Aquifer Test
9	Collect Samples from Sentinel Wells
10	Restart Interceptor Wells
11	Monitor Recovery following Aquifer Tests
12	Remove Trolls
13	**Aquifer Testing**
14	**Effluent Discharge**
15	Acquire Discharge Permit
16	**Test Well at EN-214T**
17	Connect to Treatment and Discharge
18	Develop Test Well
19	Perform Short-term Test
20	Perform Step Drawdown Test
21	Perform Long-term Constant-rate Test
22	Perform Extended Testing (Tentative)
23	**Test Wells at EN-284TD&S**
24	Connect to Treatment and Discharge *
25	Develop Test Wells *
26	Perform Short-term Tests *
27	Perform Step Drawdown Tests *
28	Perform Long-term Constant-rate Test *
29	Perform Extended Testing (Tentative)*
30	**Test Well at EN-206T**
31	Install Test Well
32	Connect to Treatment and Discharge
33	Develop Test Well
34	Perform Short-term Test
35	Perform Step Drawdown Test
36	Perform Long-term Constant-rate Test
37	Perform Extended Testing (Tentative)

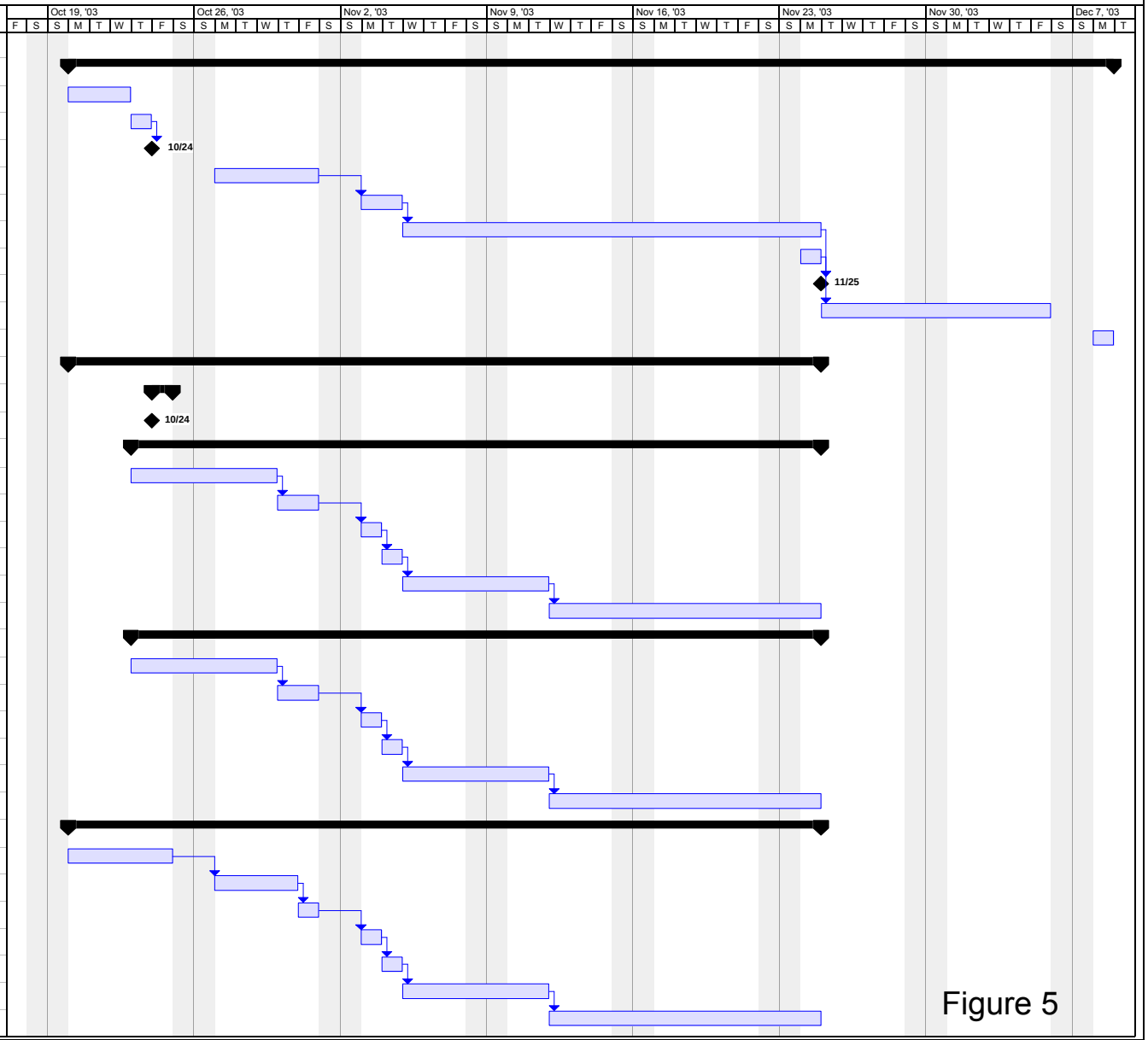


Figure 5

Project: 02007.33.0301
Date: 09/11/03

Task | Progress | Summary | Rolled Up Split | Rolled Up Progress | Project Summary | Deadline
Split | Milestone | Rolled Up Task | Rolled Up Milestone | External Tasks | External Milestone

Groundwater Sciences Corporation

IBM Endicott Extraction Well Shutdown Test
Chronology

Date	Time	Event
10/24/03	16:30	Adams Avenue well group (EN-222, EN-185, and EN-195) shutdown by Huron
do.	16:45	Garfield Avenue well group (EN-120, EN-160, EN-194) shutdown by Huron
do.	17:00	Jefferson Avenue well (EN-133) shutdown by GSC
10/27/03	10:30	Well EN-276 shutdown by Huron
11/24/03	9:24	Garfield Avenue well group restarted
do.	11:00	Adams Avenue well group restarted
12/05/03	12:00	Jefferson Avenue well EN-133 restarted
12/07/03	14:30	Well EN-133 restarted after brief shutdown for a false leak alarm

Supplemental Groundwater Assessment
Pumping Test Chronology

Pumping for EN-284TD:

step test start: 16:15, 11/5/03
step test end: 19:26 11/5/03

constant-rate start: 16:00, 11/7/03
constant-rate end: 12:00, 11/12/03

constant-rate restart: 22:30, 11/14/03
constant-rate end: 16:30, 11/19/03

constant-rate restart: 0:35, 11/25/03
constant-rate end: 16:24, 12/16/03

Pumping for EN-214T:

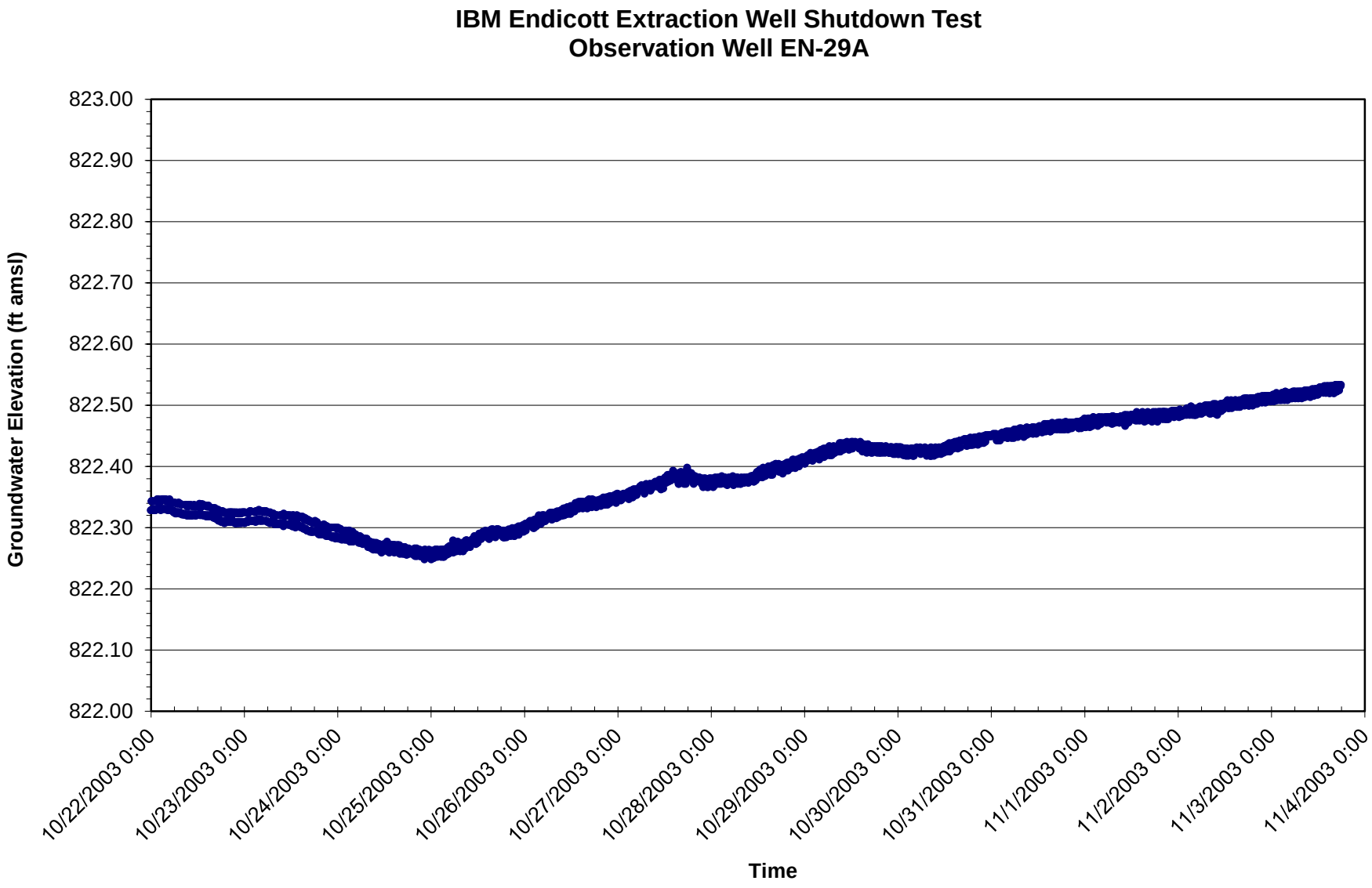
step test start: 17:52, 11/13/03
(constant-rate test started immediately after step test)
constant-rate test end: 20:18 12/16/03

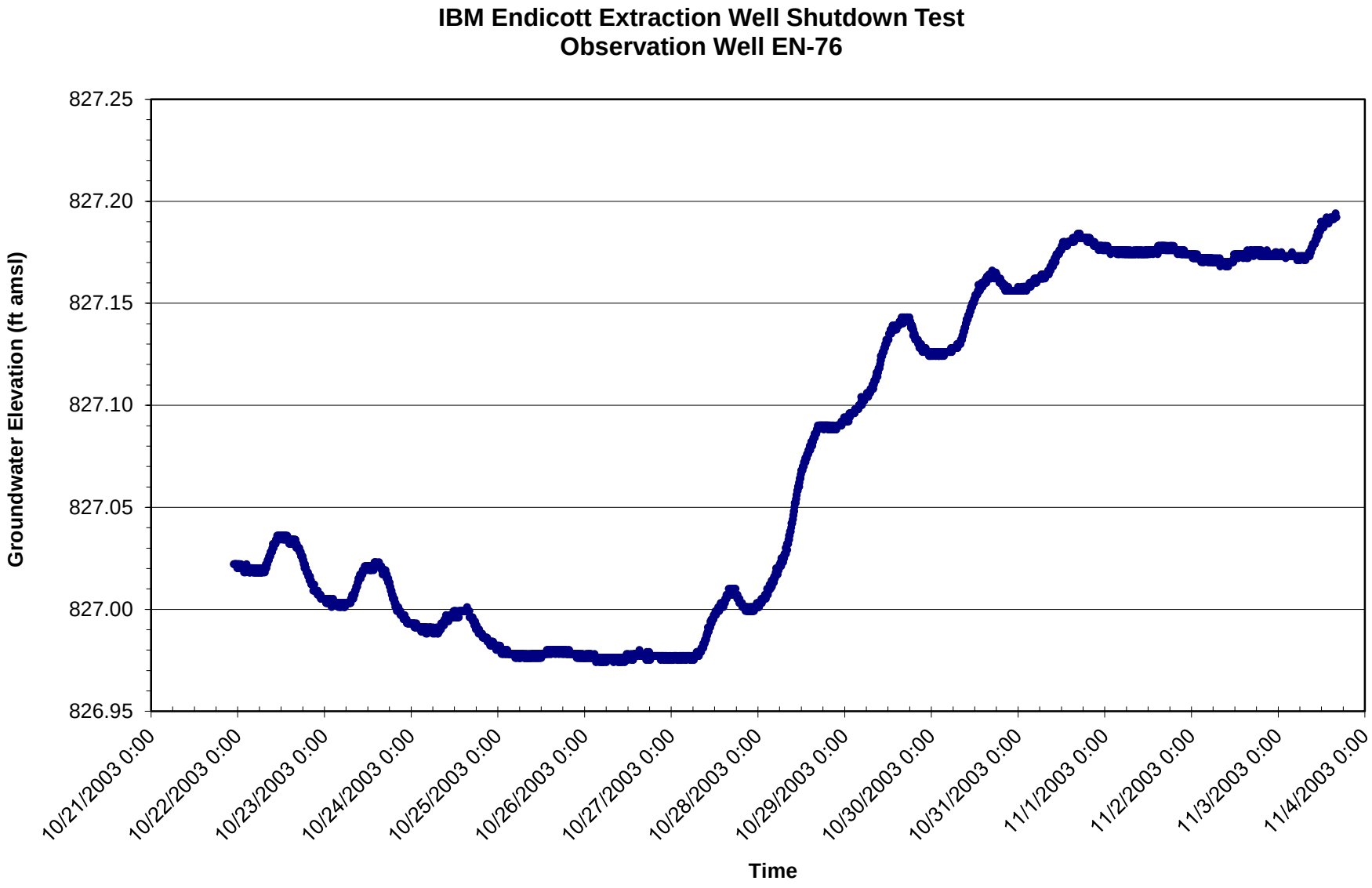
Pumping for EN-206T:

step test start: 17:42, 11/23/03
(constant-rate test started immediately after step test)
constant-rate end: 10:31 11/26/03

2nd step test start: 19:00 12/1/03
2nd step test end: 21:01 12/1/02

2nd constant-rate test start: 0:13, 12/2/03
2nd constant-rate test end: 13:10, 12/9/03


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-29A
Groundwater Elevation (ft amsl)
823.00
822.90
822.80
822.70
822.60
822.50
822.40
822.30
822.20
822.10
822.00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-76
Groundwater Elevation (ft amsl)
827.25
827.20
827.15
827.10
827.05
827.00
826.95
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
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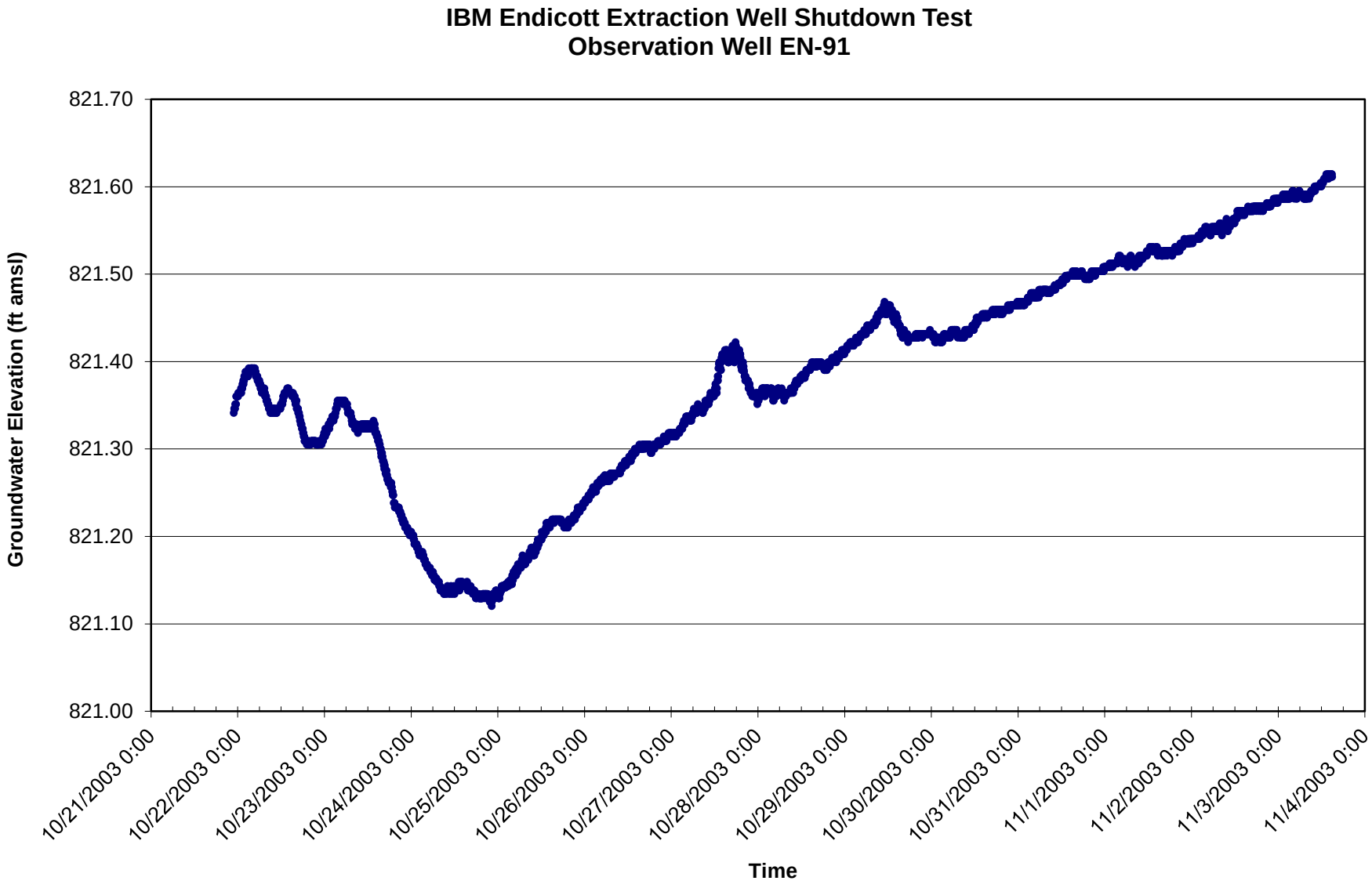
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-91
Groundwater Elevation (ft amsl)
821.70
821.60
821.50
821.40
821.30
821.20
821.10
821.00
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
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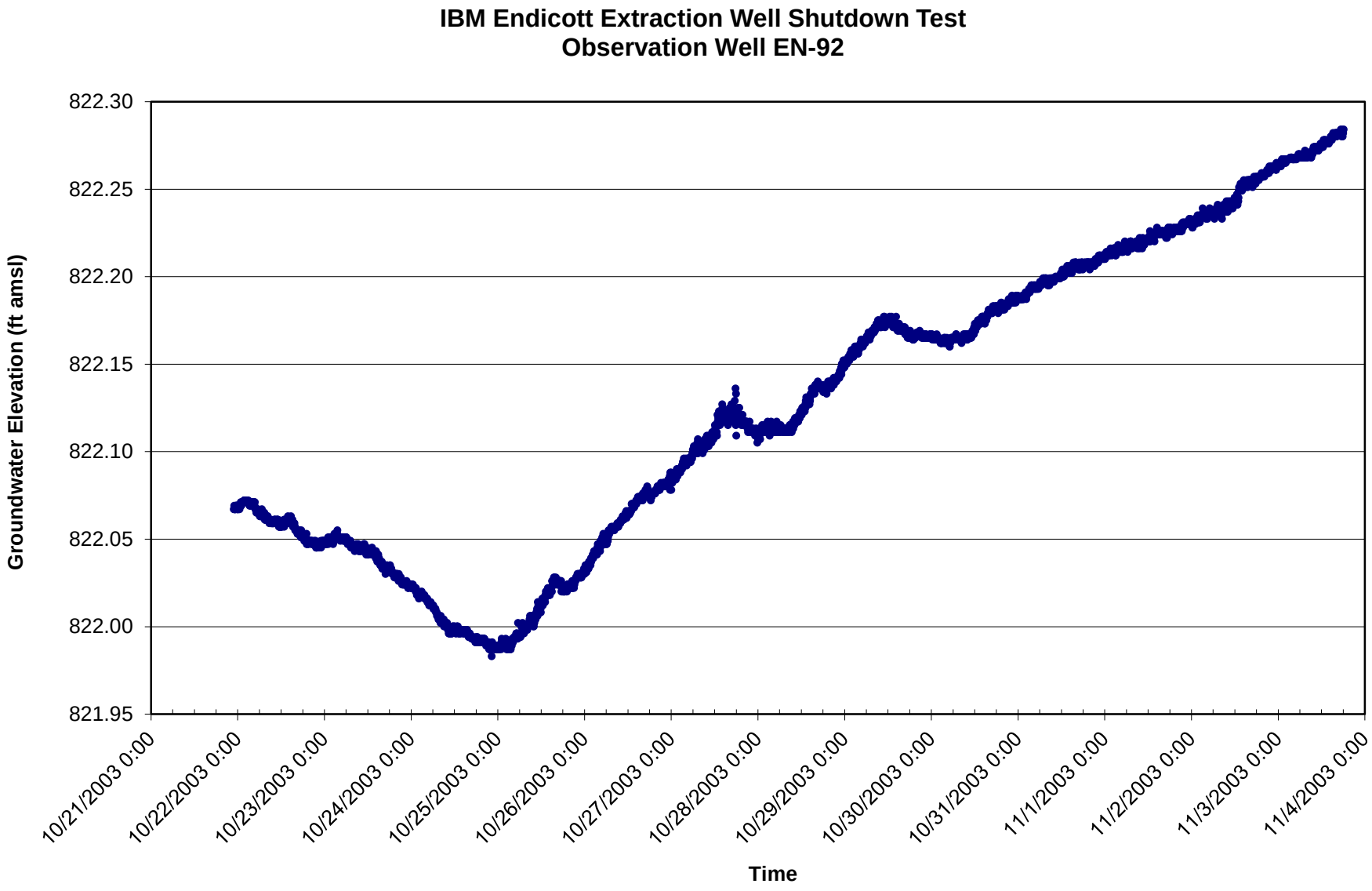
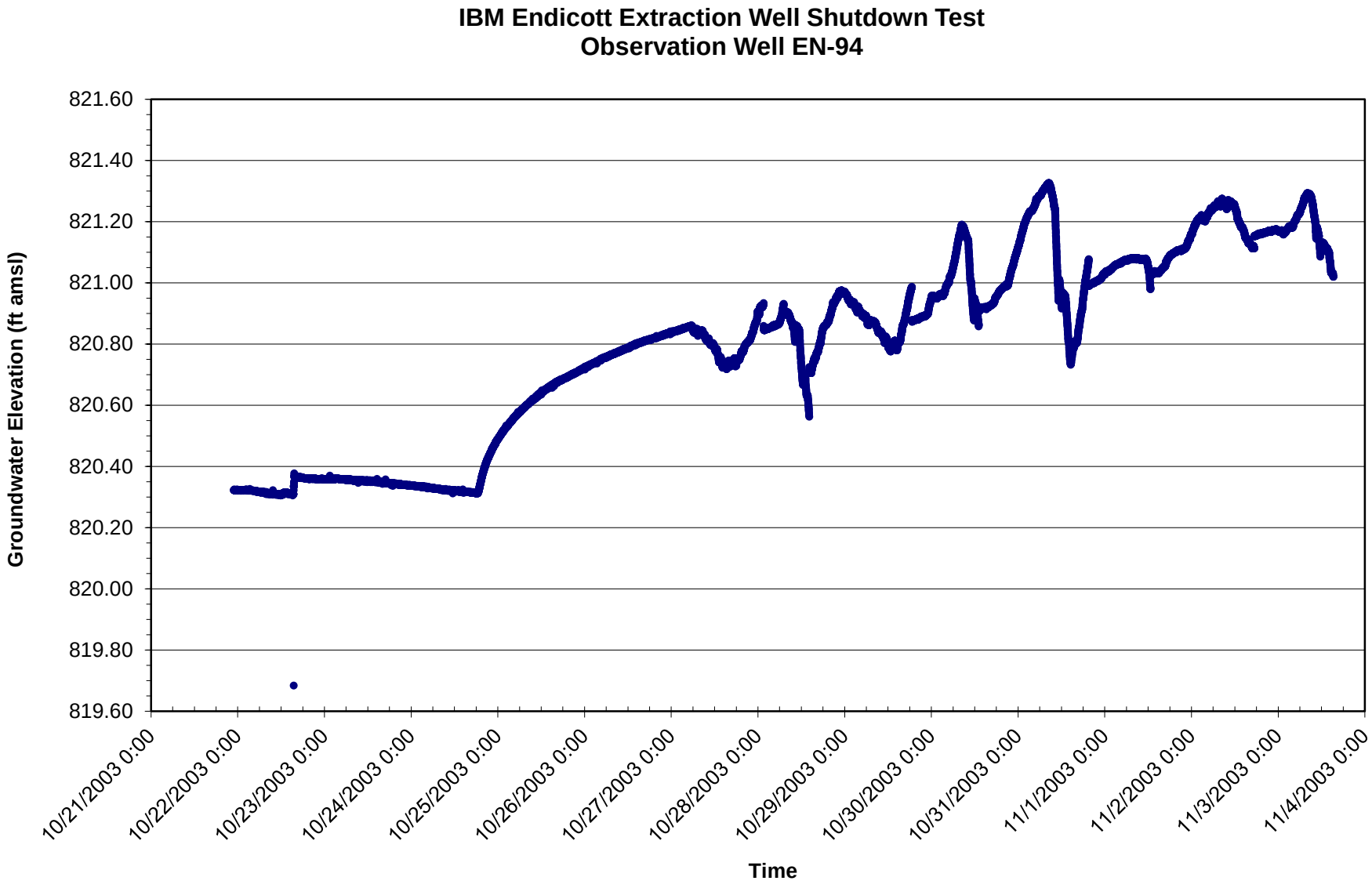
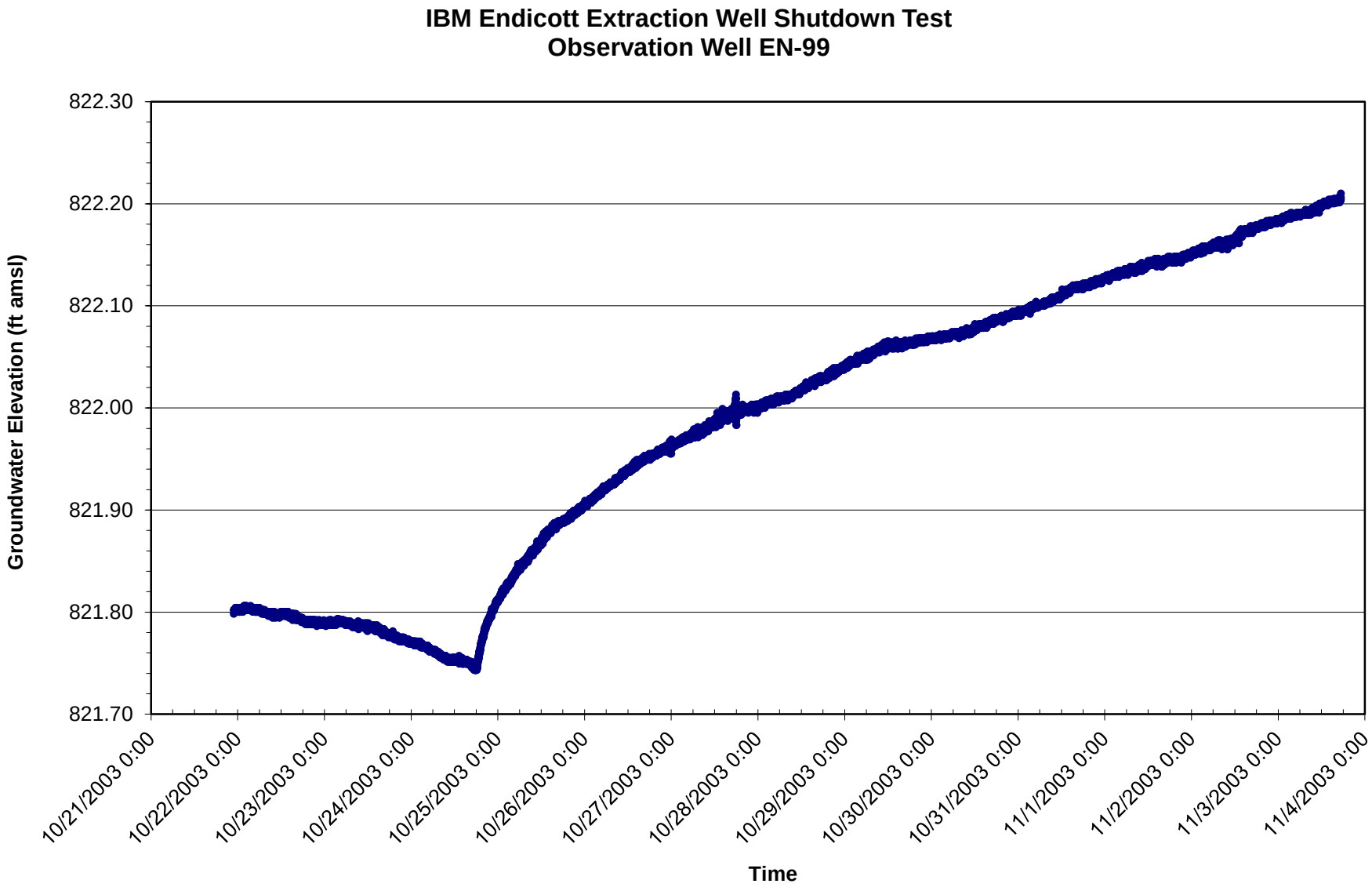
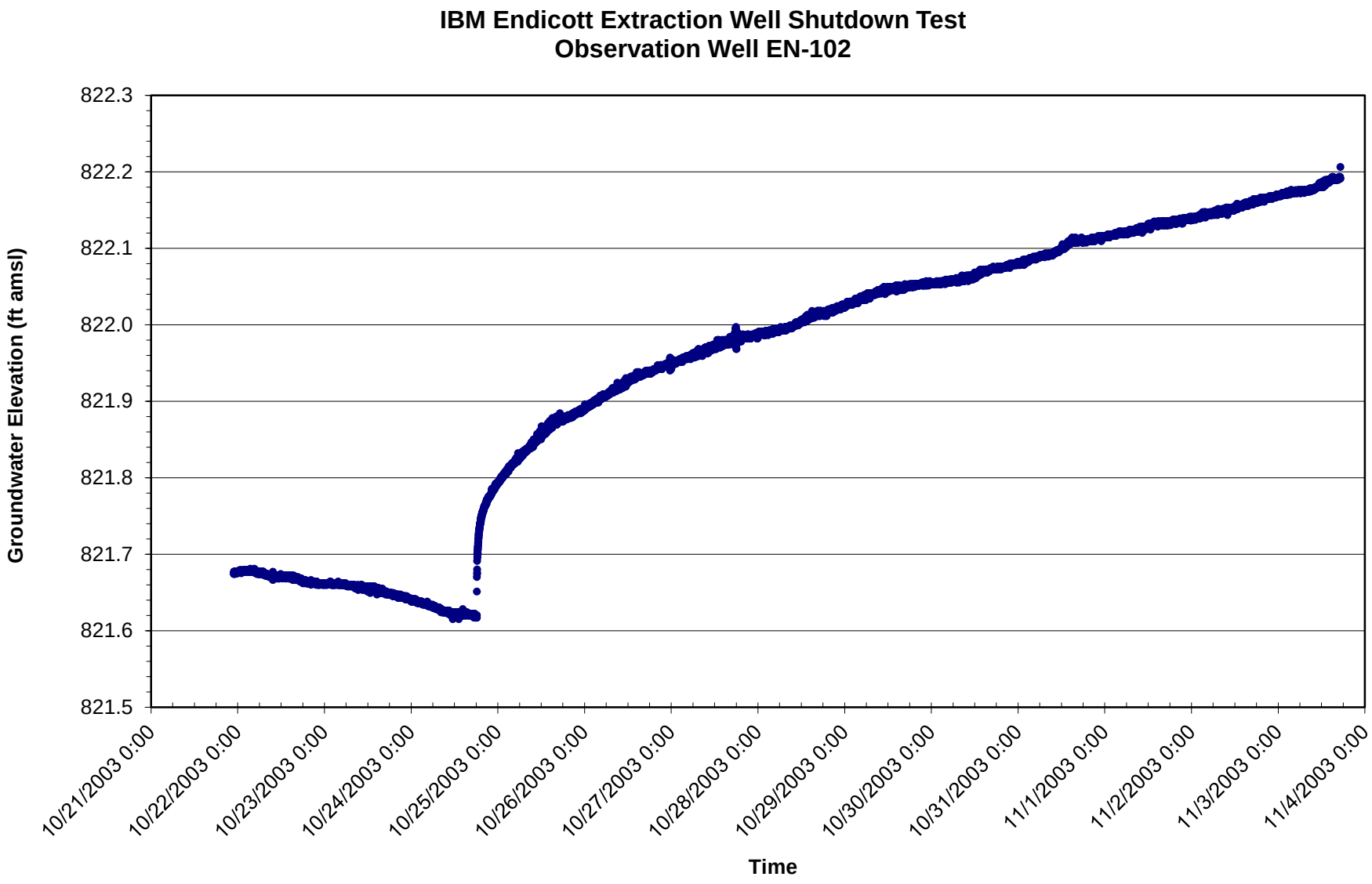
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-92
Groundwater Elevation (ft amsl)
822.30
822.25
822.20
822.15
822.10
822.05
822.00
821.95
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-94
Groundwater Elevation (ft amsl)
821.60
821.40
821.20
821.00
820.80
820.60
820.40
820.20
820.00
819.80
819.60
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-99
Groundwater Elevation (ft amsl)
822.30
822.20
822.10
822.00
821.90
821.80
821.70
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-102
Groundwater Elevation (ft amsl)
822.3
822.2
822.1
822.0
821.9
821.8
821.7
821.6
821.5
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
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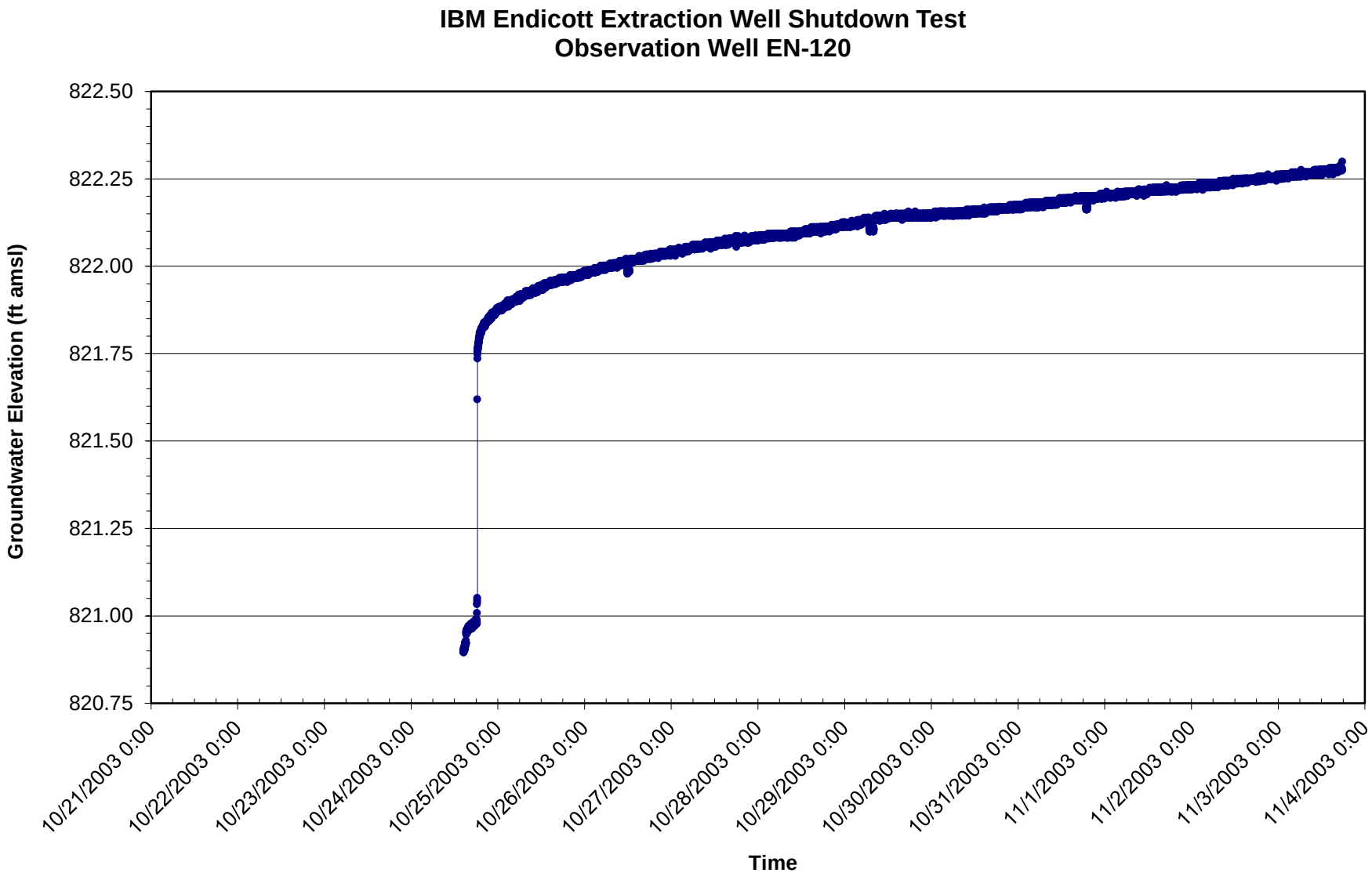
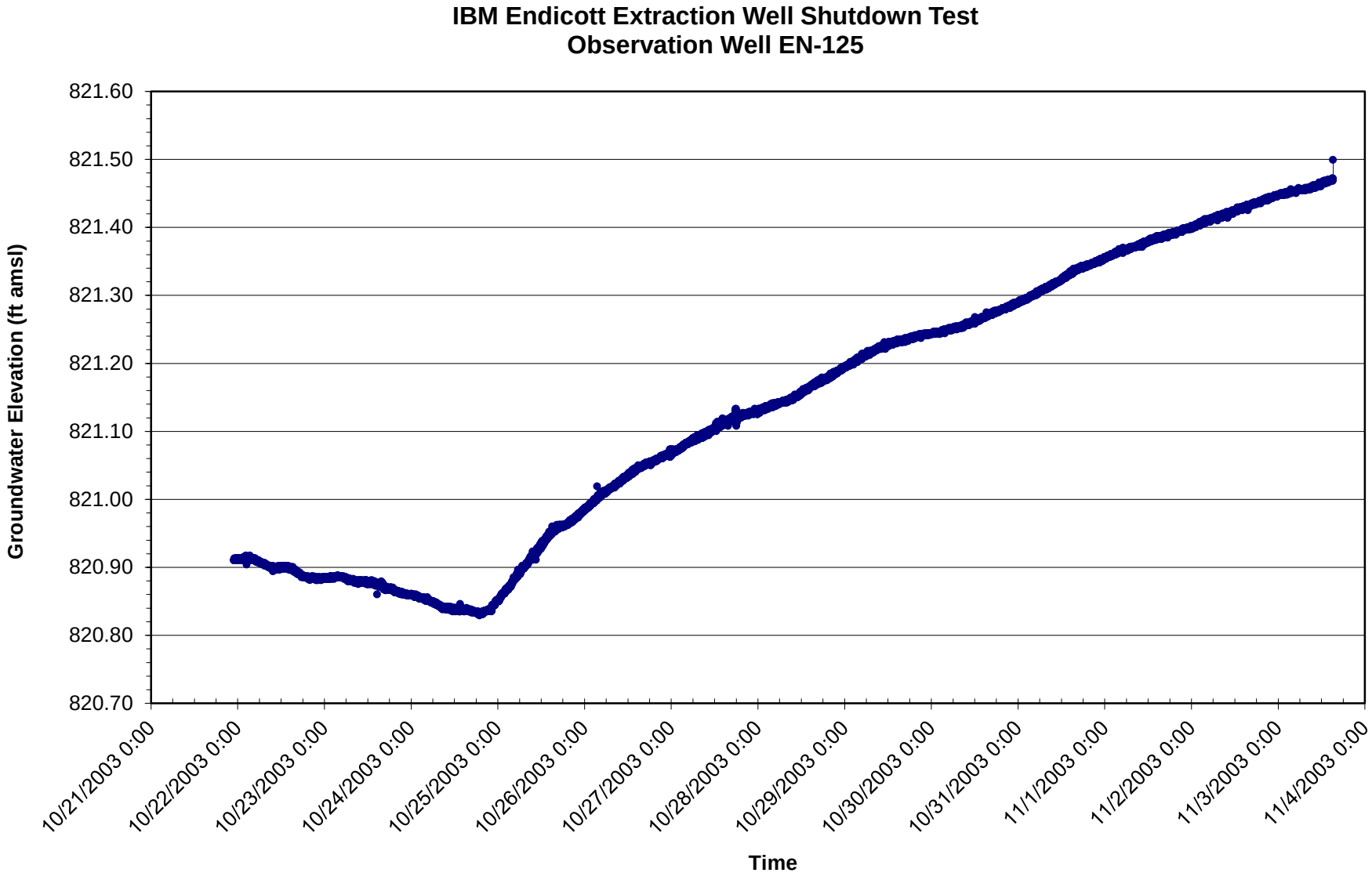
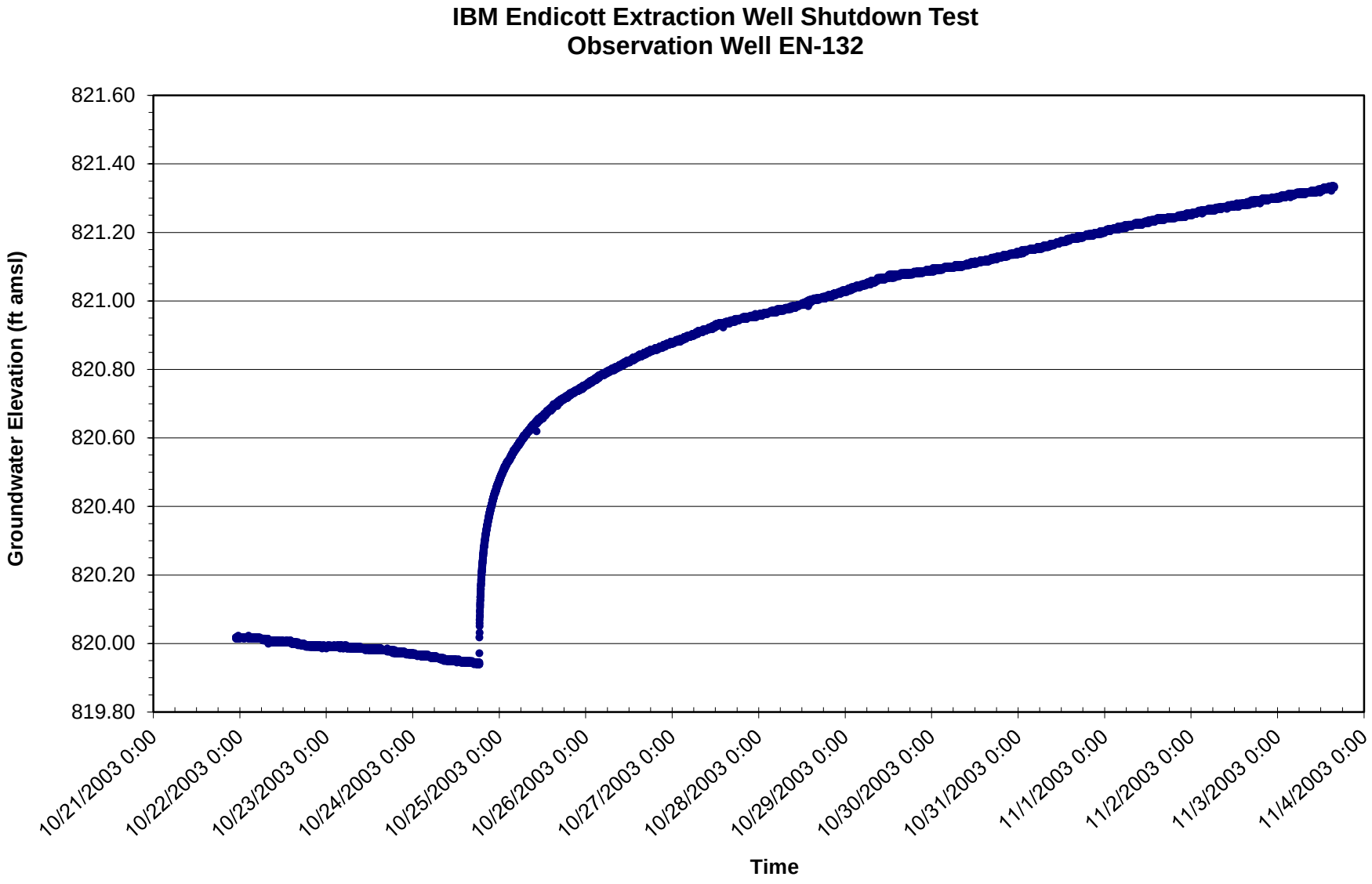
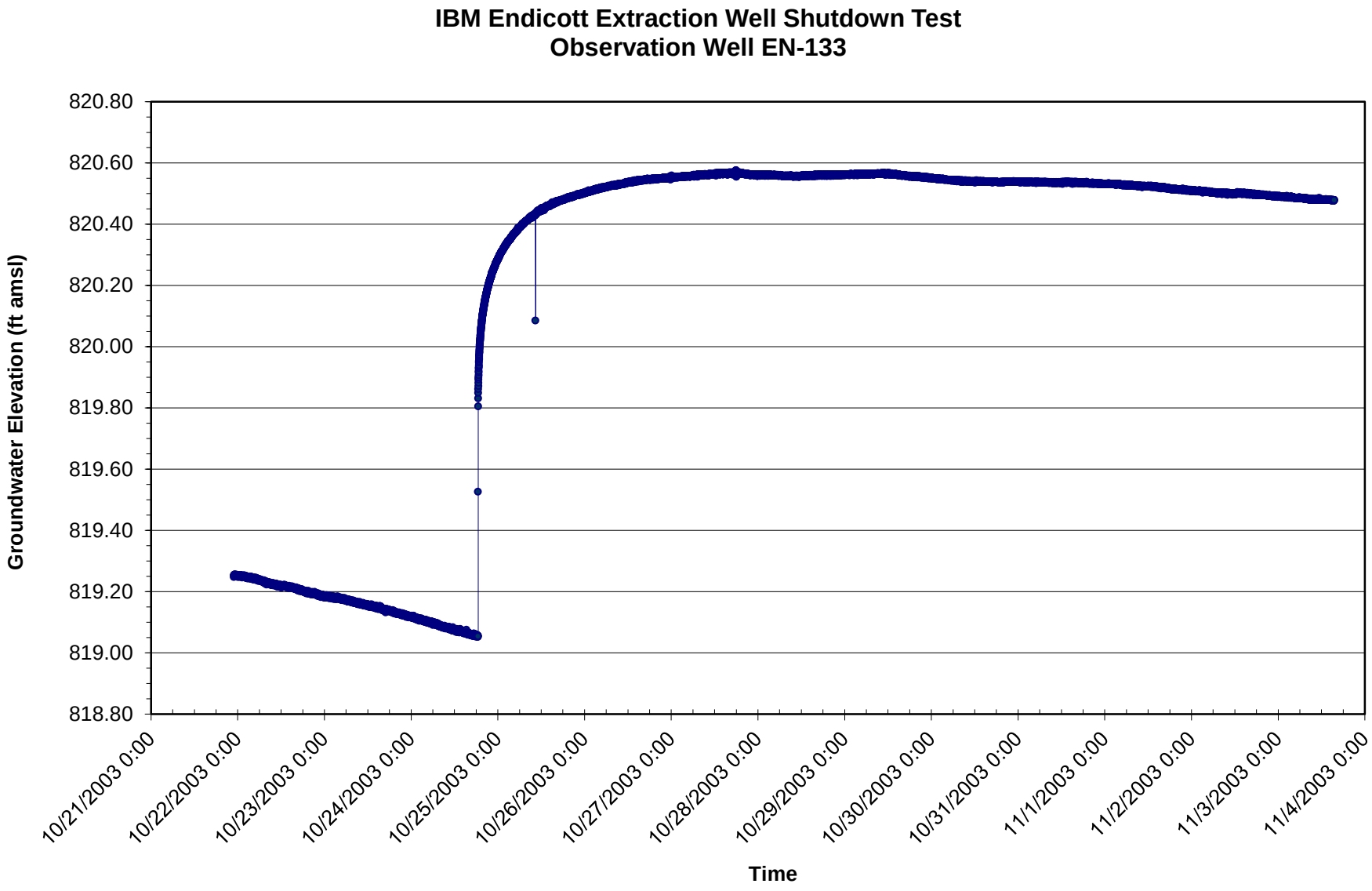
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-120
Groundwater Elevation (ft amsl)
822.50
822.25
822.00
821.75
821.50
821.25
821.00
820.75
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-125
Groundwater Elevation (ft amsl)
821.60
821.50
821.40
821.30
821.20
821.10
821.00
820.90
820.80
820.70
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-132
Groundwater Elevation (ft amsl)
821.60
821.40
821.20
821.00
820.80
820.60
820.40
820.20
820.00
819.80
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-133
Groundwater Elevation (ft amsl)
820.80
820.60
820.40
820.20
820.00
819.80
819.60
819.40
819.20
819.00
818.80
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
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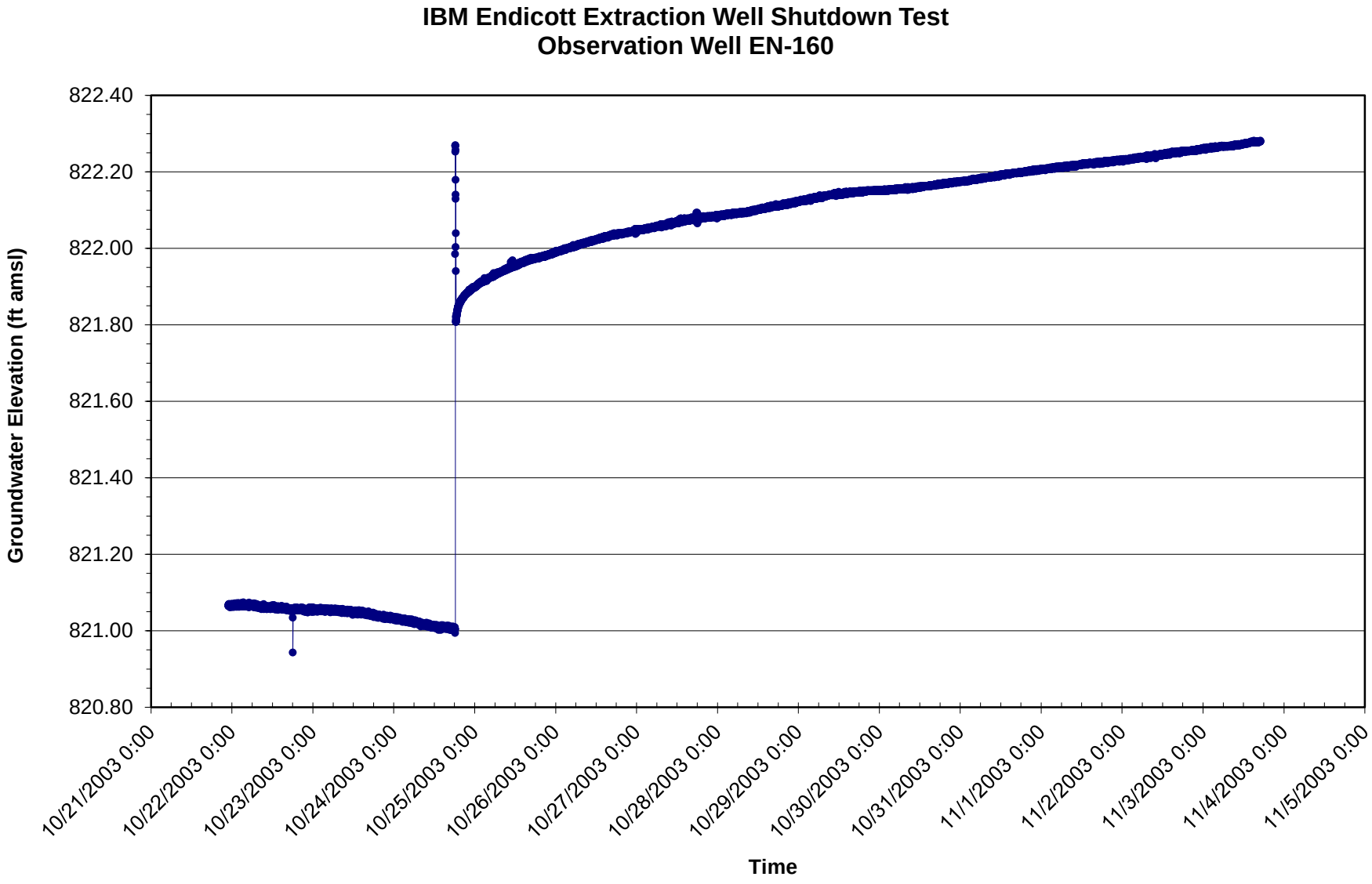
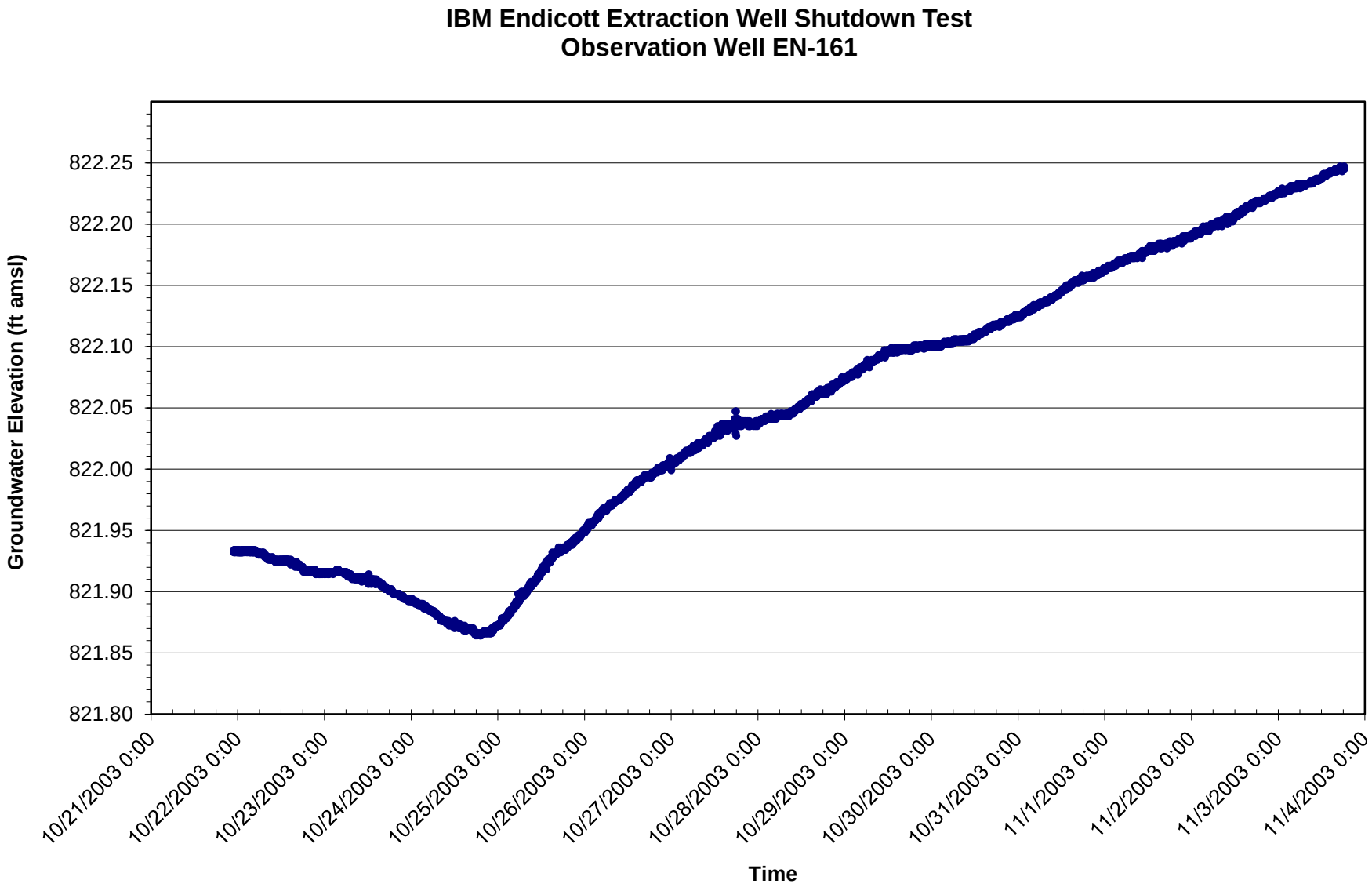
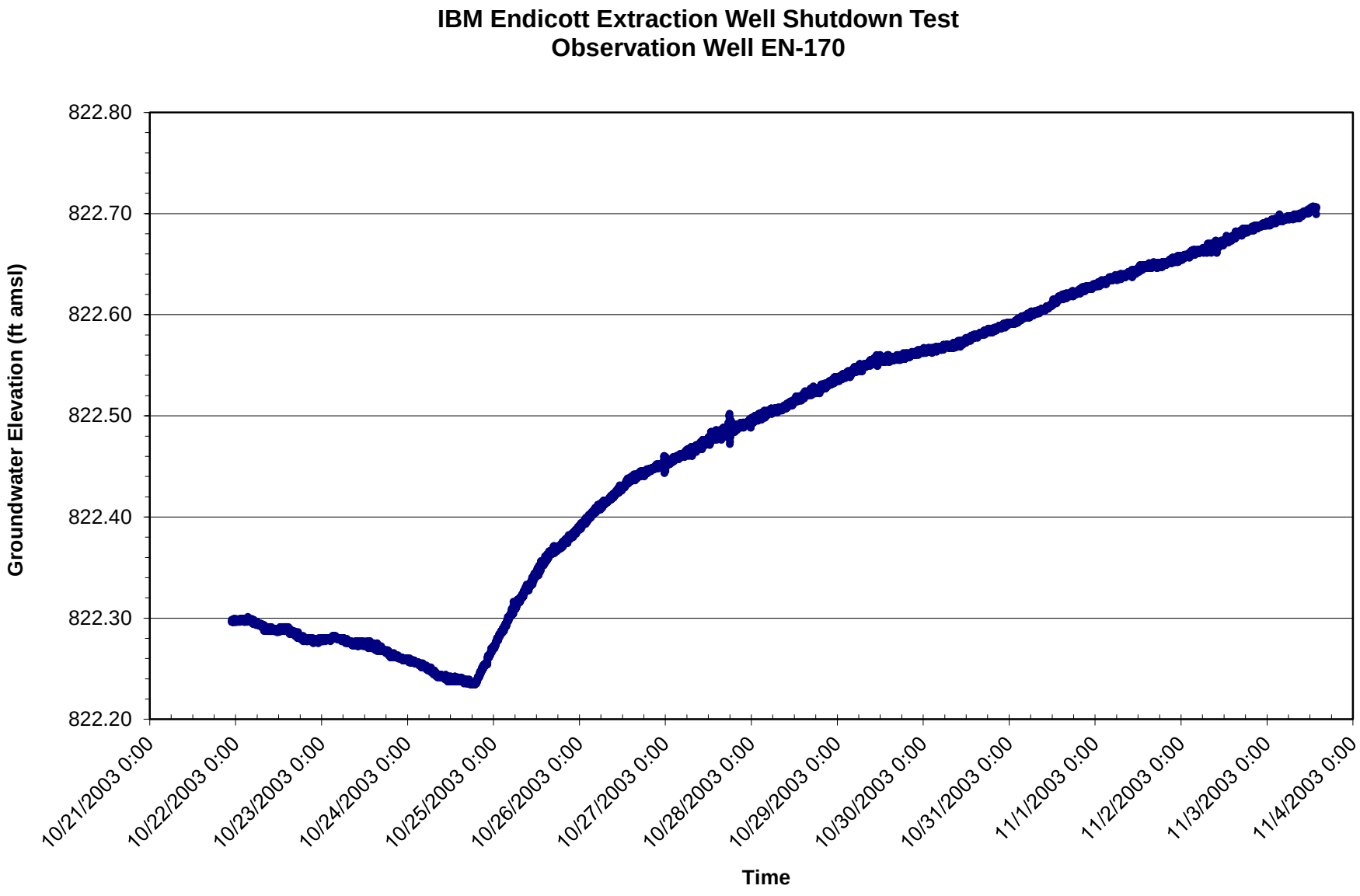
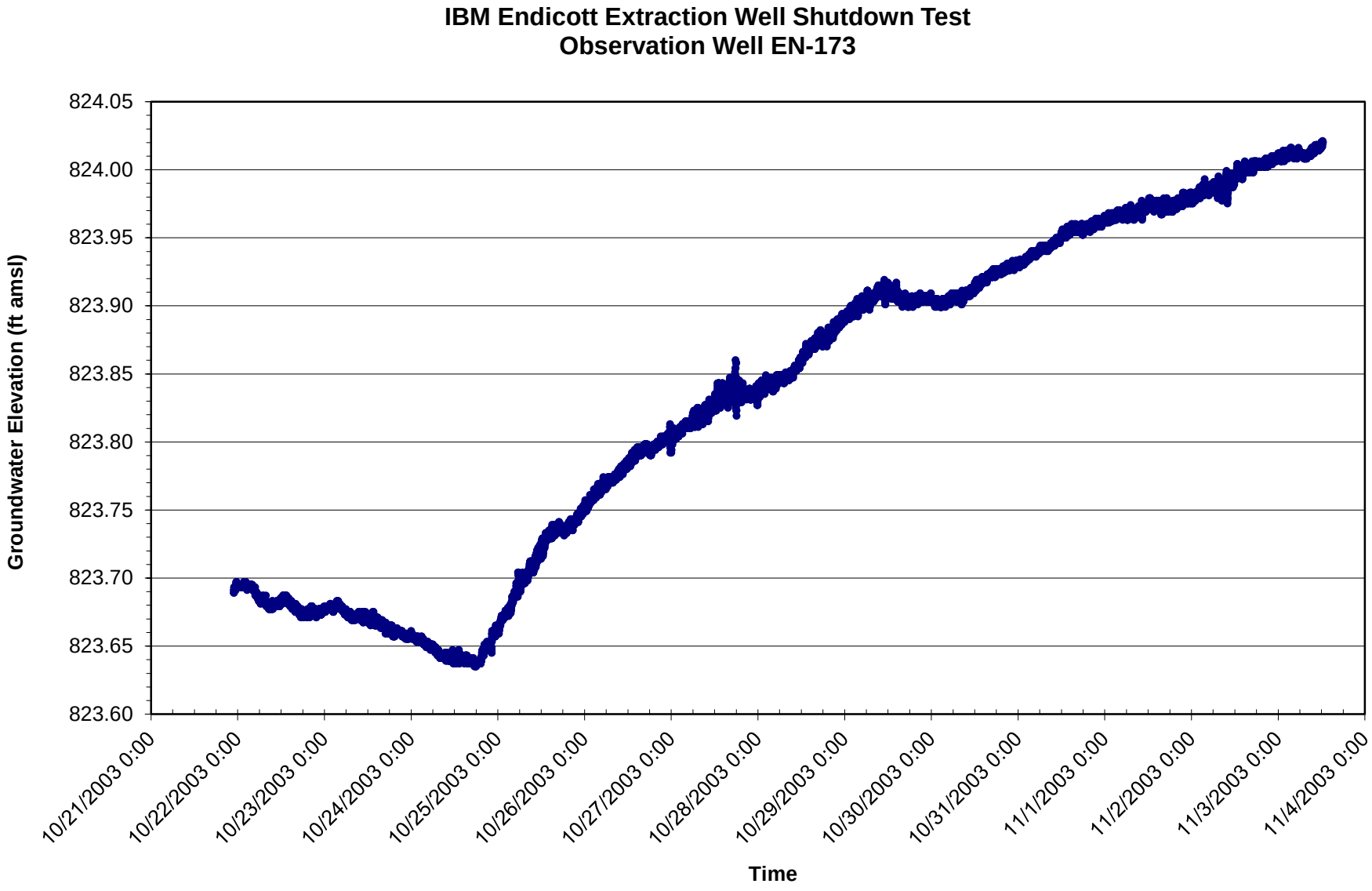
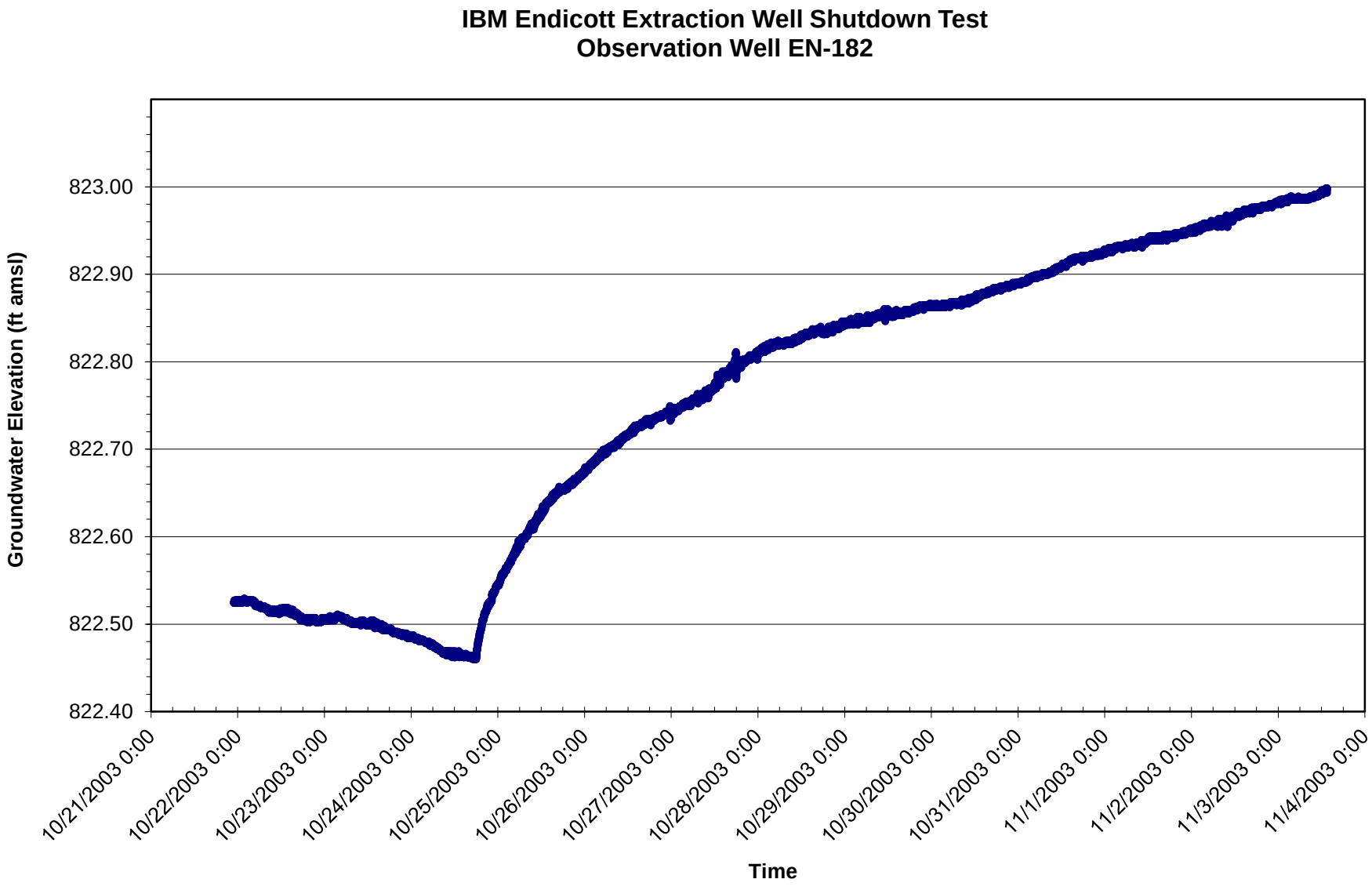
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

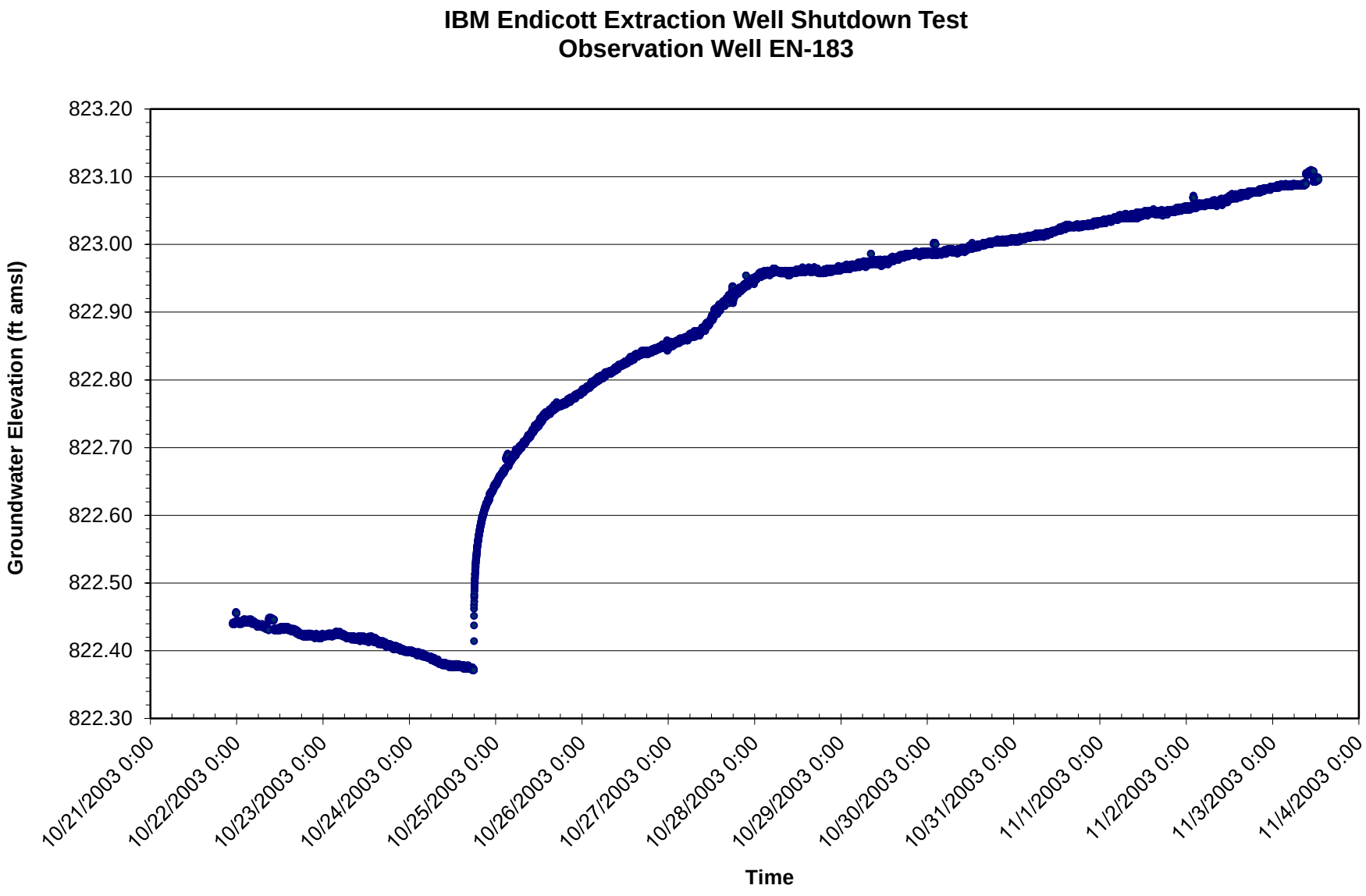

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-160
Groundwater Elevation (ft amsl)
822.40
822.20
822.00
821.80
821.60
821.40
821.20
821.00
820.80
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
11/5/2003 0:00
Time

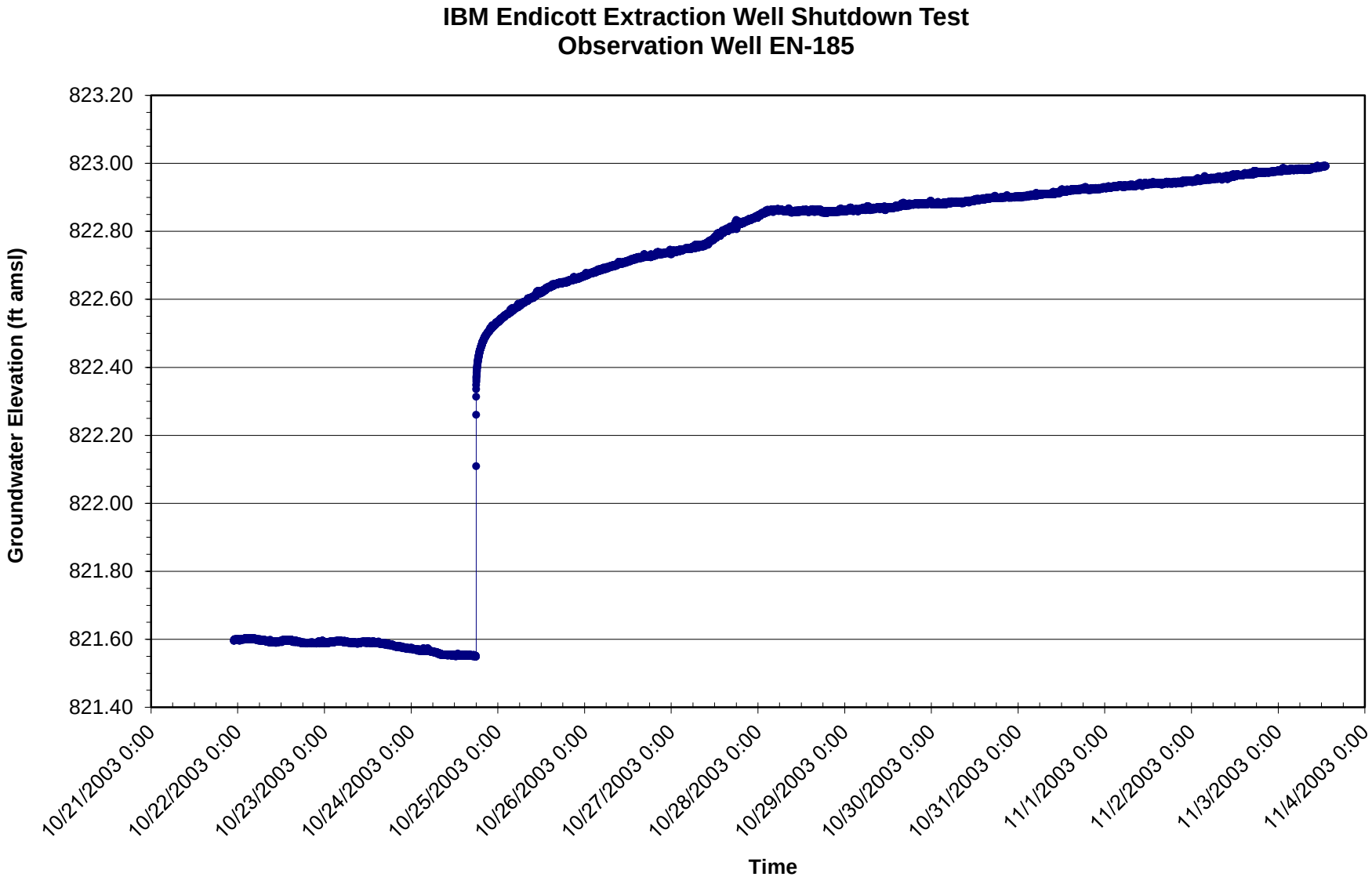

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-161
Groundwater Elevation (ft amsl)
822.25
822.20
822.15
822.10
822.05
822.00
821.95
821.90
821.85
821.80
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

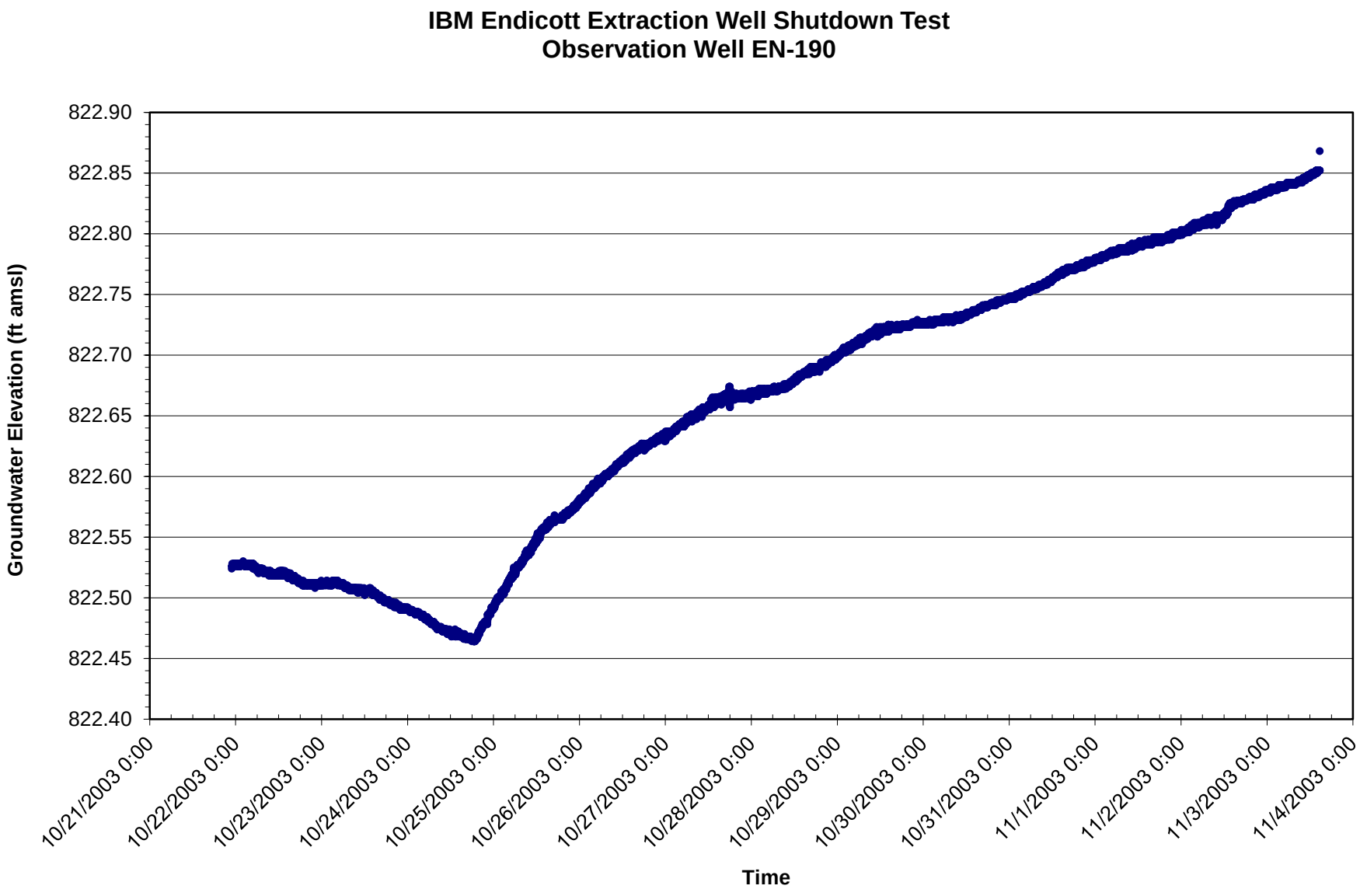

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-170
Groundwater Elevation (ft amsl)
822.80
822.70
822.60
822.50
822.40
822.30
822.20
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

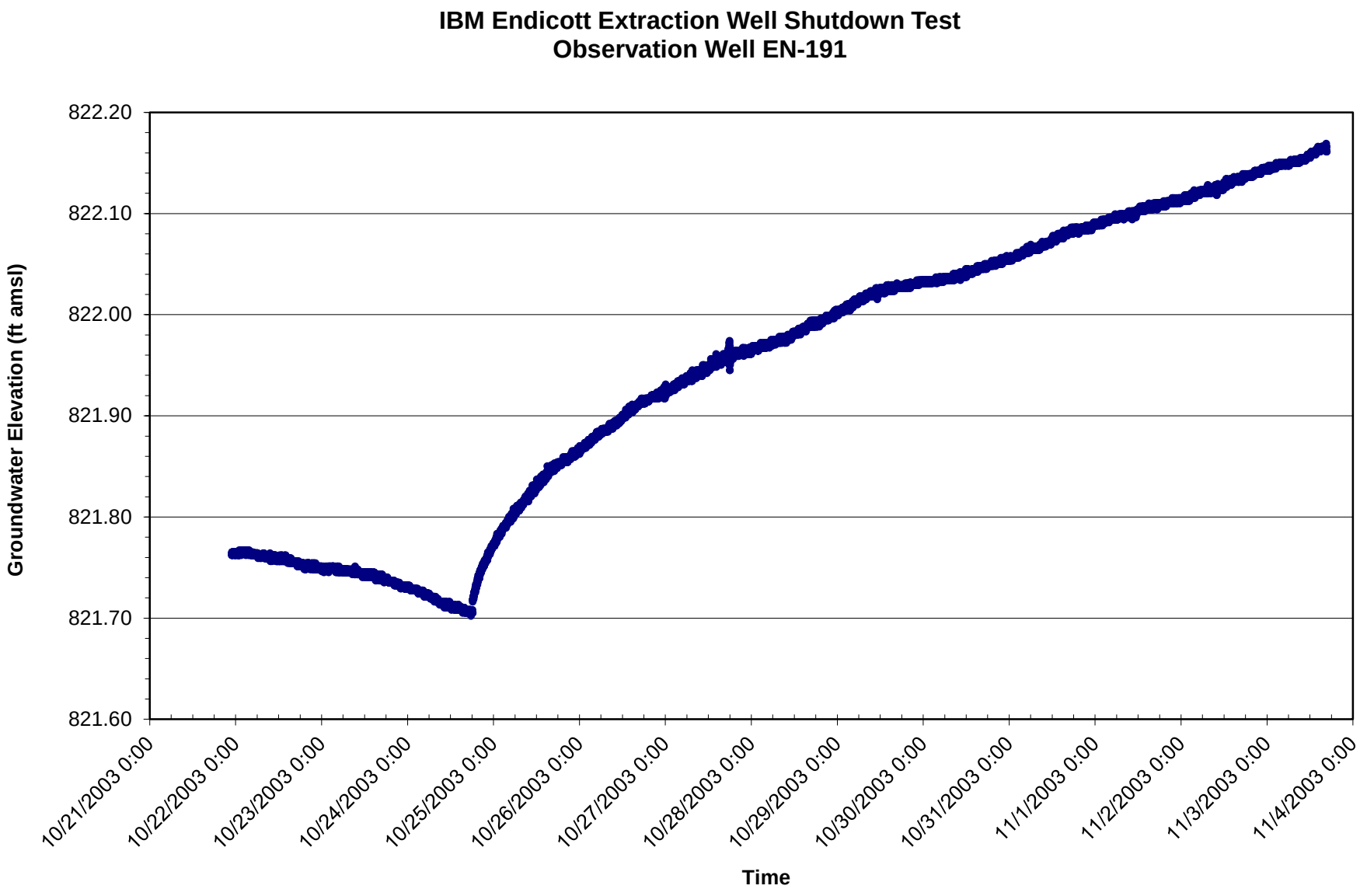

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-173
Groundwater Elevation (ft amsl)
824.05
824.00
823.95
823.90
823.85
823.80
823.75
823.70
823.65
823.60
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

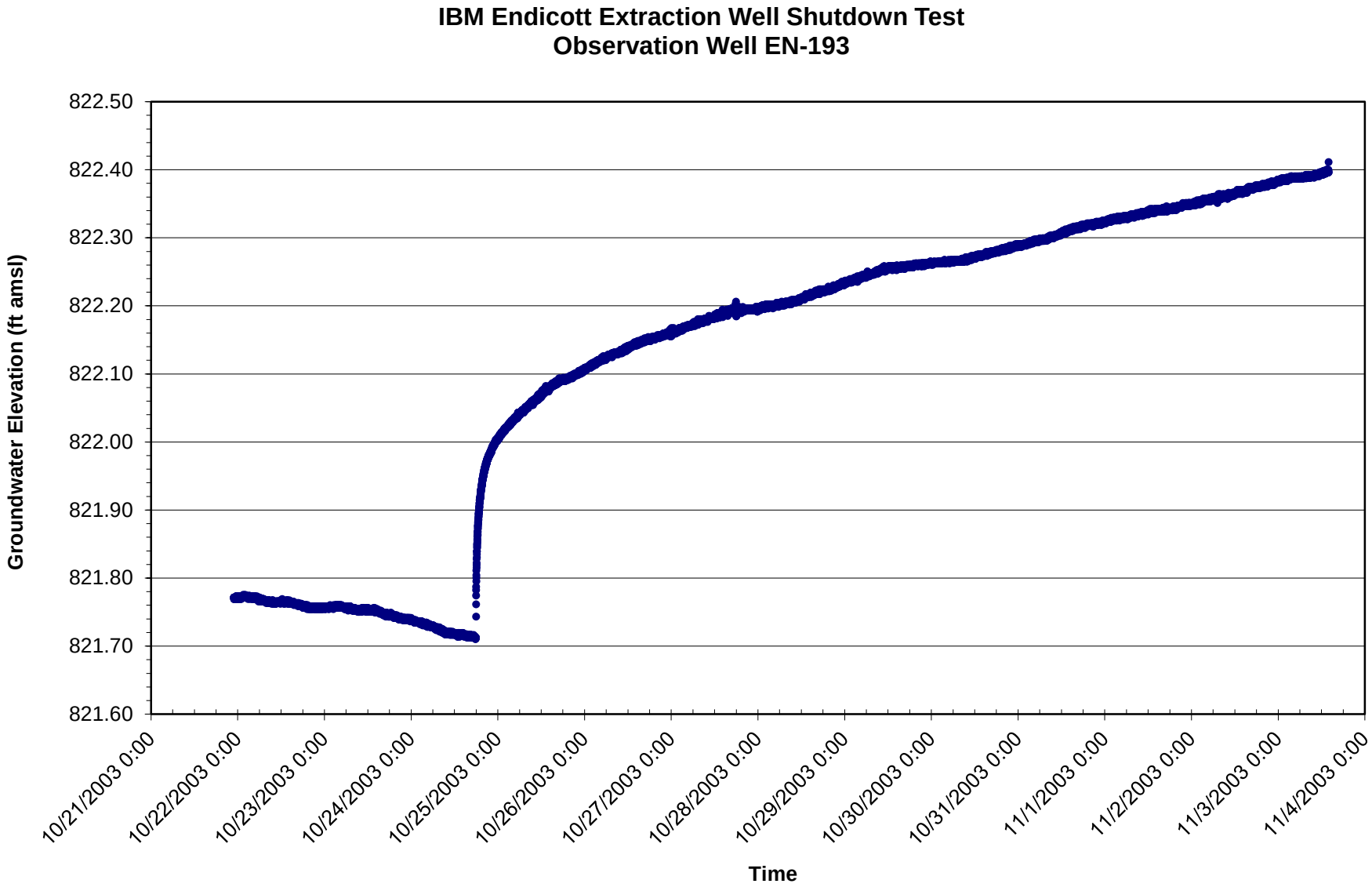

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-182
Groundwater Elevation (ft amsl)
823.00
822.90
822.80
822.70
822.60
822.50
822.40
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

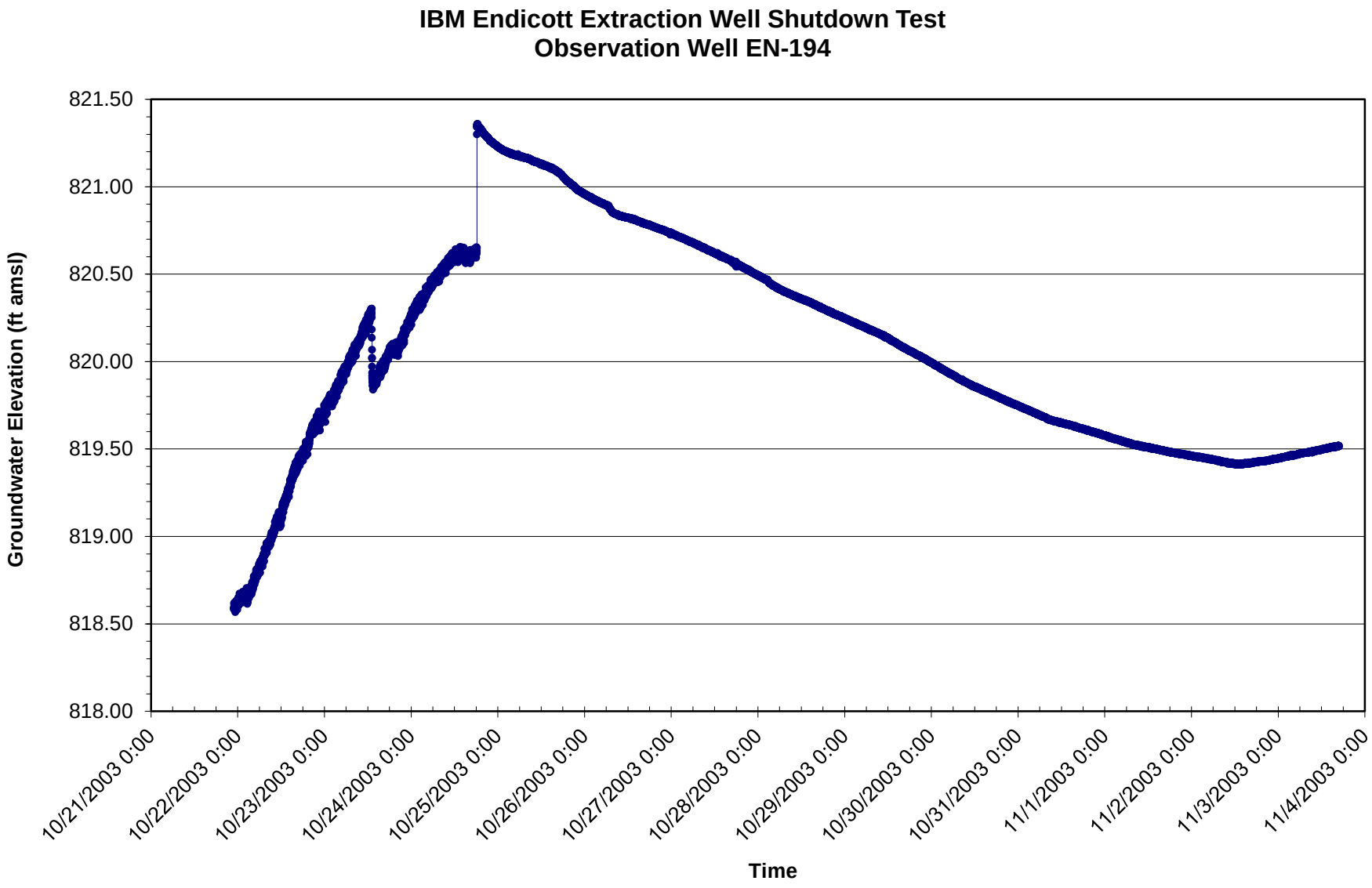

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-183
Groundwater Elevation (ft amsl)
823.20
823.10
823.00
822.90
822.80
822.70
822.60
822.50
822.40
822.30
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

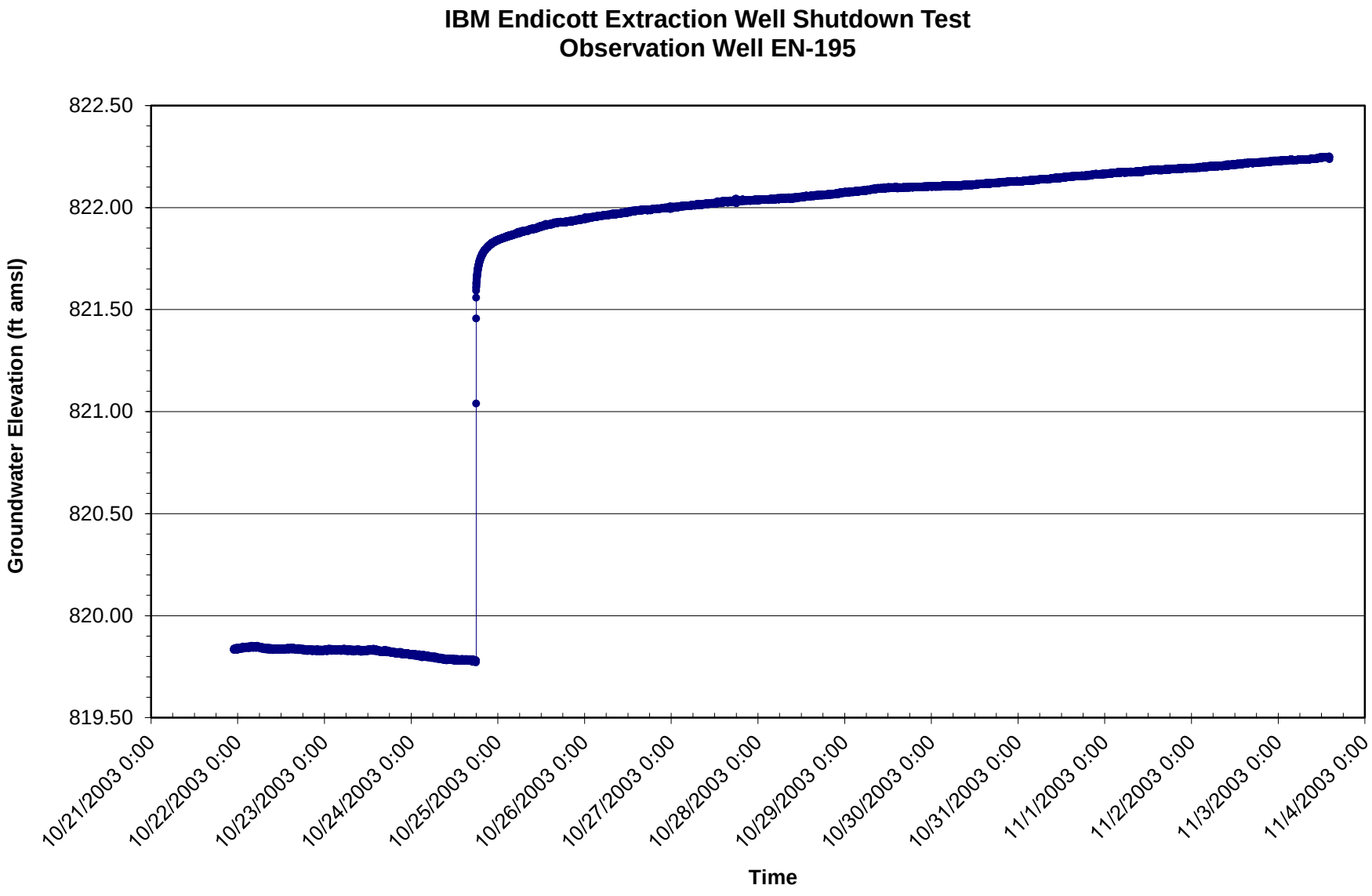

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-185
Groundwater Elevation (ft amsl)
823.20
823.00
822.80
822.60
822.40
822.20
822.00
821.80
821.60
821.40
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

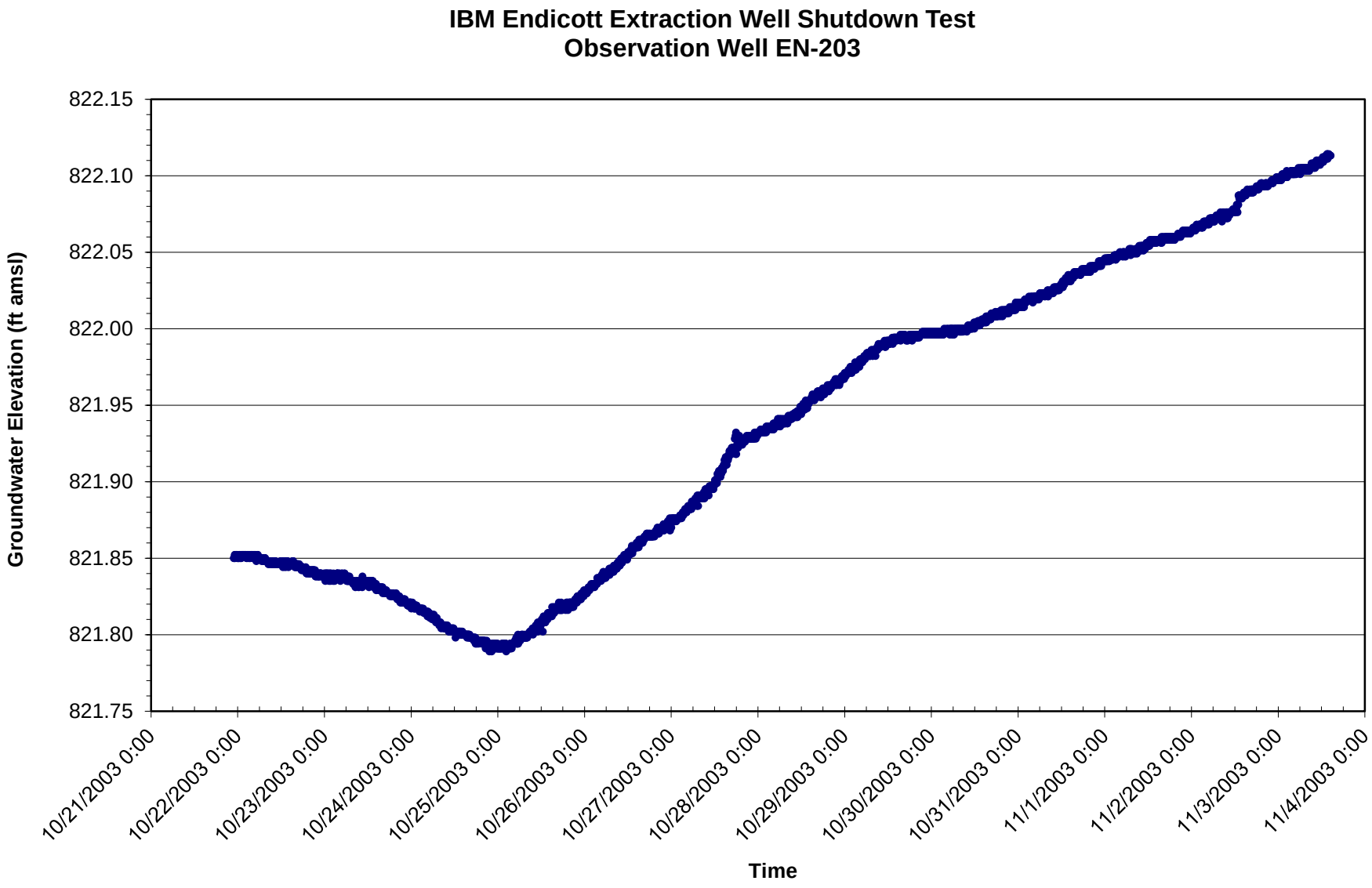

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-190
Groundwater Elevation (ft amsl)
822.90
822.85
822.80
822.75
822.70
822.65
822.60
822.55
822.50
822.45
822.40
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

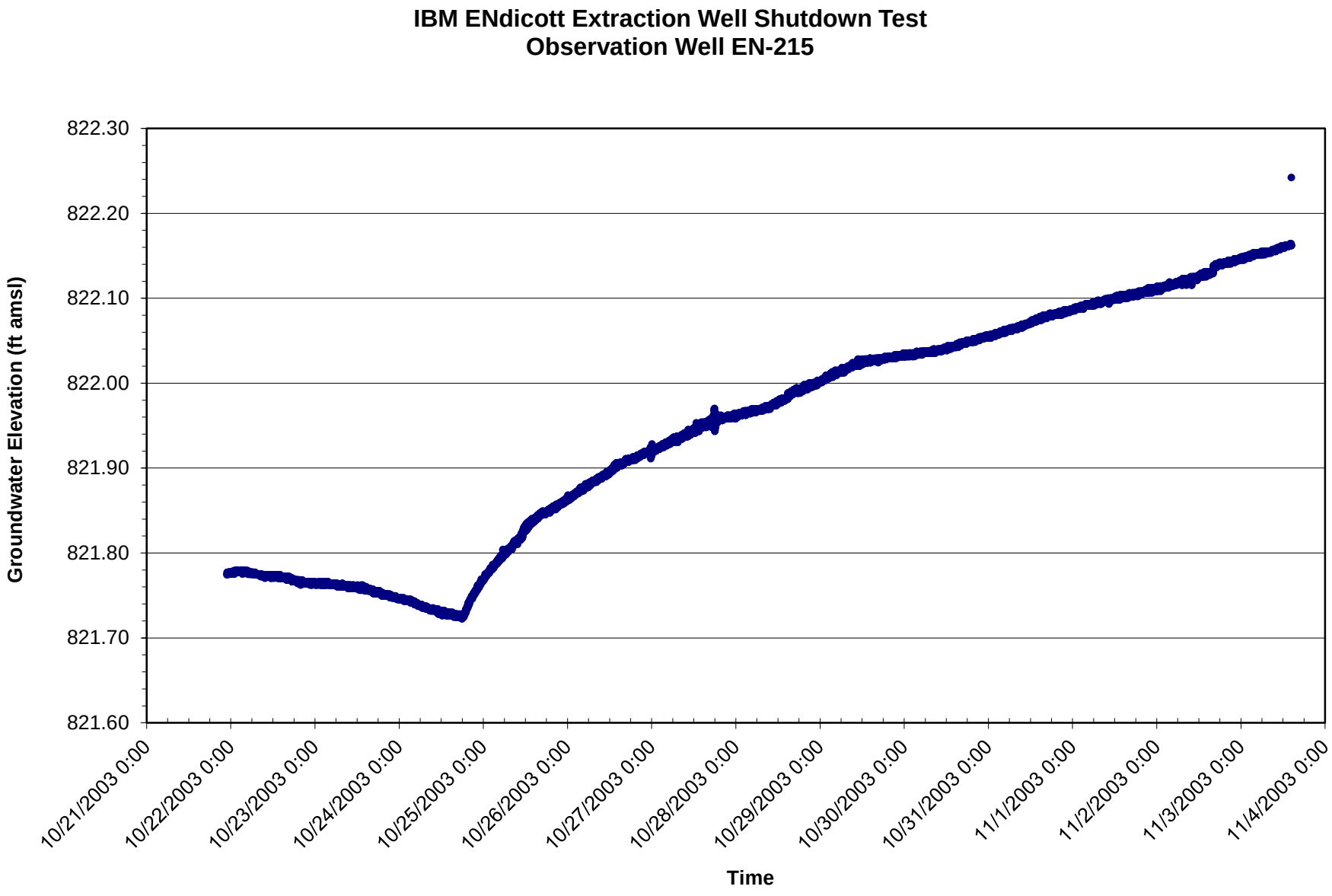

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-191
Groundwater Elevation (ft amsl)
822.20
822.10
822.00
821.90
821.80
821.70
821.60
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

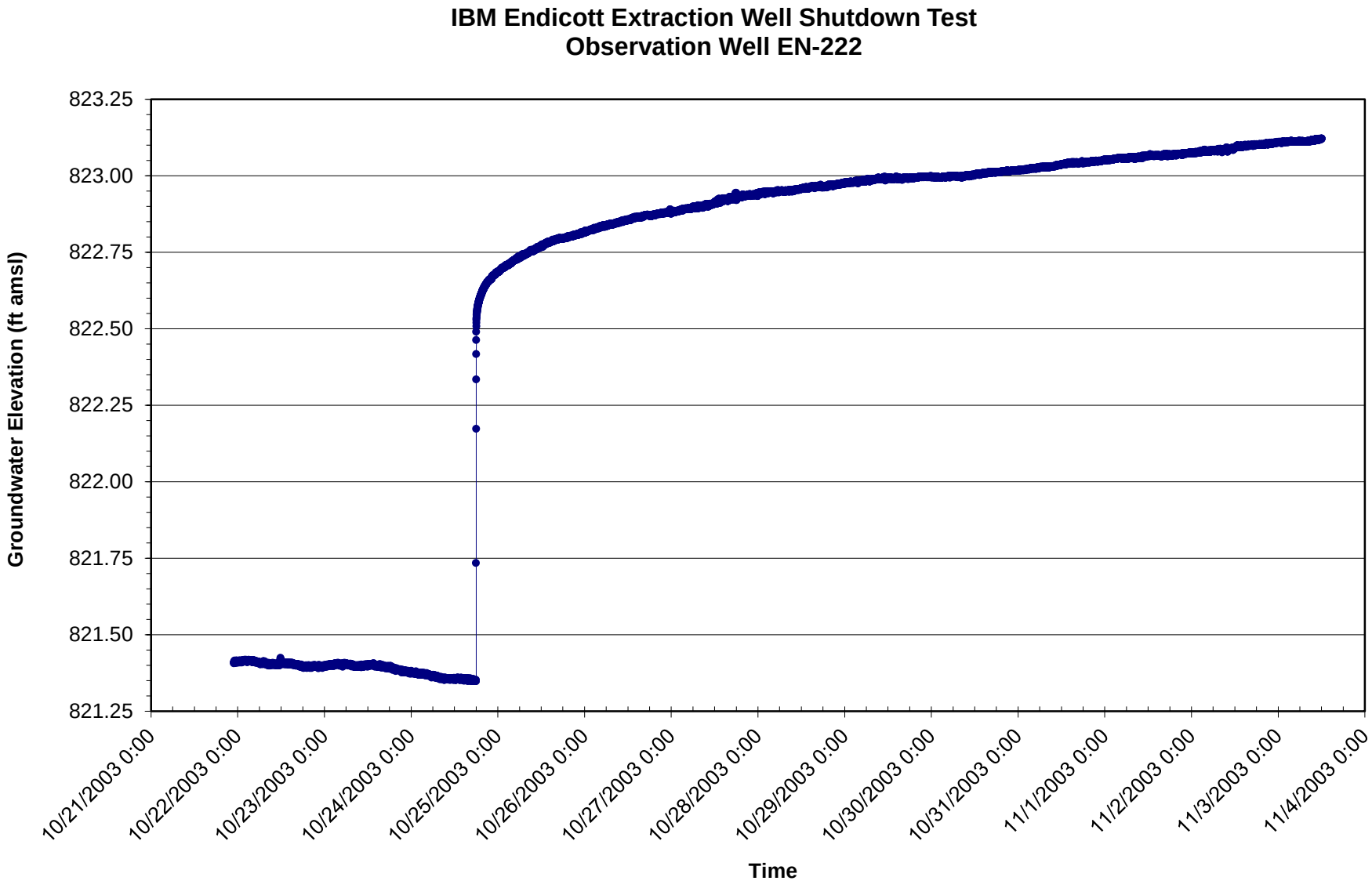

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-193
Groundwater Elevation (ft amsl)
822.50
822.40
822.30
822.20
822.10
822.00
821.90
821.80
821.70
821.60
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

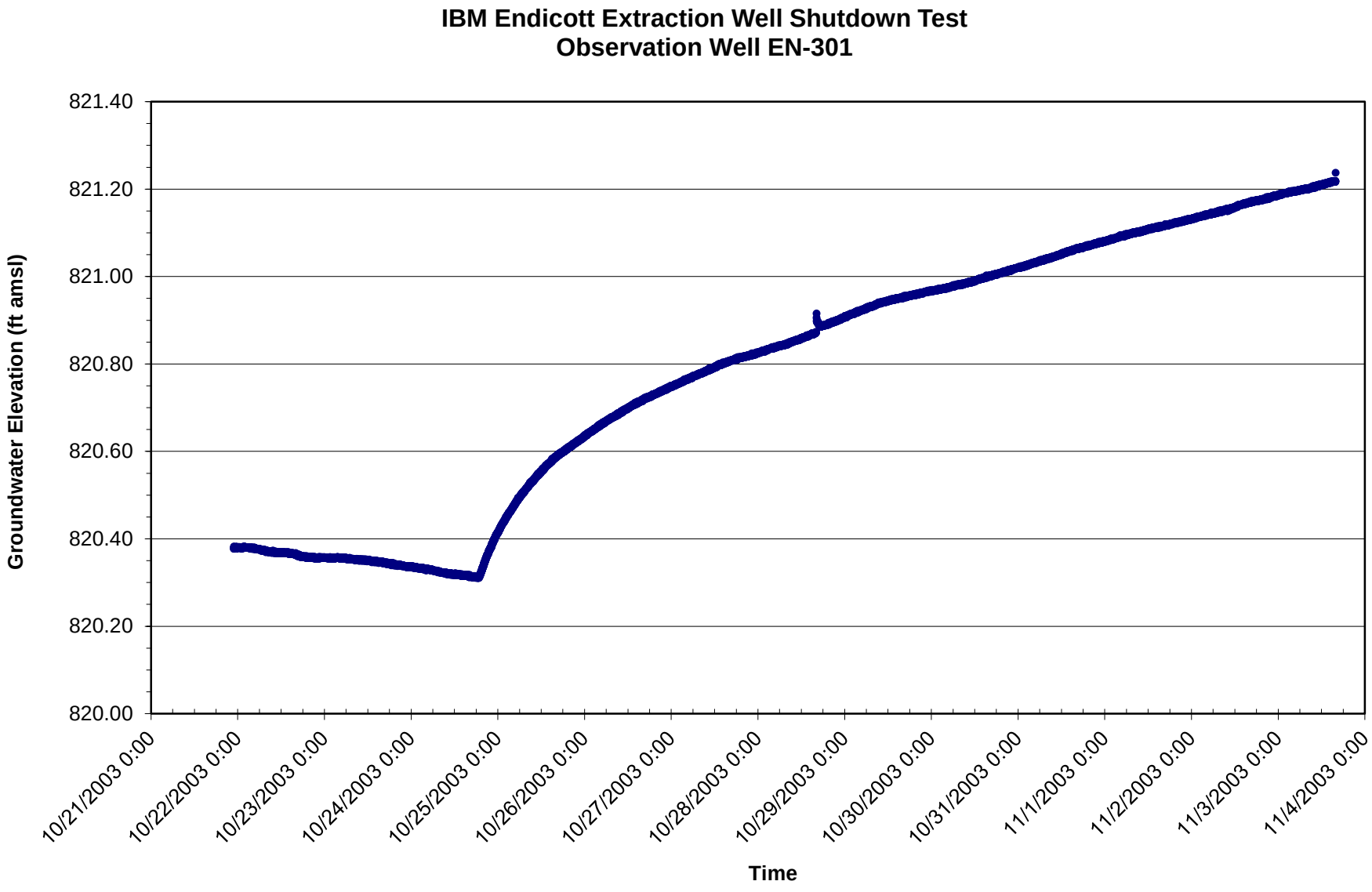

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-194
Groundwater Elevation (ft amsl)
821.50
821.00
820.50
820.00
819.50
819.00
818.50
818.00
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-195
Groundwater Elevation (ft amsl)
822.50
822.00
821.50
821.00
820.50
820.00
819.50
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

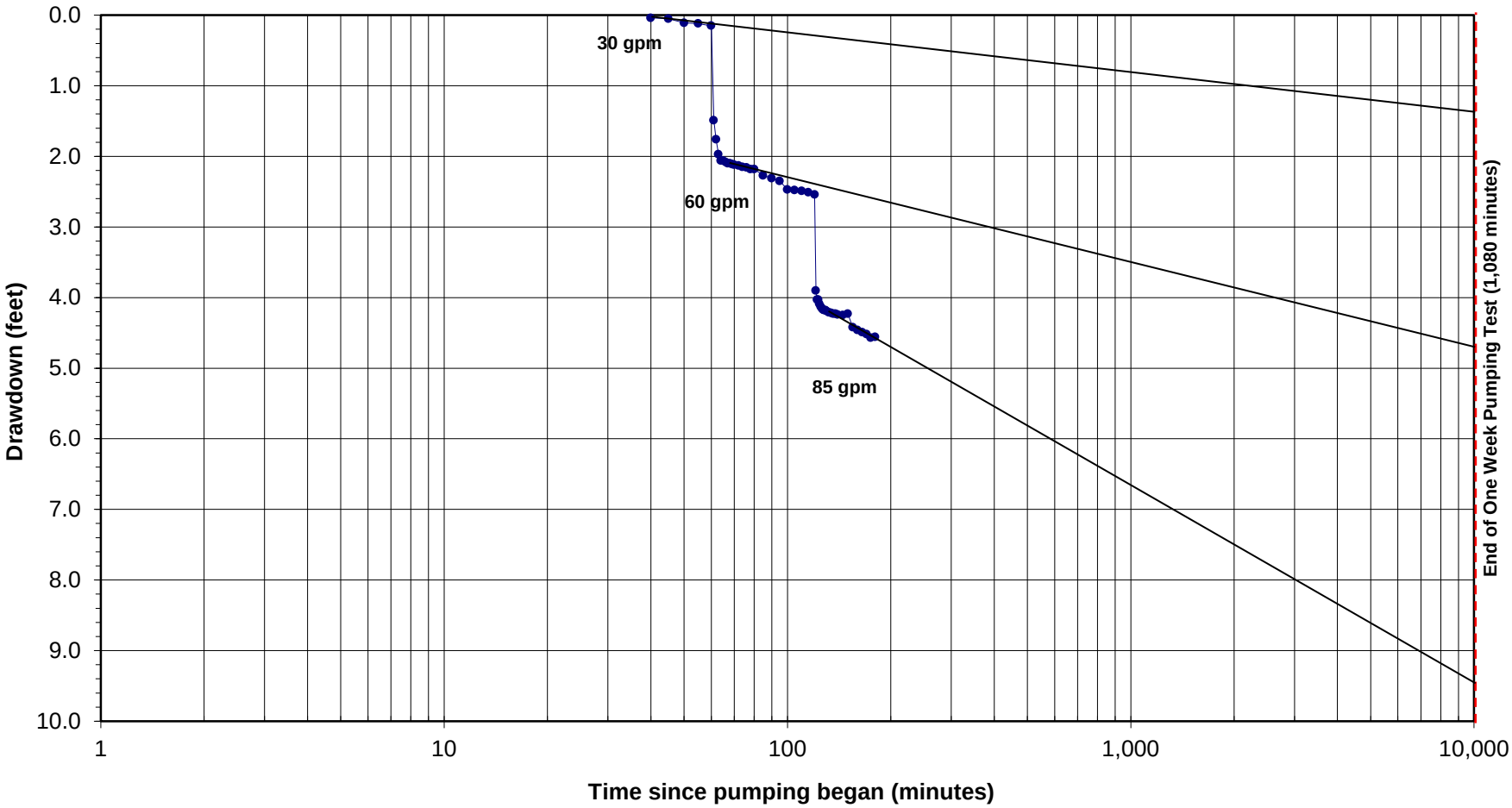

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-203
Groundwater Elevation (ft amsl)
822.15
822.10
822.05
822.00
821.95
821.90
821.85
821.80
821.75
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

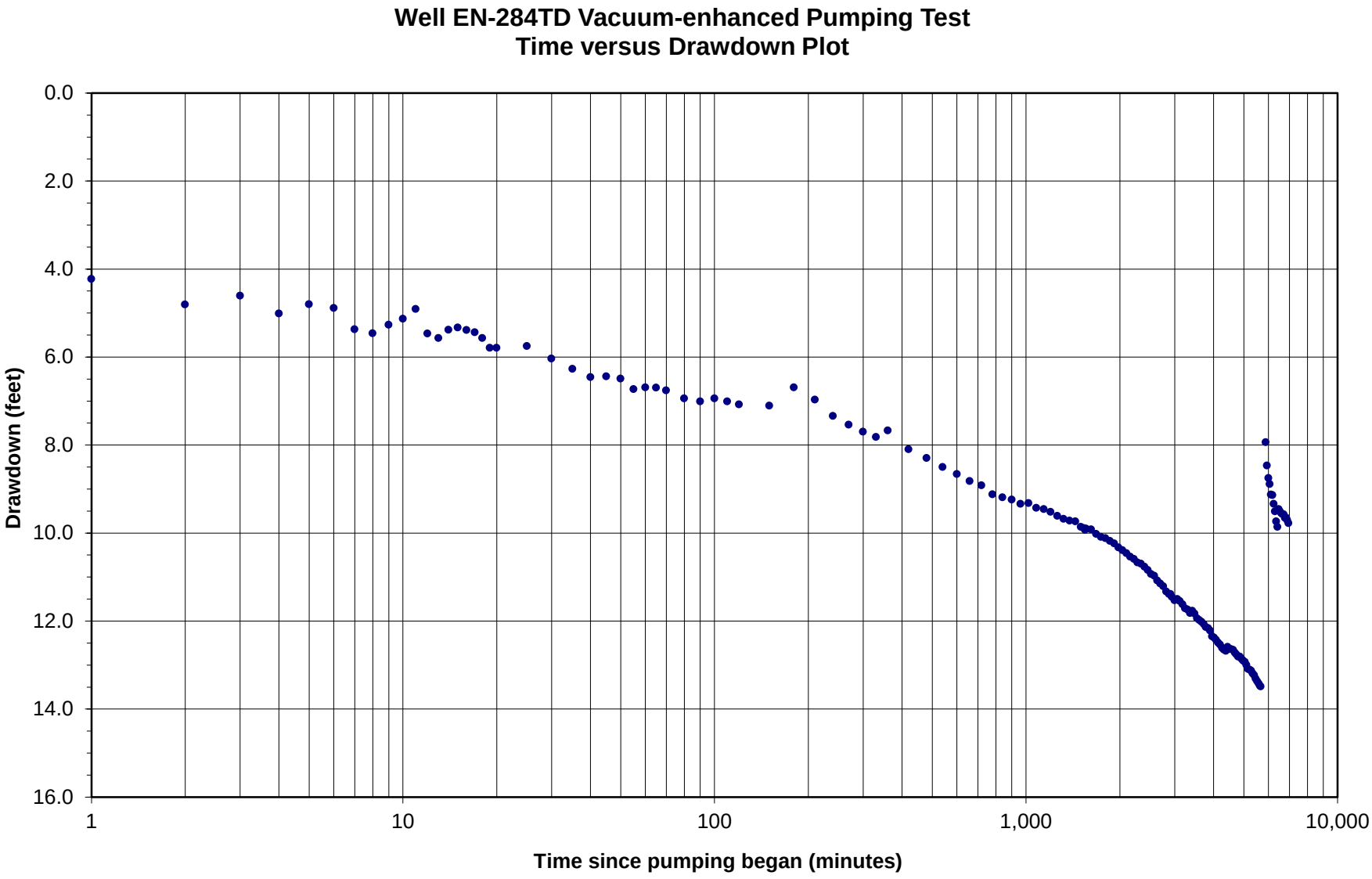

IBM ENdicott Extraction Well Shutdown Test
Observation Well EN-215
Groundwater Elevation (ft amsl)
822.30
822.20
822.10
822.00
821.90
821.80
821.70
821.60
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time


IBM Endicott Extraction Well Shutdown Test
Observation Well EN-222
Groundwater Elevation (ft amsl)
823.25
823.00
822.75
822.50
822.25
822.00
821.75
821.50
821.25
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

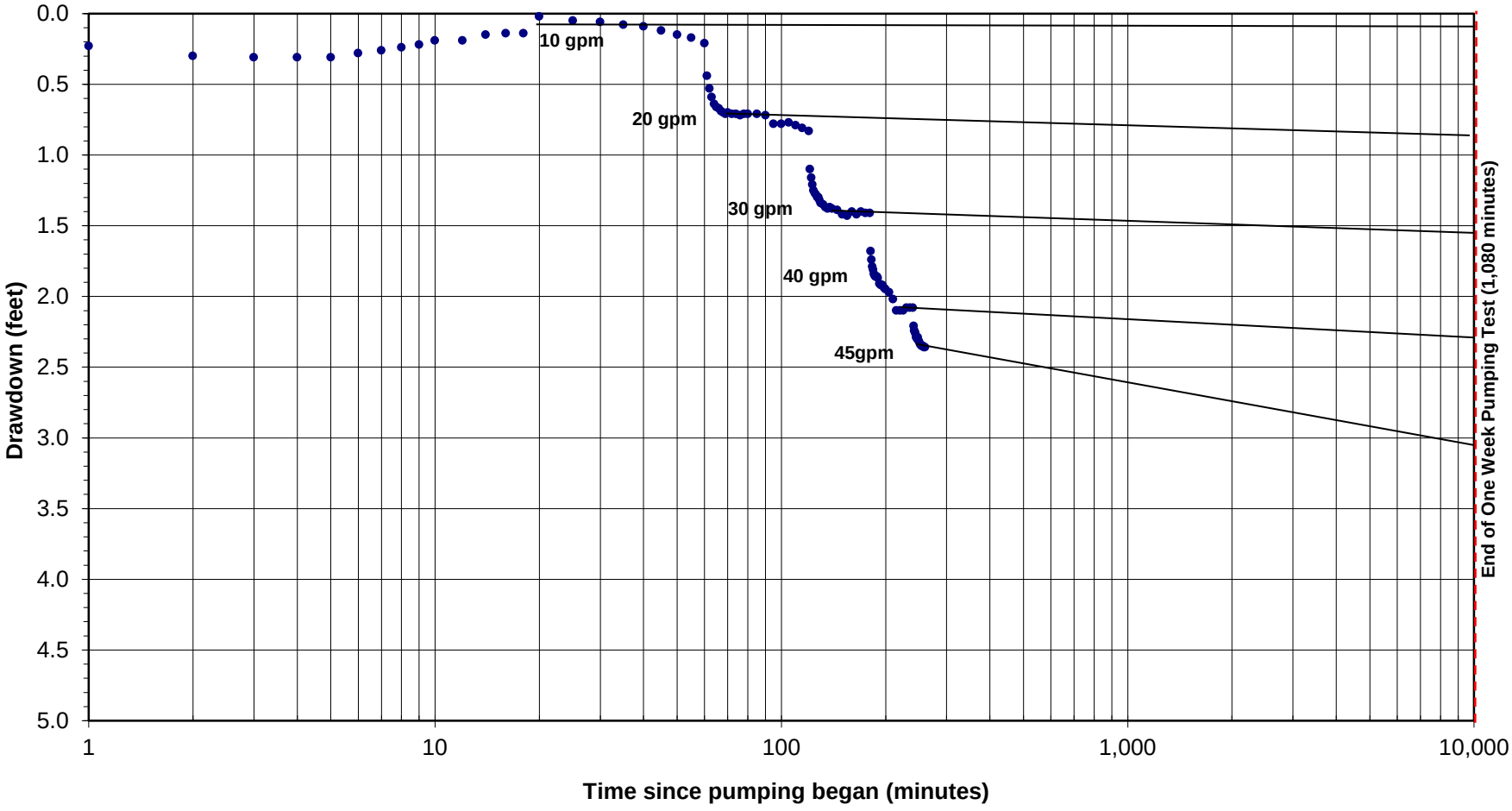

IBM Endicott Extraction Well Shutdown Test
Observation Well EN-301
Groundwater Elevation (ft amsl)
821.40
821.20
821.00
820.80
820.60
820.40
820.20
820.00
10/21/2003 0:00
10/22/2003 0:00
10/23/2003 0:00
10/24/2003 0:00
10/25/2003 0:00
10/26/2003 0:00
10/27/2003 0:00
10/28/2003 0:00
10/29/2003 0:00
10/30/2003 0:00
10/31/2003 0:00
11/1/2003 0:00
11/2/2003 0:00
11/3/2003 0:00
11/4/2003 0:00
Time

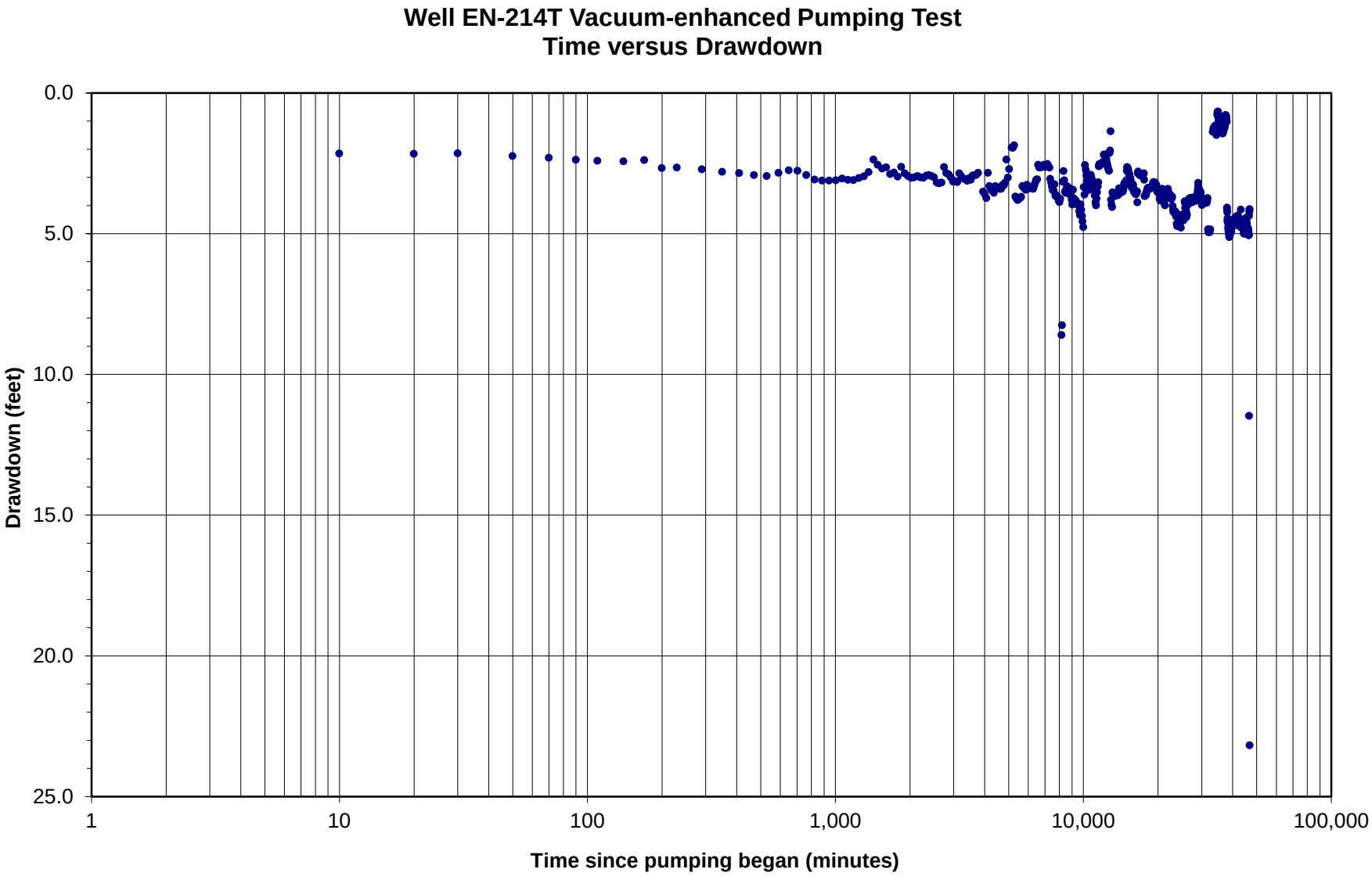
EN-284TD Vacuum-enhanced Step-Drawdown Test
November 5, 2003
time vs. drawdown



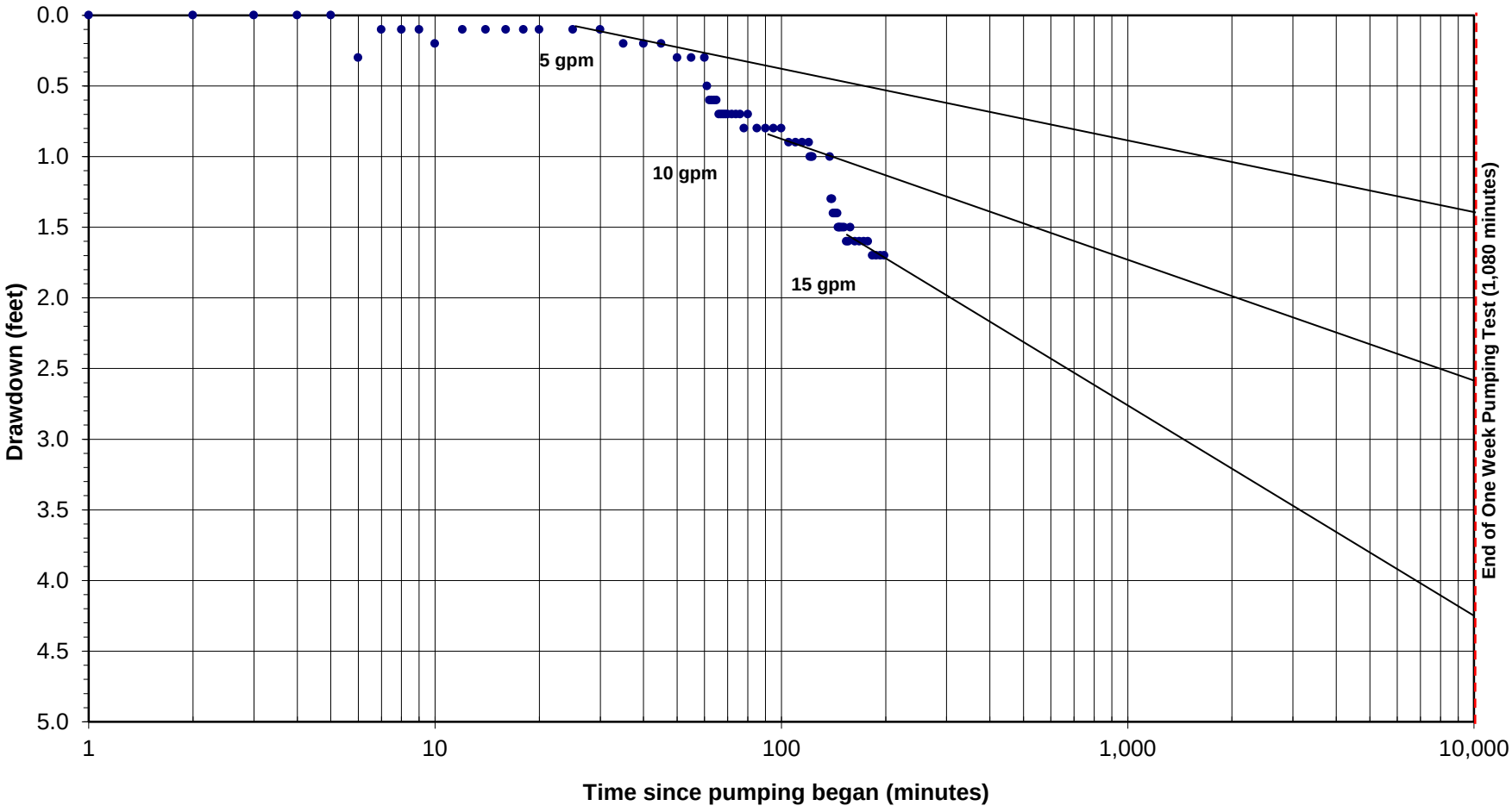

Well EN-284TD Vacuum-enhanced Pumping Test
Time versus Drawdown Plot
Drawdown (feet)
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
1
10
100
1,000
10,000
Time since pumping began (minutes)

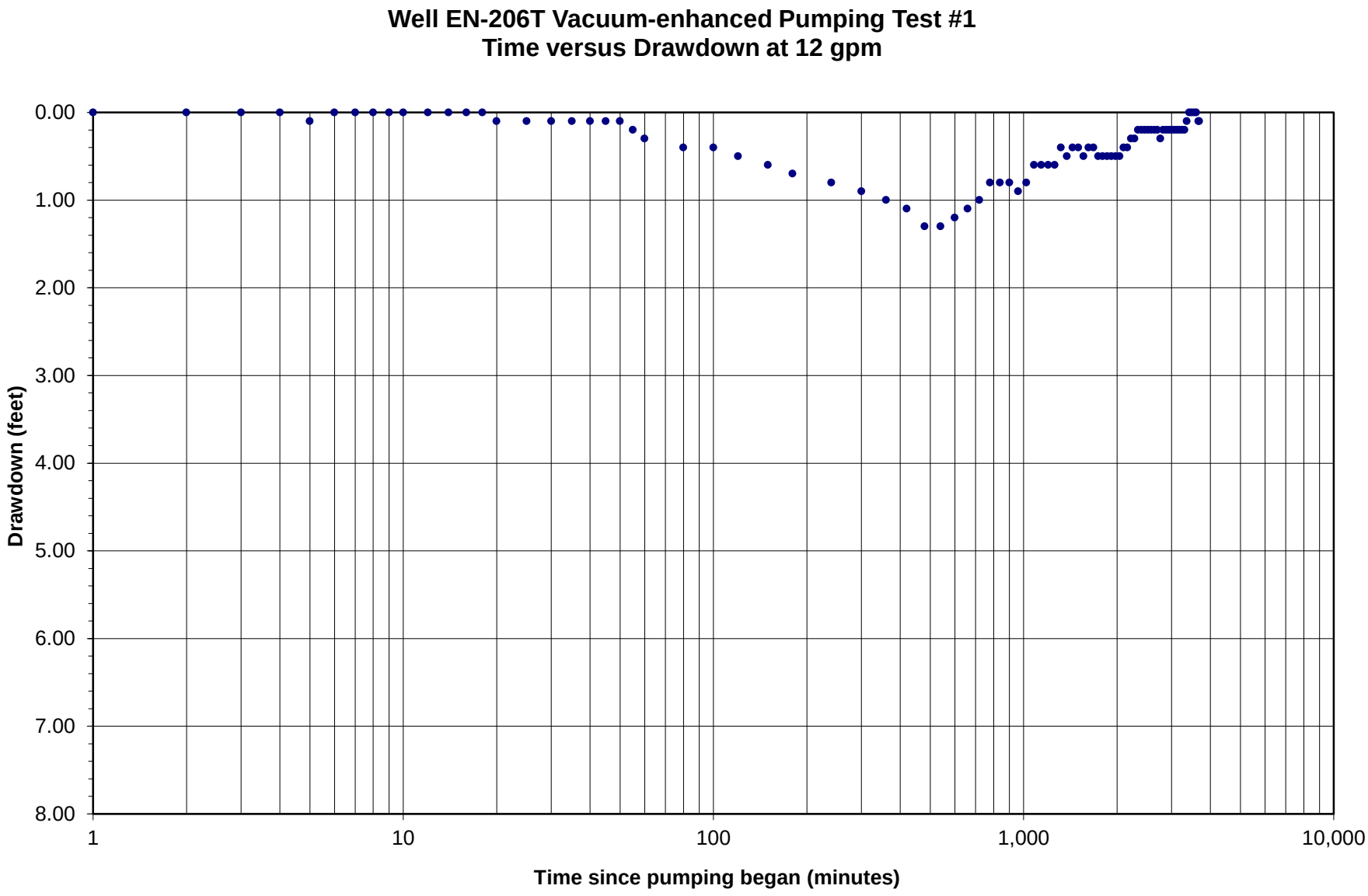
EN-214T Vacuum-enhanced Step-Drawdown Test
November 13, 2003
time vs. drawdown

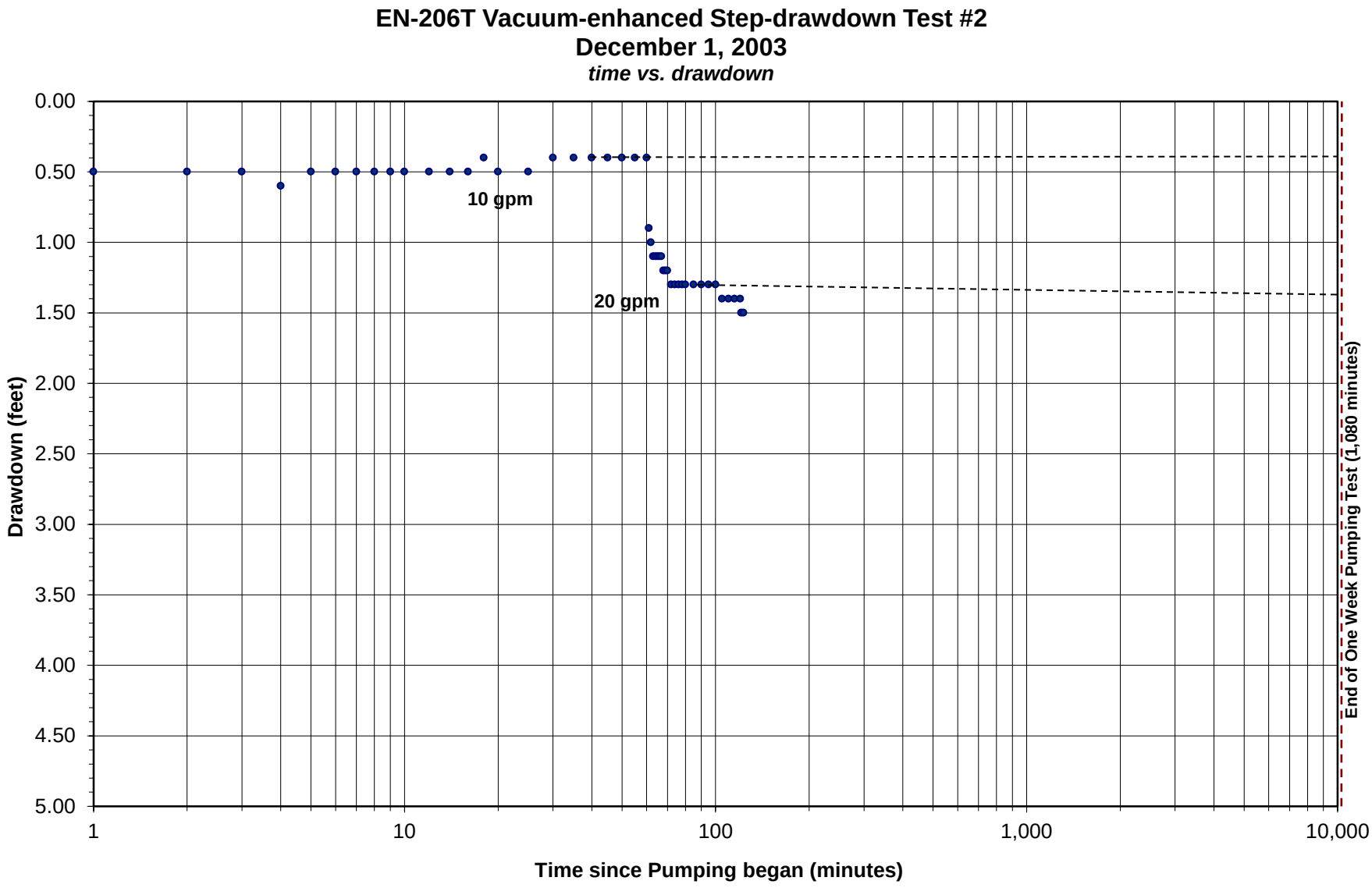


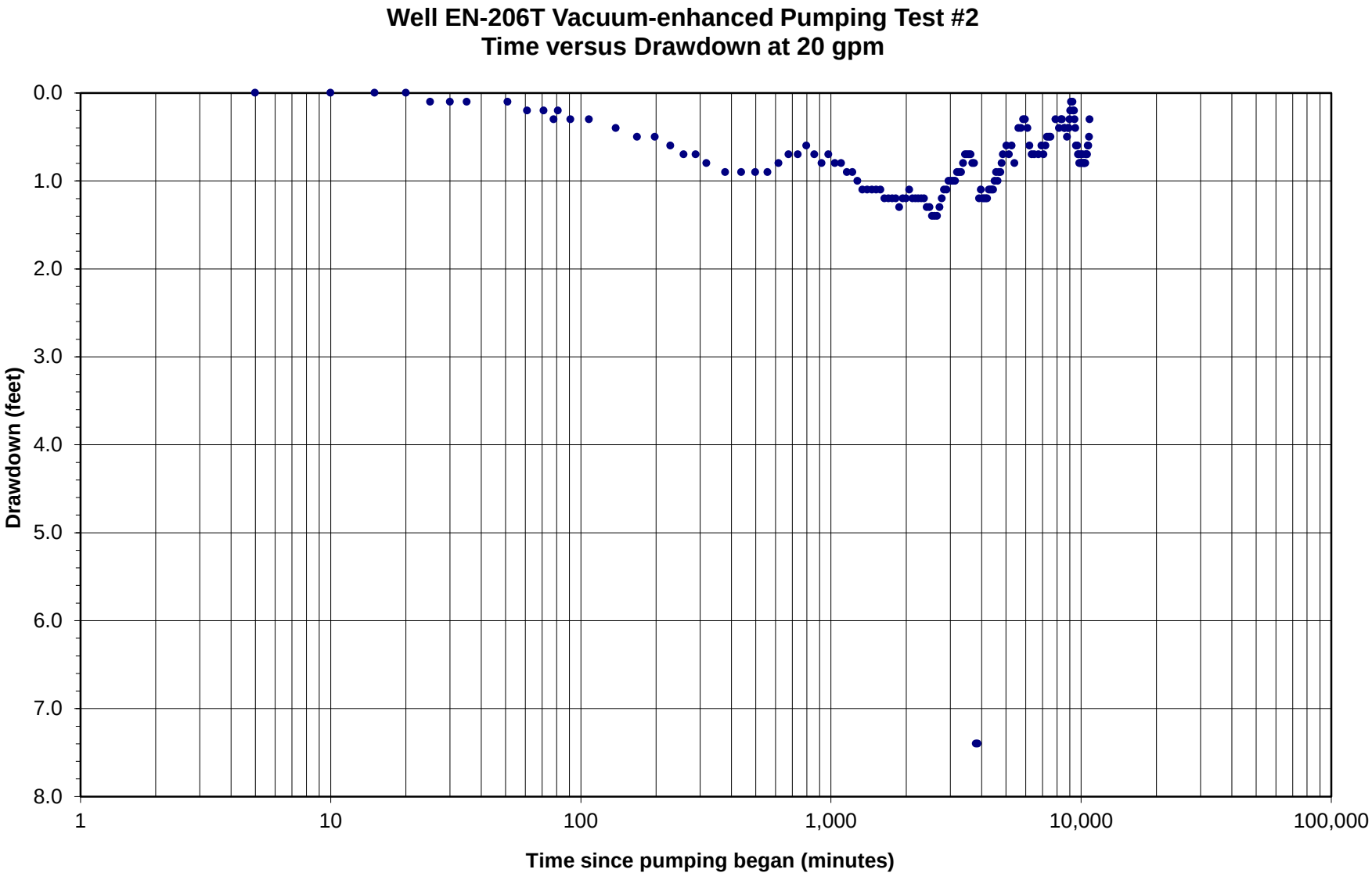

Well EN-214T Vacuum-enhanced Pumping Test
Time versus Drawdown
Drawdown (feet)
0.0
5.0
10.0
15.0
20.0
25.0
1
10
100
1,000
10,000
100,000
Time since pumping began (minutes)

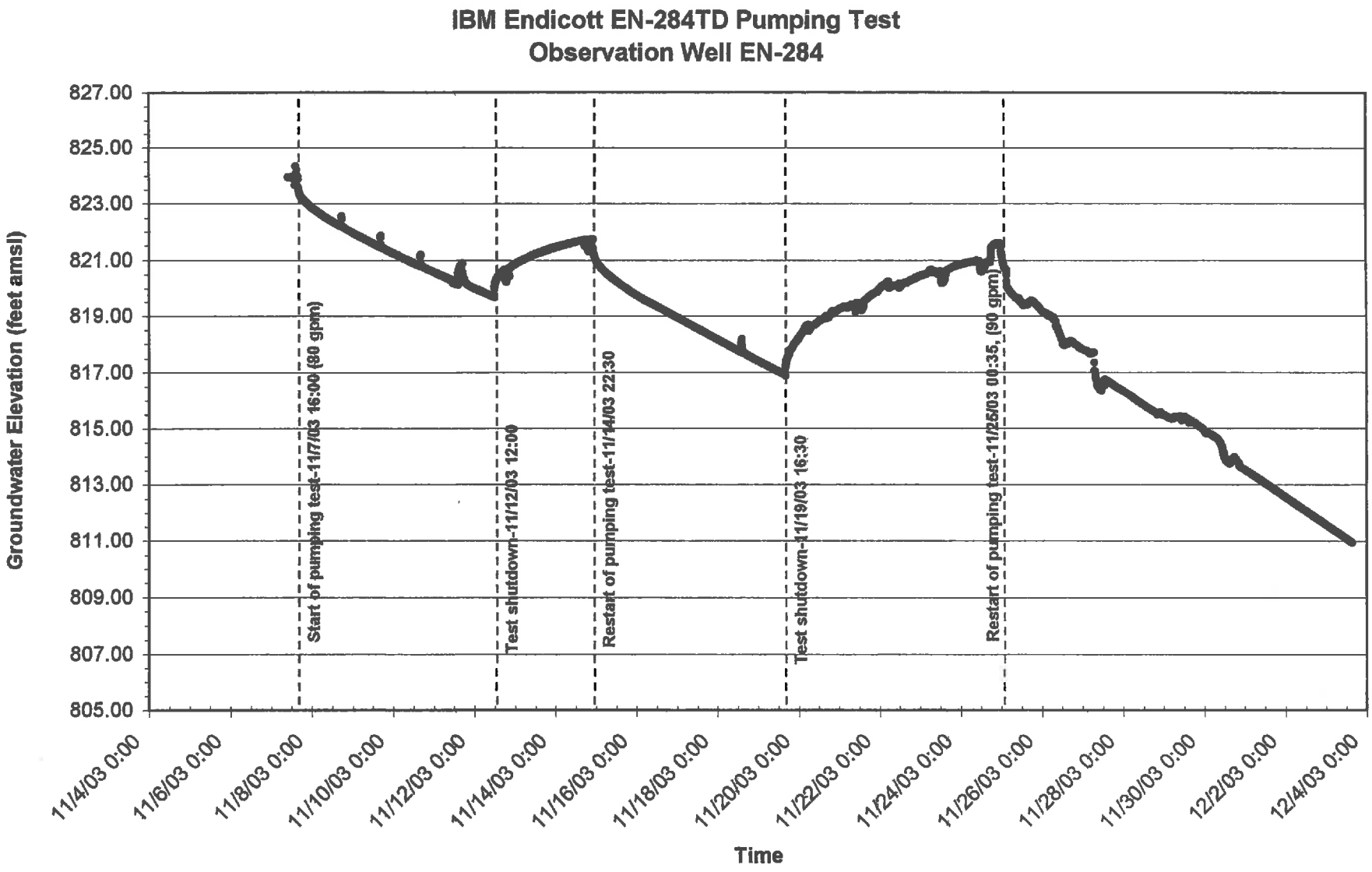
EN-206T Vacuum-enhanced Step-Drawdown Test #1
November 23, 2003
time vs. drawdown



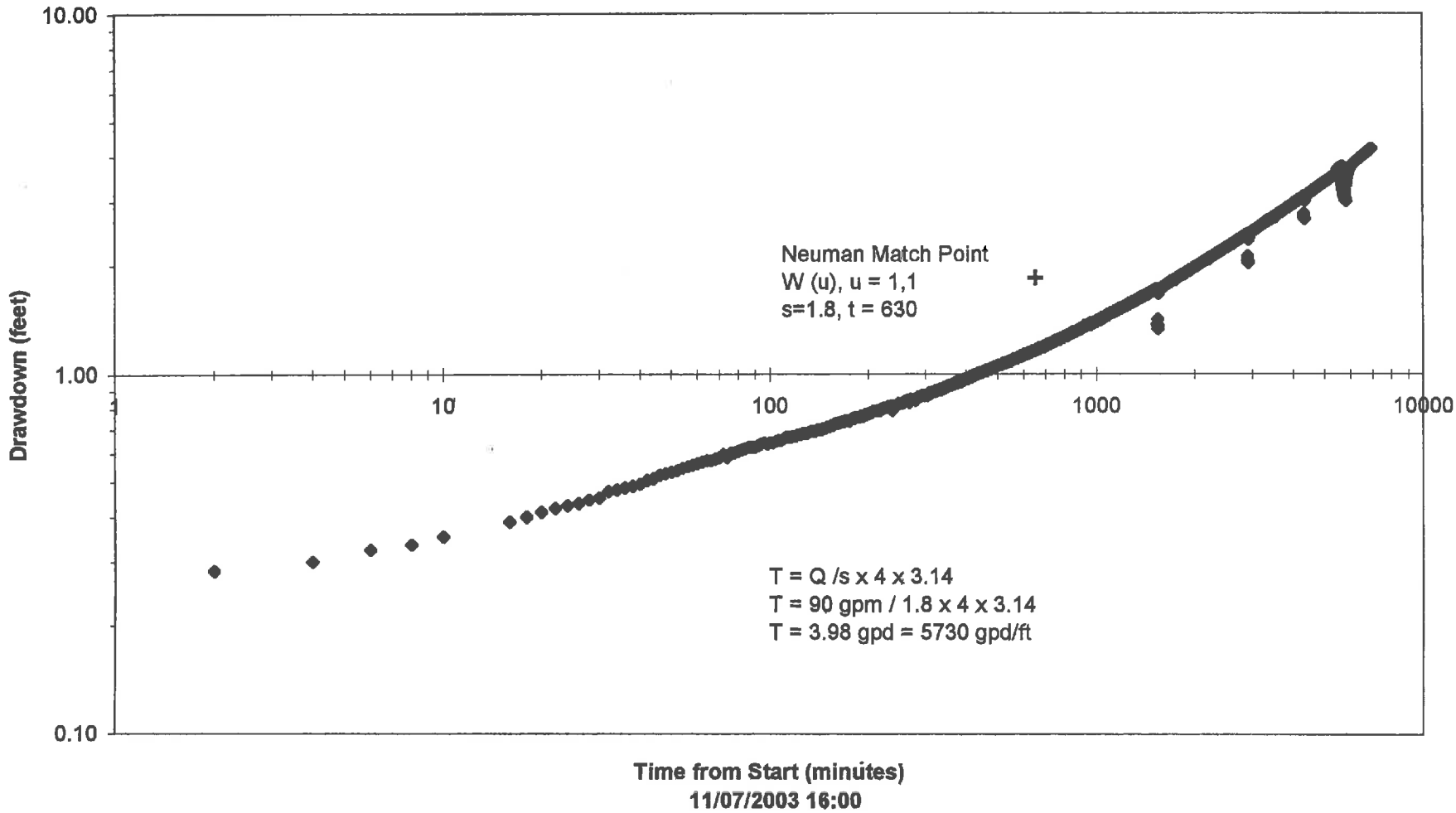

Well EN-206T Vacuum-enhanced Pumping Test #1
Time versus Drawdown at 12 gpm
Drawdown (feet)
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
1
10
100
1,000
10,000
Time since pumping began (minutes)

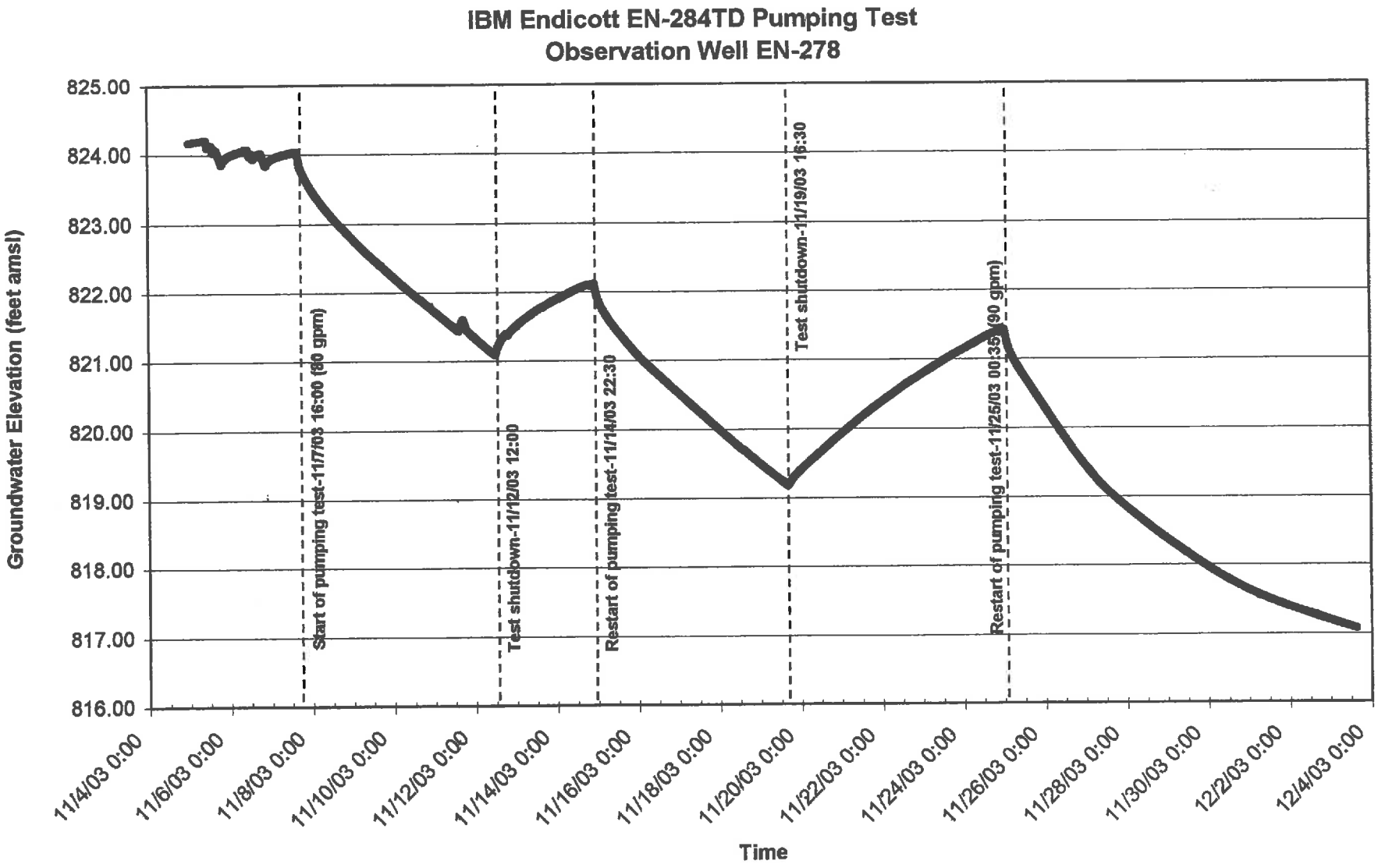

EN-206T Vacuum-enhanced Step-drawdown Test #2
December 1, 2003
time vs. drawdown
Drawdown (feet)
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
10 gpm
20 gpm
End of One Week Pumping Test (1,080 minutes)
1
10
100
1,000
10,000
Time since Pumping began (minutes)


Well EN-206T Vacuum-enhanced Pumping Test #2
Time versus Drawdown at 20 gpm
Drawdown (feet)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
1
10
100
1,000
10,000
100,000
Time since pumping began (minutes)

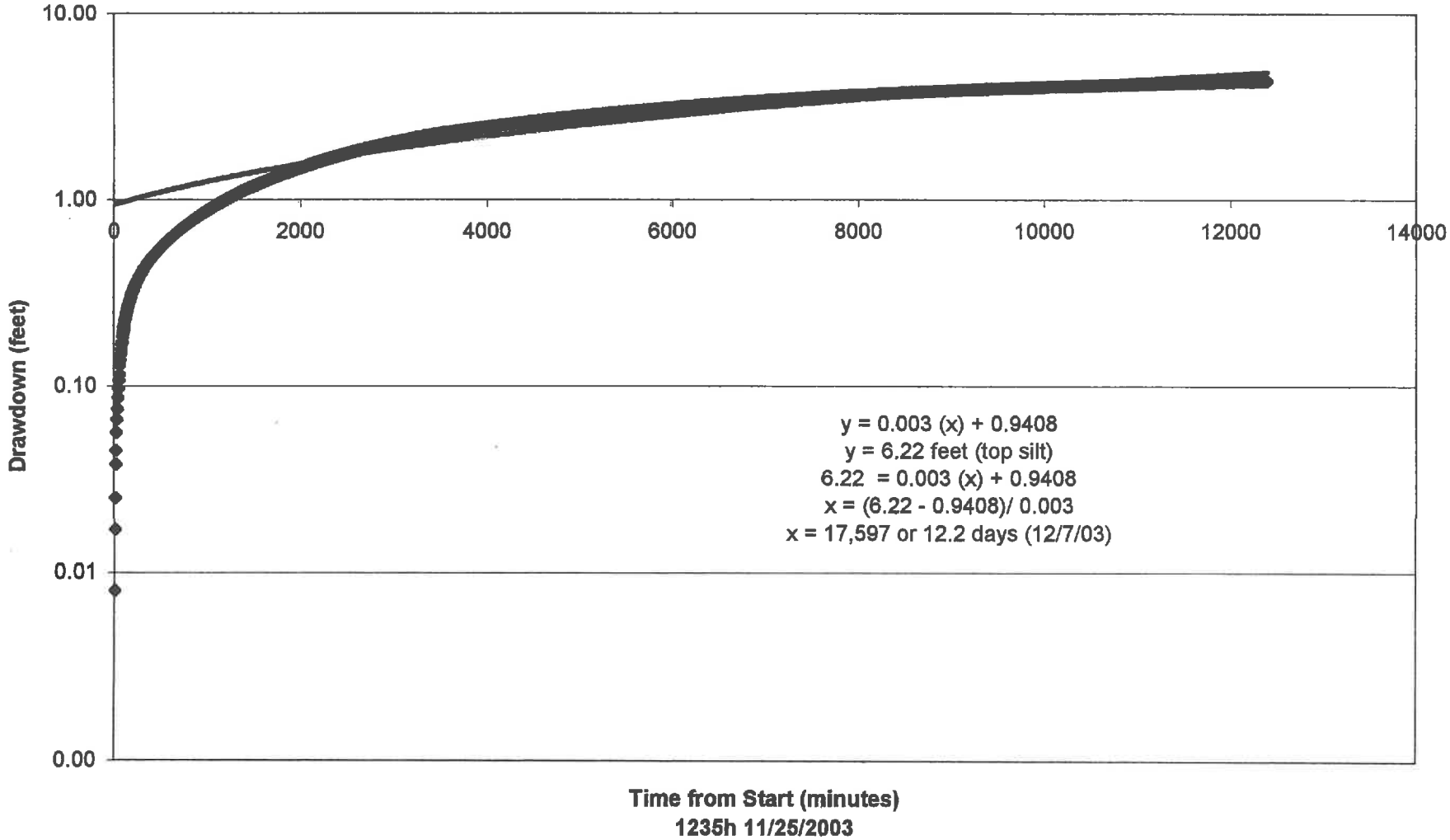

IBM Endicott EN-284TD Pumping Test
Observation Well EN-284
Groundwater Elevation (feet amsl)
827.00
825.00
823.00
821.00
819.00
817.00
815.00
813.00
811.00
809.00
807.00
805.00
Start of pumping test-11/7/03 16:00 (90 gpm)
Test shutdown-11/12/03 12:00
Restart of pumping test-11/14/03 22:30
Test shutdown-11/19/03 16:30
Restart of pumping test-11/25/03 00:35, (90 gpm)
11/4/03 0:00
11/6/03 0:00
11/8/03 0:00
11/10/03 0:00
11/12/03 0:00
11/14/03 0:00
11/16/03 0:00
11/18/03 0:00
11/20/03 0:00
11/22/03 0:00
11/24/03 0:00
11/26/03 0:00
11/28/03 0:00
11/30/03 0:00
12/2/03 0:00
12/4/03 0:00
Time

IIBM Endicott EN-284TD Pumping Test
Observation Well EN-284

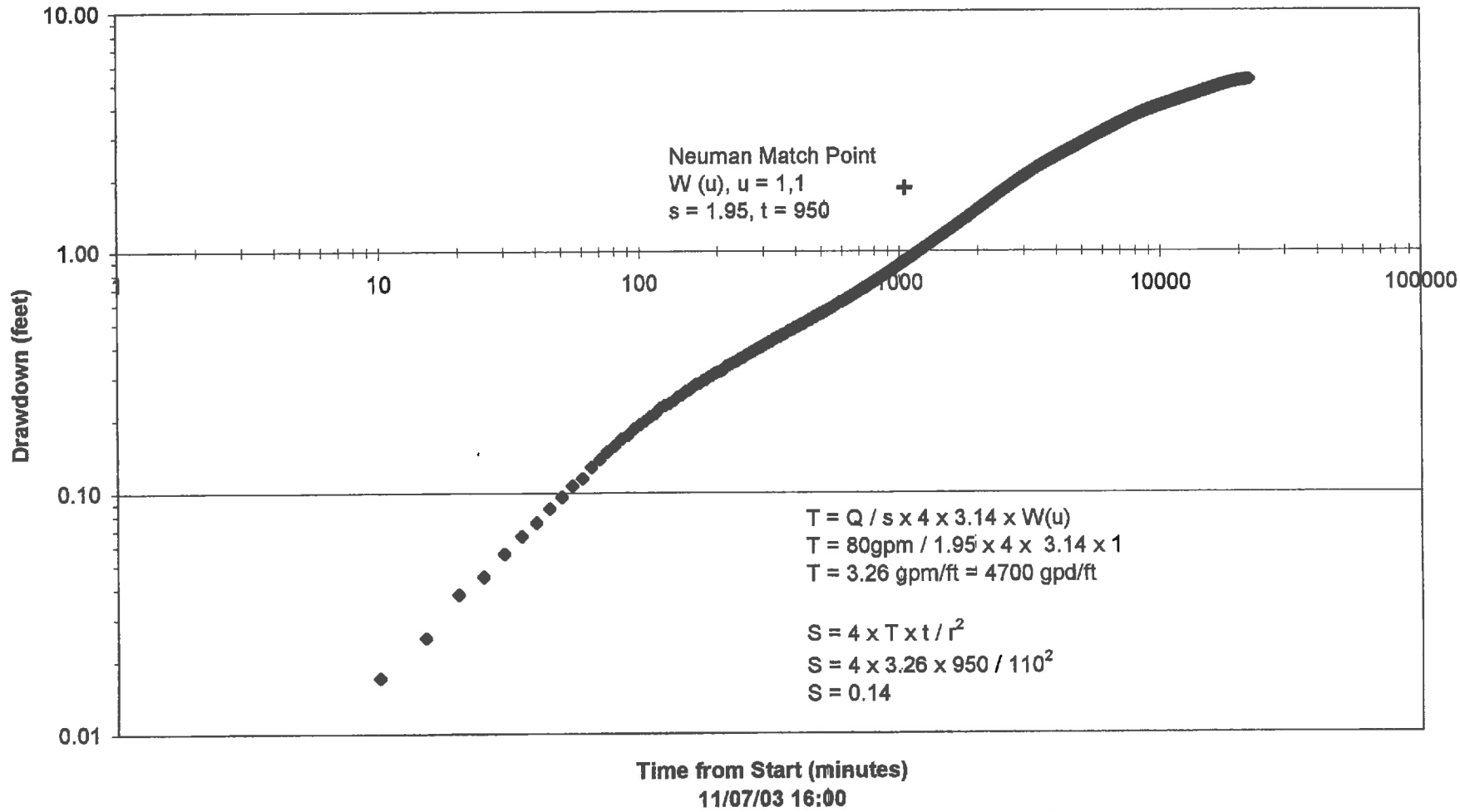



IBM Endicott EN-284TD Pumping Test
Observation Well EN-278
Groundwater Elevation (feet amsl)
825.00
824.00
823.00
822.00
821.00
820.00
819.00
818.00
817.00
816.00
Start of pumping test-11/7/03 16:00 (80 gpm)
Test shutdown-11/12/03 12:00
Restart of pumping test-11/14/03 22:30
Test shutdown-11/19/03 16:30
Restart of pumping test-11/25/03 00:35 (90 gpm)
11/4/03 0:00
11/6/03 0:00
11/8/03 0:00
11/10/03 0:00
11/12/03 0:00
11/14/03 0:00
11/16/03 0:00
11/18/03 0:00
11/20/03 0:00
11/22/03 0:00
11/24/03 0:00
11/26/03 0:00
11/28/03 0:00
11/30/03 0:00
12/2/03 0:00
12/4/03 0:00
Time

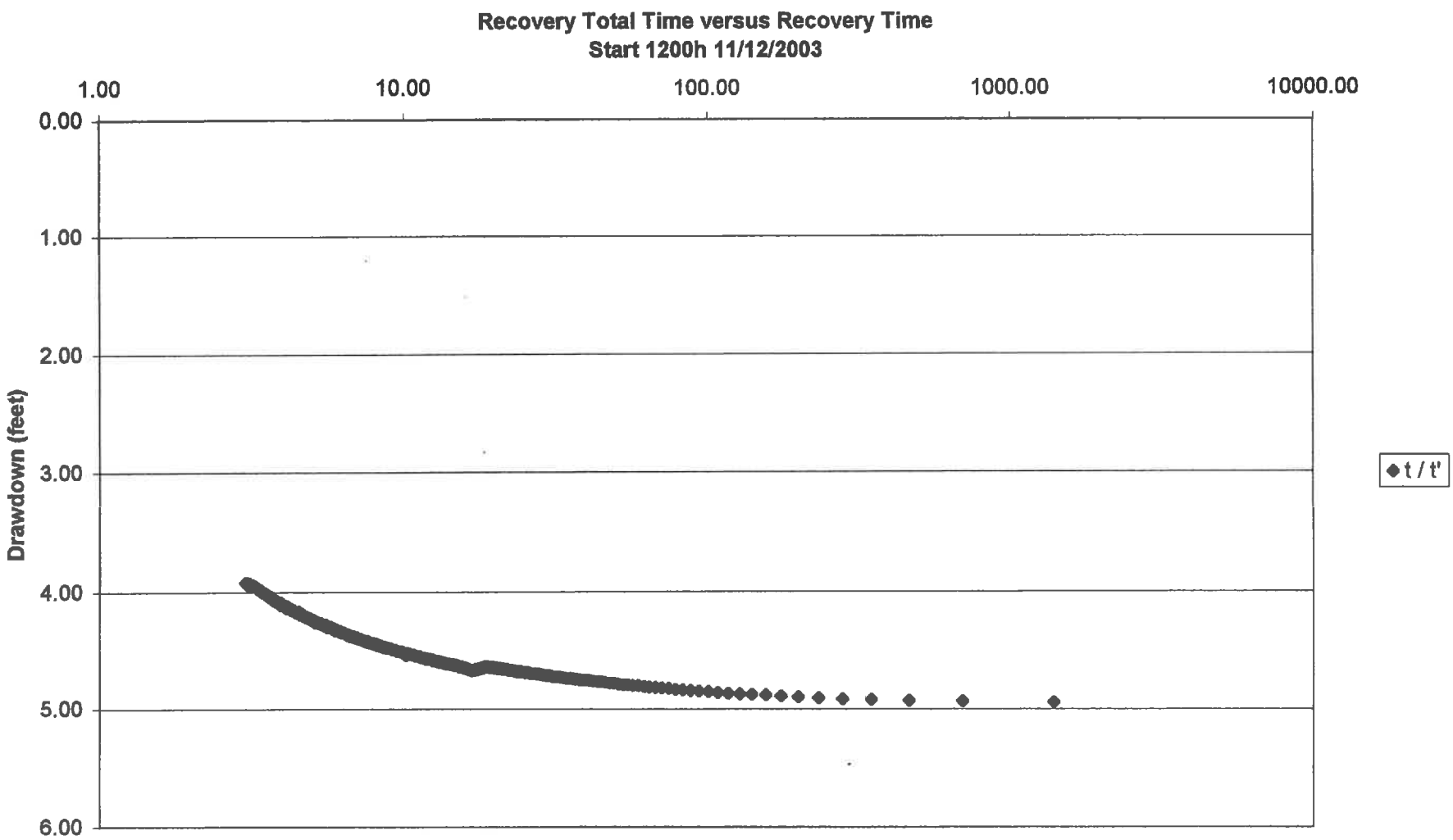
IIBM Endicott EN-284TD Pumping Test
Observation Well EN-278



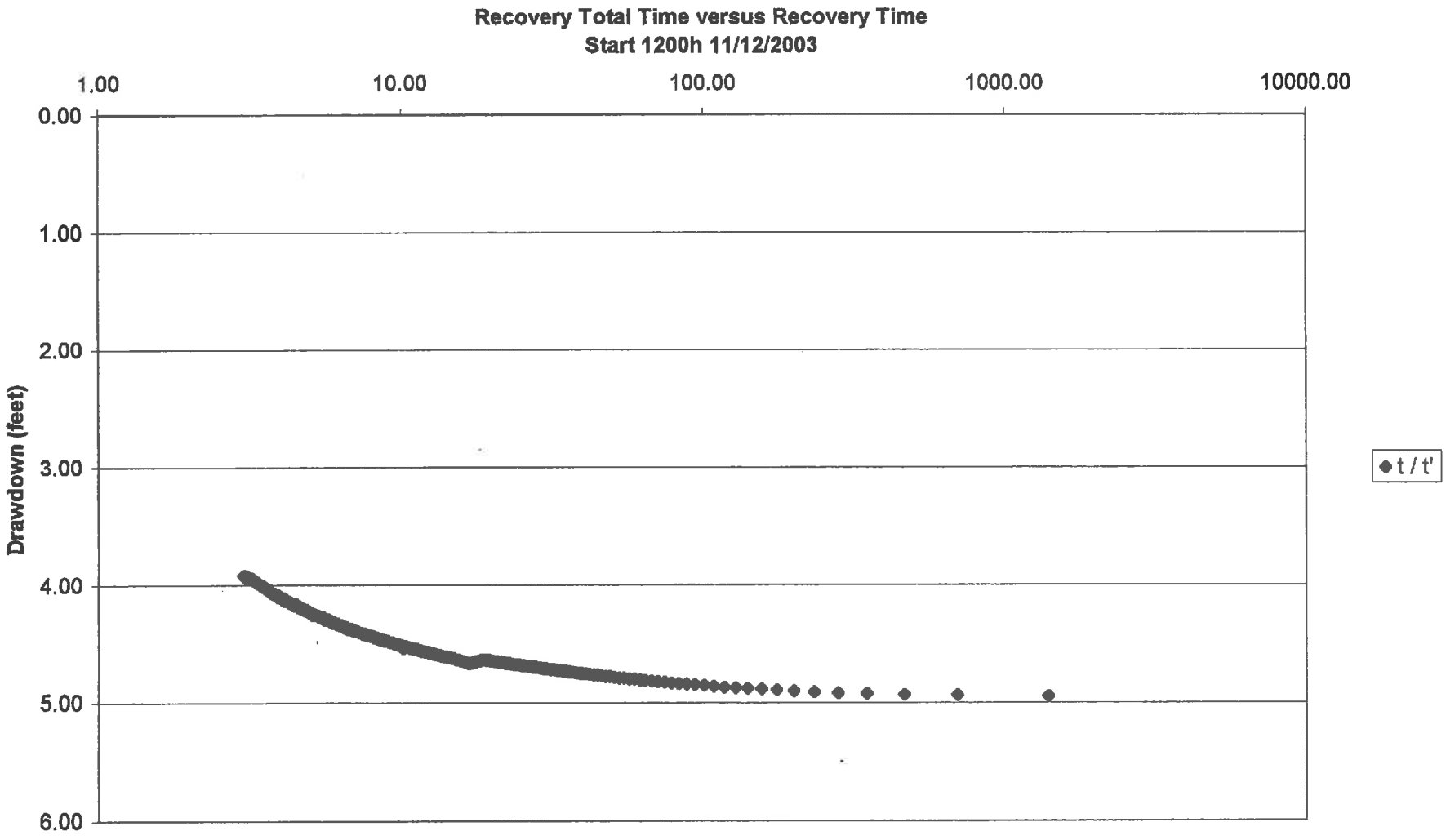
IBM Endicott EN-284TD Pumping Test
Observation Well EN-278



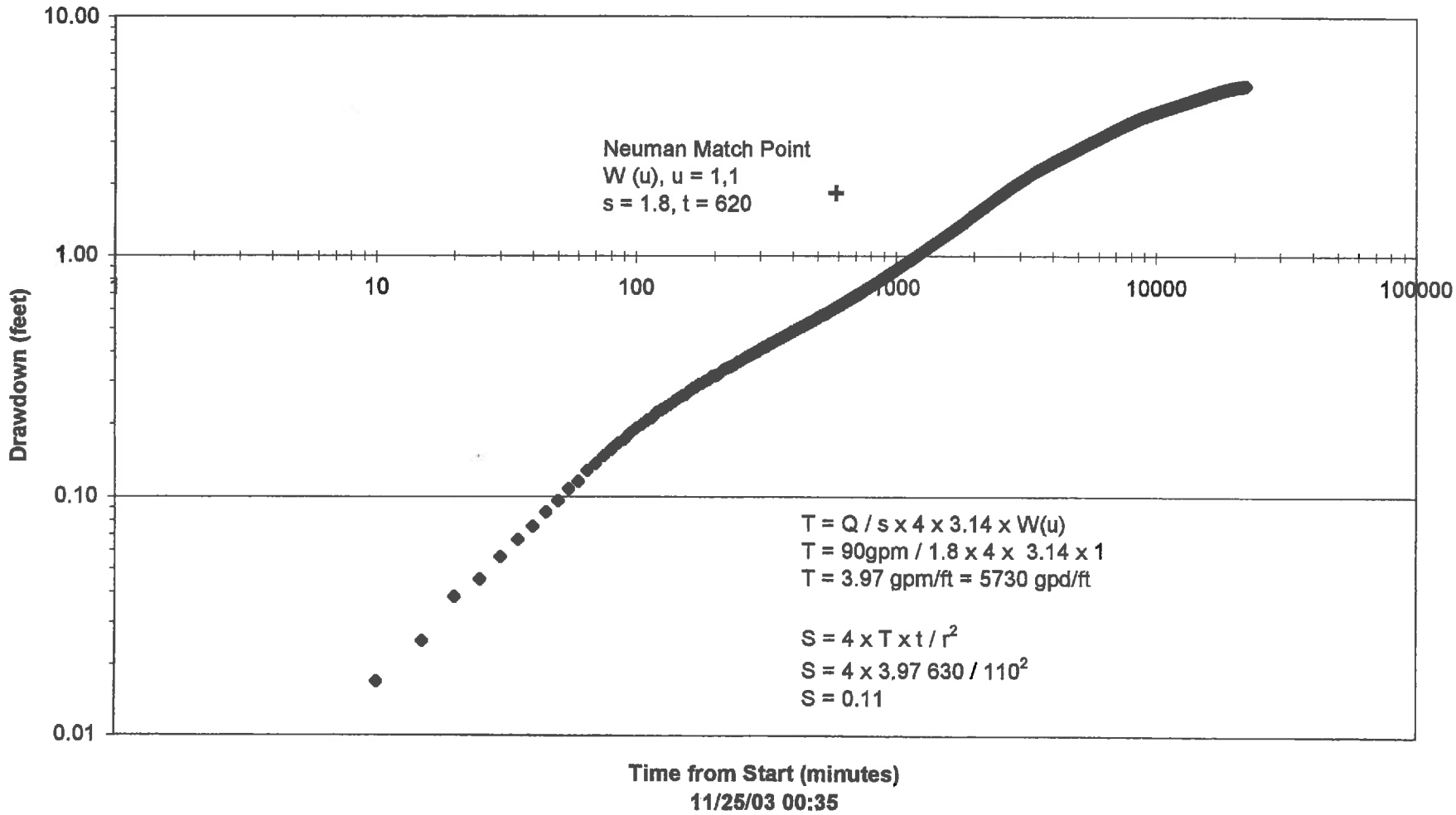
IBM Endicott EN-284TD Pumping Test
Observation Well EN-278



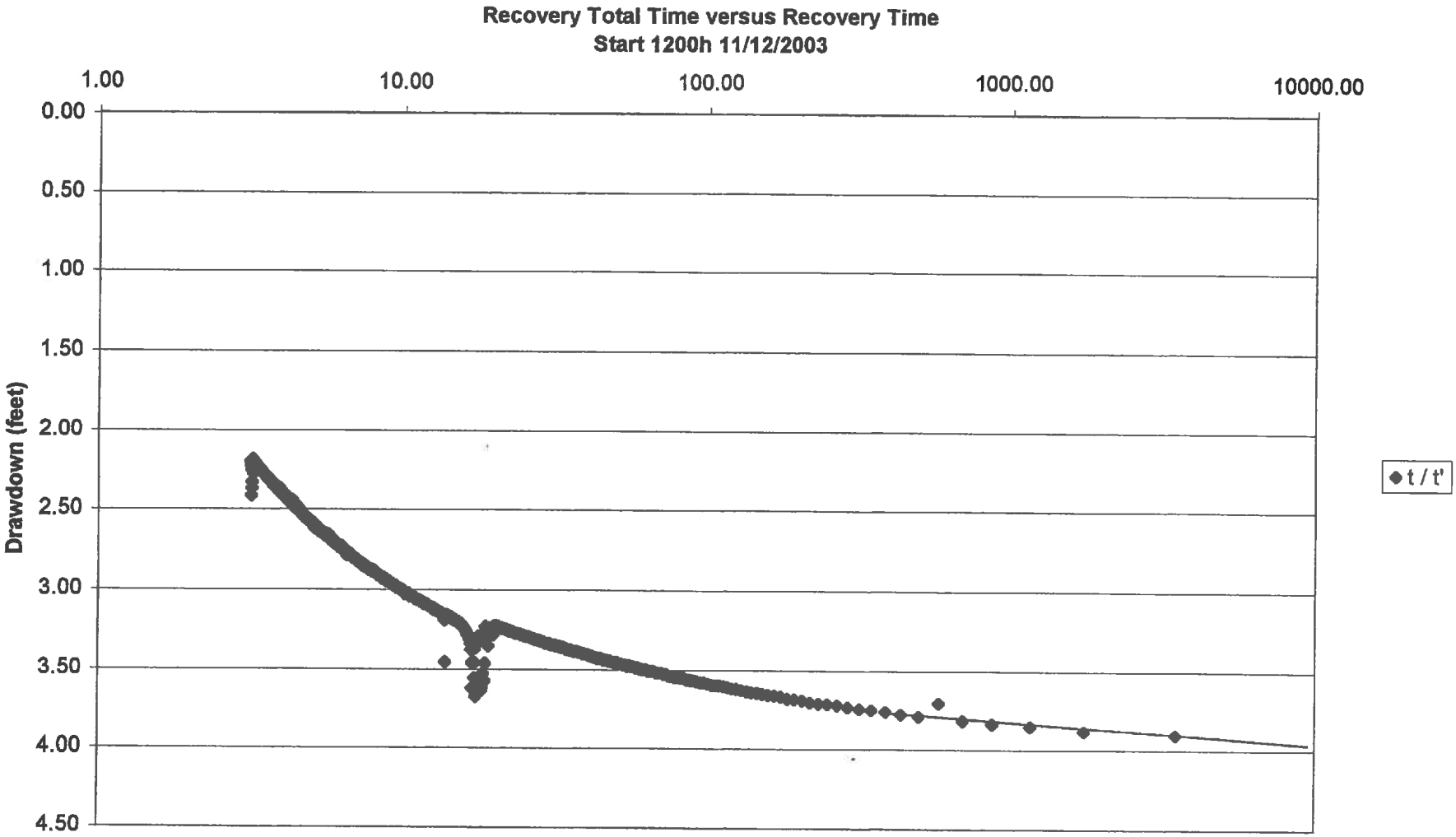
IBM Endicott EN-284TD Pumping Test
Observation Well EN-278



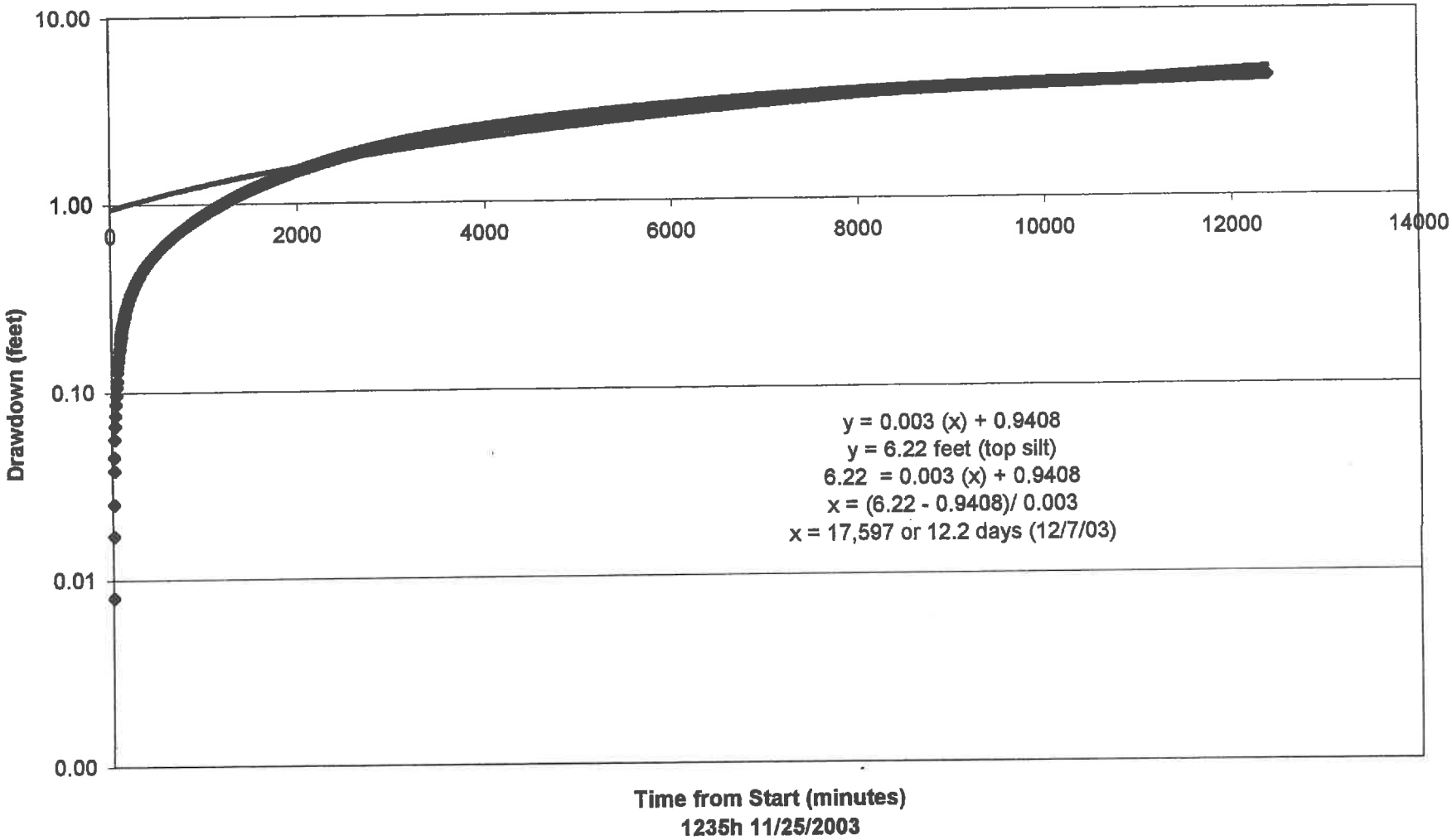
IBM Endicott EN-284TD Pumping Test
Observation Well EN-278

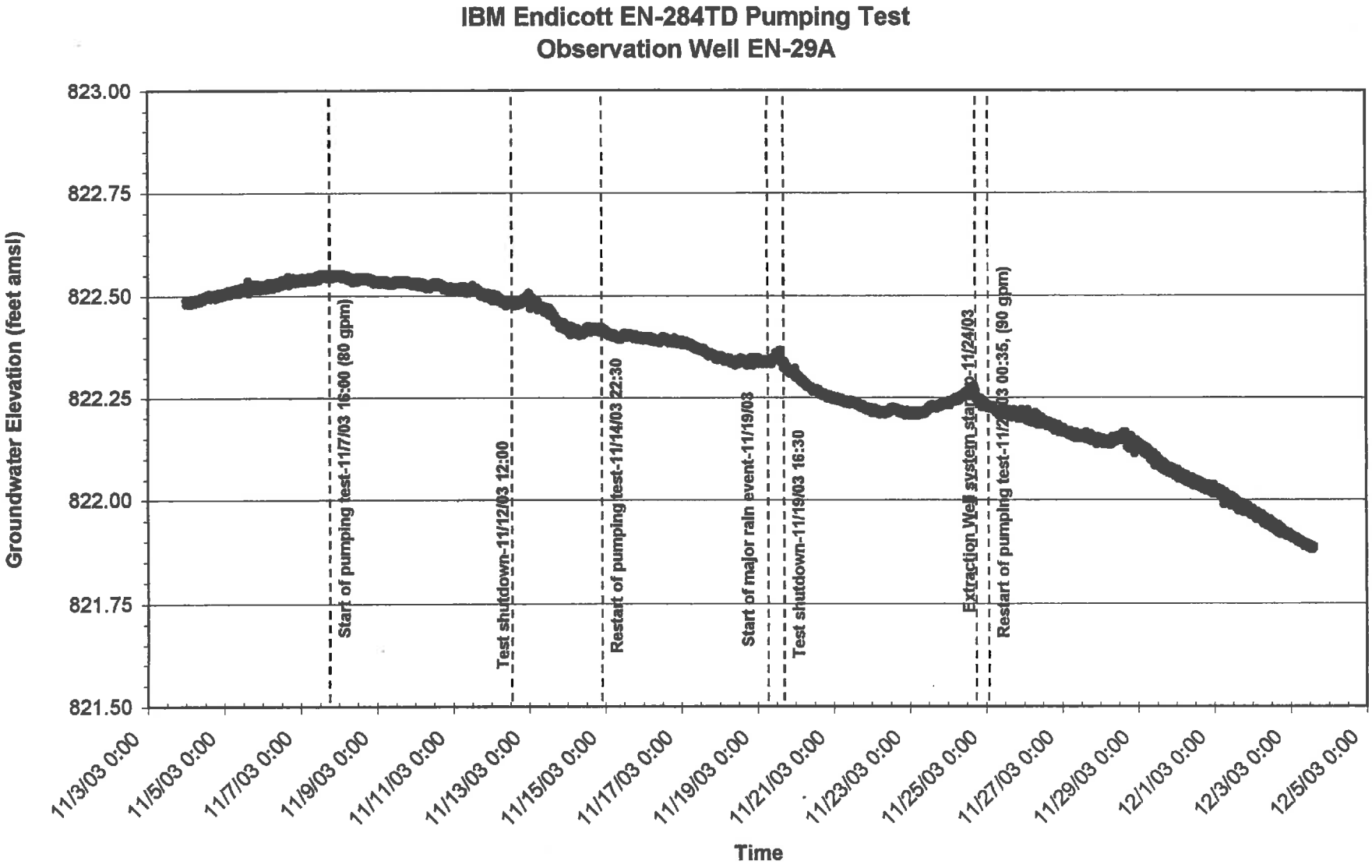


IBM Endicott EN-284TD Pumping Test
Observation Well EN-284

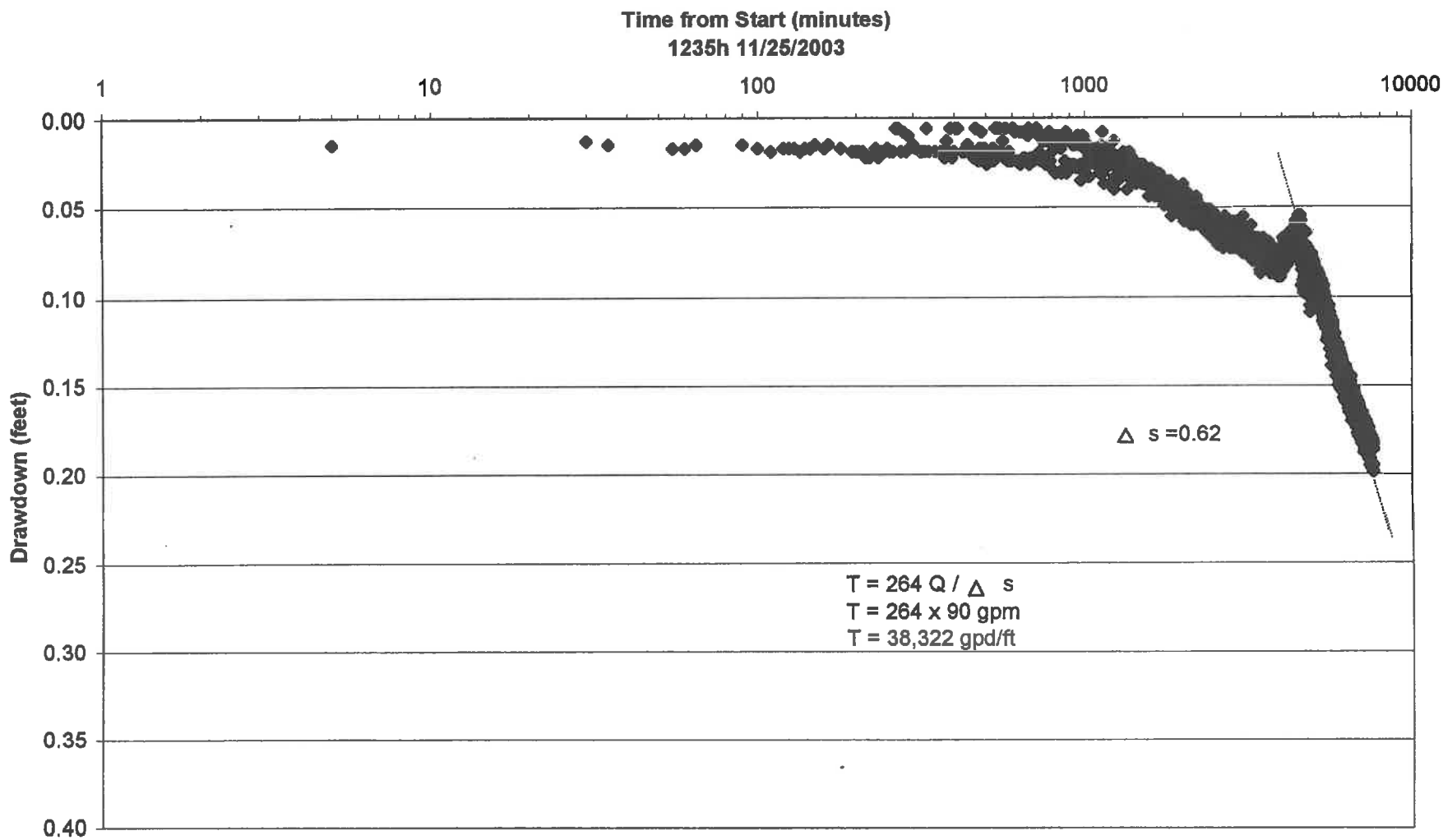


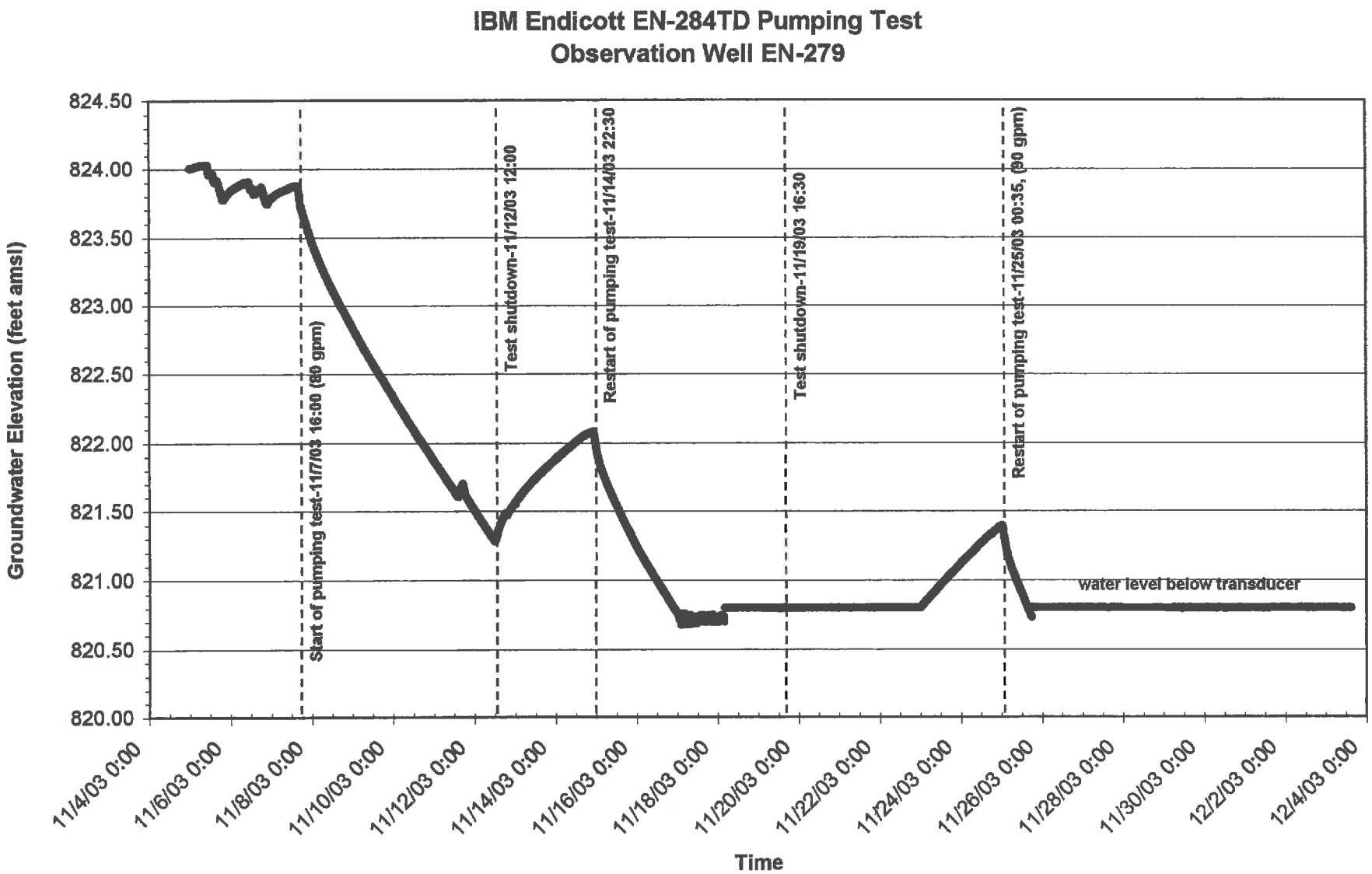
IIBM Endicott EN-284TD Pumping Test
Observation Well EN-278

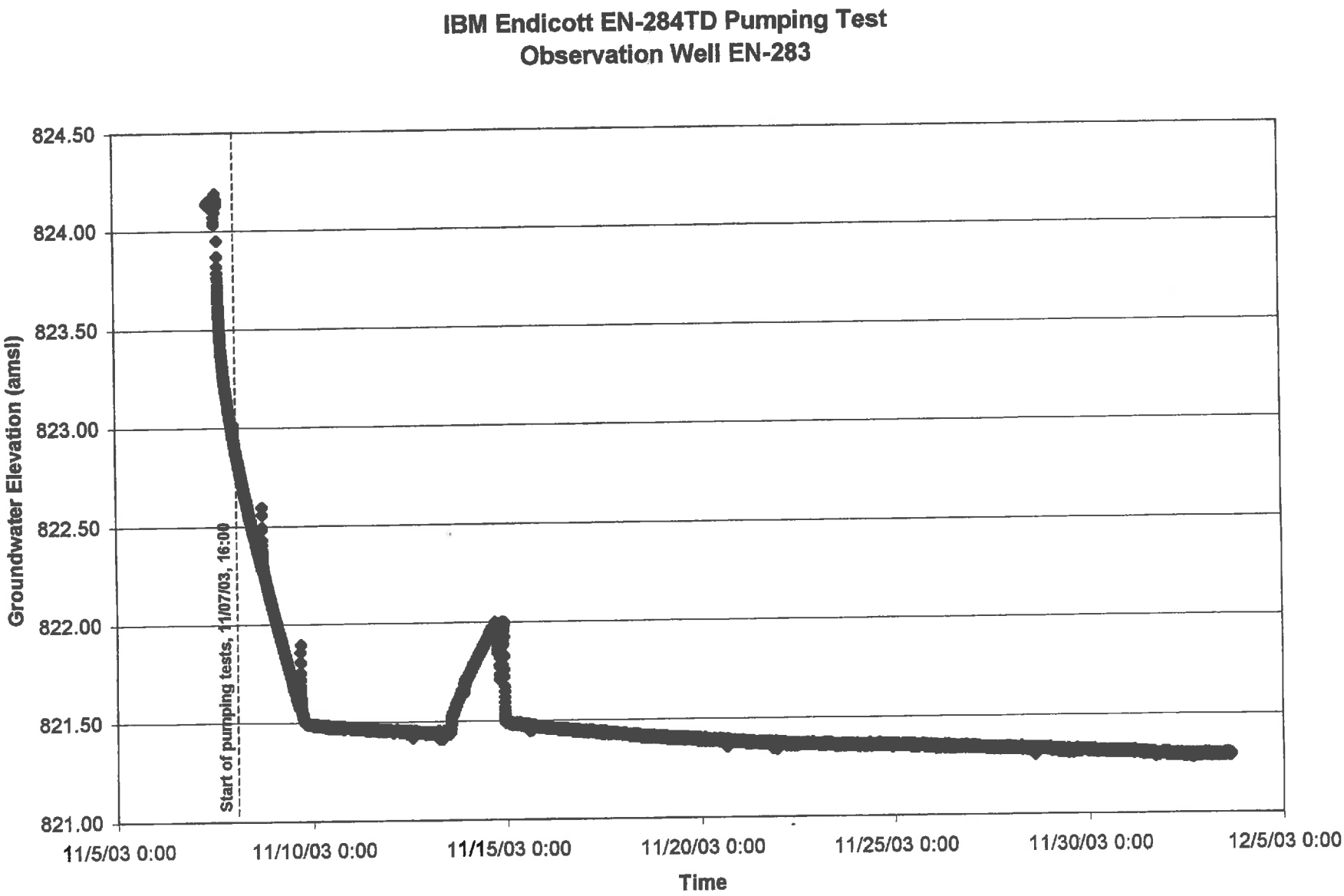


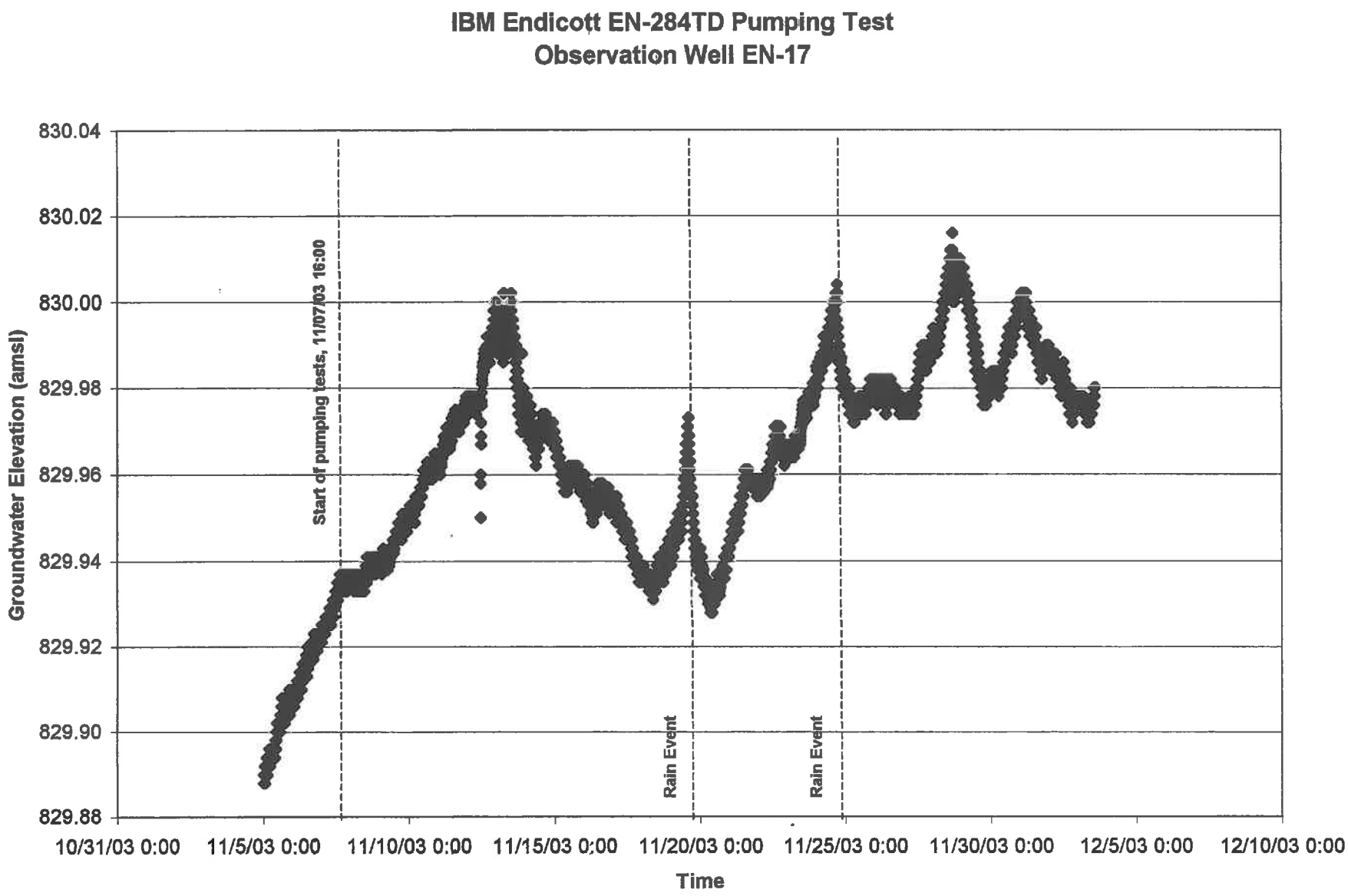

IBM Endicott EN-284TD Pumping Test
Observation Well EN-29A
Groundwater Elevation (feet amsl)
823.00
822.75
822.50
822.25
822.00
821.75
821.50
Start of pumping test-11/7/03 16:00 (80 gpm)
Test shutdown-11/12/03 12:00
Restart of pumping test-11/14/03 22:30
Start of major rain event-11/19/03
Test shutdown-11/19/03 16:30
Extraction Well system start-11/24/03
Restart of pumping test-11/2 03 00:35, (90 gpm)
11/3/03 0:00
11/5/03 0:00
11/7/03 0:00
11/9/03 0:00
11/11/03 0:00
11/13/03 0:00
11/15/03 0:00
11/17/03 0:00
11/19/03 0:00
11/21/03 0:00
11/23/03 0:00
11/25/03 0:00
11/27/03 0:00
11/29/03 0:00
12/1/03 0:00
12/3/03 0:00
12/5/03 0:00
Time

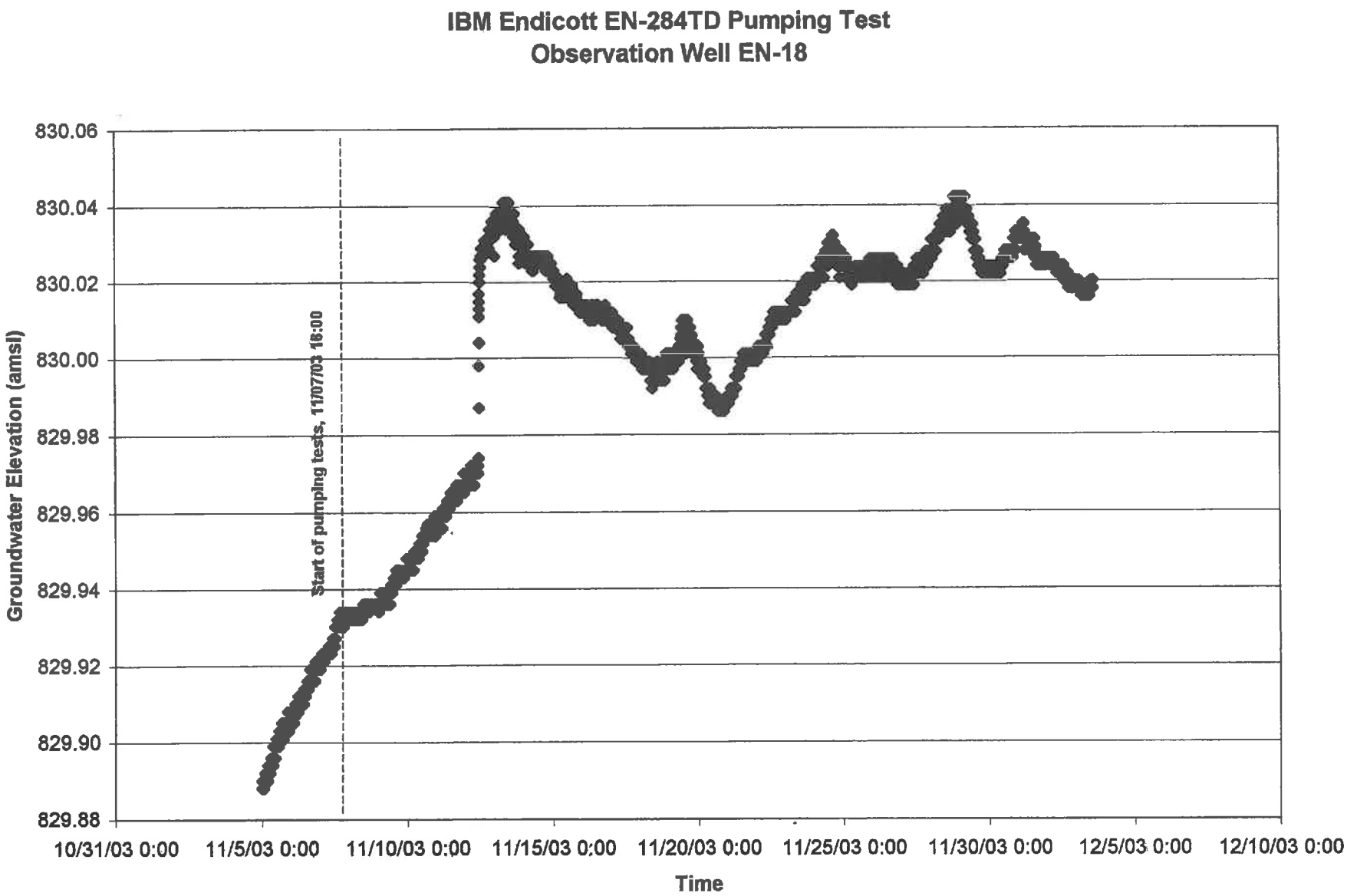
IBM Endicott EN-284TD Pumping Test
Observation Well EN-29A

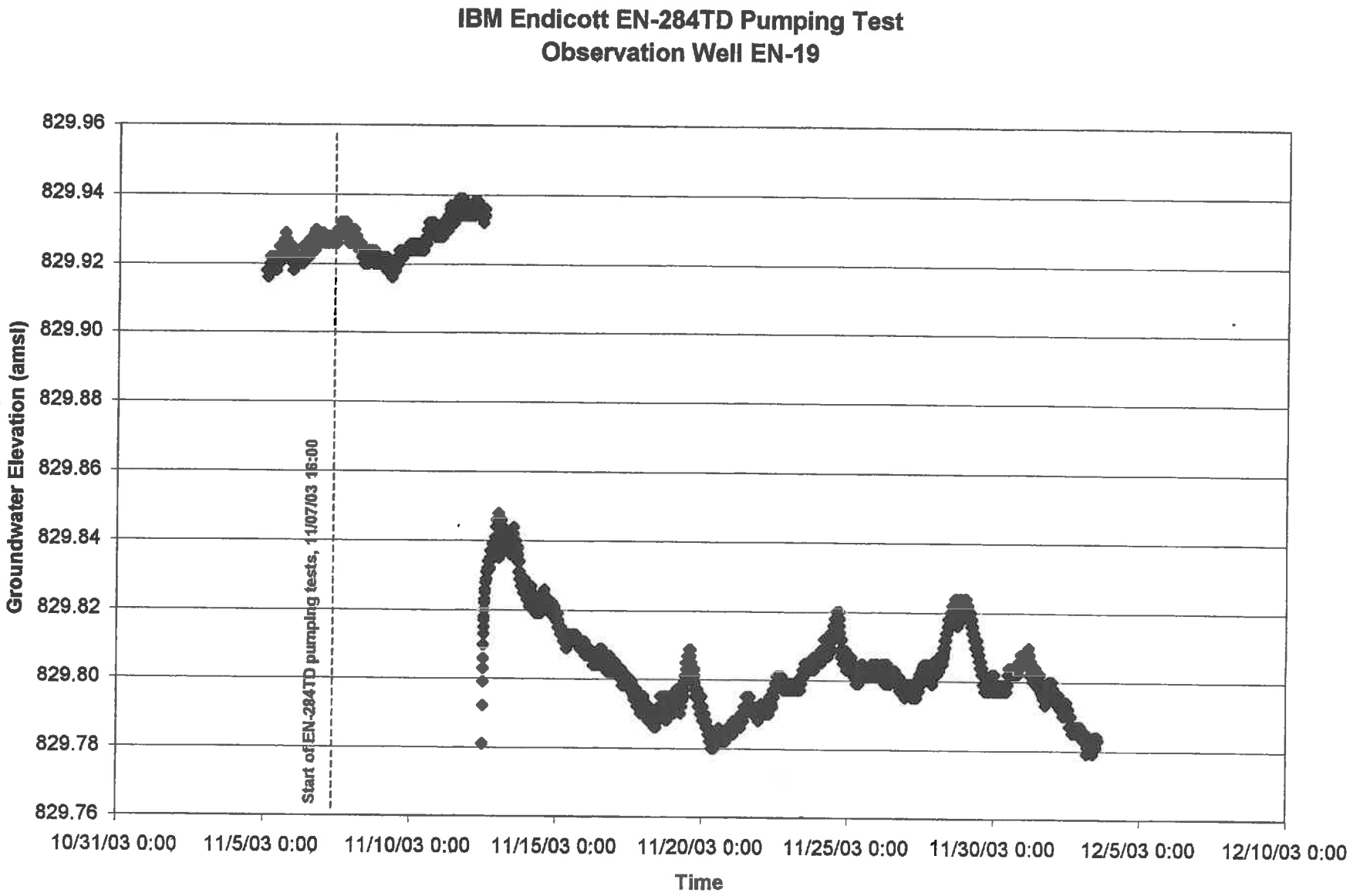


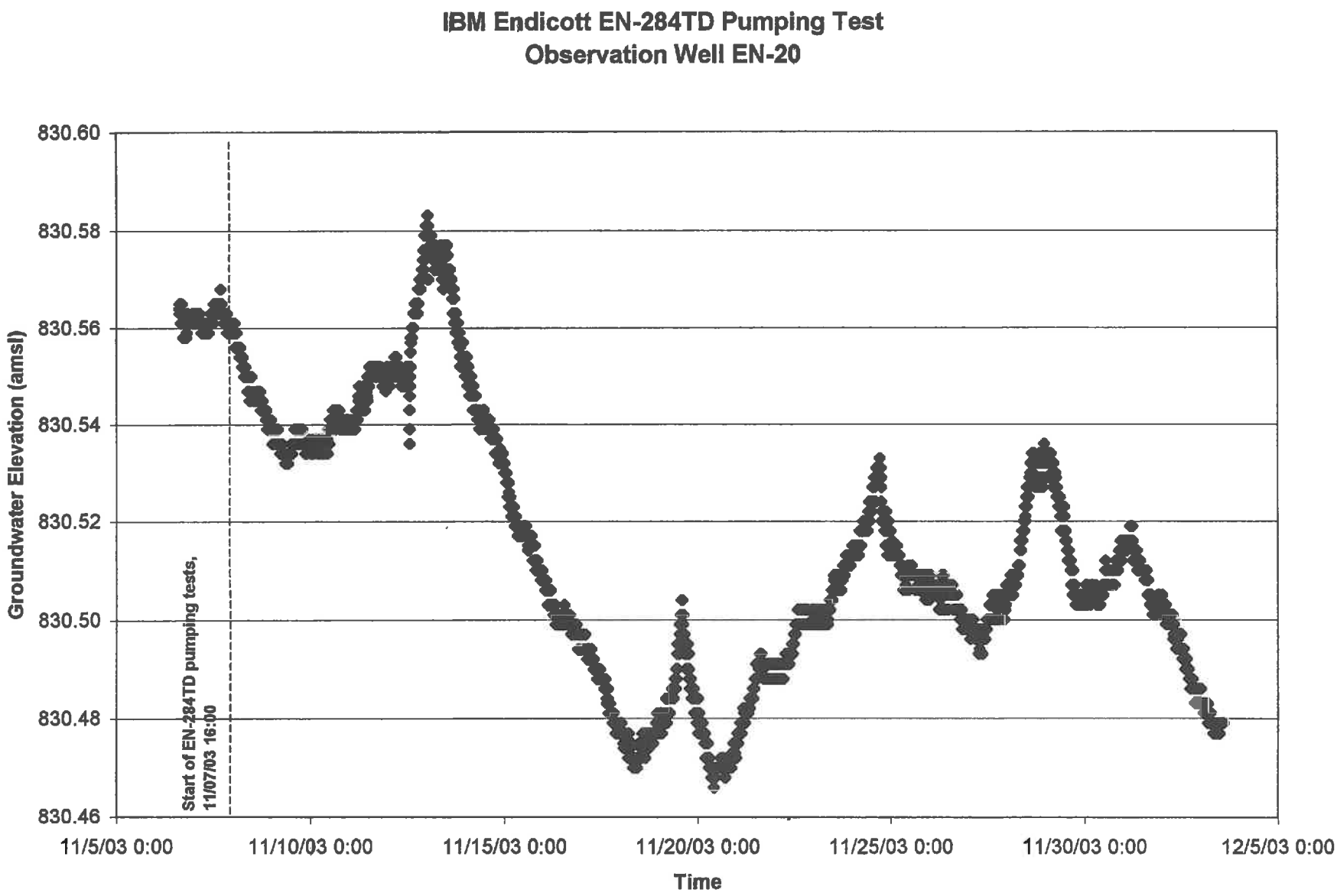

IBM Endicott EN-284TD Pumping Test
Observation Well EN-279
Groundwater Elevation (feet amsl)
824.50
824.00
823.50
823.00
822.50
822.00
821.50
821.00
820.50
820.00
Start of pumping test-11/7/03 16:00 (80 gpm)
Test shutdown-11/12/03 12:00
Restart of pumping test-11/14/03 22:30
Test shutdown-11/19/03 16:30
Restart of pumping test-11/25/03 00:35, (90 gpm)
water level below transducer
11/4/03 0:00
11/6/03 0:00
11/8/03 0:00
11/10/03 0:00
11/12/03 0:00
11/14/03 0:00
11/16/03 0:00
11/18/03 0:00
11/20/03 0:00
11/22/03 0:00
11/24/03 0:00
11/26/03 0:00
11/28/03 0:00
11/30/03 0:00
12/2/03 0:00
12/4/03 0:00
Time

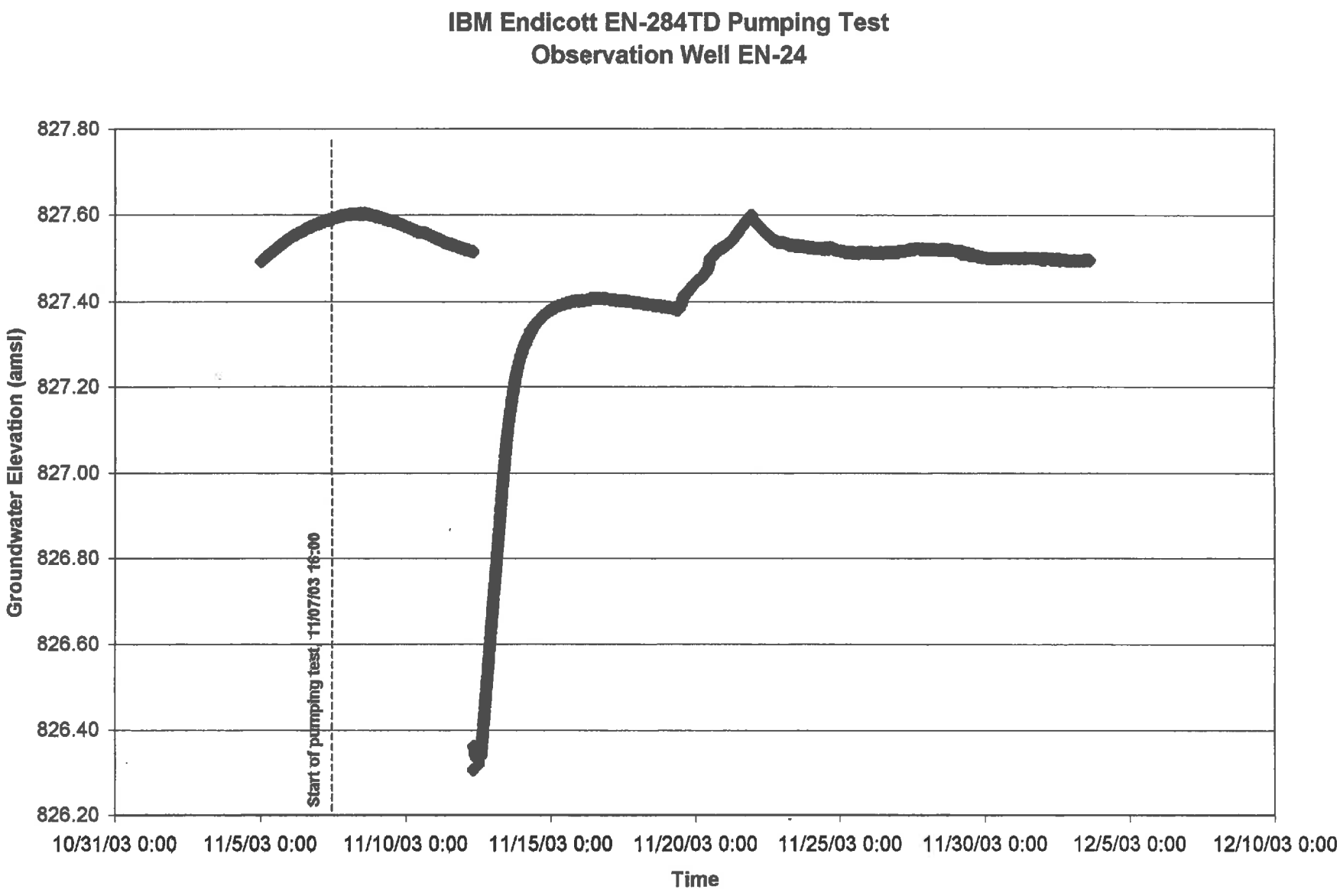

IBM Endicott EN-284TD Pumping Test
Observation Well EN-283
Groundwater Elevation (amsl)
824.50
824.00
823.50
823.00
822.50
822.00
821.50
821.00
Start of pumping tests, 11/07/03, 16:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
Time

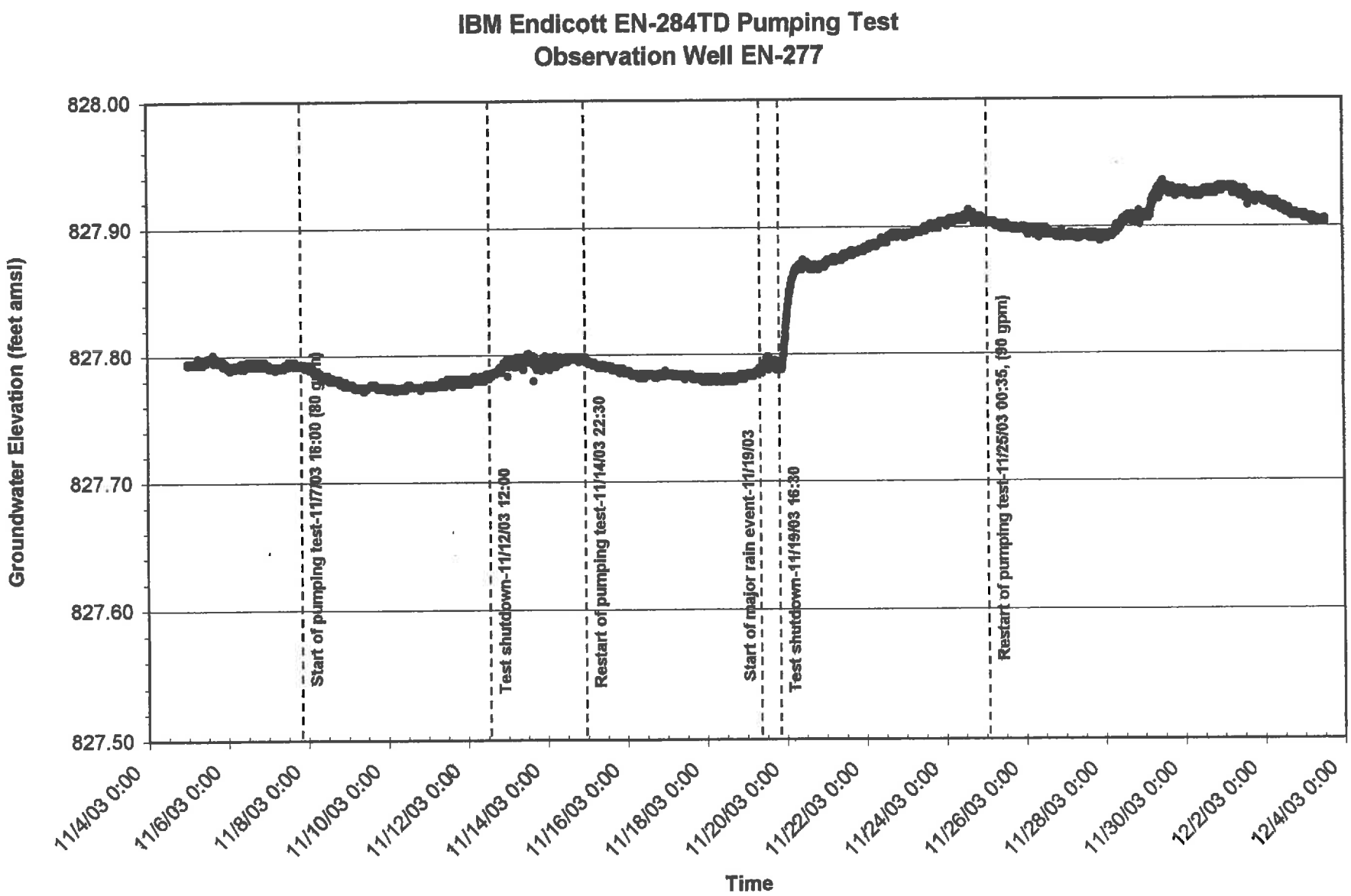

IBM Endicott EN-284TD Pumping Test
Observation Well EN-17
Groundwater Elevation (amsl)
830.04
830.02
830.00
829.98
829.96
829.94
829.92
829.90
829.88
Start of pumping tests, 11/07/03 16:00
Rain Event
Rain Event
10/31/03 0:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
12/10/03 0:00
Time

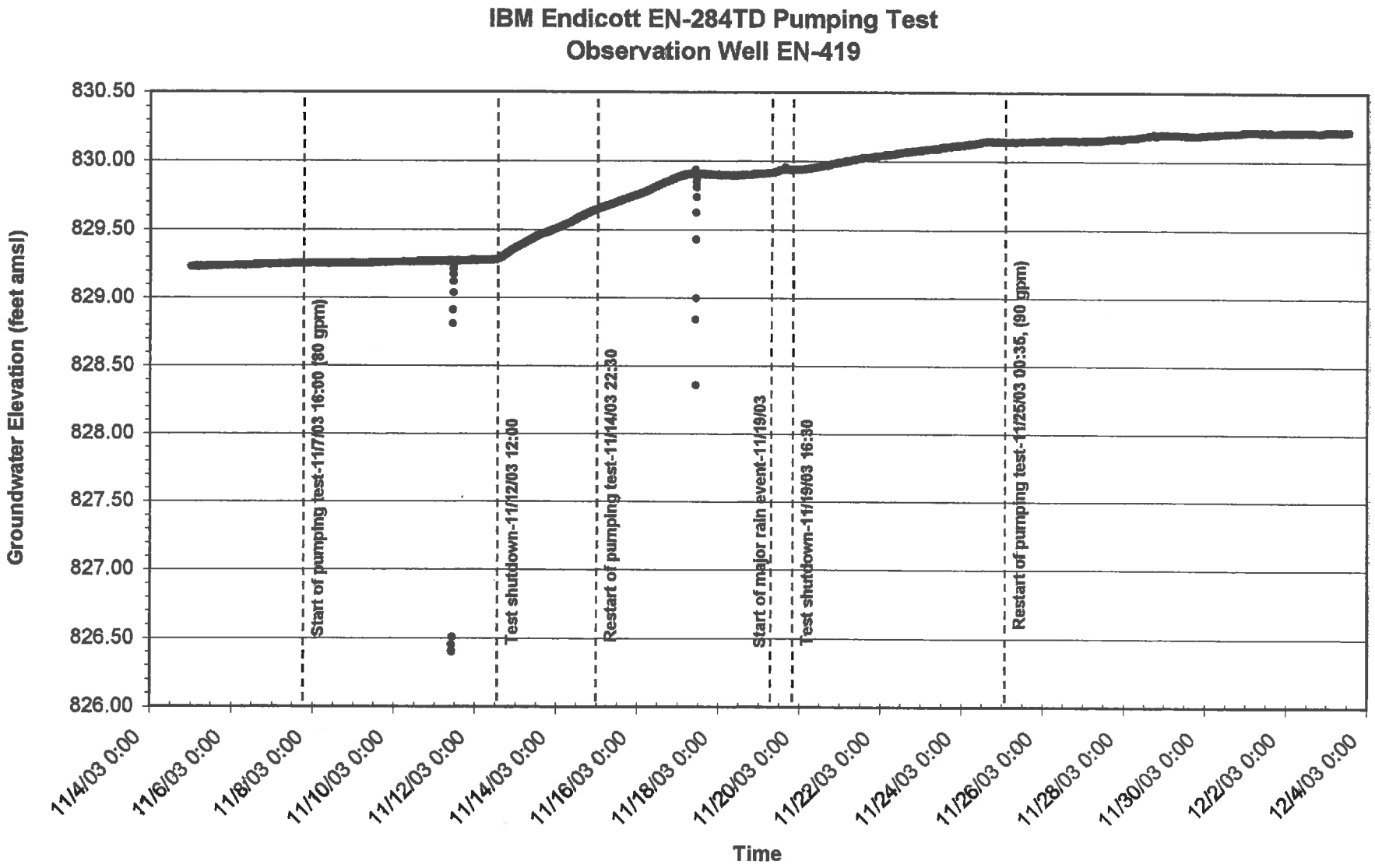

IBM Endicott EN-284TD Pumping Test
Observation Well EN-18
Groundwater Elevation (amsl)
830.06
830.04
830.02
830.00
829.98
829.96
829.94
829.92
829.90
829.88
Start of pumping tests, 11/07/03 18:00
10/31/03 0:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
12/10/03 0:00
Time

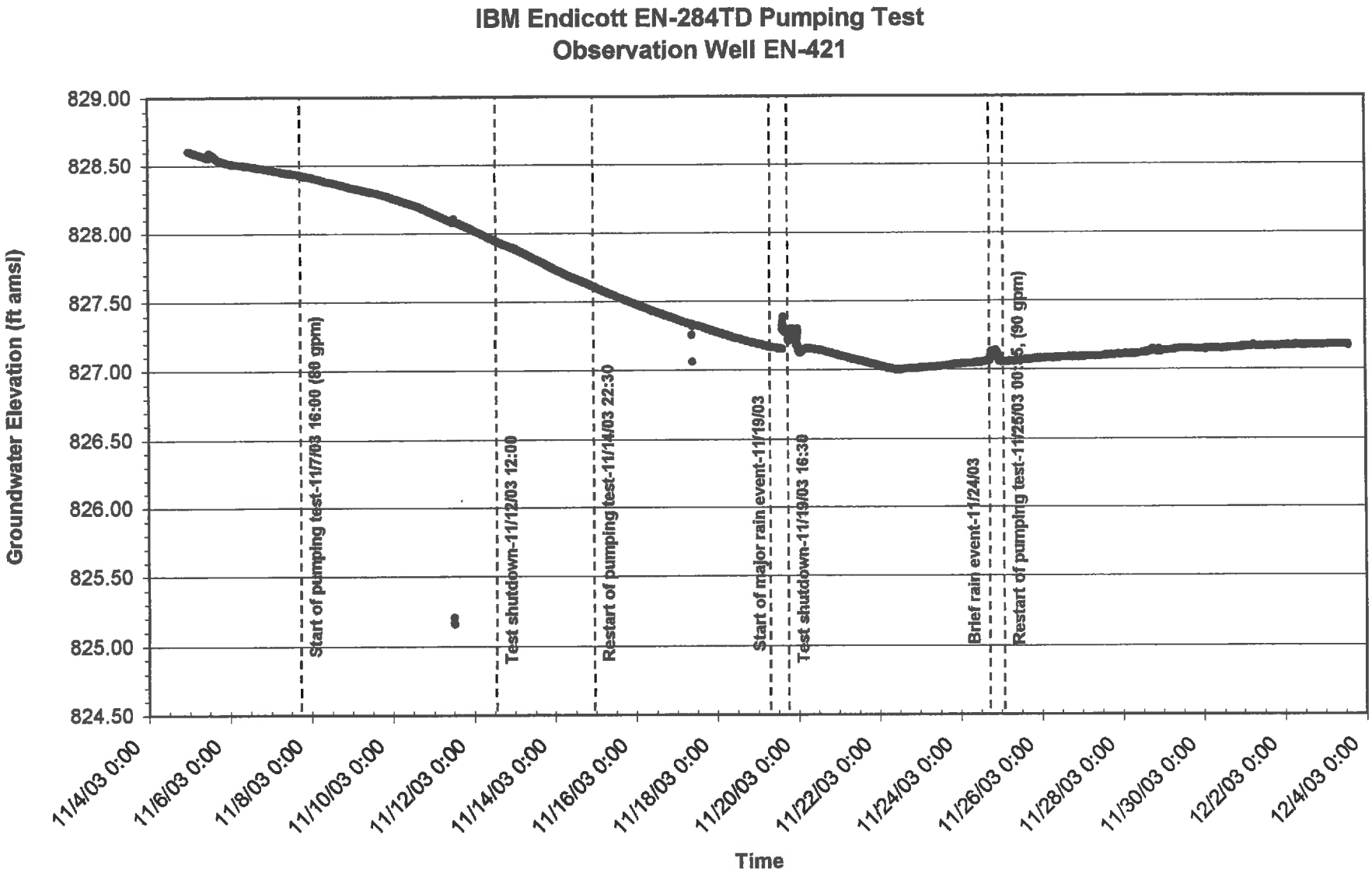

IBM Endicott EN-284TD Pumping Test
Observation Well EN-19
Groundwater Elevation (amsl)
829.96
829.94
829.92
829.90
829.88
829.86
829.84
829.82
829.80
829.78
829.76
Start of EN-284TD pumping tests, 11/07/03 16:00
10/31/03 0:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
12/10/03 0:00
Time

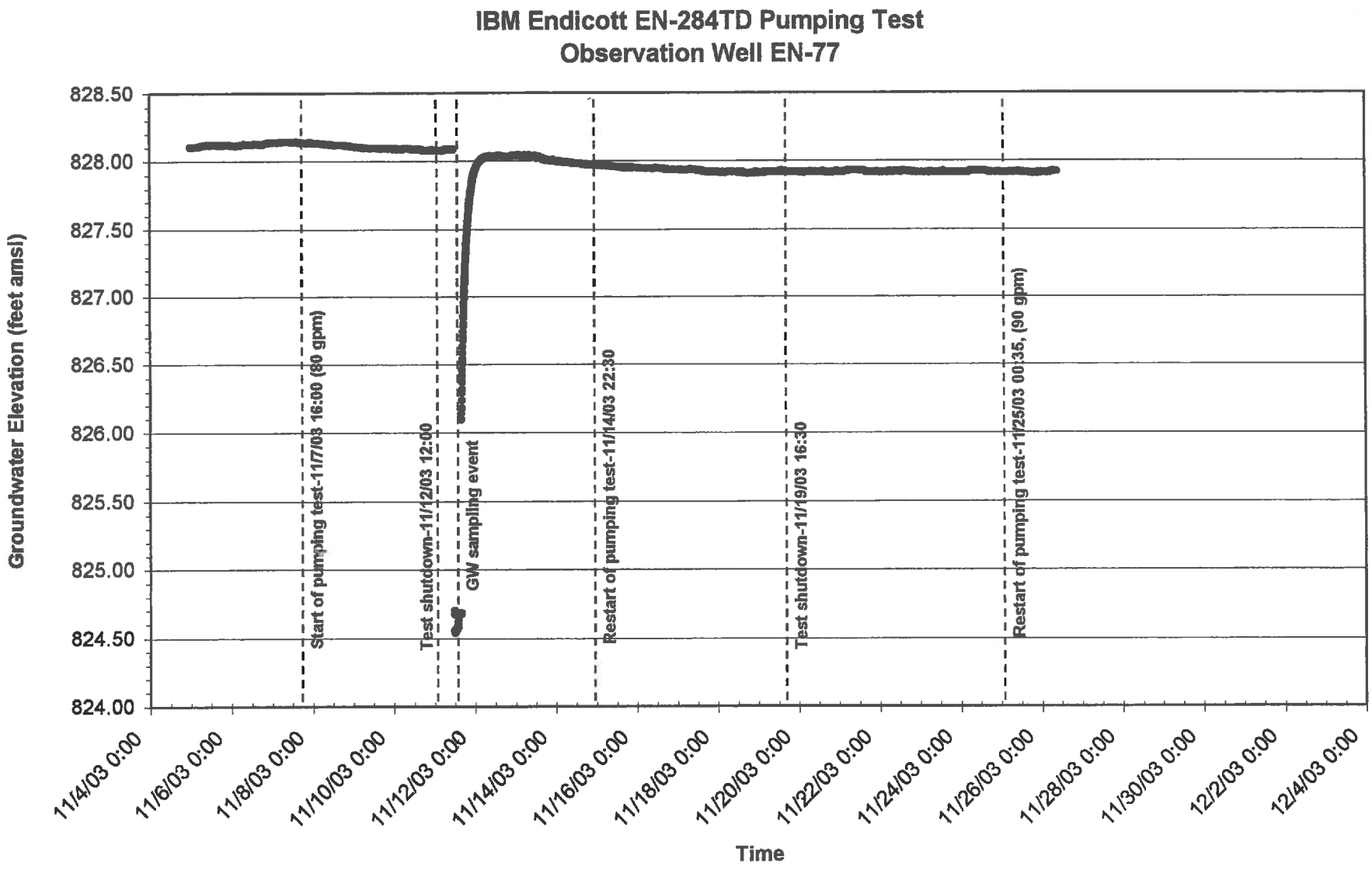

IBM Endicott EN-284TD Pumping Test
Observation Well EN-20
Groundwater Elevation (amsl)
830.60
830.58
830.56
830.54
830.52
830.50
830.48
830.46
Start of EN-284TD pumping tests,
11/07/03 16:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
Time

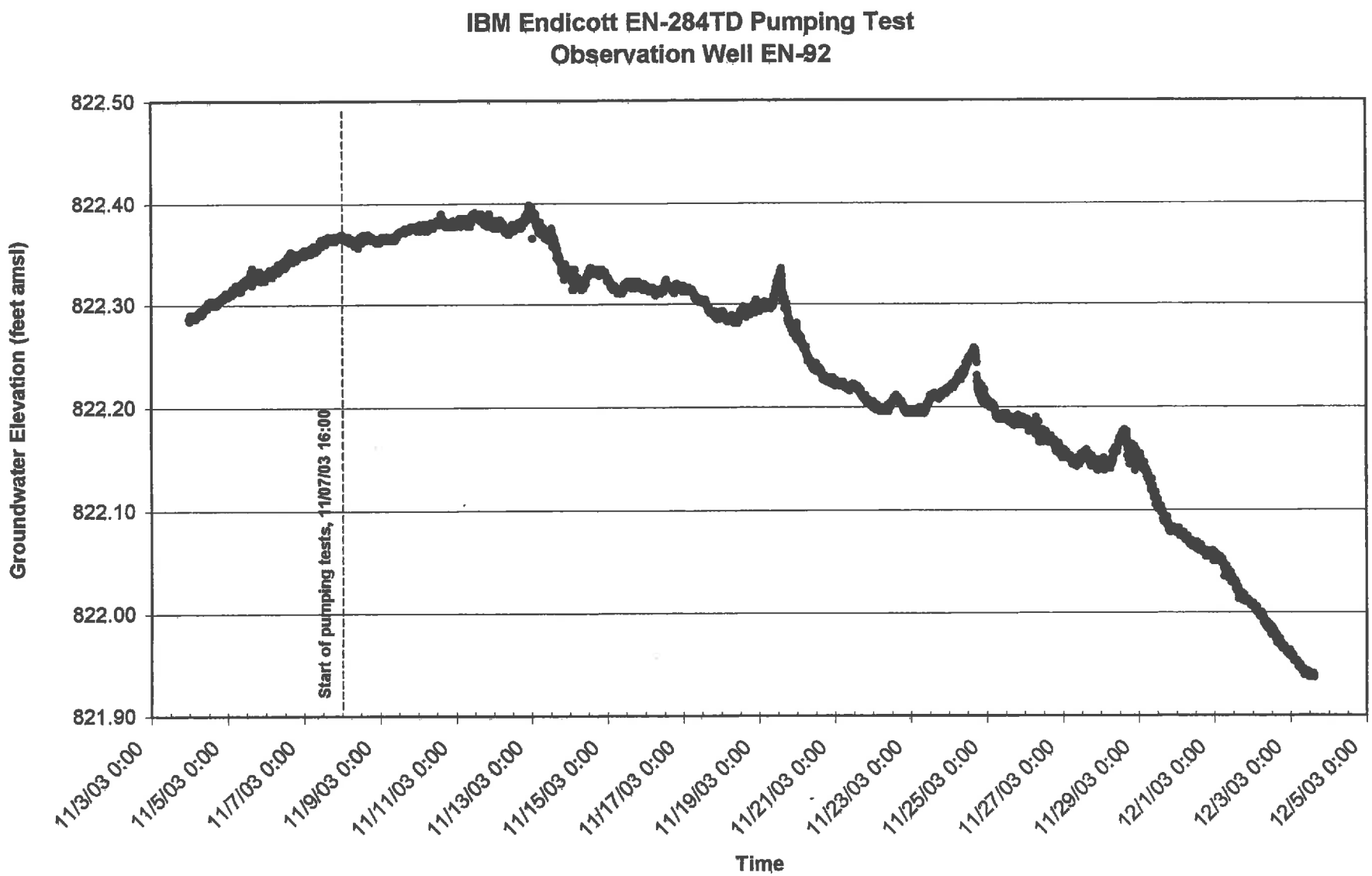

IBM Endicott EN-284TD Pumping Test
Observation Well EN-24
Groundwater Elevation (amsl)
827.80
827.60
827.40
827.20
827.00
826.80
826.60
826.40
826.20
Start of pumping test, 11/07/03 16:00
10/31/03 0:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
12/10/03 0:00
Time

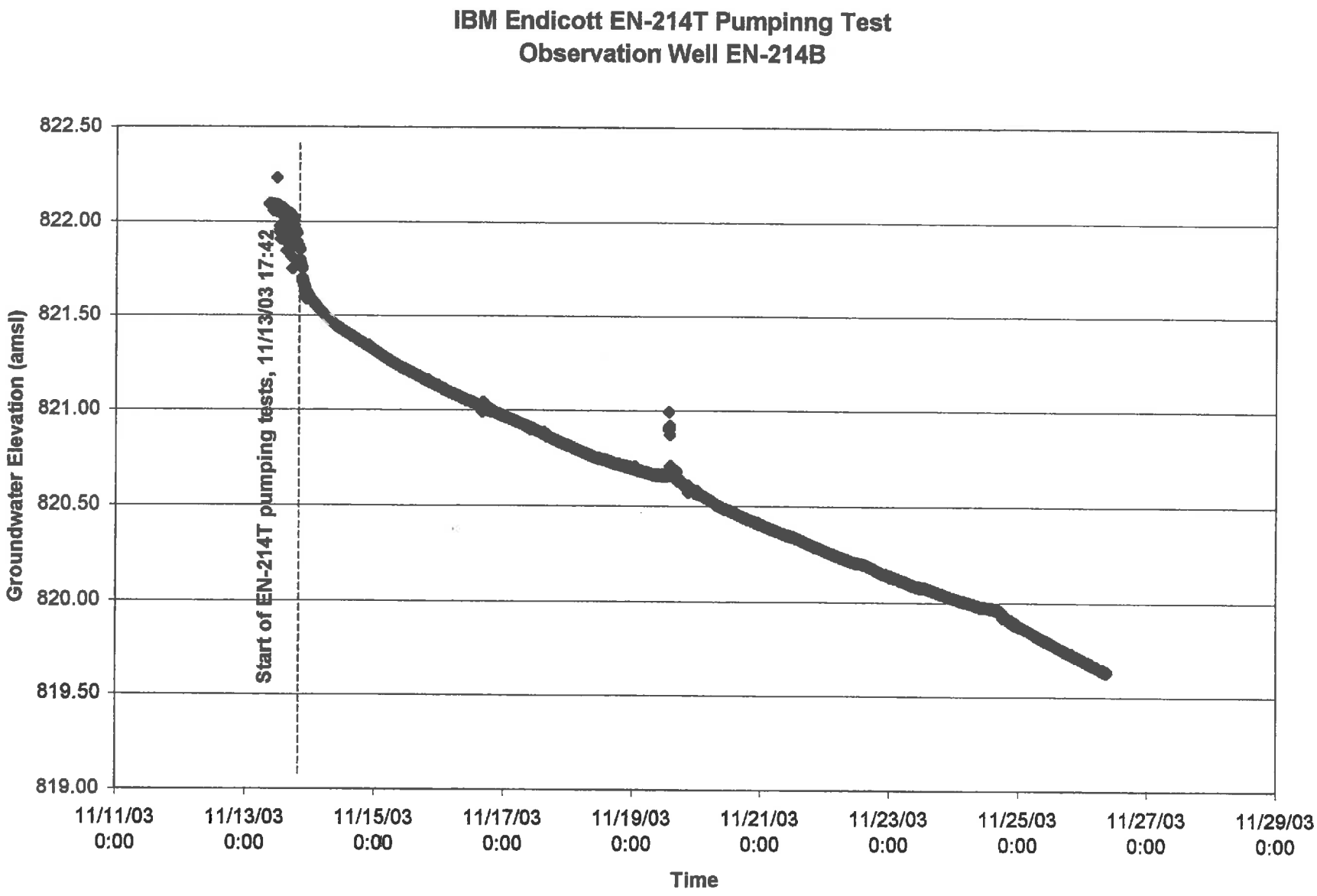

IBM Endicott EN-284TD Pumping Test
Observation Well EN-277
Groundwater Elevation (feet amsl)
828.00
827.90
827.80
827.70
827.60
827.50
Start of pumping test-11/7/03 16:00 (80 gpm)
Test shutdown-11/12/03 12:00
Restart of pumping test-11/14/03 22:30
Start of major rain event-11/19/03
Test shutdown-11/19/03 16:30
Restart of pumping test-11/25/03 00:35, (90 gpm)
11/4/03 0:00
11/6/03 0:00
11/8/03 0:00
11/10/03 0:00
11/12/03 0:00
11/14/03 0:00
11/16/03 0:00
11/18/03 0:00
11/20/03 0:00
11/22/03 0:00
11/24/03 0:00
11/26/03 0:00
11/28/03 0:00
11/30/03 0:00
12/2/03 0:00
12/4/03 0:00
Time


IBM Endicott EN-284TD Pumping Test
Observation Well EN-419
Groundwater Elevation (feet amsl)
830.50
830.00
829.50
829.00
828.50
828.00
827.50
827.00
826.50
826.00
Start of pumping test-11/7/03 16:00 (80 gpm)
Test shutdown-11/12/03 12:00
Restart of pumping test-11/14/03 22:30
Start of major rain event-11/19/03
Test shutdown-11/19/03 16:30
Restart of pumping test-11/25/03 00:35, (90 gpm)
11/4/03 0:00
11/6/03 0:00
11/8/03 0:00
11/10/03 0:00
11/12/03 0:00
11/14/03 0:00
11/16/03 0:00
11/18/03 0:00
11/20/03 0:00
11/22/03 0:00
11/24/03 0:00
11/26/03 0:00
11/28/03 0:00
11/30/03 0:00
12/2/03 0:00
12/4/03 0:00
Time

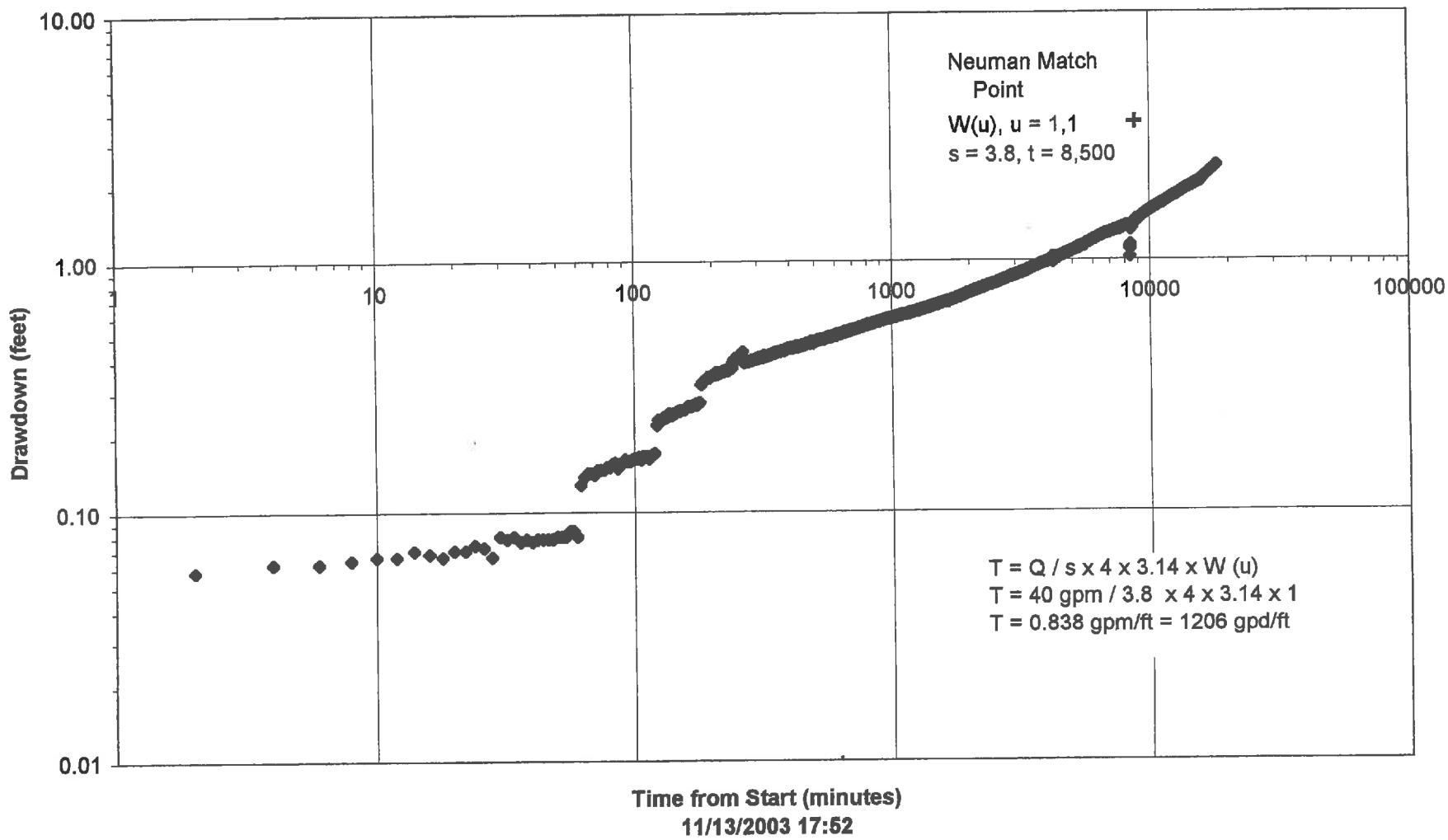

IBM Endicott EN-284TD Pumping Test
Observation Well EN-421
Groundwater Elevation (ft amsl)
829.00
828.50
828.00
827.50
827.00
826.50
826.00
825.50
825.00
824.50
Start of pumping test-11/7/03 16:00 (60 gpm)
Test shutdown-11/12/03 12:00
Restart of pumping test-11/14/03 22:30
Start of major rain event-11/19/03
Test shutdown-11/19/03 16:30
Brief rain event-11/24/03
Restart of pumping test-11/25/03 00:15, (90 gpm)
11/4/03 0:00
11/6/03 0:00
11/8/03 0:00
11/10/03 0:00
11/12/03 0:00
11/14/03 0:00
11/16/03 0:00
11/18/03 0:00
11/20/03 0:00
11/22/03 0:00
11/24/03 0:00
11/26/03 0:00
11/28/03 0:00
11/30/03 0:00
12/2/03 0:00
12/4/03 0:00
Time

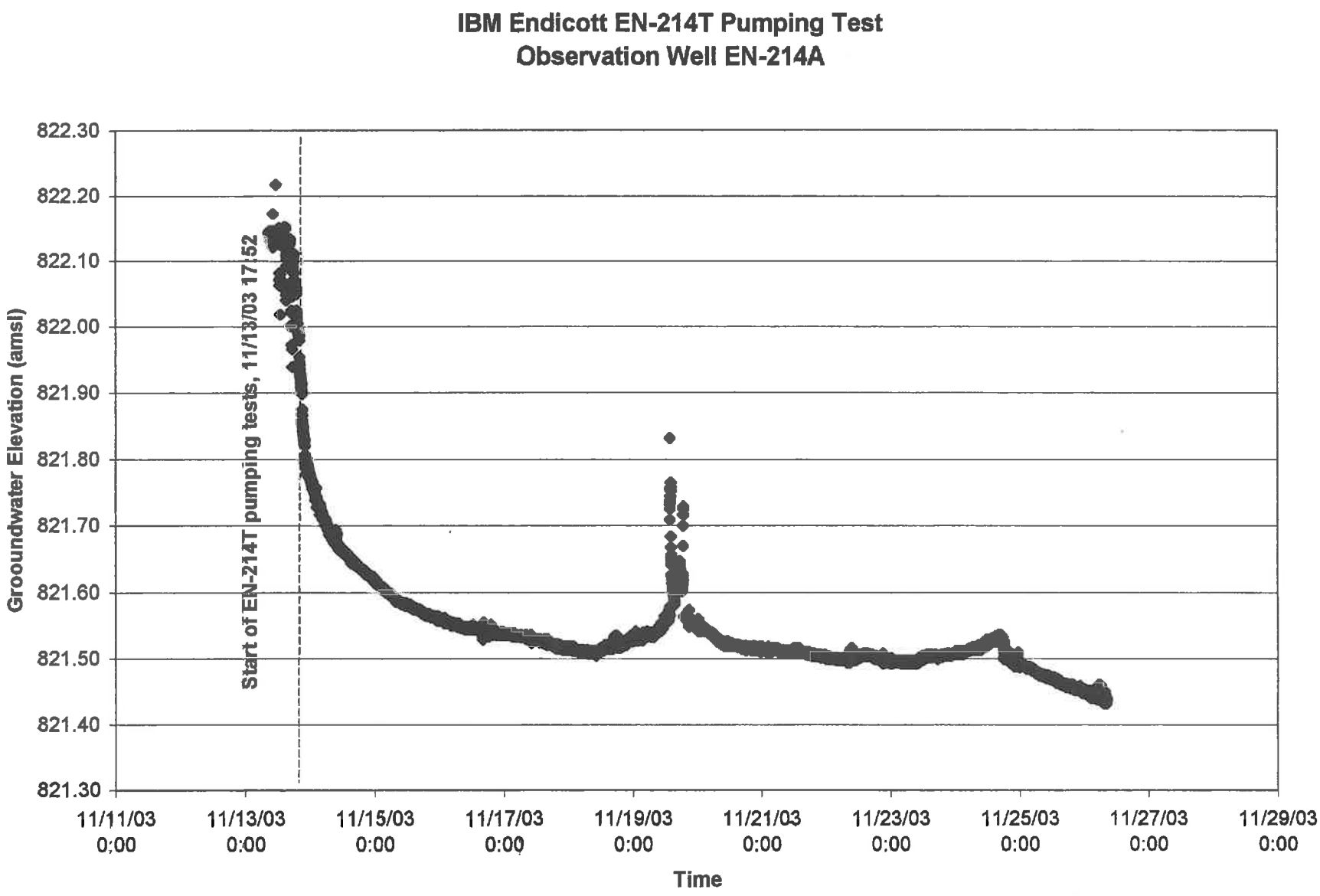

IBM Endicott EN-284TD Pumping Test
Observation Well EN-77
Groundwater Elevation (feet amsl)
828.50
828.00
827.50
827.00
826.50
826.00
825.50
825.00
824.50
824.00
Start of pumping test-11/7/03 16:00 (90 gpm)
Test shutdown-11/12/03 12:00
GW sampling event
Restart of pumping test-11/14/03 22:30
Test shutdown-11/19/03 16:30
Restart of pumping test-11/25/03 00:35, (90 gpm)
11/4/03 0:00
11/6/03 0:00
11/8/03 0:00
11/10/03 0:00
11/12/03 0:00
11/14/03 0:00
11/16/03 0:00
11/18/03 0:00
11/20/03 0:00
11/22/03 0:00
11/24/03 0:00
11/26/03 0:00
11/28/03 0:00
11/30/03 0:00
12/2/03 0:00
12/4/03 0:00
Time


IBM Endicott EN-284TD Pumping Test
Observation Well EN-92
Groundwater Elevation (feet amsl)
822.50
822.40
822.30
822.20
822.10
822.00
821.90
Start of pumping tests, 11/07/03 16:00
11/3/03 0:00
11/5/03 0:00
11/7/03 0:00
11/9/03 0:00
11/11/03 0:00
11/13/03 0:00
11/15/03 0:00
11/17/03 0:00
11/19/03 0:00
11/21/03 0:00
11/23/03 0:00
11/25/03 0:00
11/27/03 0:00
11/29/03 0:00
12/1/03 0:00
12/3/03 0:00
12/5/03 0:00
Time

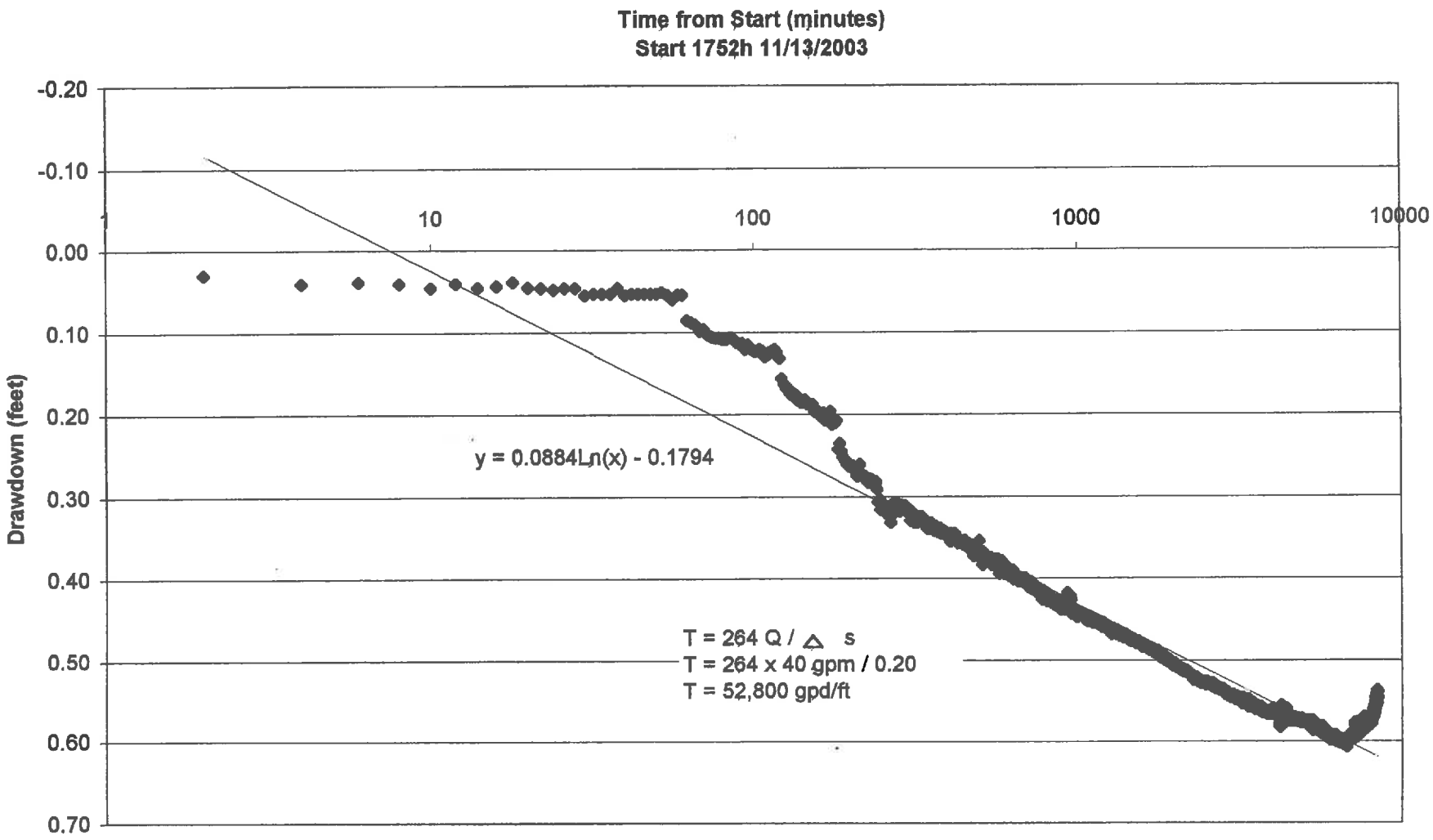

IBM Endicott EN-214T Pumpinng Test
Observation Well EN-214B
Groundwater Elevation (amsl)
822.50
822.00
821.50
821.00
820.50
820.00
819.50
819.00
Start of EN-214T pumping tests, 11/13/03 17:42
11/11/03 0:00
11/13/03 0:00
11/15/03 0:00
11/17/03 0:00
11/19/03 0:00
11/21/03 0:00
11/23/03 0:00
11/25/03 0:00
11/27/03 0:00
11/29/03 0:00
Time

IBM Endicott EN-214T Pumping Test
Observation Well EN-214B

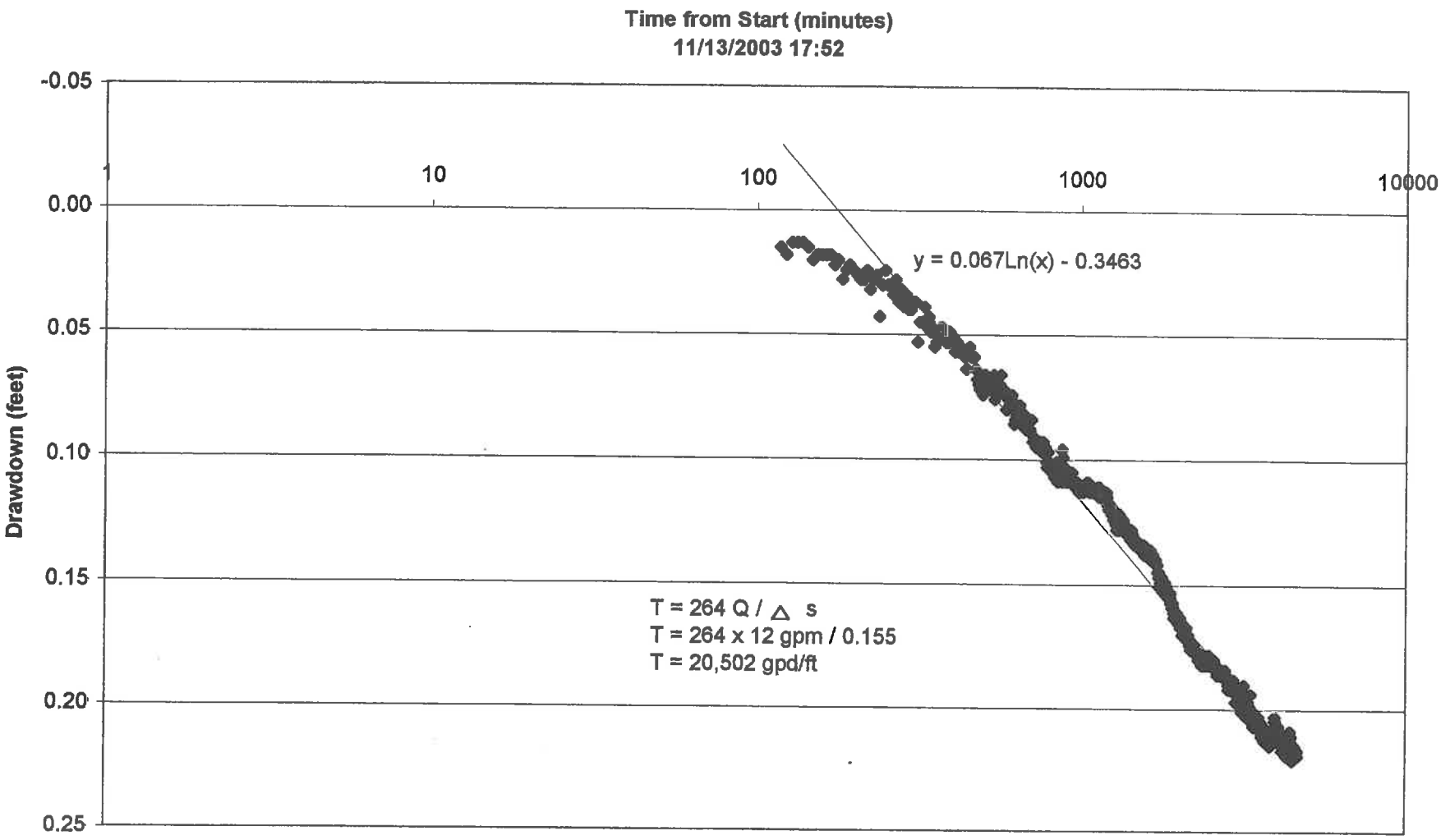


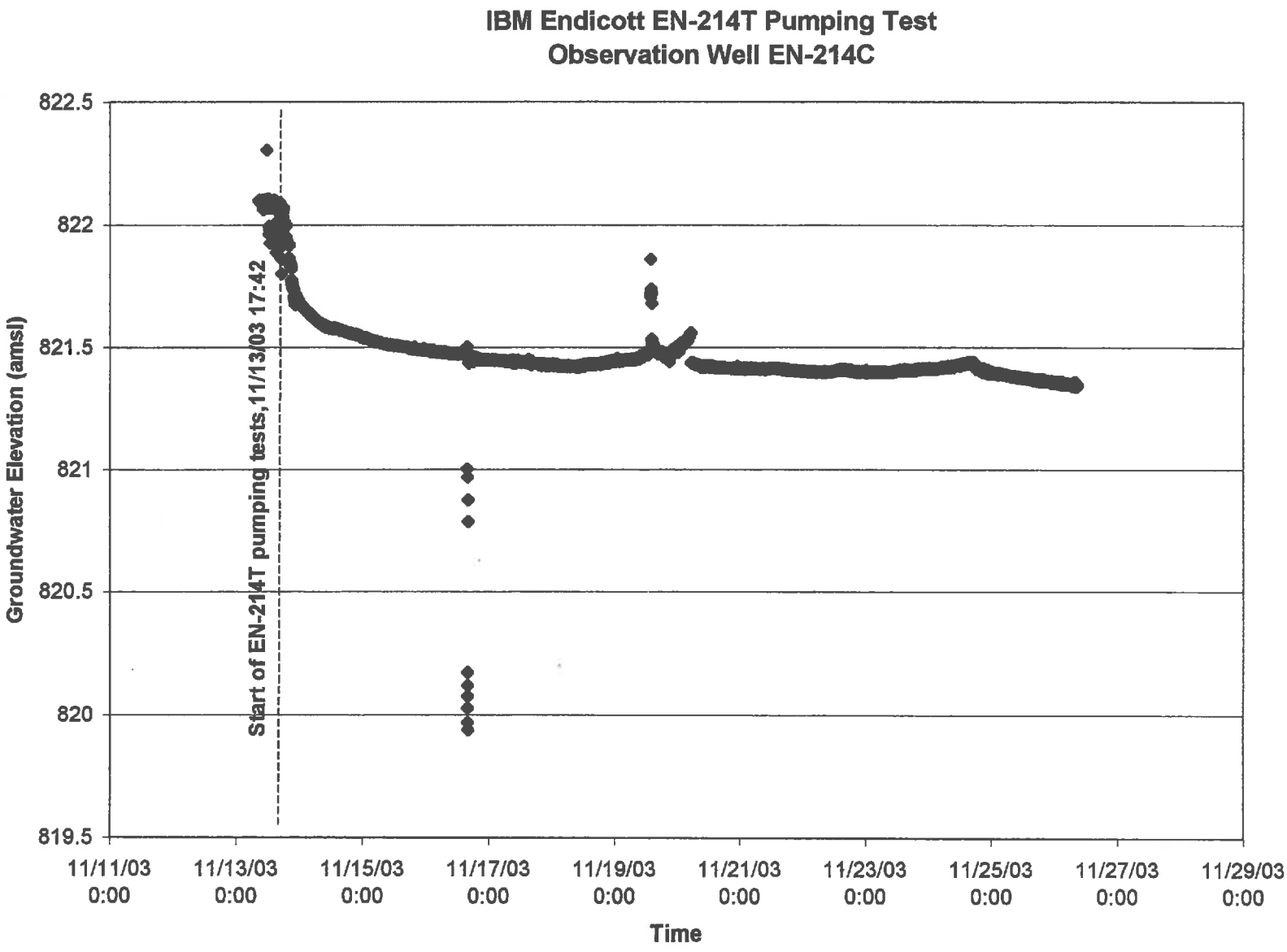

IBM Endicott EN-214T Pumping Test
Observation Well EN-214A
Groundwater Elevation (amsl)
822.30
822.20
822.10
822.00
821.90
821.80
821.70
821.60
821.50
821.40
821.30
Start of EN-214T pumping tests, 11/13/03 17:52
11/11/03 0:00
11/13/03 0:00
11/15/03 0:00
11/17/03 0:00
11/19/03 0:00
11/21/03 0:00
11/23/03 0:00
11/25/03 0:00
11/27/03 0:00
11/29/03 0:00
Time

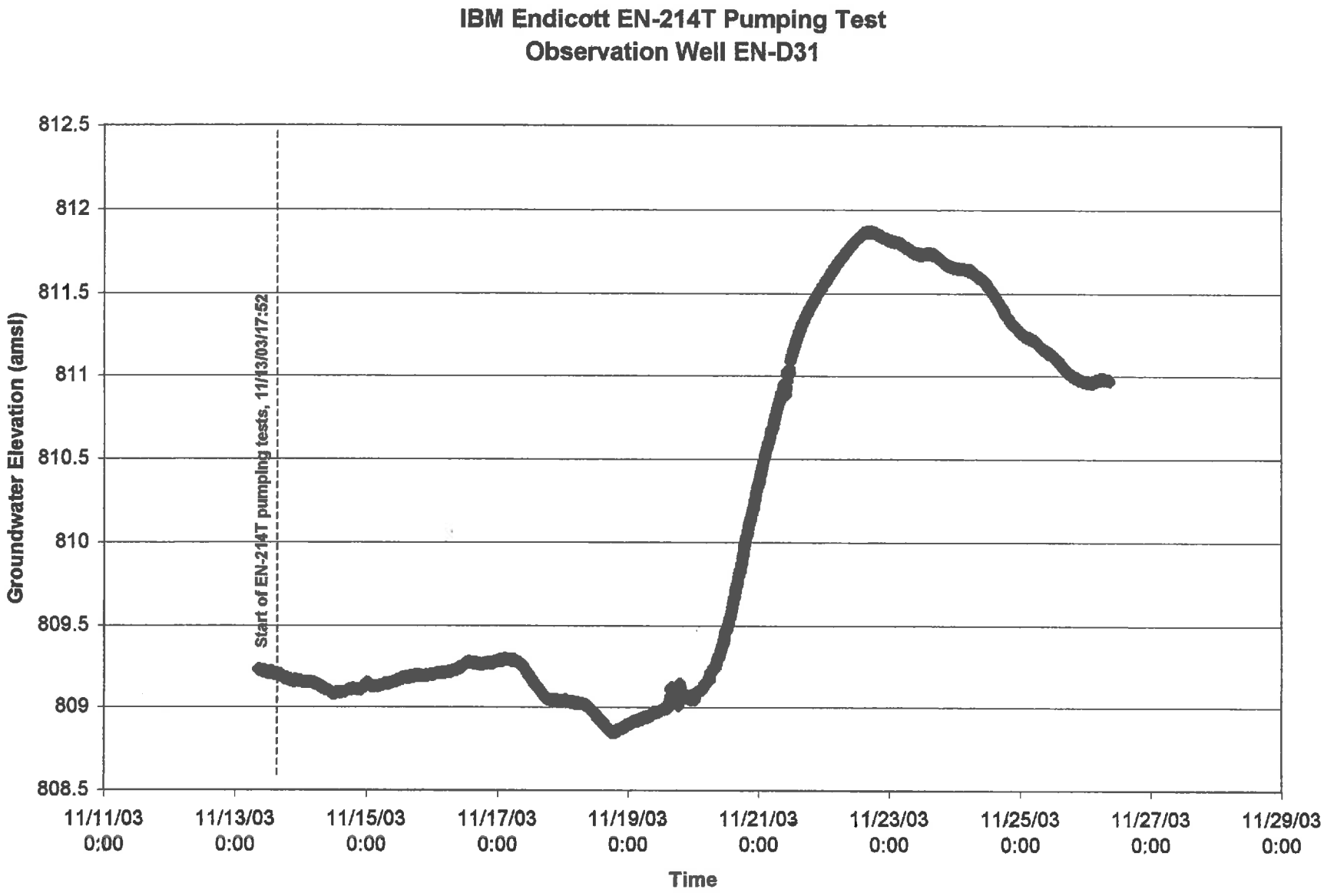
IBM Endicott EN-214T Pumpinng Test
Observation Well EN-214A

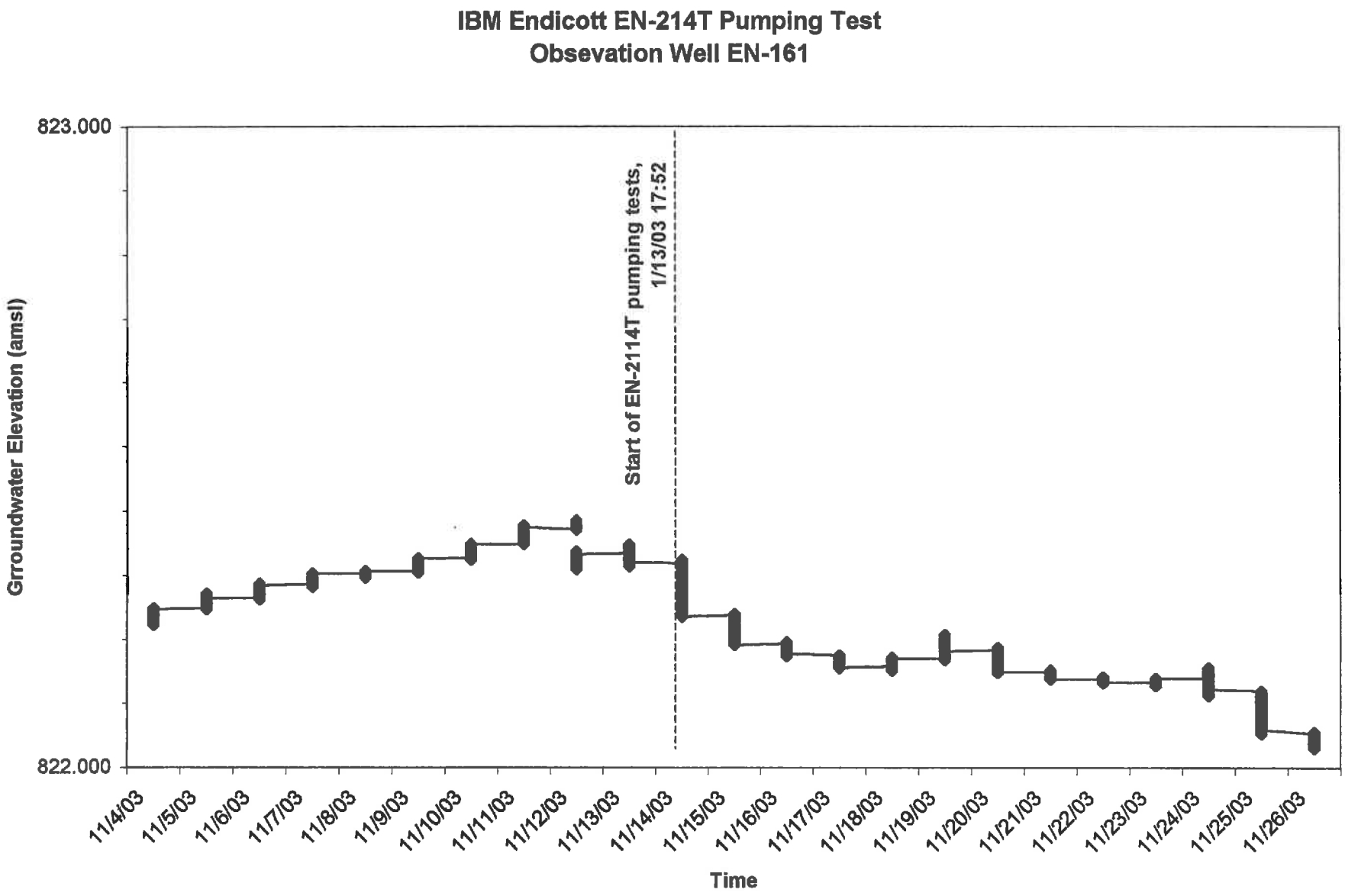


IBM Endicott EN-214T Pumping Test
Observation Well EN-204

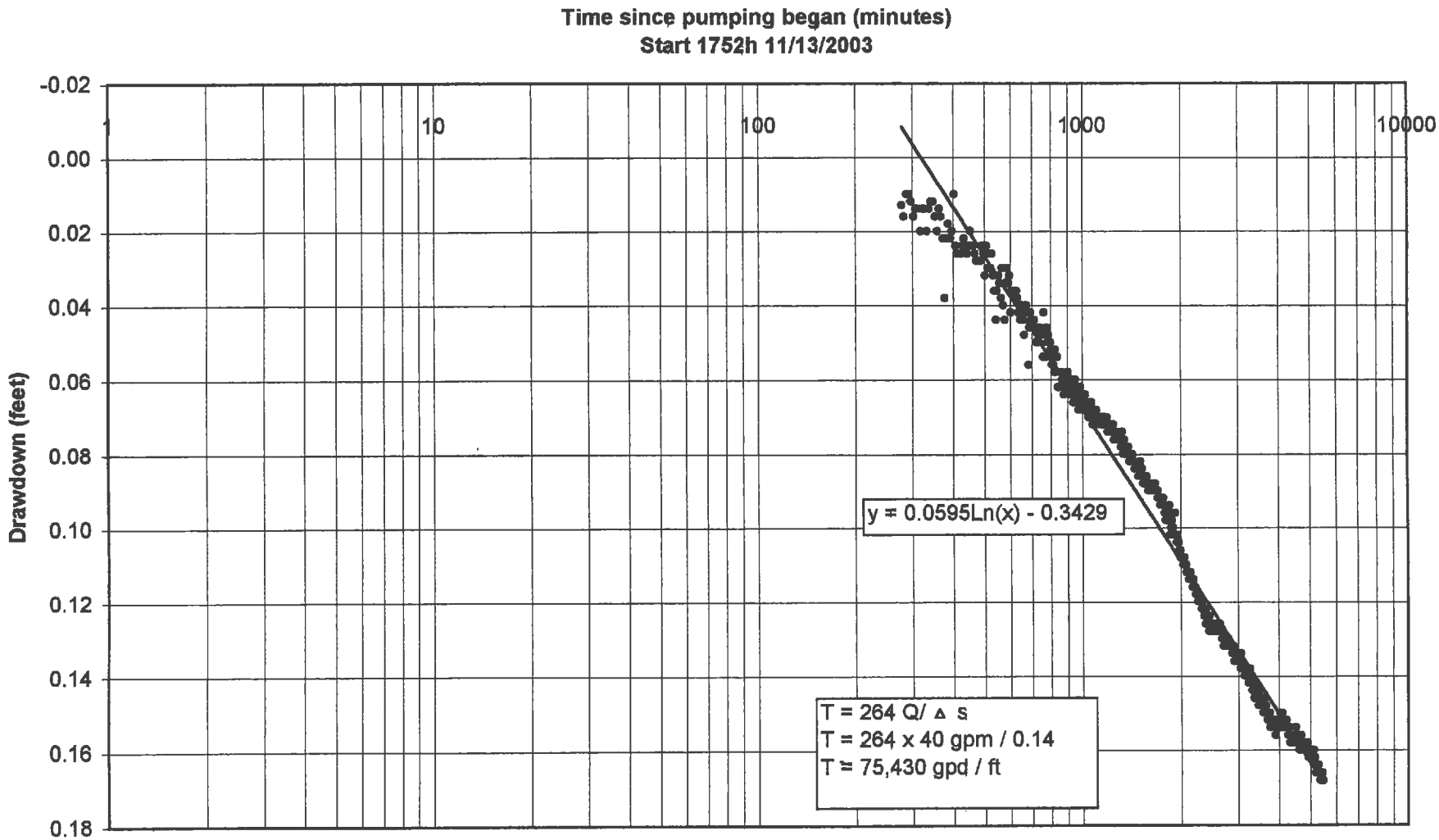


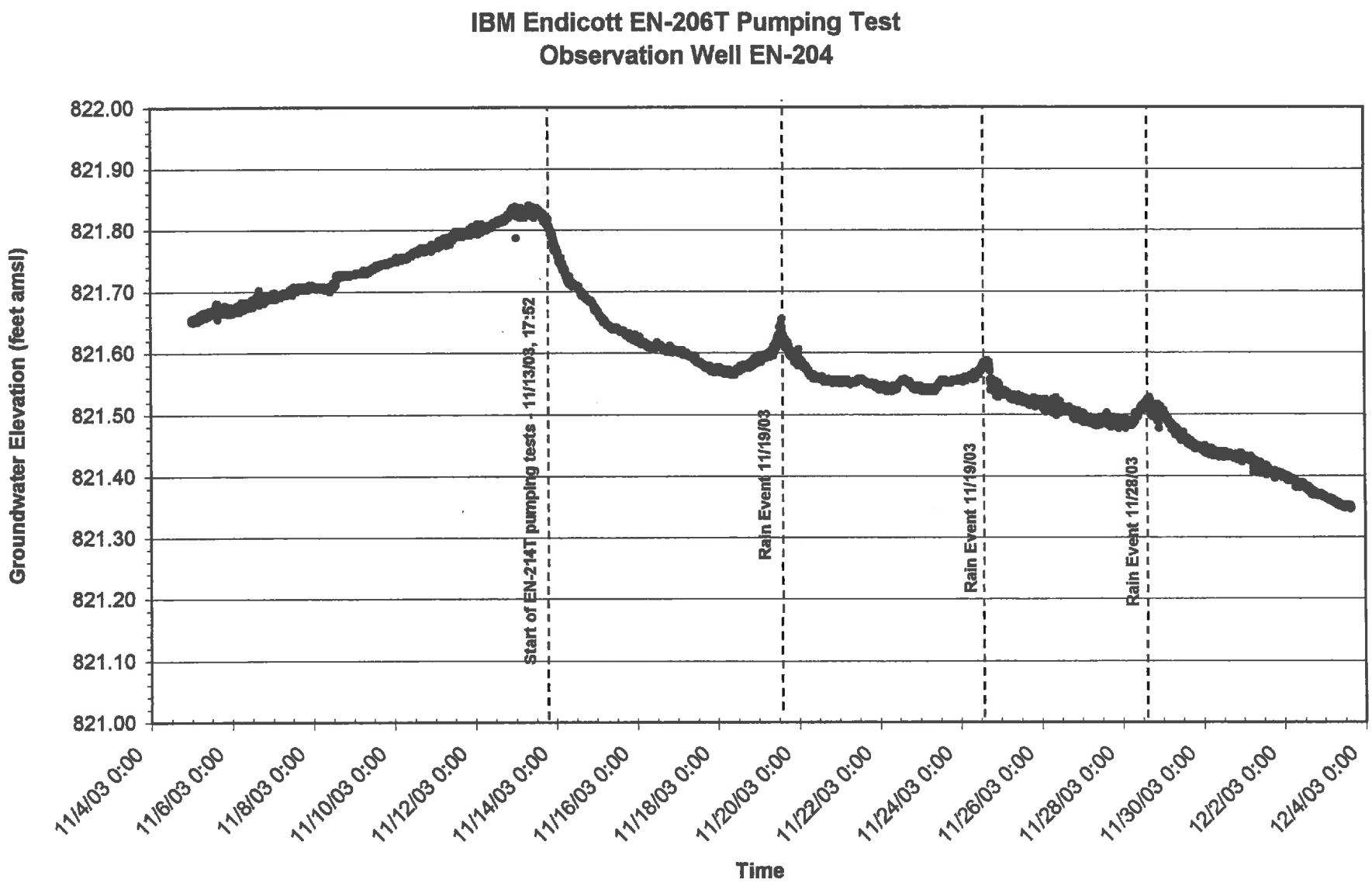

IBM Endicott EN-214T Pumping Test
Observation Well EN-214C
Groundwater Elevation (amsl)
822.5
822
821.5
821
820.5
820
819.5
Start of EN-214T pumping tests,11/13/03 17:42
11/11/03 0:00
11/13/03 0:00
11/15/03 0:00
11/17/03 0:00
11/19/03 0:00
11/21/03 0:00
11/23/03 0:00
11/25/03 0:00
11/27/03 0:00
11/29/03 0:00
Time

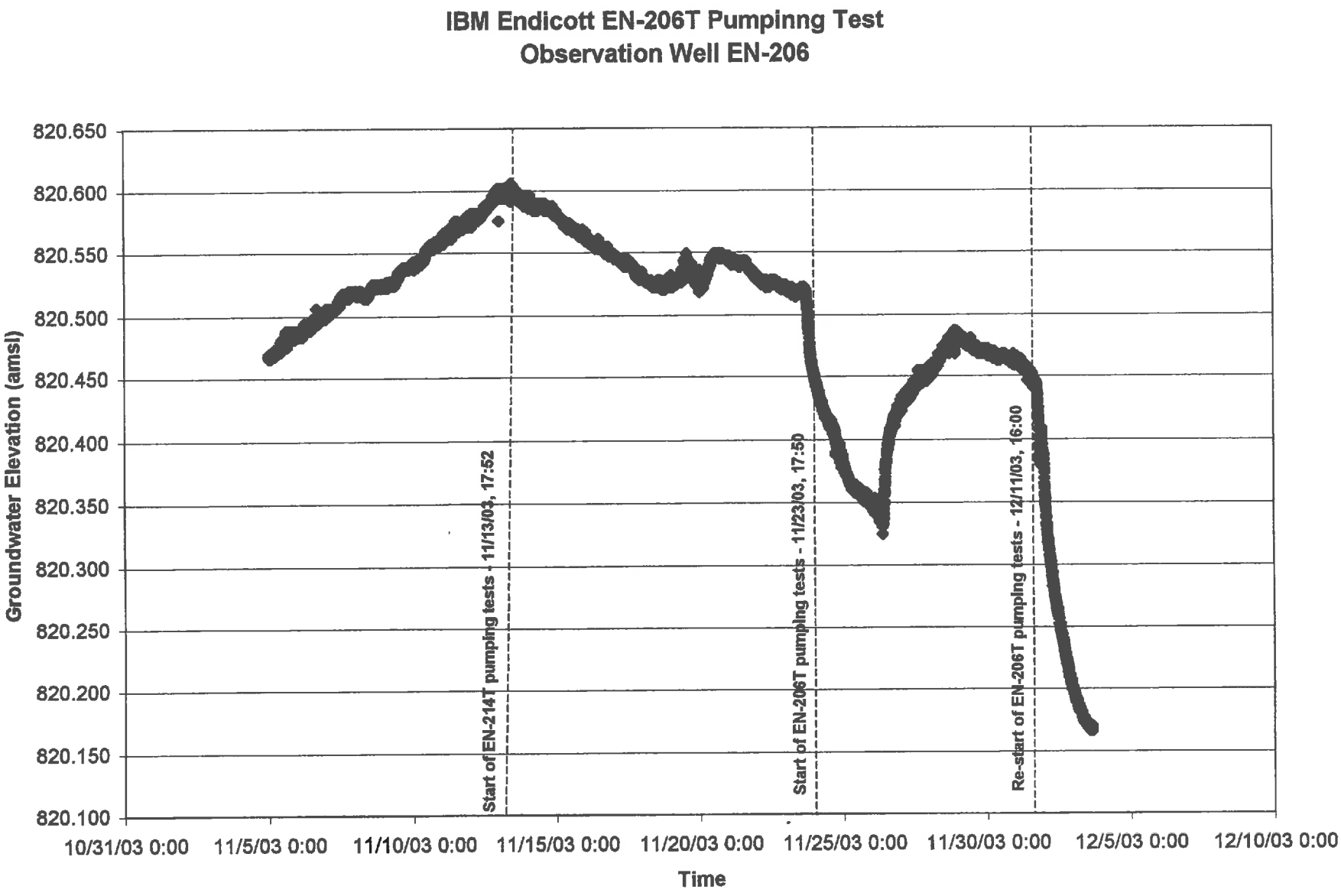

IBM Endicott EN-214T Pumping Test
Observation Well EN-D31
Groundwater Elevation (amsl)
812.5
812
811.5
811
810.5
810
809.5
809
808.5
Start of EN-214T pumping tests, 11/13/03/17:52
11/11/03 0:00
11/13/03 0:00
11/15/03 0:00
11/17/03 0:00
11/19/03 0:00
11/21/03 0:00
11/23/03 0:00
11/25/03 0:00
11/27/03 0:00
11/29/03 0:00
Time


IBM Endicott EN-214T Pumping Test
Obsevation Well EN-161
823.000
822.000
Grroundwater Elevation (amsl)
Start of EN-2114T pumping tests,
1/13/03 17:52
11/4/03
11/5/03
11/6/03
11/7/03
11/8/03
11/9/03
11/10/03
11/11/03
11/12/03
11/13/03
11/14/03
11/15/03
11/16/03
11/17/03
11/18/03
11/19/03
11/20/03
11/21/03
11/22/03
11/23/03
11/24/03
11/25/03
11/26/03
Time

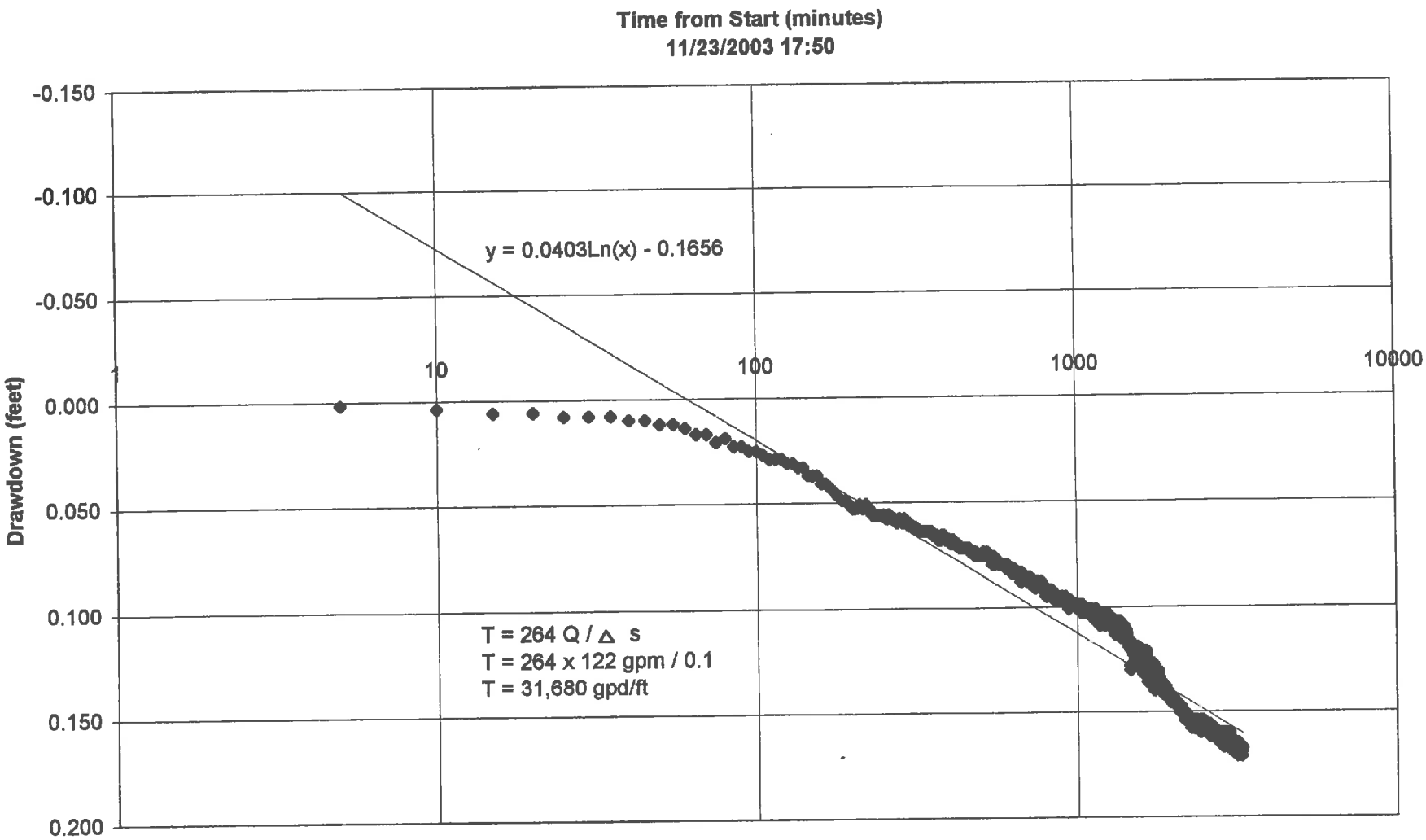
IBM Endicott EN-214T Pumping Test
Observation Well EN-161



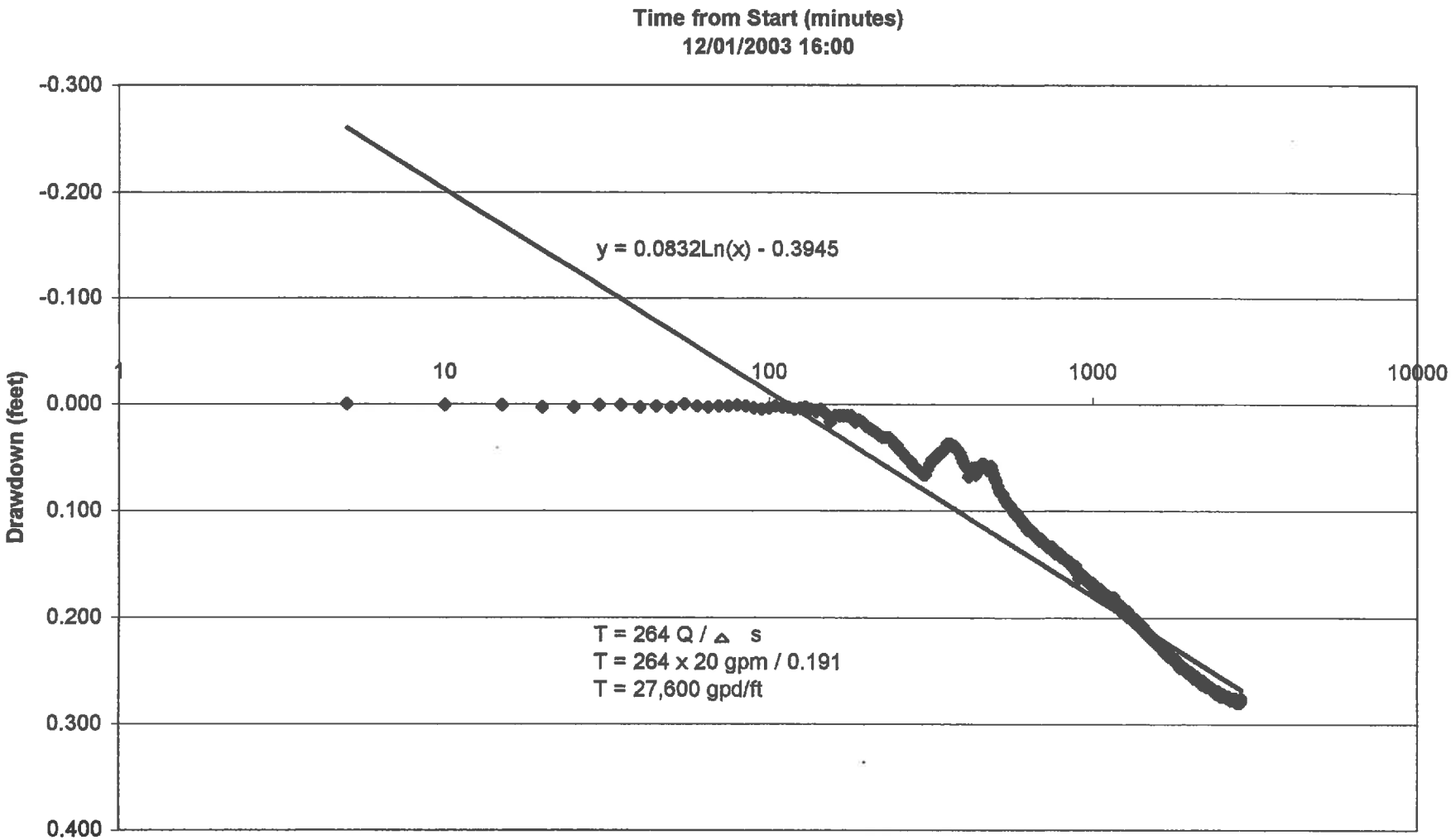

IBM Endicott EN-206T Pumping Test
Observation Well EN-204
Groundwater Elevation (feet amsl)
822.00
821.90
821.80
821.70
821.60
821.50
821.40
821.30
821.20
821.10
821.00
Start of EN-214T pumping tests - 11/13/03, 17:52
Rain Event 11/19/03
Rain Event 11/19/03
Rain Event 11/28/03
11/4/03 0:00
11/6/03 0:00
11/8/03 0:00
11/10/03 0:00
11/12/03 0:00
11/14/03 0:00
11/16/03 0:00
11/18/03 0:00
11/20/03 0:00
11/22/03 0:00
11/24/03 0:00
11/26/03 0:00
11/28/03 0:00
11/30/03 0:00
12/2/03 0:00
12/4/03 0:00
Time

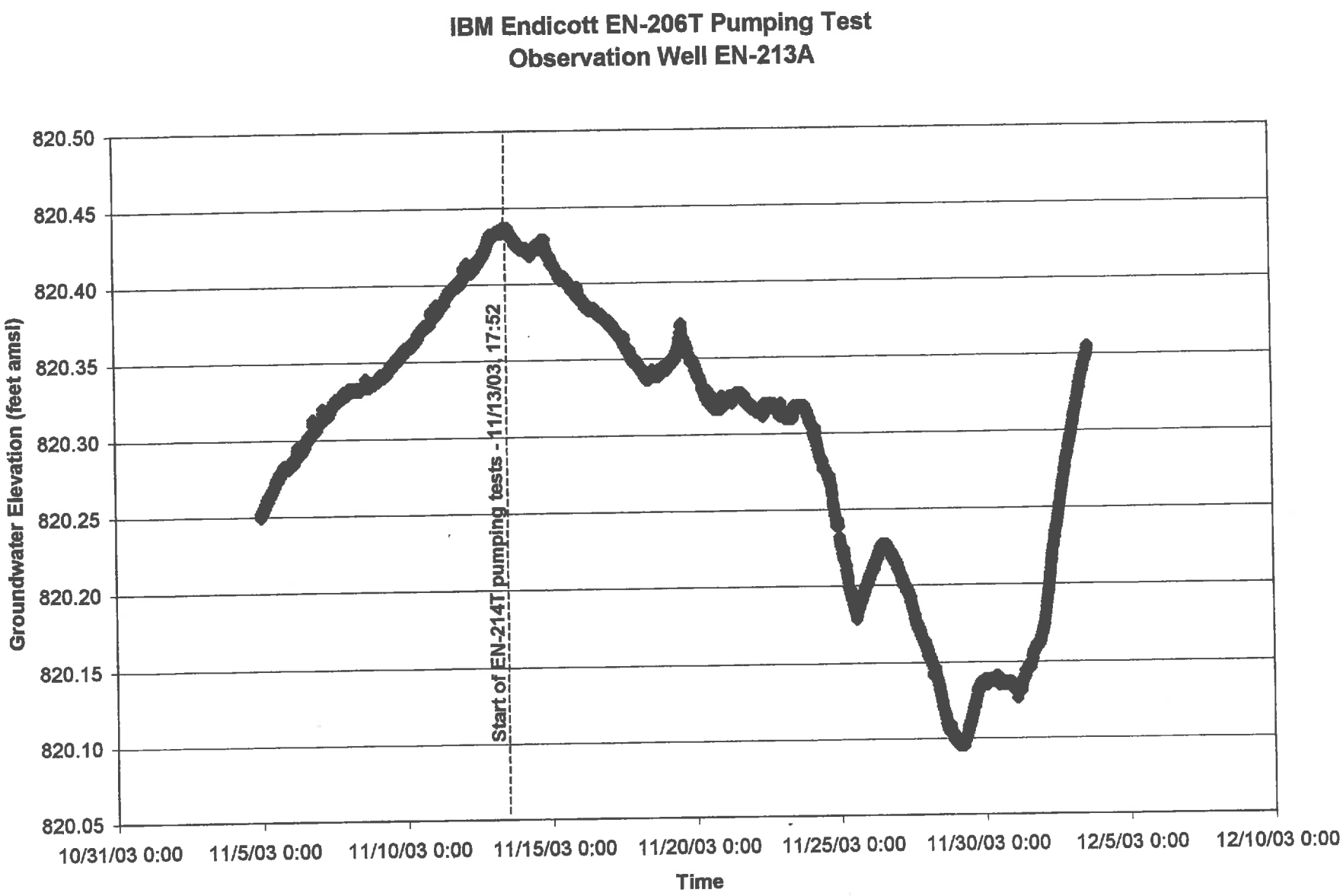

IBM Endicott EN-206T Pumpinng Test
Observation Well EN-206
Groundwater Elevation (amsl)
820.650
820.600
820.550
820.500
820.450
820.400
820.350
820.300
820.250
820.200
820.150
820.100
10/31/03 0:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
12/10/03 0:00
Time
Start of EN-214T pumping tests - 11/13/03, 17:52
Start of EN-206T pumping tests - 11/23/03, 17:50
Re-start of EN-206T pumping tests - 12/11/03, 16:00

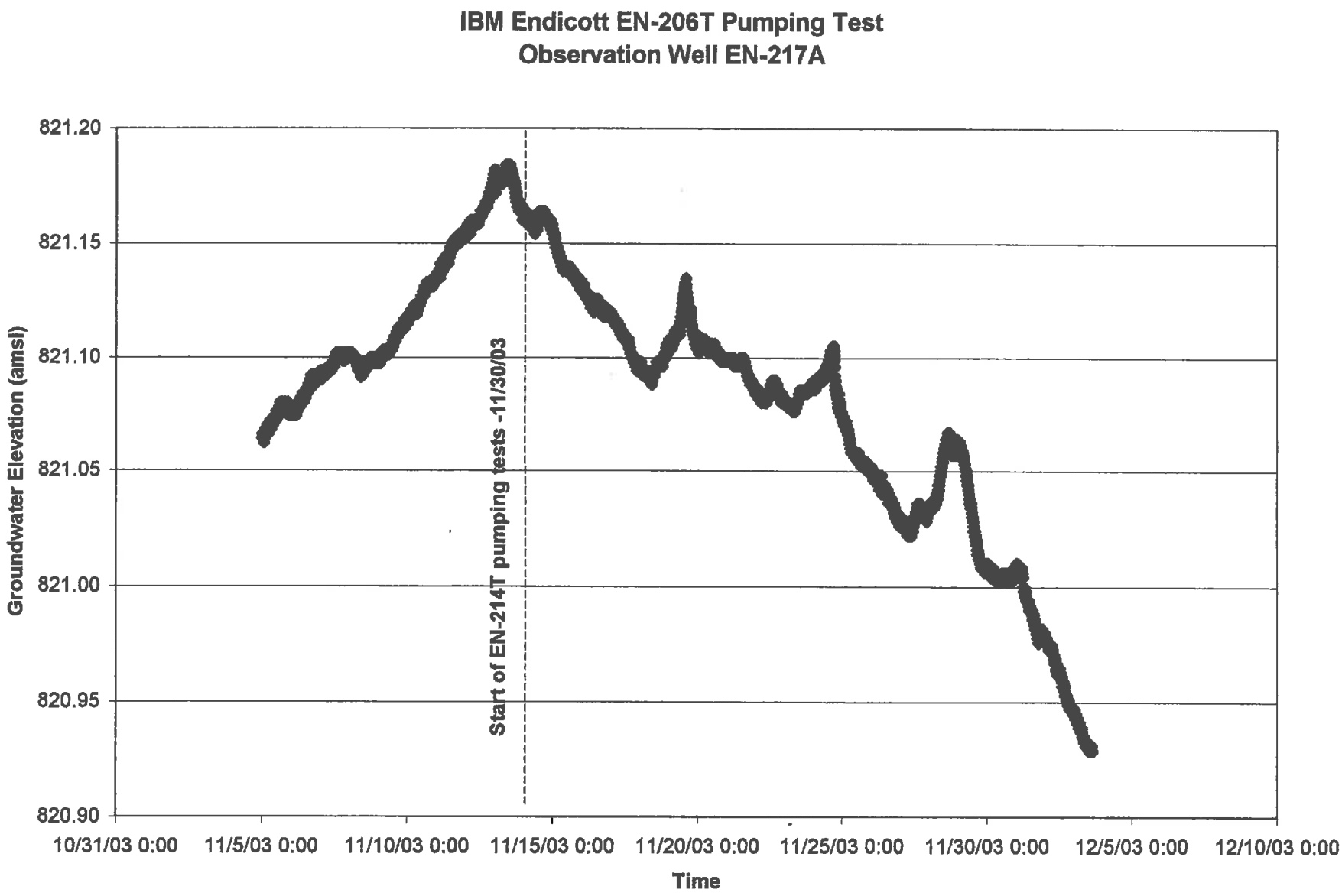
IBM Endicott EN-206T Pumping Test
Observation Well EN-206

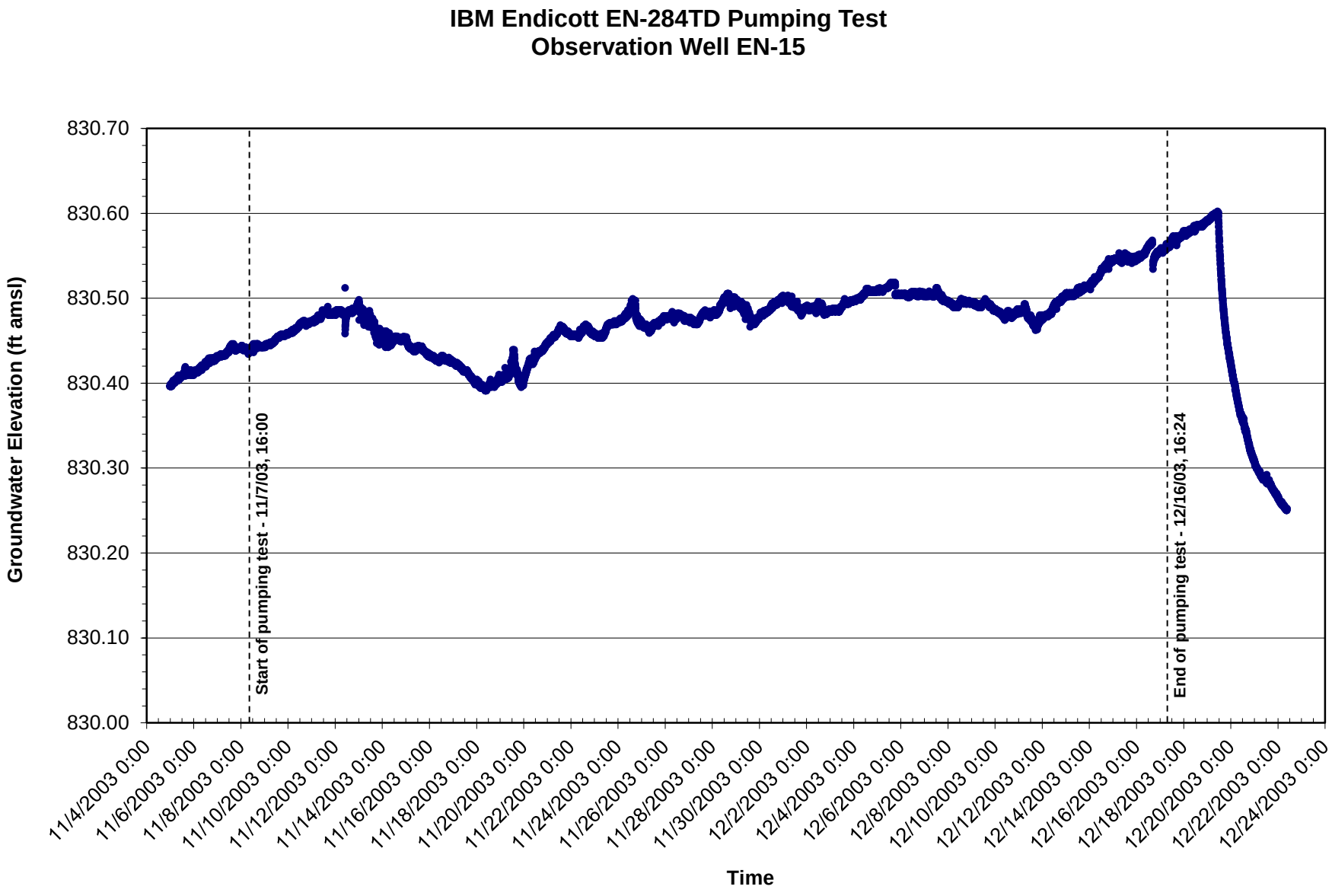


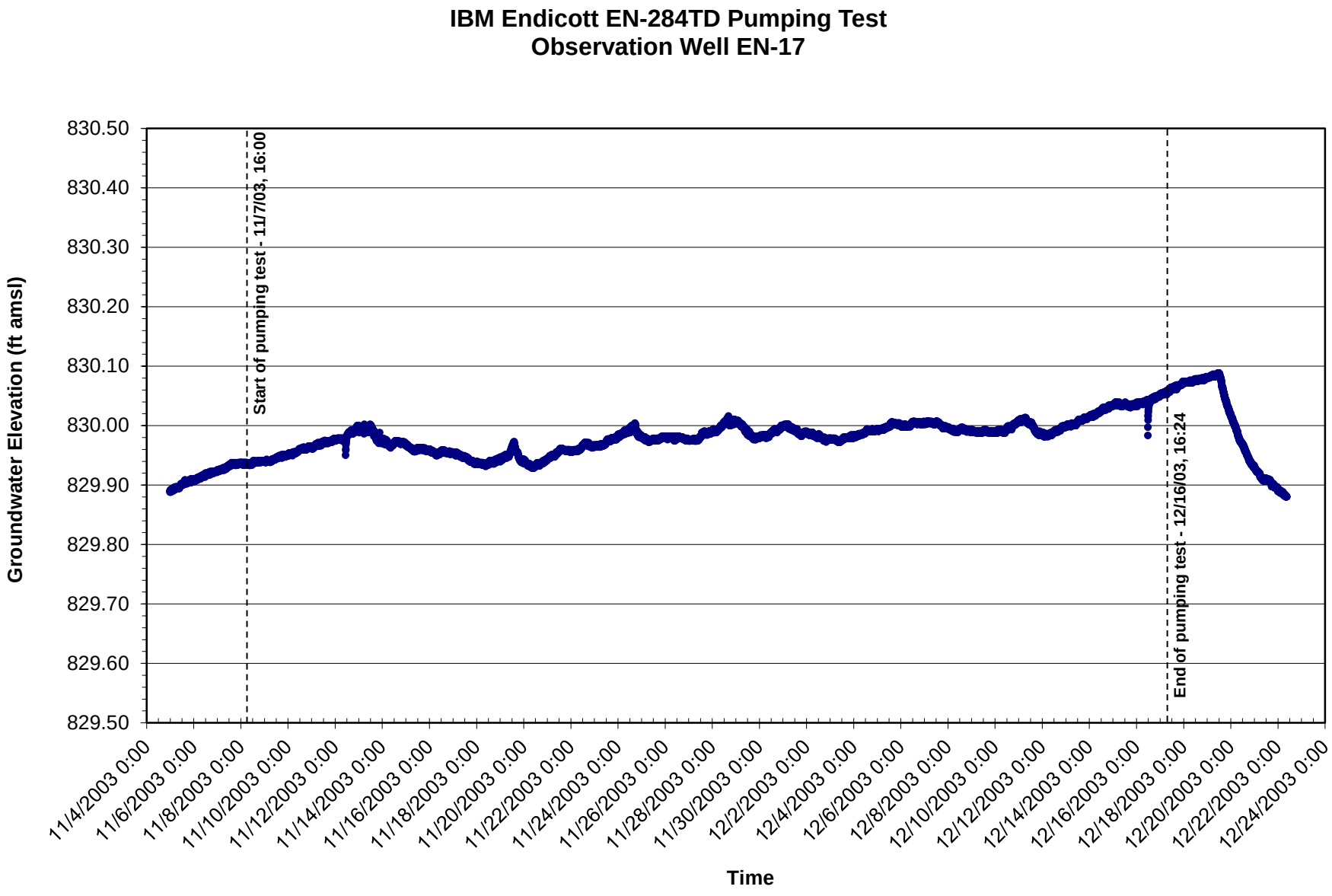
IBM Endicott EN-206T Pumping Test
Observation Well EN-206

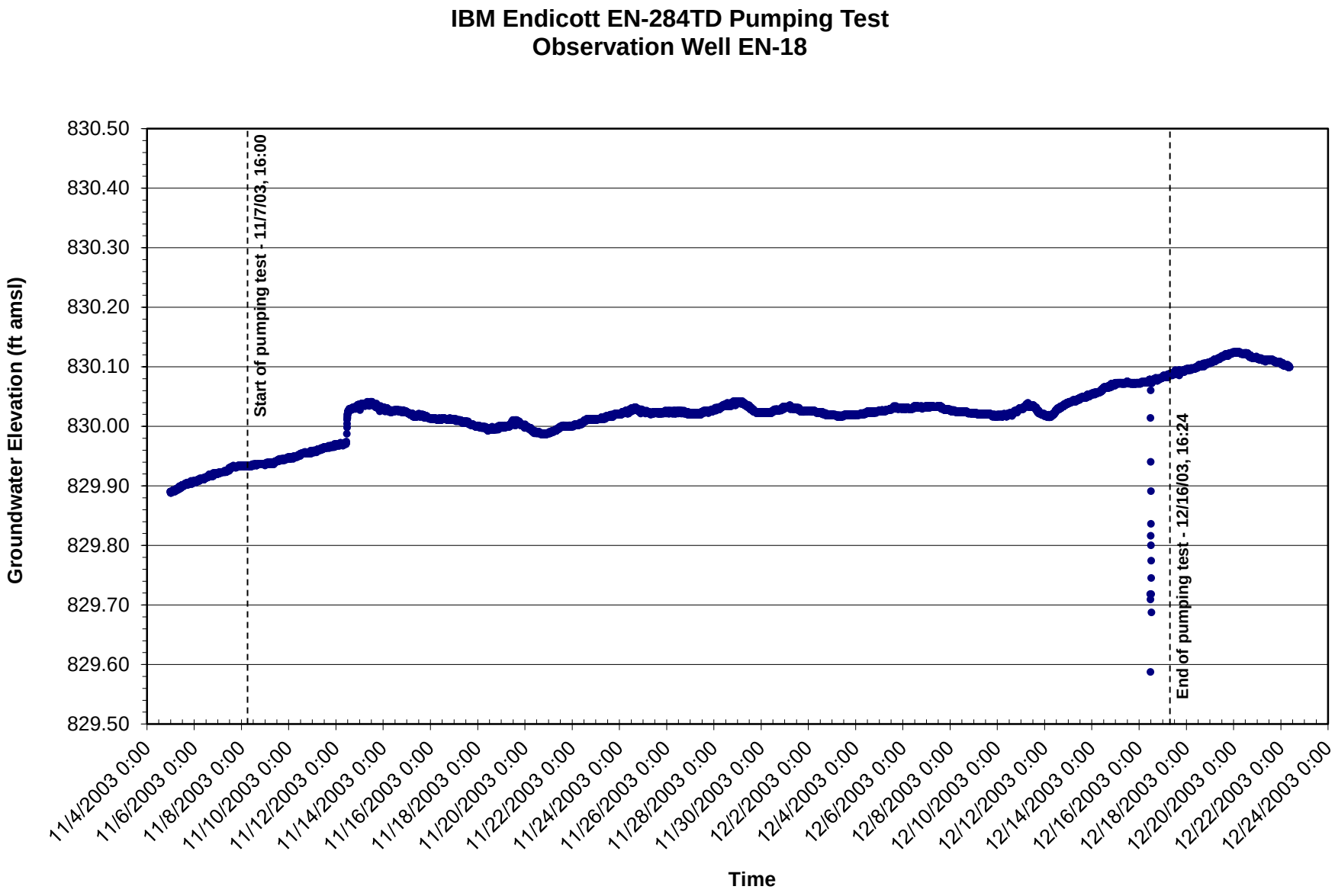


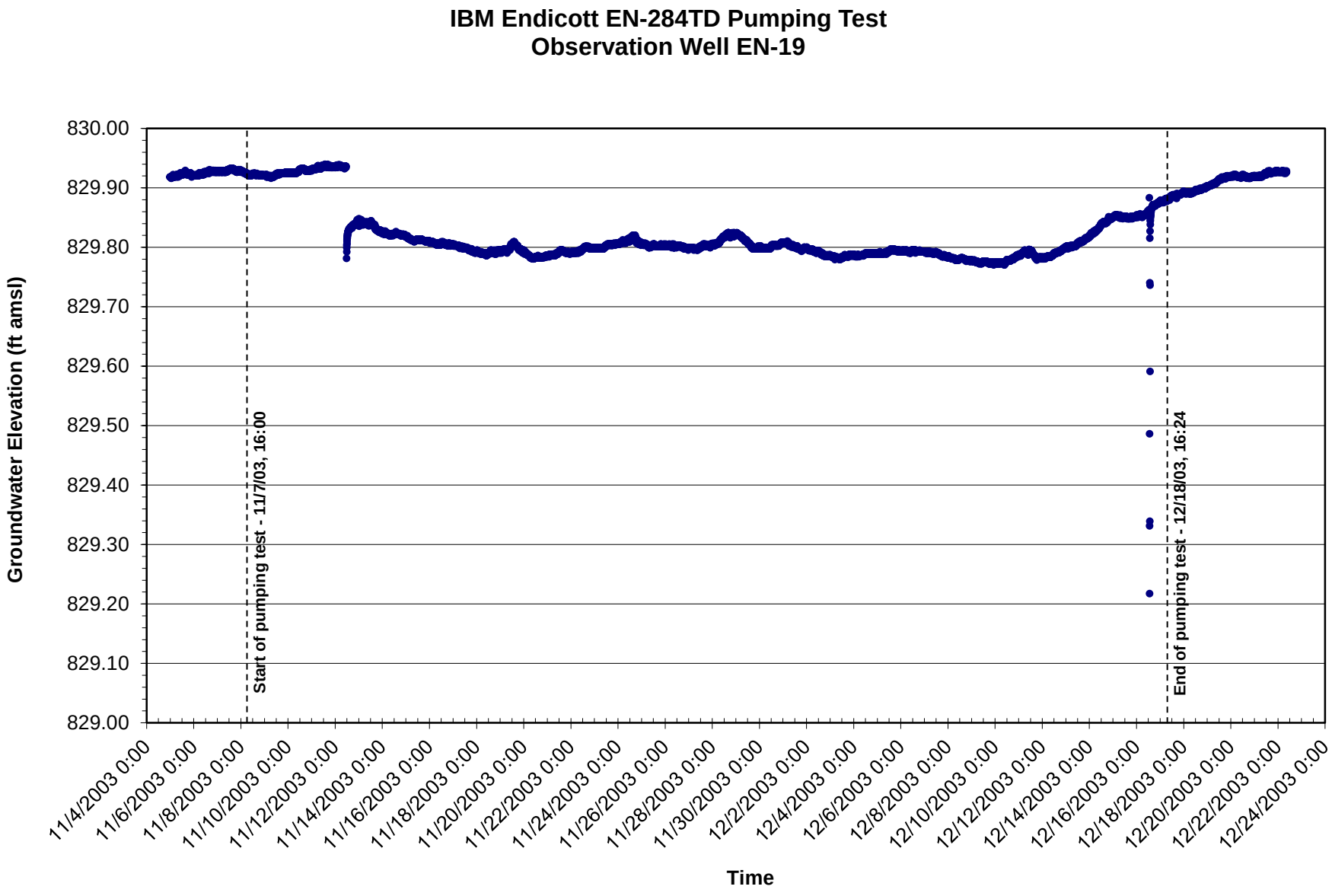

IBM Endicott EN-206T Pumping Test
Observation Well EN-213A
Groundwater Elevation (feet amsl)
820.50
820.45
820.40
820.35
820.30
820.25
820.20
820.15
820.10
820.05
Start of EN-214T pumping tests - 11/13/03 17:52
10/31/03 0:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
12/10/03 0:00
Time

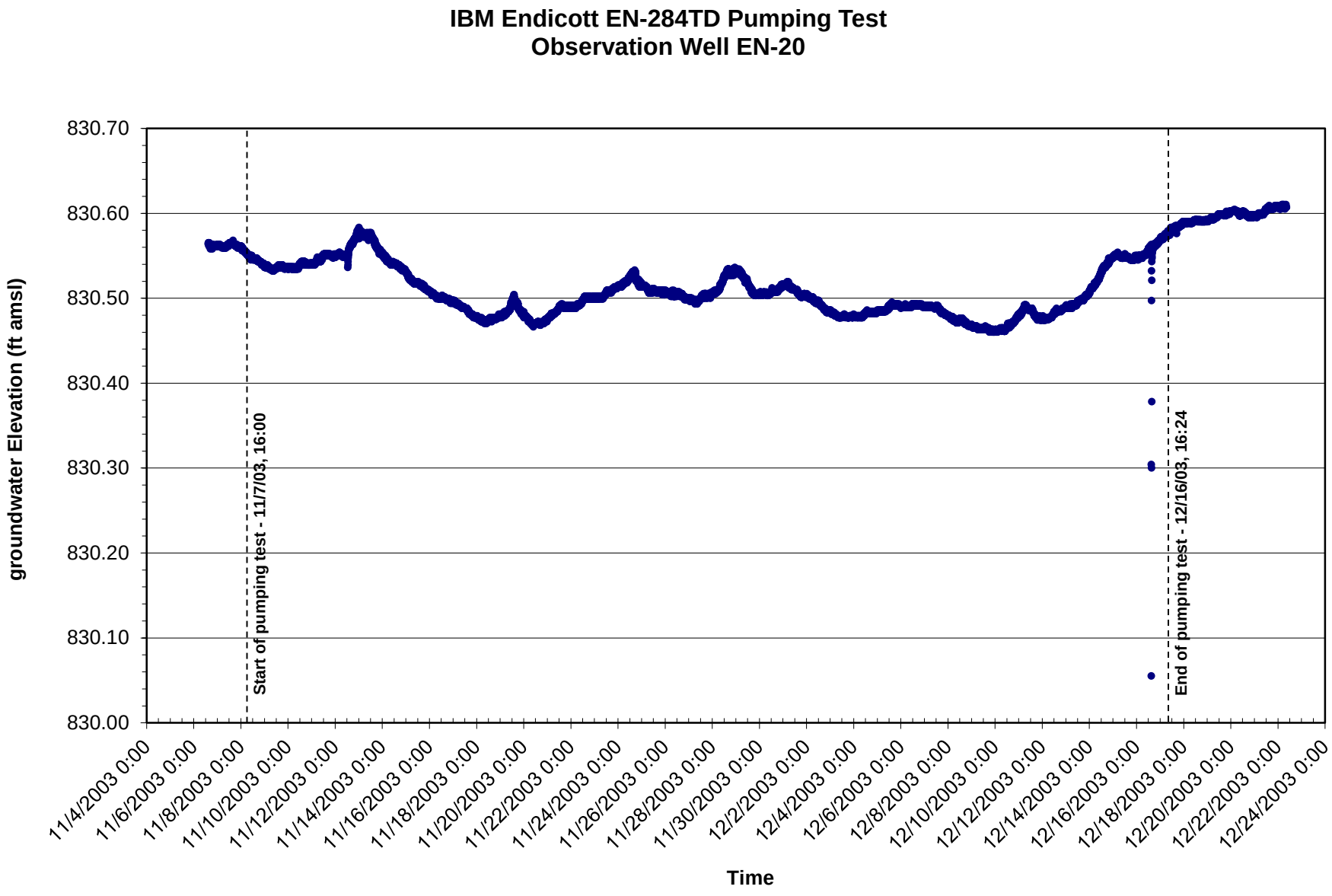

IBM Endicott EN-206T Pumping Test
Observation Well EN-217A
Groundwater Elevation (amsl)
821.20
821.15
821.10
821.05
821.00
820.95
820.90
Start of EN-214T pumping tests -11/30/03
10/31/03 0:00
11/5/03 0:00
11/10/03 0:00
11/15/03 0:00
11/20/03 0:00
11/25/03 0:00
11/30/03 0:00
12/5/03 0:00
12/10/03 0:00
Time

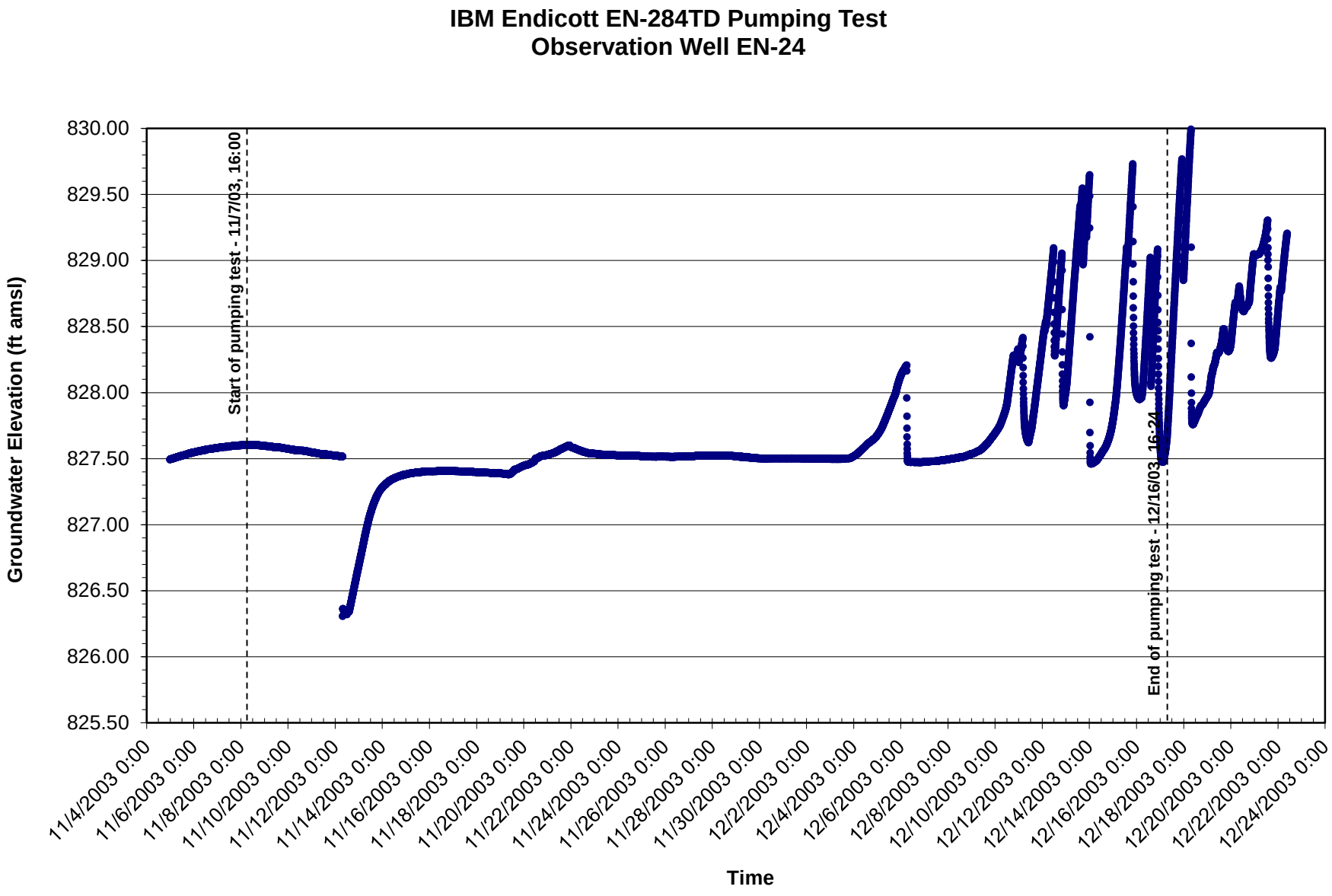

IBM Endicott EN-284TD Pumping Test
Observation Well EN-15
Groundwater Elevation (ft amsl)
830.70
830.60
830.50
830.40
830.30
830.20
830.10
830.00
Start of pumping test - 11/7/03, 16:00
End of pumping test - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

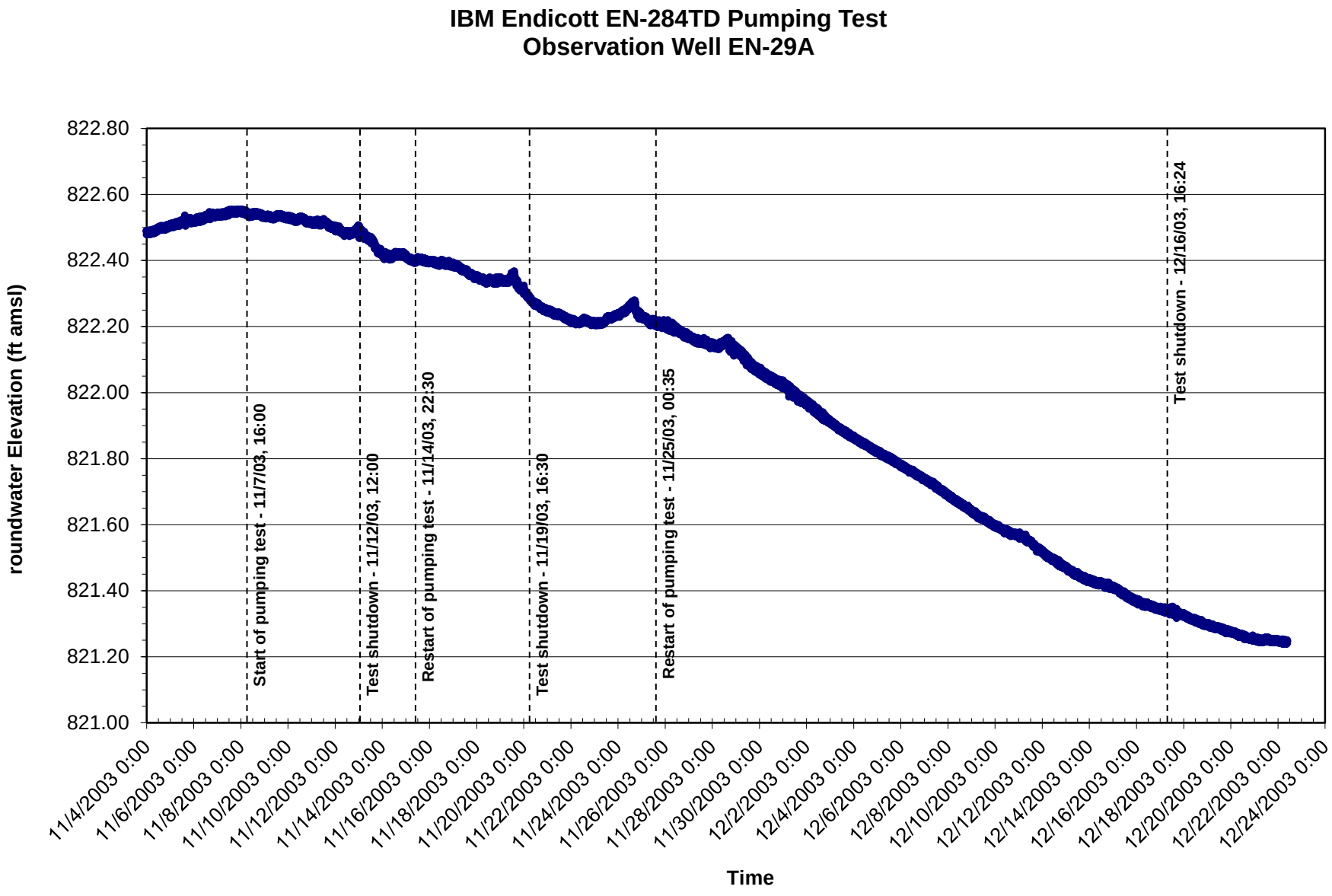

IBM Endicott EN-284TD Pumping Test
Observation Well EN-17
Groundwater Elevation (ft amsl)
830.50
830.40
830.30
830.20
830.10
830.00
829.90
829.80
829.70
829.60
829.50
Start of pumping test - 11/7/03, 16:00
End of pumping test - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

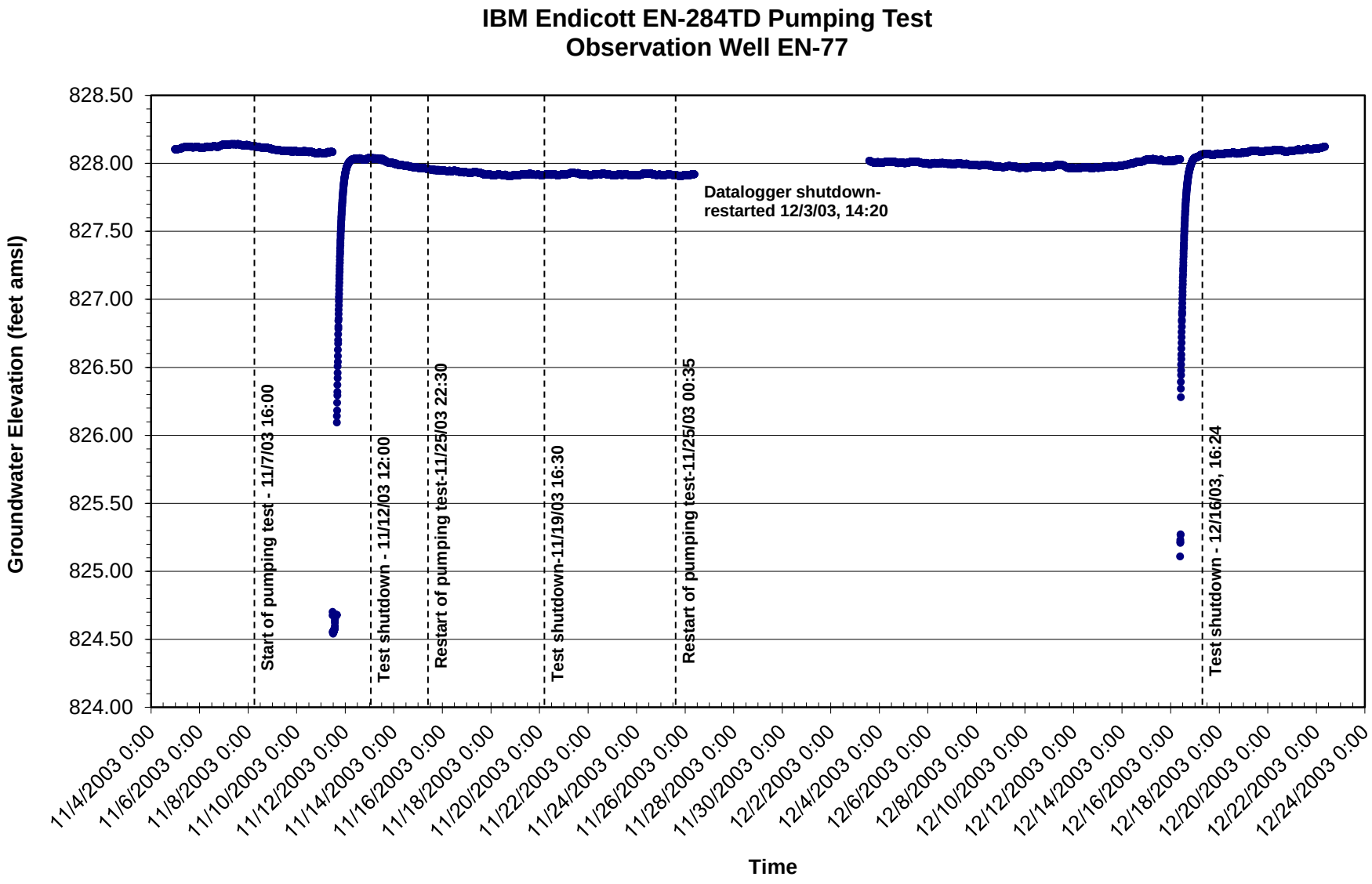

IBM Endicott EN-284TD Pumping Test
Observation Well EN-18
Groundwater Elevation (ft amsl)
830.50
830.40
830.30
830.20
830.10
830.00
829.90
829.80
829.70
829.60
829.50
Start of pumping test - 11/7/03, 16:00
End of pumping test - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

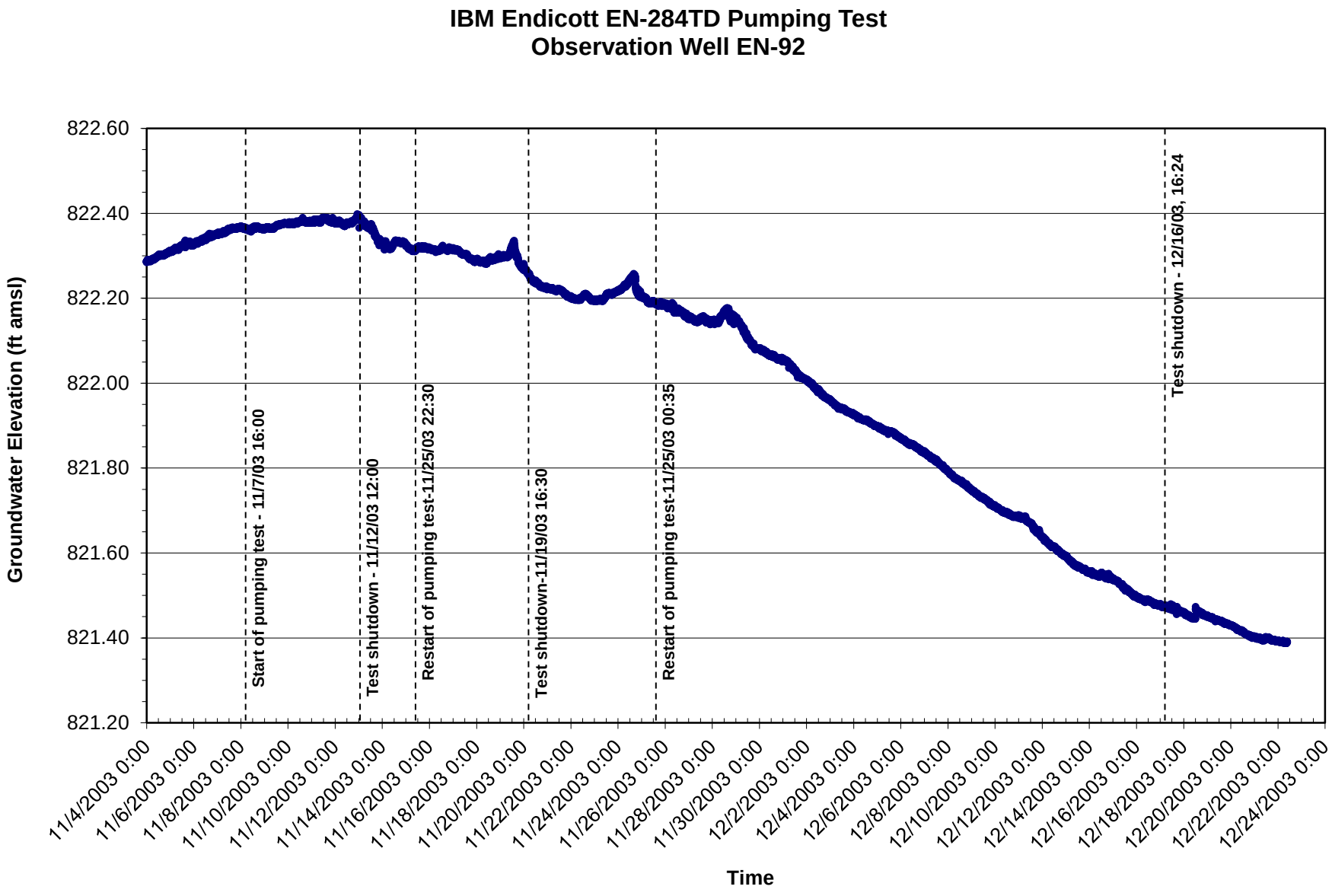

IBM Endicott EN-284TD Pumping Test
Observation Well EN-19
Groundwater Elevation (ft amsl)
830.00
829.90
829.80
829.70
829.60
829.50
829.40
829.30
829.20
829.10
829.00
Start of pumping test - 11/7/03, 16:00
End of pumping test - 12/18/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

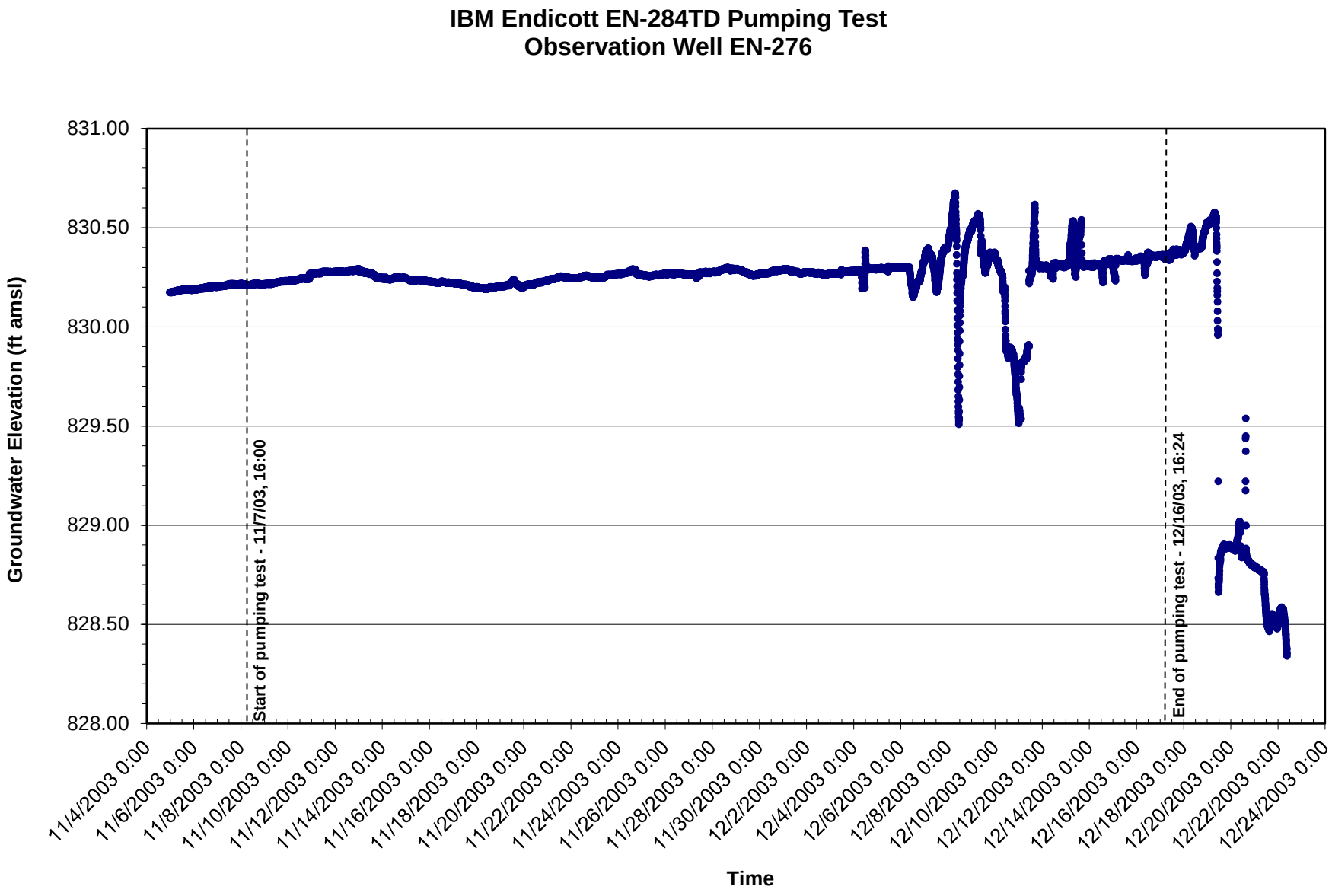

IBM Endicott EN-284TD Pumping Test
Observation Well EN-20
groundwater Elevation (ft amsl)
830.70
830.60
830.50
830.40
830.30
830.20
830.10
830.00
Start of pumping test - 11/7/03, 16:00
End of pumping test - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

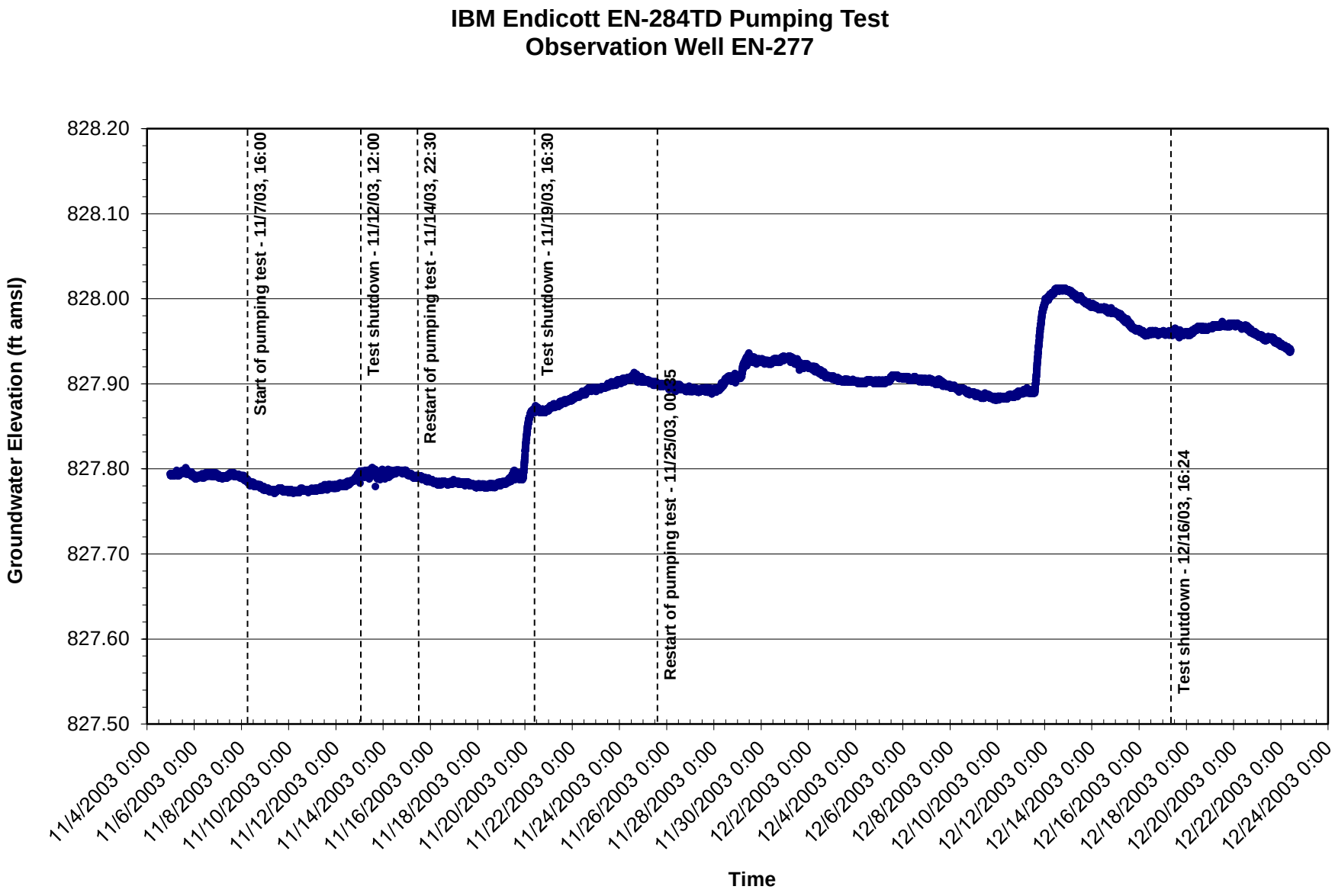

IBM Endicott EN-284TD Pumping Test
Observation Well EN-24
Groundwater Elevation (ft amsl)
830.00
829.50
829.00
828.50
828.00
827.50
827.00
826.50
826.00
825.50
Start of pumping test - 11/7/03, 16:00
End of pumping test - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

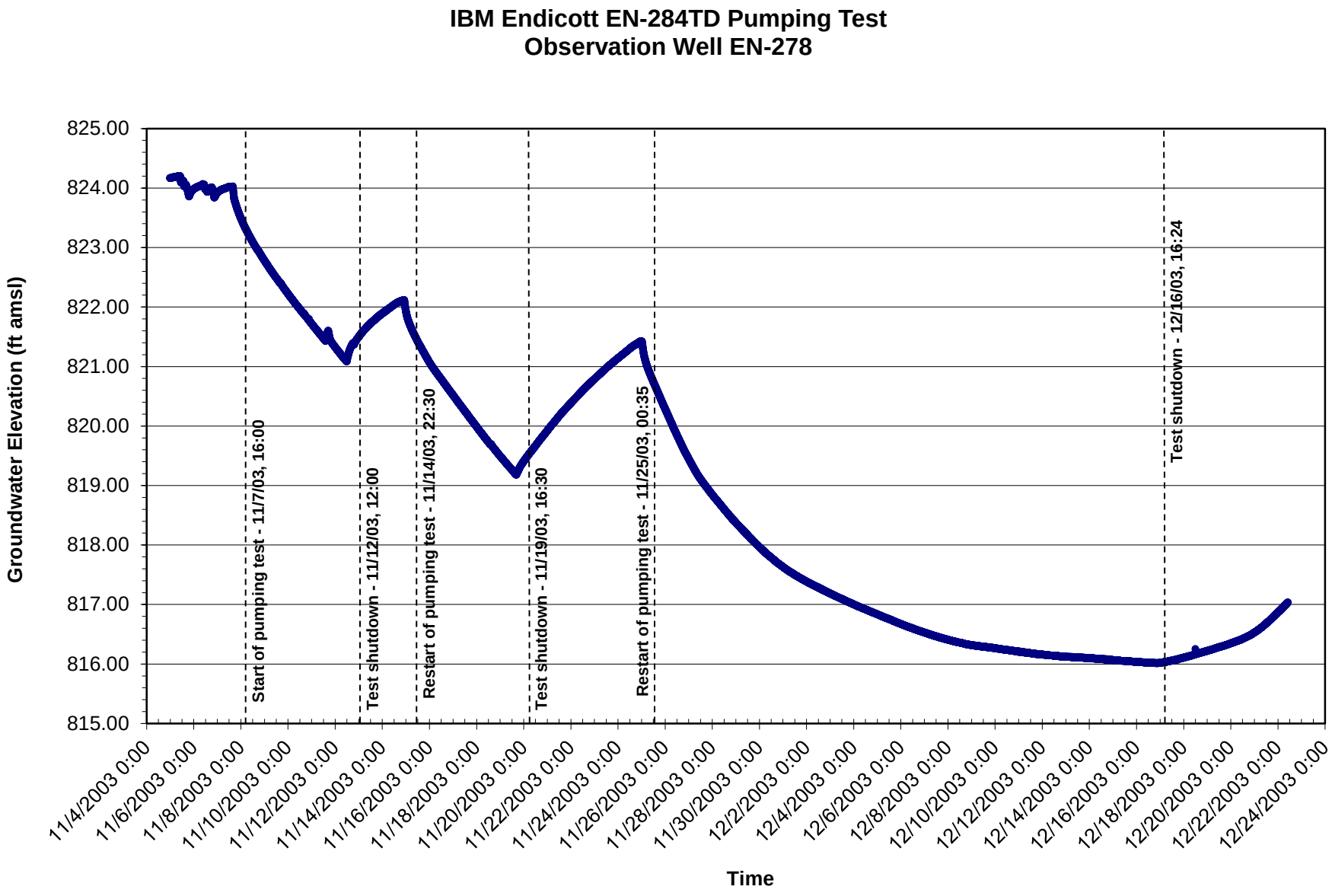

IBM Endicott EN-284TD Pumping Test
Observation Well EN-29A
roundwater Elevation (ft amsl)
822.80
822.60
822.40
822.20
822.00
821.80
821.60
821.40
821.20
821.00
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Test shutdown - 11/19/03, 16:30
Restart of pumping test - 11/25/03, 00:35
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

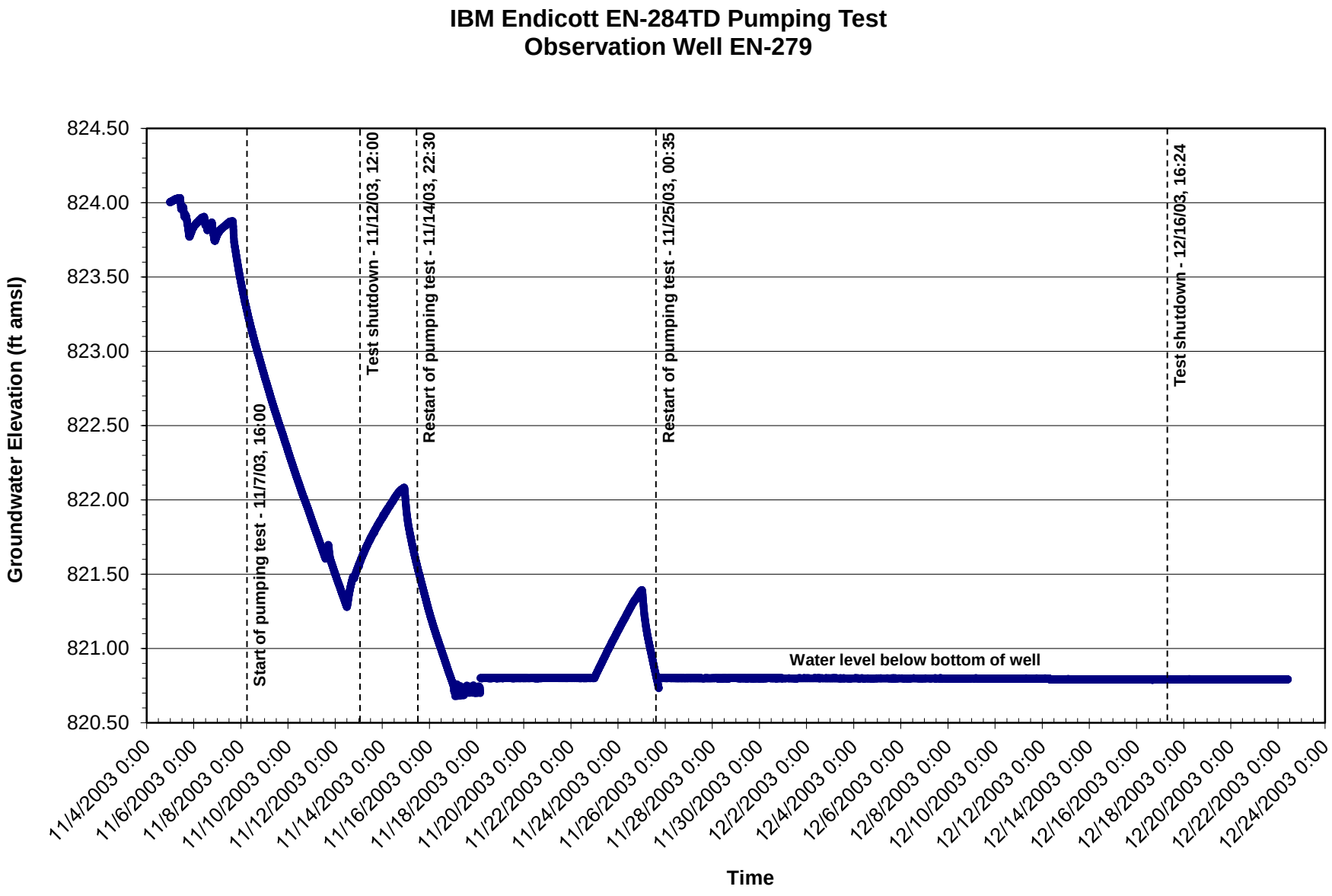

IBM Endicott EN-284TD Pumping Test
Observation Well EN-77
Groundwater Elevation (feet amsl)
828.50
828.00
827.50
827.00
826.50
826.00
825.50
825.00
824.50
824.00
Start of pumping test - 11/7/03 16:00
Test shutdown - 11/12/03 12:00
Restart of pumping test-11/25/03 22:30
Test shutdown-11/19/03 16:30
Restart of pumping test-11/25/03 00:35
Datalogger shutdown-
restarted 12/3/03, 14:20
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

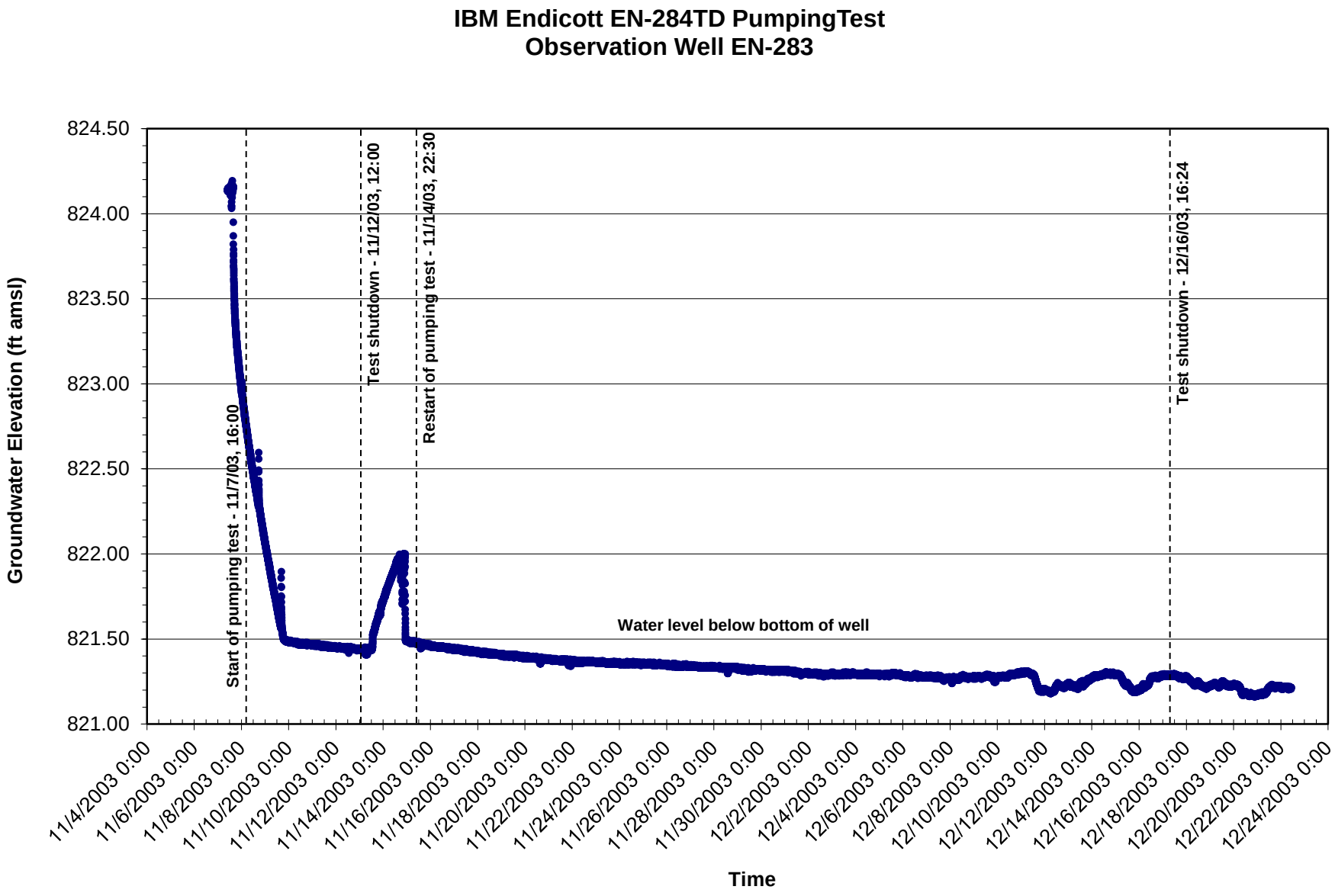

IBM Endicott EN-284TD Pumping Test
Observation Well EN-92
Groundwater Elevation (ft amsl)
822.60
822.40
822.20
822.00
821.80
821.60
821.40
821.20
Start of pumping test - 11/7/03 16:00
Test shutdown - 11/12/03 12:00
Restart of pumping test-11/25/03 22:30
Test shutdown-11/19/03 16:30
Restart of pumping test-11/25/03 00:35
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

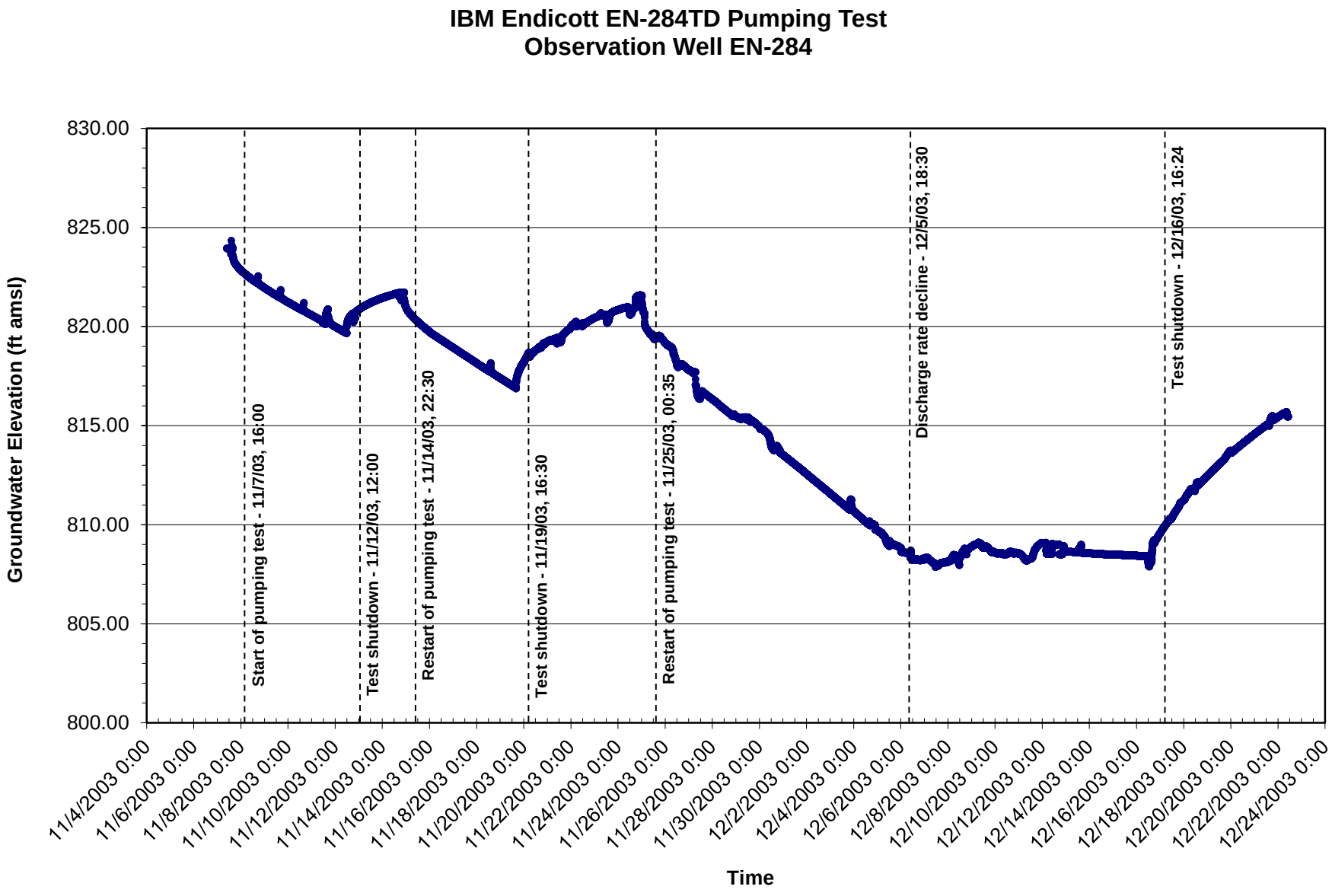

IBM Endicott EN-284TD Pumping Test
Observation Well EN-276
Groundwater Elevation (ft amsl)
831.00
830.50
830.00
829.50
829.00
828.50
828.00
Start of pumping test - 11/7/03, 16:00
End of pumping test - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

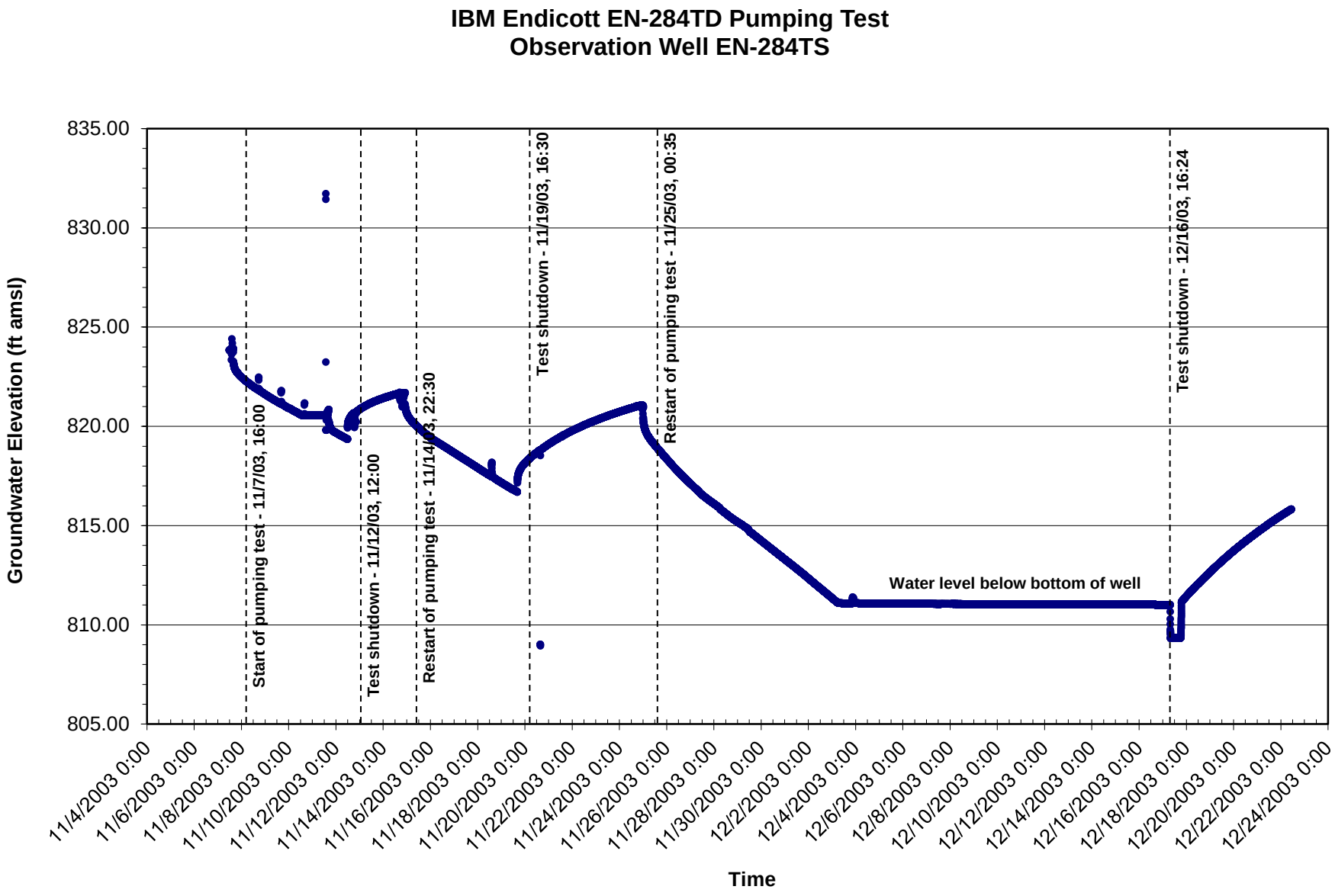

IBM Endicott EN-284TD Pumping Test
Observation Well EN-277
Groundwater Elevation (ft amsl)
828.20
828.10
828.00
827.90
827.80
827.70
827.60
827.50
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Test shutdown - 11/19/03, 16:30
Restart of pumping test - 11/25/03, 00:35
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

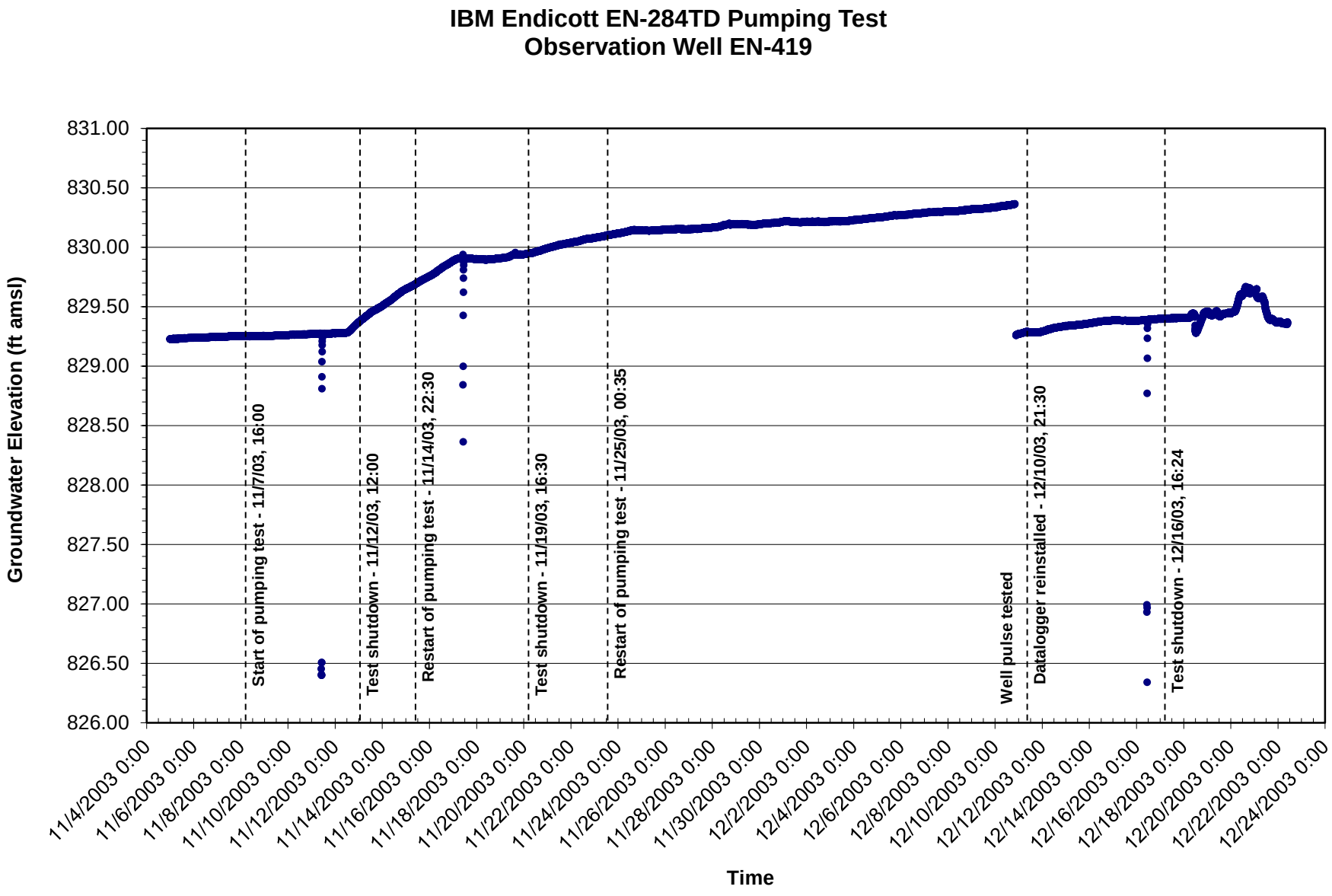

IBM Endicott EN-284TD Pumping Test
Observation Well EN-278
Groundwater Elevation (ft amsl)
825.00
824.00
823.00
822.00
821.00
820.00
819.00
818.00
817.00
816.00
815.00
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Test shutdown - 11/19/03, 16:30
Restart of pumping test - 11/25/03, 00:35
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

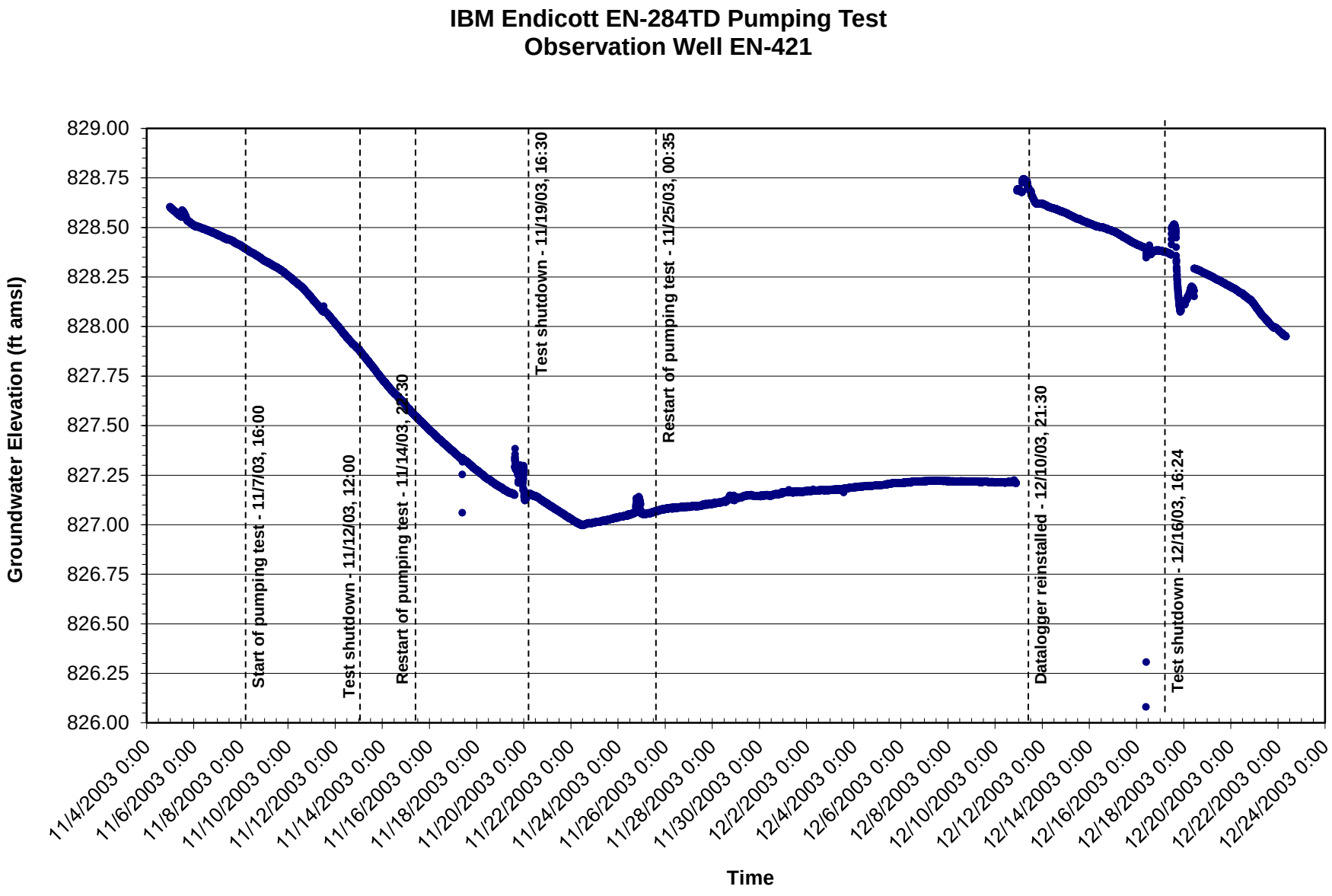

IBM Endicott EN-284TD Pumping Test
Observation Well EN-279
Groundwater Elevation (ft amsl)
824.50
824.00
823.50
823.00
822.50
822.00
821.50
821.00
820.50
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Restart of pumping test - 11/25/03, 00:35
Test shutdown - 12/16/03, 16:24
Water level below bottom of well
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

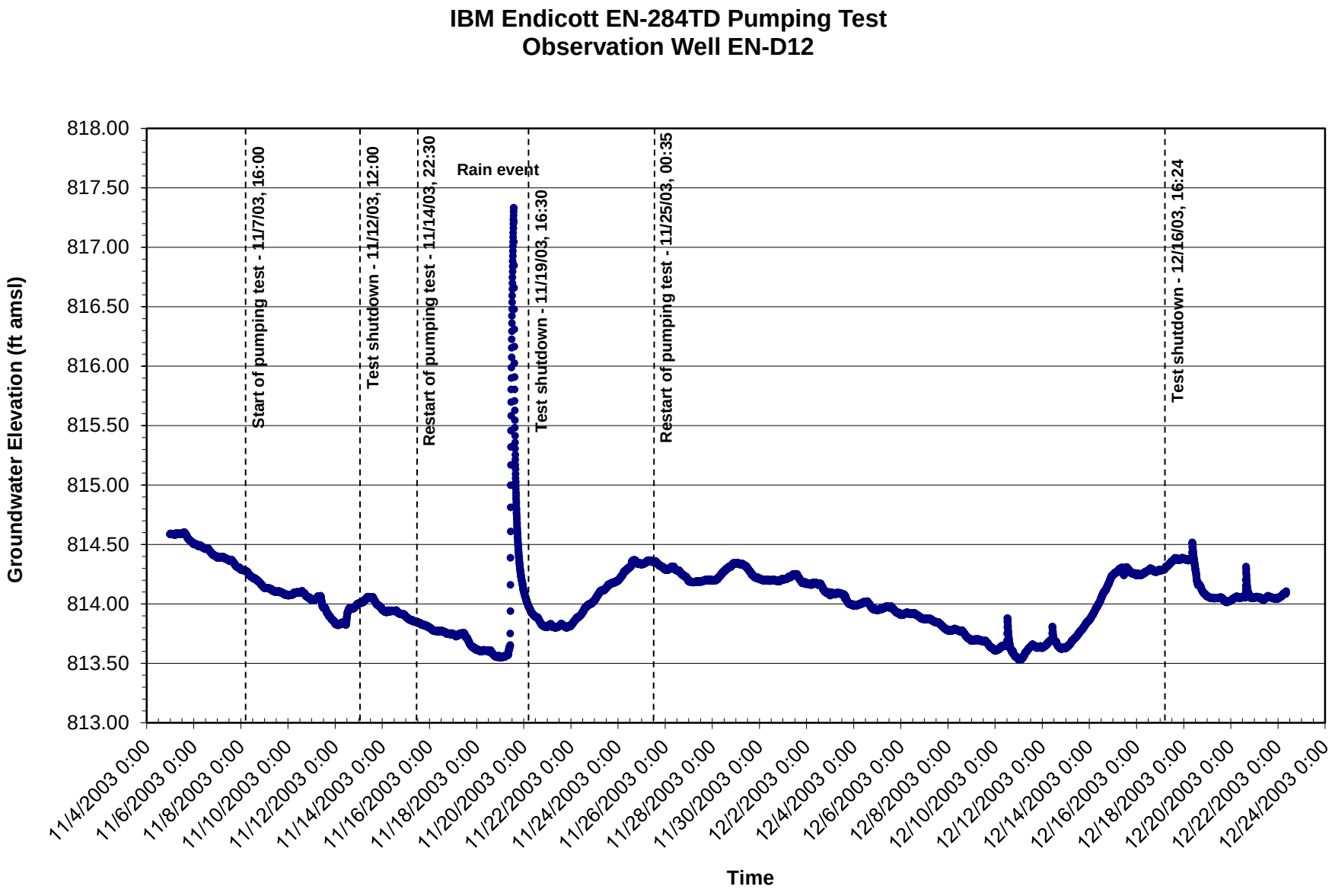

IBM Endicott EN-284TD PumpingTest
Observation Well EN-283
Groundwater Elevation (ft amsl)
824.50
824.00
823.50
823.00
822.50
822.00
821.50
821.00
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Test shutdown - 12/16/03, 16:24
Water level below bottom of well
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

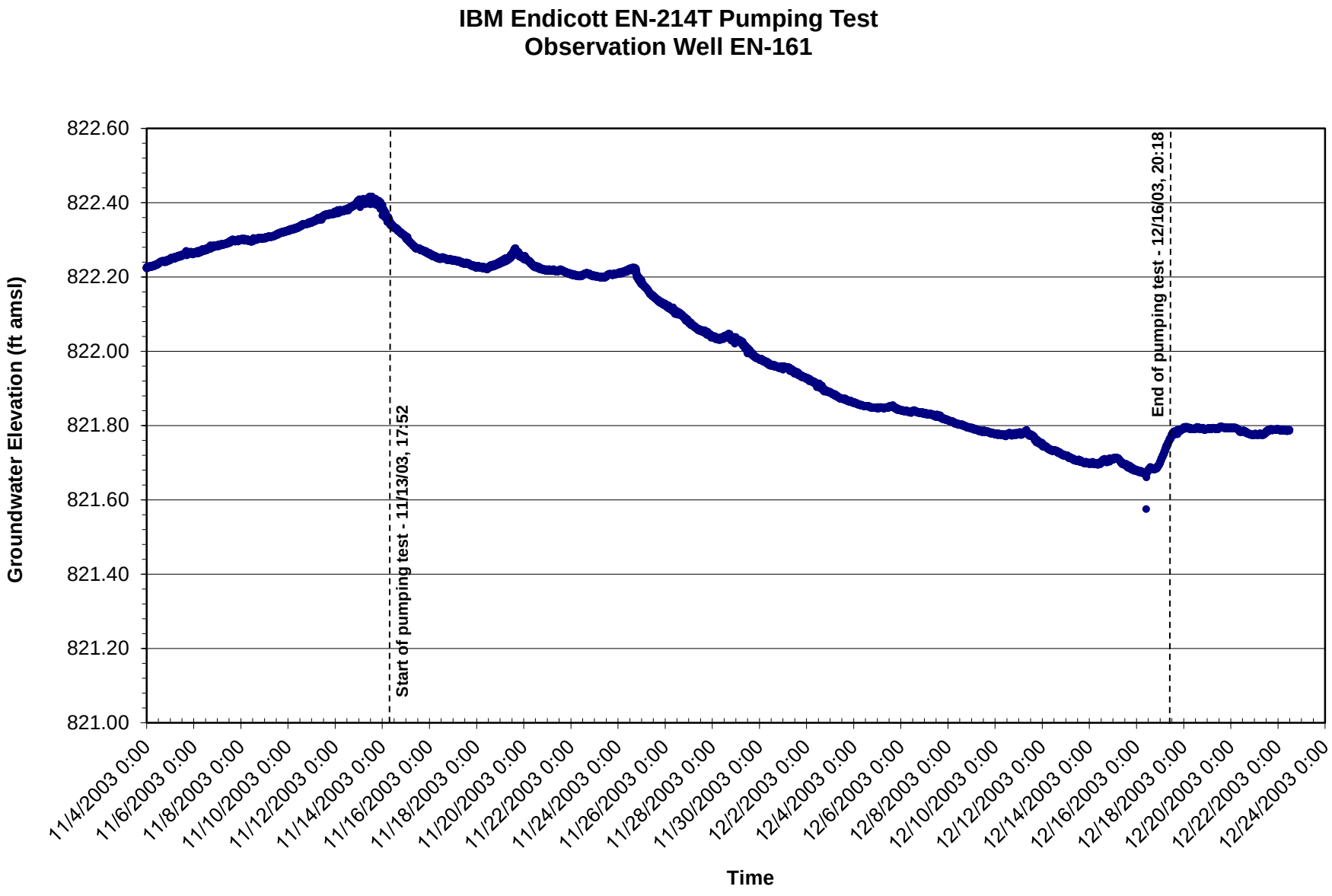

IBM Endicott EN-284TD Pumping Test
Observation Well EN-284
Groundwater Elevation (ft amsl)
830.00
825.00
820.00
815.00
810.00
805.00
800.00
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Test shutdown - 11/19/03, 16:30
Restart of pumping test - 11/25/03, 00:35
Discharge rate decline - 12/5/03, 18:30
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

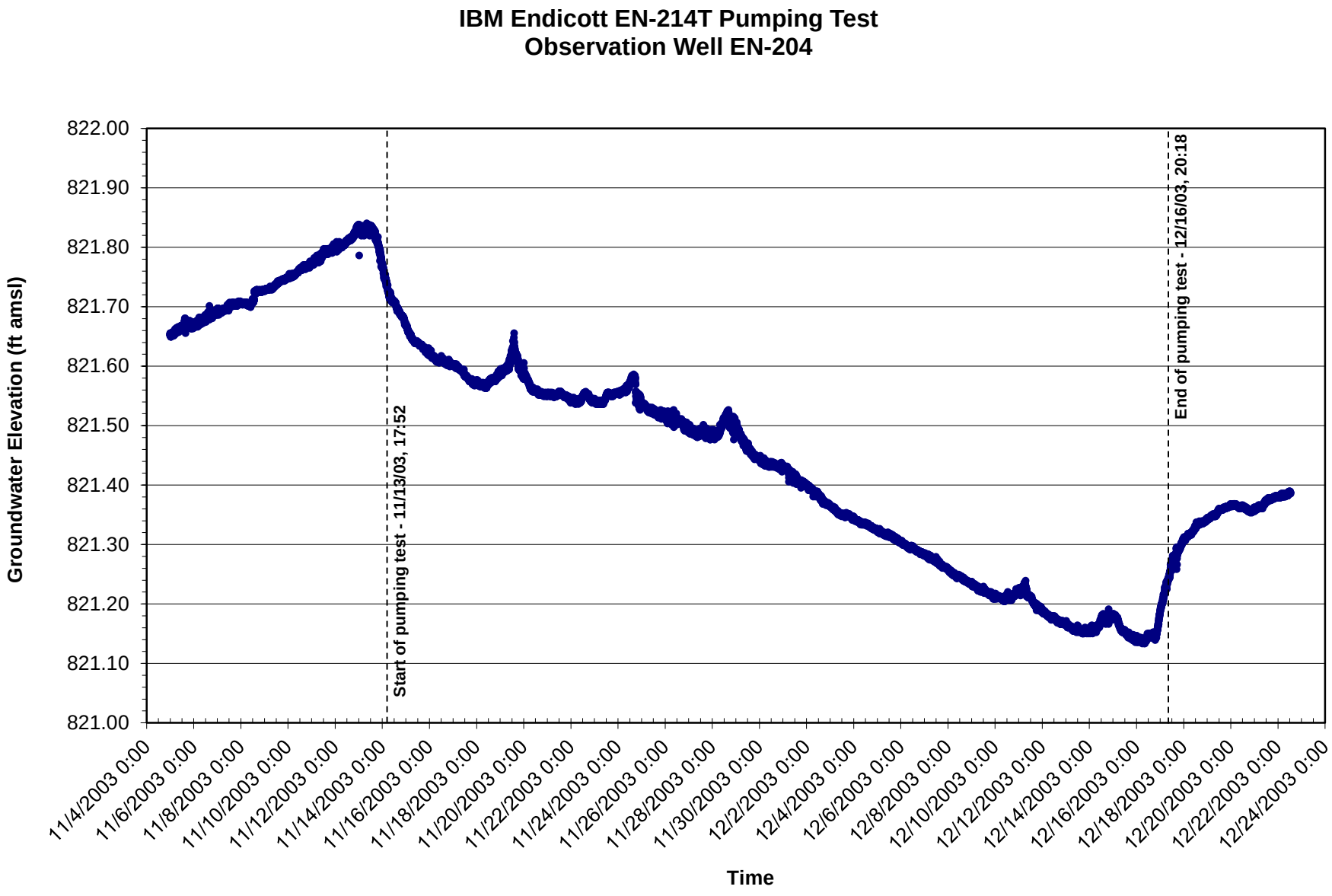

IBM Endicott EN-284TD Pumping Test
Observation Well EN-284TS
Groundwater Elevation (ft amsl)
835.00
830.00
825.00
820.00
815.00
810.00
805.00
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Test shutdown - 11/19/03, 16:30
Restart of pumping test - 11/25/03, 00:35
Test shutdown - 12/16/03, 16:24
Water level below bottom of well
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

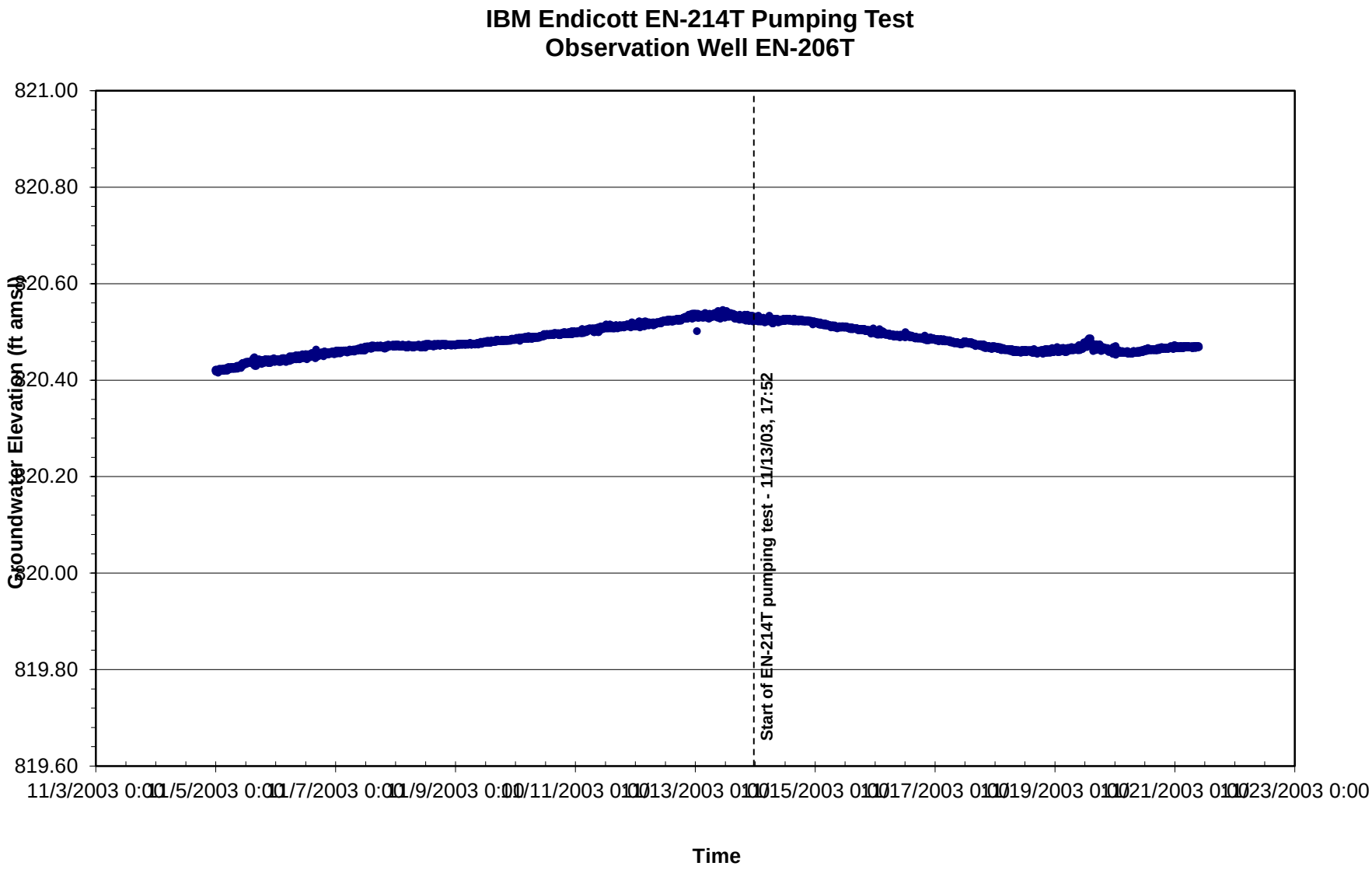

IBM Endicott EN-284TD Pumping Test
Observation Well EN-419
Groundwater Elevation (ft amsl)
831.00
830.50
830.00
829.50
829.00
828.50
828.00
827.50
827.00
826.50
826.00
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Test shutdown - 11/19/03, 16:30
Restart of pumping test - 11/25/03, 00:35
Well pulse tested
Datalogger reinstalled - 12/10/03, 21:30
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

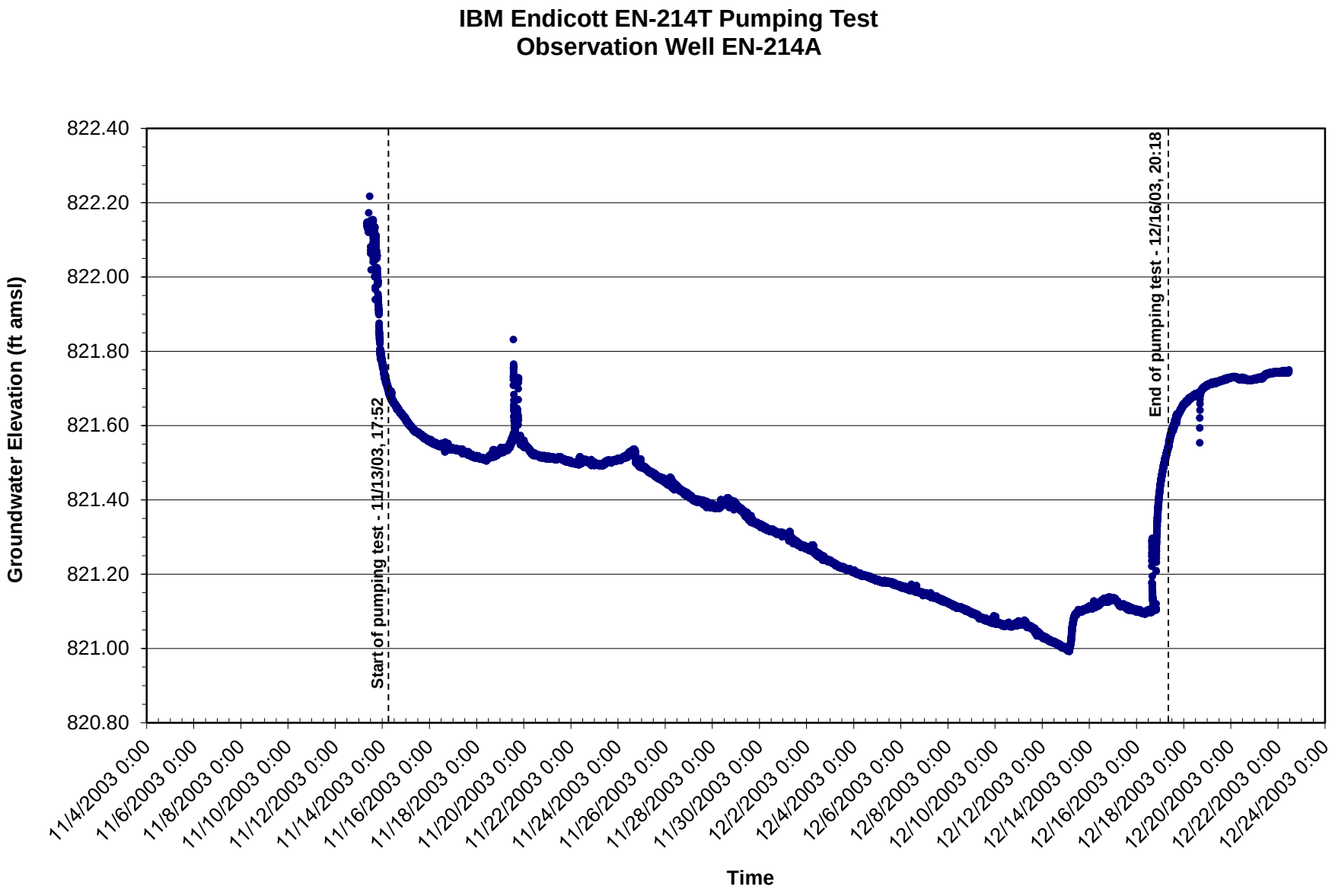

IBM Endicott EN-284TD Pumping Test
Observation Well EN-421
Groundwater Elevation (ft amsl)
829.00
828.75
828.50
828.25
828.00
827.75
827.50
827.25
827.00
826.75
826.50
826.25
826.00
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Test shutdown - 11/19/03, 16:30
Restart of pumping test - 11/25/03, 00:35
Datalogger reinstalled - 12/10/03, 21:30
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

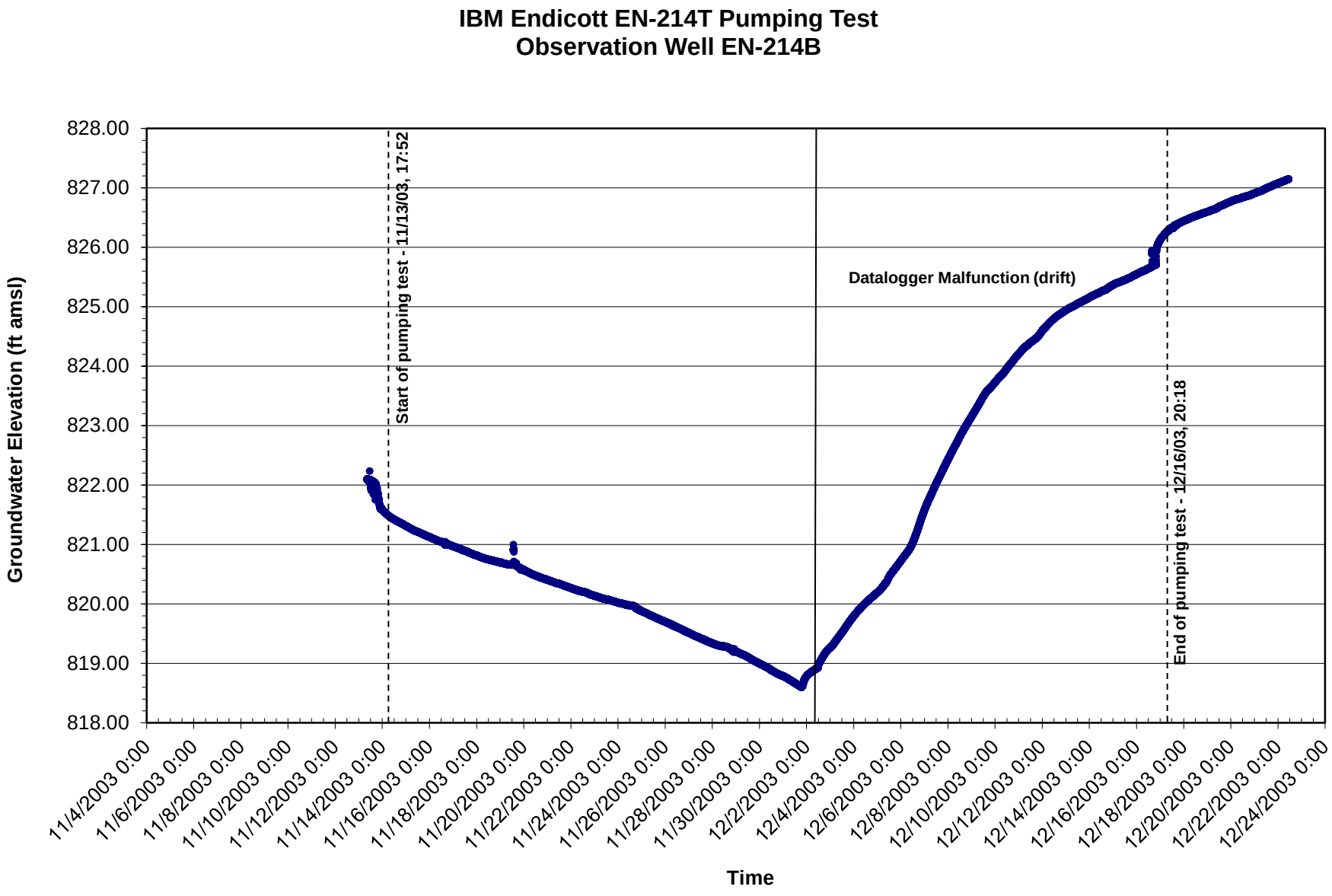

IBM Endicott EN-284TD Pumping Test
Observation Well EN-D12
Groundwater Elevation (ft amsl)
818.00
817.50
817.00
816.50
816.00
815.50
815.00
814.50
814.00
813.50
813.00
Start of pumping test - 11/7/03, 16:00
Test shutdown - 11/12/03, 12:00
Restart of pumping test - 11/14/03, 22:30
Rain event
Test shutdown - 11/19/03, 16:30
Restart of pumping test - 11/25/03, 00:35
Test shutdown - 12/16/03, 16:24
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

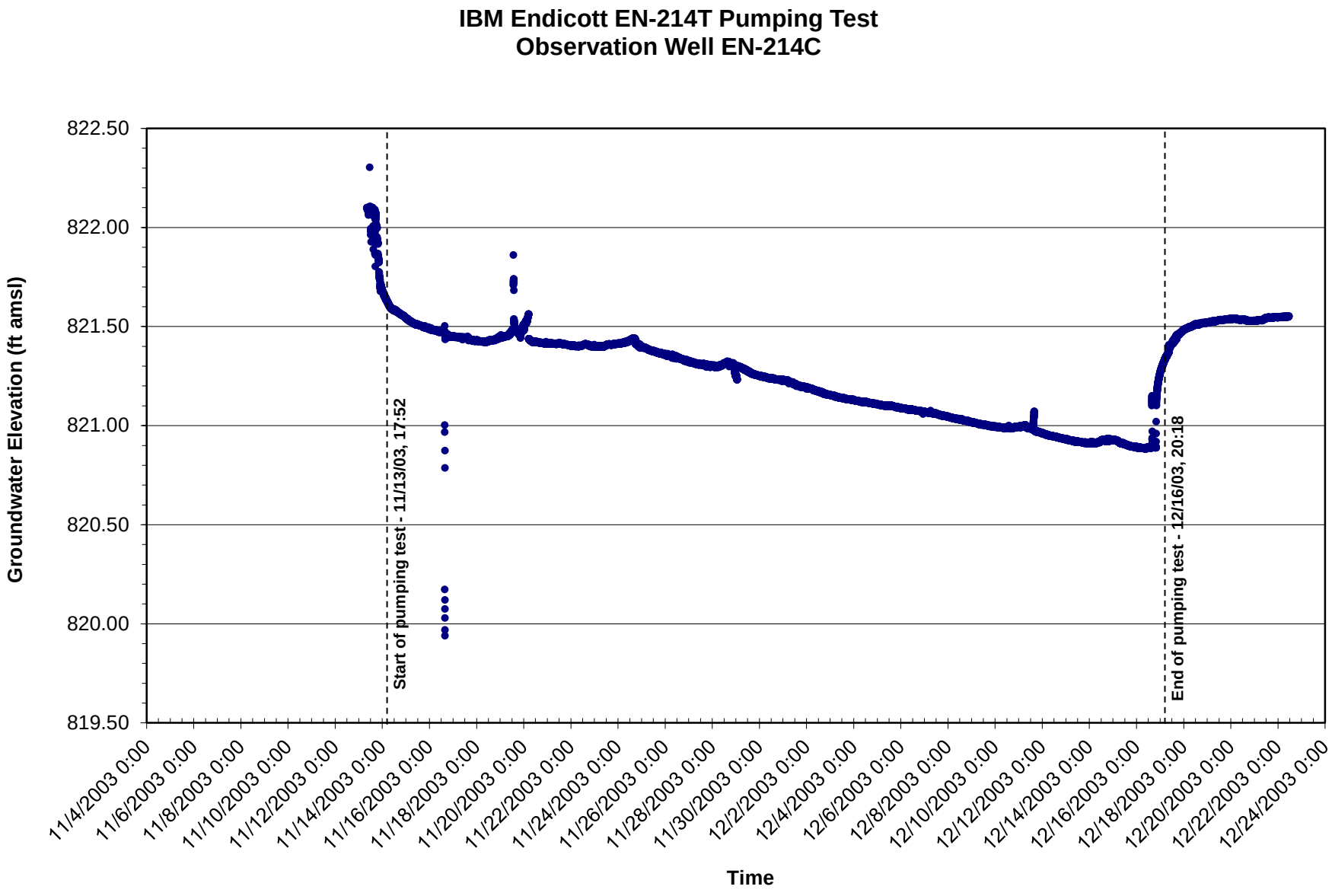

IBM Endicott EN-214T Pumping Test
Observation Well EN-161
Groundwater Elevation (ft amsl)
822.60
822.40
822.20
822.00
821.80
821.60
821.40
821.20
821.00
Start of pumping test - 11/13/03, 17:52
End of pumping test - 12/16/03, 20:18
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

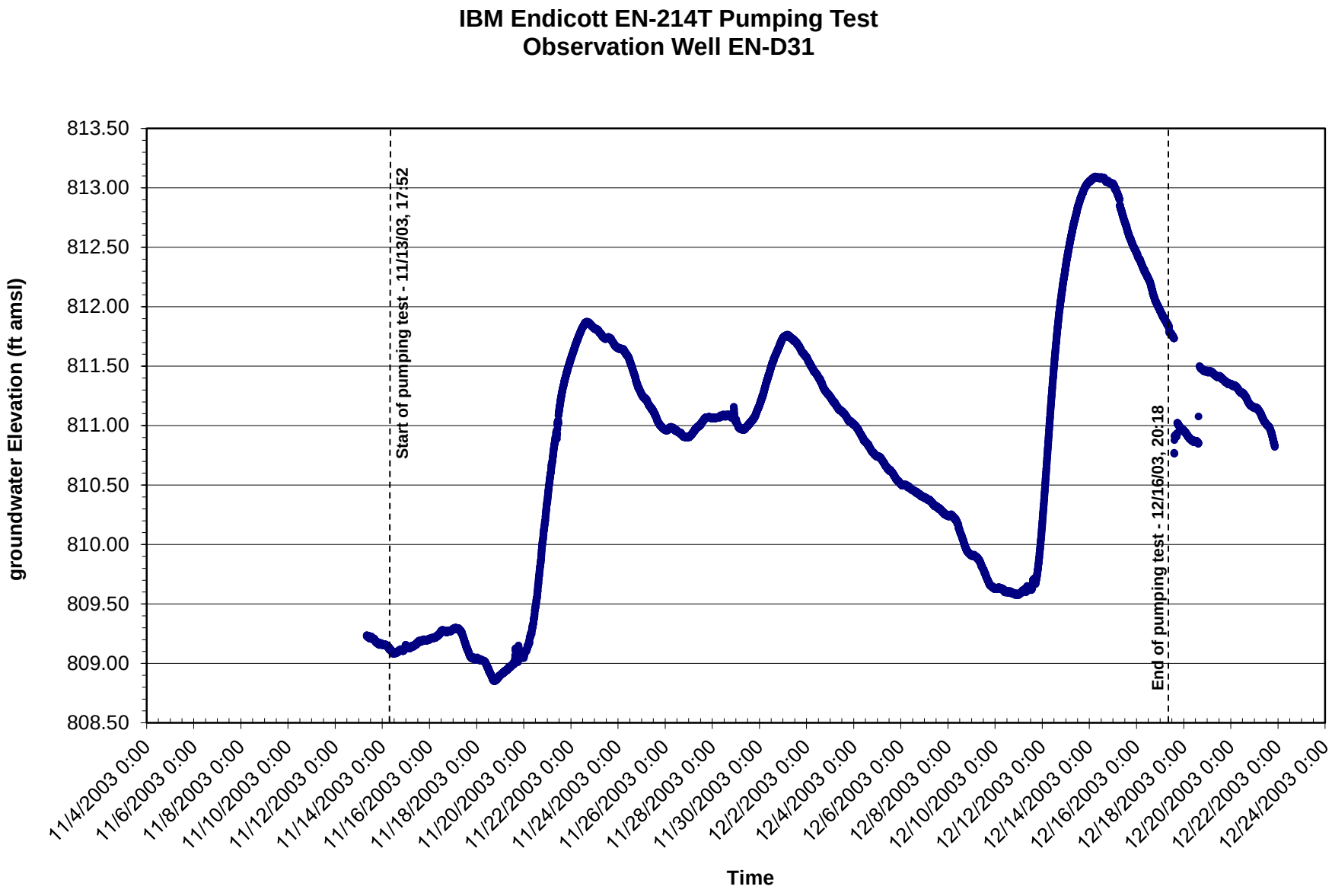

IBM Endicott EN-214T Pumping Test
Observation Well EN-204
Groundwater Elevation (ft amsl)
822.00
821.90
821.80
821.70
821.60
821.50
821.40
821.30
821.20
821.10
821.00
Start of pumping test - 11/13/03, 17:52
End of pumping test - 12/16/03, 20:18
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

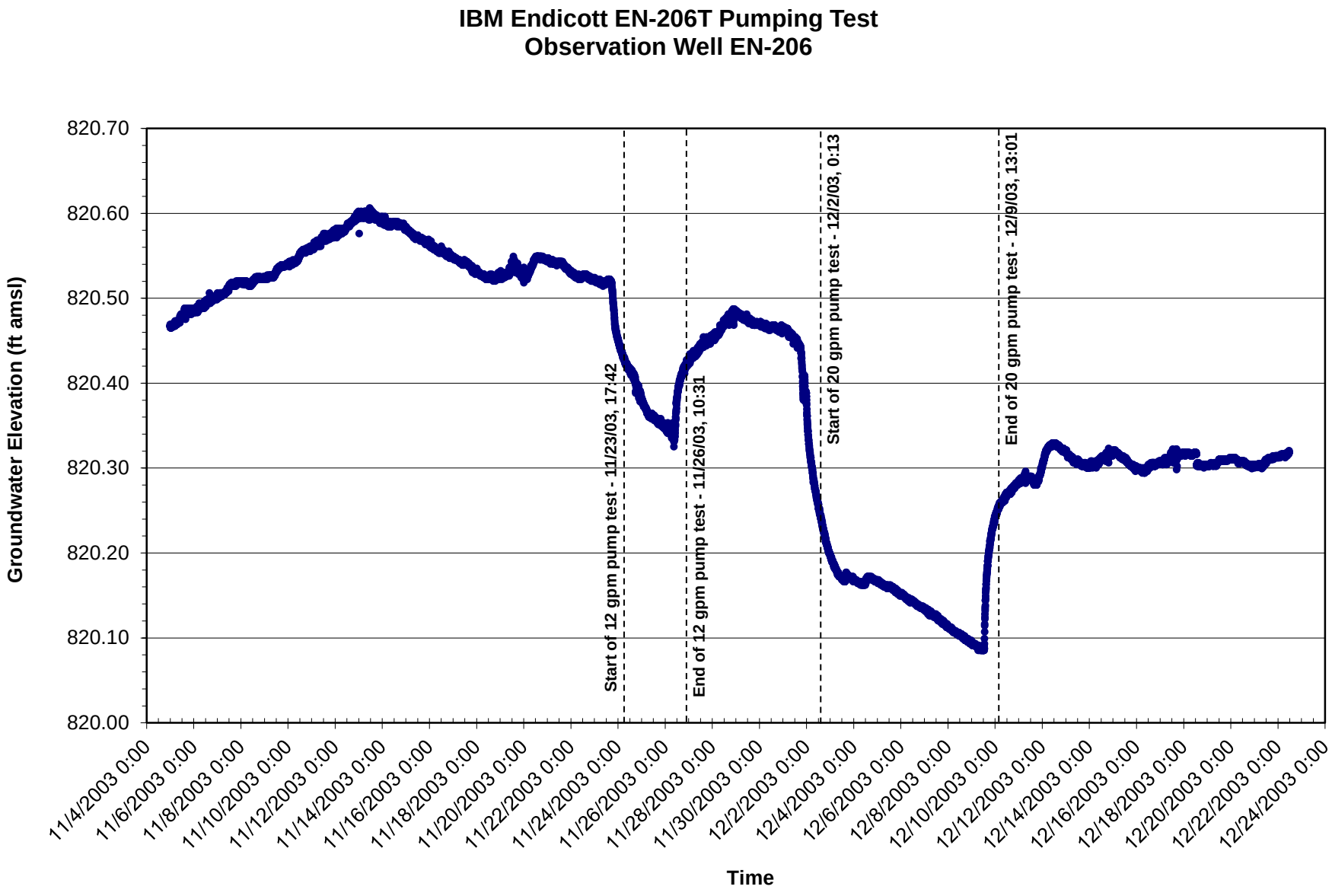

IBM Endicott EN-214T Pumping Test
Observation Well EN-206T
Groundwater Elevation (ft amsl)
821.00
820.80
820.60
820.40
820.20
820.00
819.80
819.60
Start of EN-214T pumping test - 11/13/03, 17:52
11/3/2003 0:00
11/5/2003 0:00
11/7/2003 0:00
11/9/2003 0:00
11/11/2003 0:00
11/13/2003 0:00
11/15/2003 0:00
11/17/2003 0:00
11/19/2003 0:00
11/21/2003 0:00
11/23/2003 0:00
Time

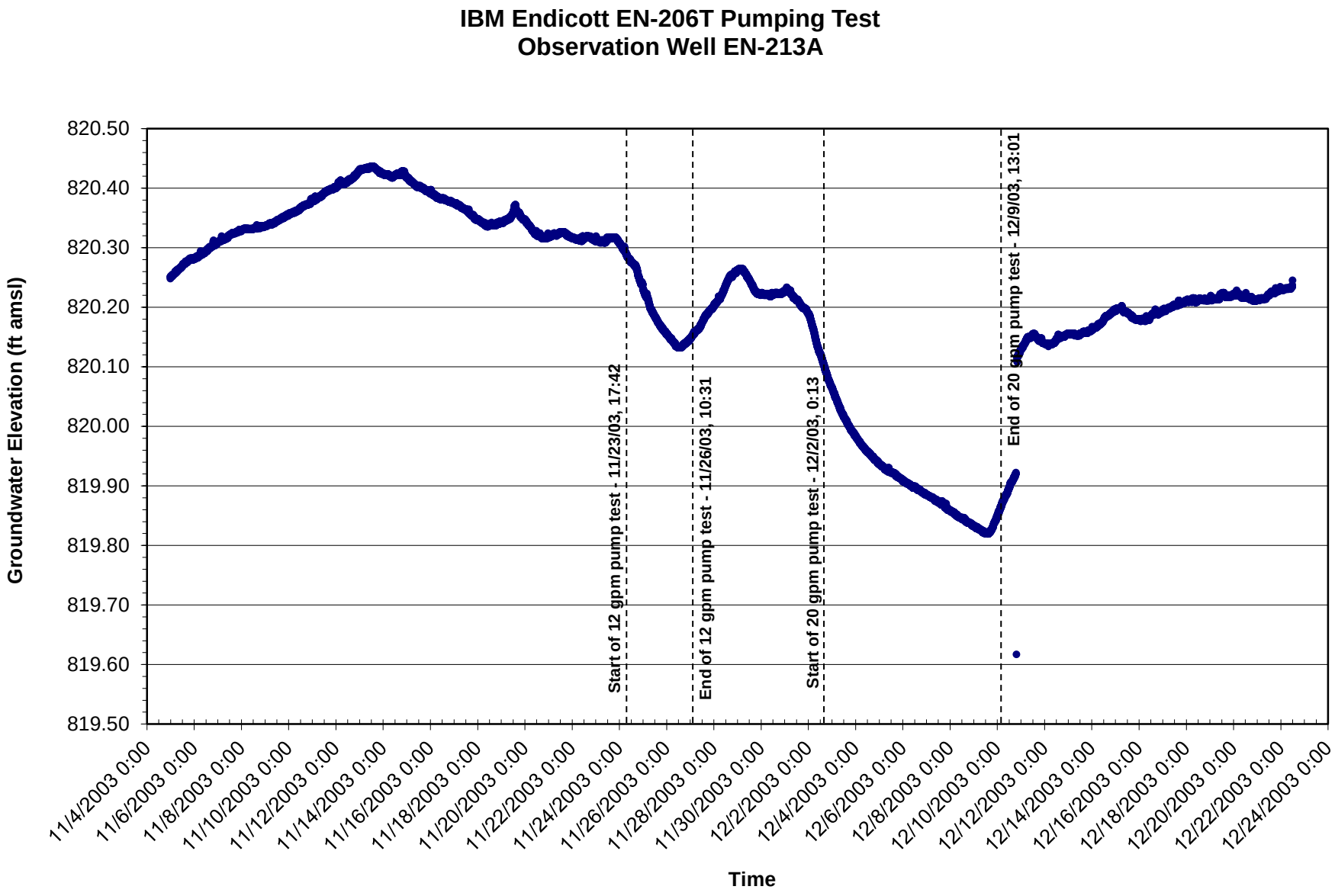

IBM Endicott EN-214T Pumping Test
Observation Well EN-214A
Groundwater Elevation (ft amsl)
822.40
822.20
822.00
821.80
821.60
821.40
821.20
821.00
820.80
Start of pumping test - 11/13/03, 17:52
End of pumping test - 12/16/03, 20:18
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time

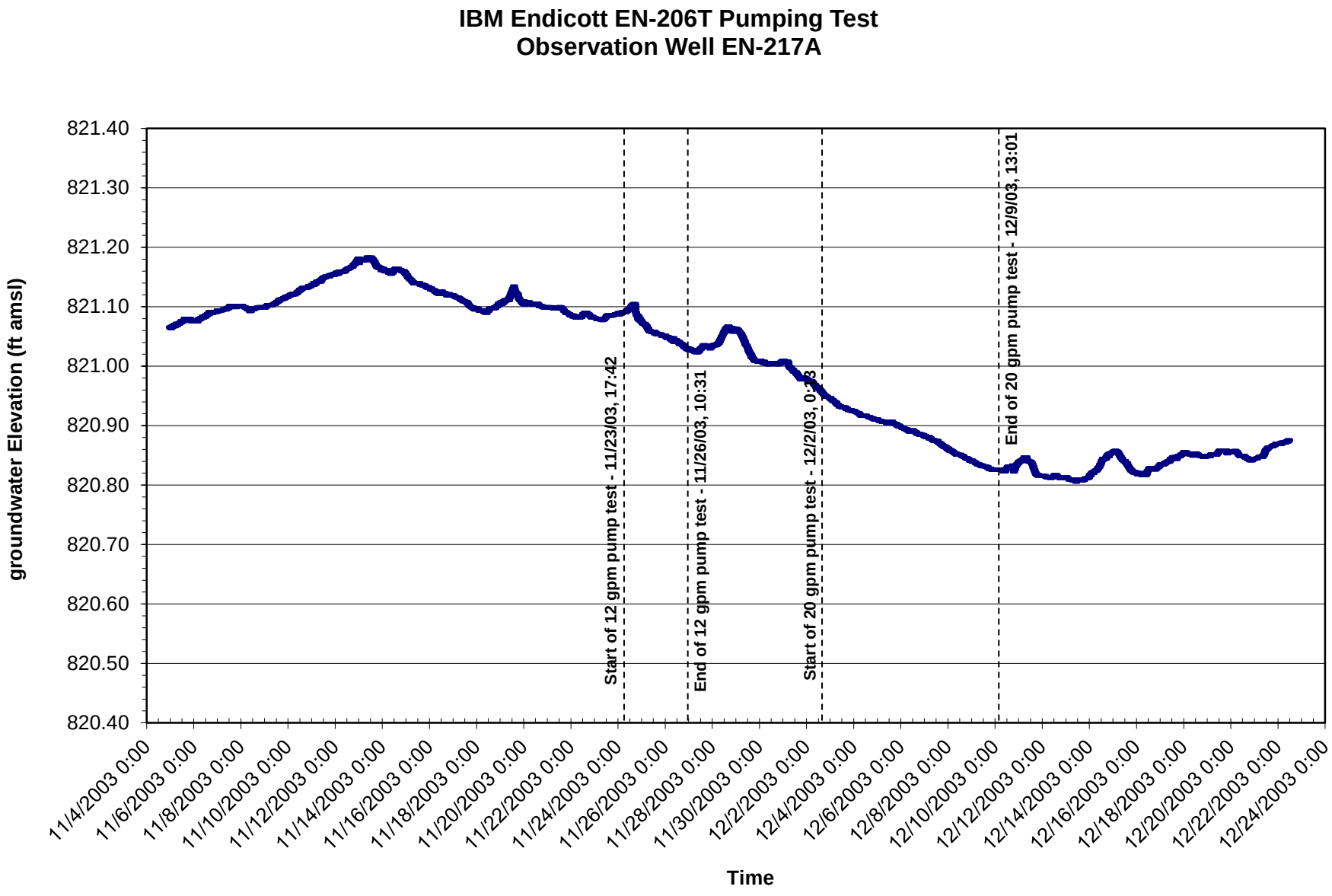

IBM Endicott EN-214T Pumping Test
Observation Well EN-214B
Groundwater Elevation (ft amsl)
828.00
827.00
826.00
825.00
824.00
823.00
822.00
821.00
820.00
819.00
818.00
Start of pumping test - 11/13/03, 17:52
Datalogger Malfunction (drift)
End of pumping test - 12/16/03, 20:18
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time


IBM Endicott EN-214T Pumping Test
Observation Well EN-214C
Groundwater Elevation (ft amsl)
822.50
822.00
821.50
821.00
820.50
820.00
819.50
Start of pumping test - 11/13/03, 17:52
End of pumping test - 12/16/03, 20:18
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time


IBM Endicott EN-214T Pumping Test
Observation Well EN-D31
groundwater Elevation (ft amsl)
813.50
813.00
812.50
812.00
811.50
811.00
810.50
810.00
809.50
809.00
808.50
Start of pumping test - 11/13/03, 17:52
End of pumping test - 12/16/03, 20:18
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time


IBM Endicott EN-206T Pumping Test
Observation Well EN-206
Groundwater Elevation (ft amsl)
820.70
820.60
820.50
820.40
820.30
820.20
820.10
820.00
Start of 12 gpm pump test - 11/23/03, 17:42
End of 12 gpm pump test - 11/26/03, 10:31
Start of 20 gpm pump test - 12/2/03, 0:13
End of 20 gpm pump test - 12/9/03, 13:01
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time


IBM Endicott EN-206T Pumping Test
Observation Well EN-213A
Groundwater Elevation (ft amsl)
820.50
820.40
820.30
820.20
820.10
820.00
819.90
819.80
819.70
819.60
819.50
Start of 12 gpm pump test - 11/23/03, 17:42
End of 12 gpm pump test - 11/26/03, 10:31
Start of 20 gpm pump test - 12/2/03, 0:13
End of 20 gpm pump test - 12/9/03, 13:01
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
12/10/2003 0:00
12/12/2003 0:00
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time


IBM Endicott EN-206T Pumping Test
Observation Well EN-217A
groundwater Elevation (ft amsl)
821.40
821.30
821.20
821.10
821.00
820.90
820.80
820.70
820.60
820.50
820.40
Start of 12 gpm pump test - 11/23/03, 17:42
End of 12 gpm pump test - 11/26/03, 10:31
Start of 20 gpm pump test - 12/2/03, 0:23
End of 20 gpm pump test - 12/9/03, 13:01
11/4/2003 0:00
11/6/2003 0:00
11/8/2003 0:00
11/10/2003 0:00
11/12/2003 0:00
11/14/2003 0:00
11/16/2003 0:00
11/18/2003 0:00
11/20/2003 0:00
11/22/2003 0:00
11/24/2003 0:00
11/26/2003 0:00
11/28/2003 0:00
11/30/2003 0:00
12/2/2003 0:00
12/4/2003 0:00
12/6/2003 0:00
12/8/2003 0:00
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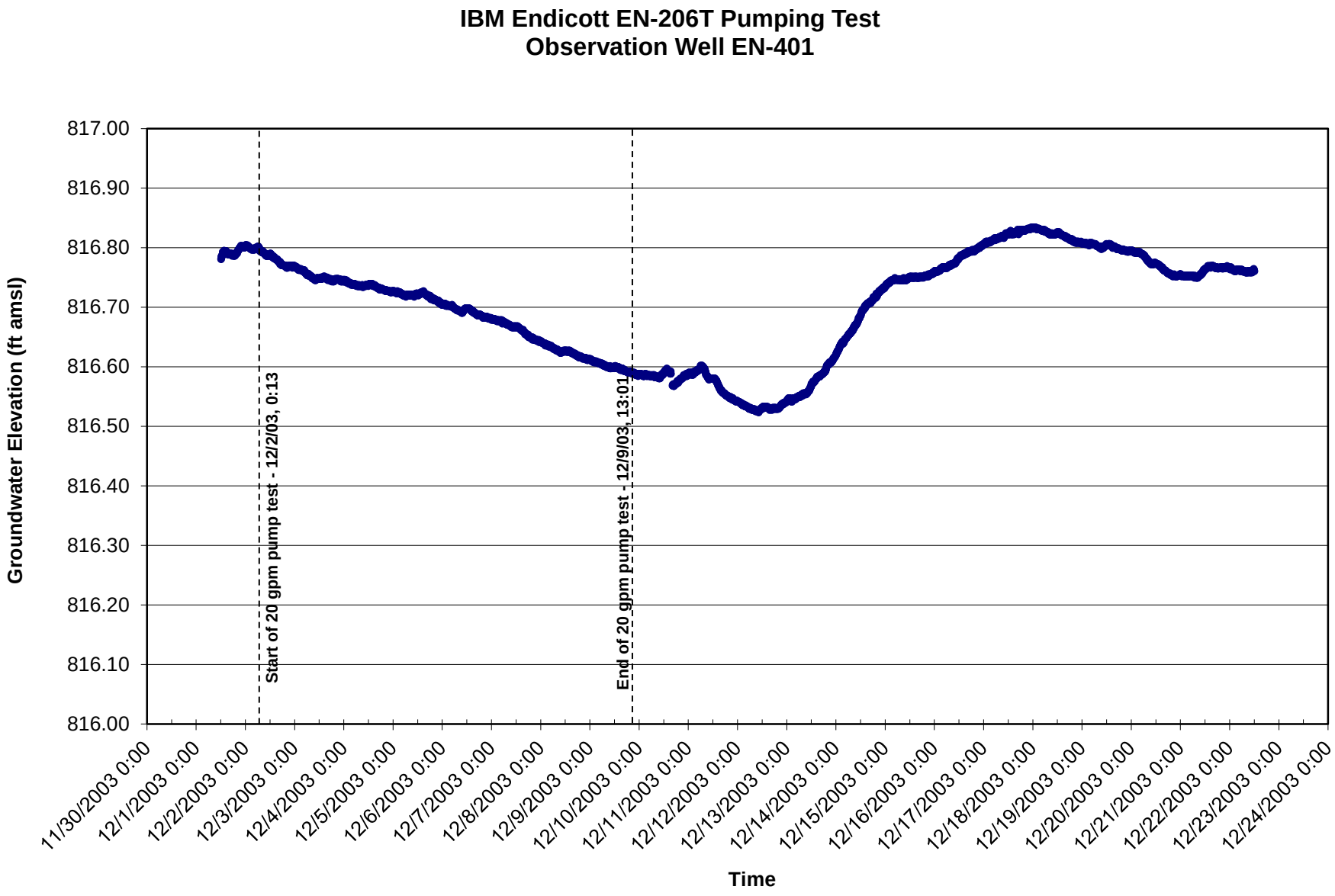
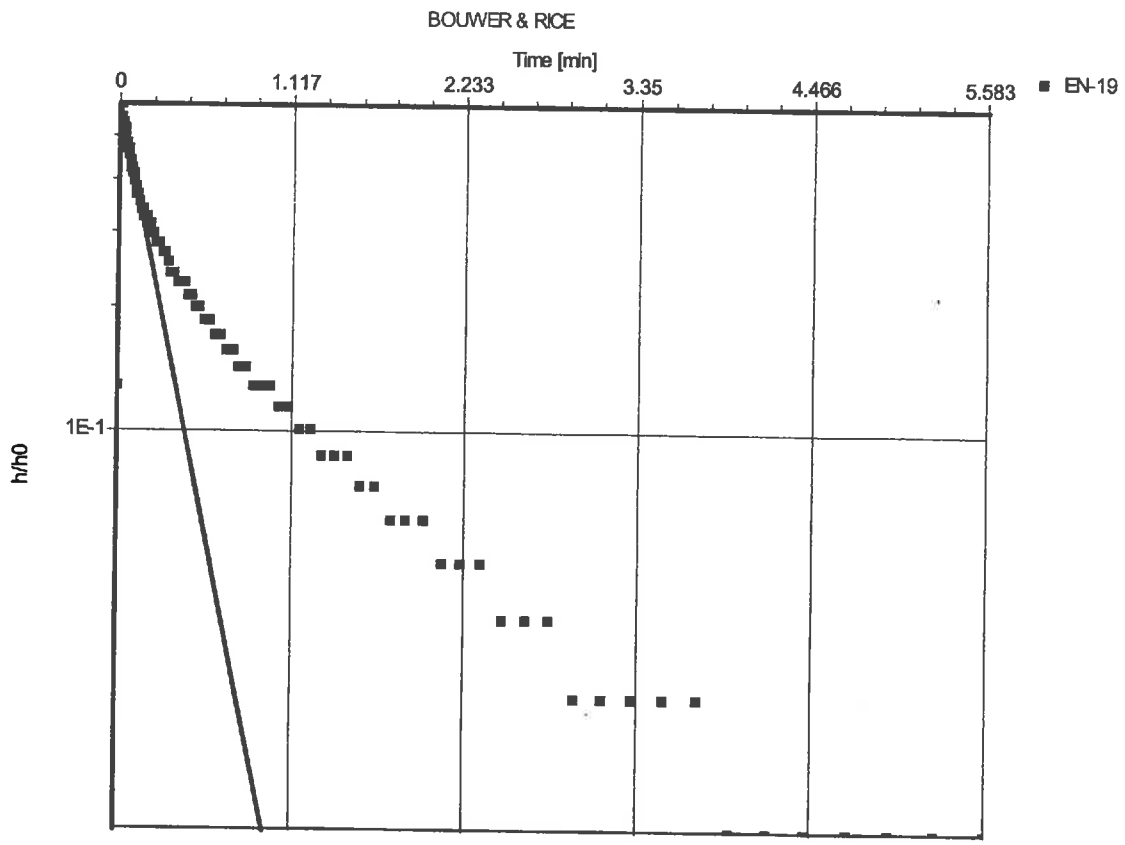
12/14/2003 0:00
12/16/2003 0:00
12/18/2003 0:00
12/20/2003 0:00
12/22/2003 0:00
12/24/2003 0:00
Time


IBM Endicott EN-206T Pumping Test
Observation Well EN-401
Groundwater Elevation (ft amsl)
817.00
816.90
816.80
816.70
816.60
816.50
816.40
816.30
816.20
816.10
816.00
Start of 20 gpm pump test - 12/2/03, 0:13
End of 20 gpm pump test - 12/9/03, 13:01
11/30/2003 0:00
12/1/2003 0:00
12/2/2003 0:00
12/3/2003 0:00
12/4/2003 0:00
12/5/2003 0:00
12/6/2003 0:00
12/7/2003 0:00
12/8/2003 0:00
12/9/2003 0:00
12/10/2003 0:00
12/11/2003 0:00
12/12/2003 0:00
12/13/2003 0:00
12/14/2003 0:00
12/15/2003 0:00
12/16/2003 0:00
12/17/2003 0:00
12/18/2003 0:00
12/19/2003 0:00
12/20/2003 0:00
12/21/2003 0:00
12/22/2003 0:00
12/23/2003 0:00
12/24/2003 0:00
Time

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-19	Test well: EN-19

Test performed by: SMF Test date: 12/11/2003	Evaluated by: SMF Evaluation date: 12/11/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 3.35

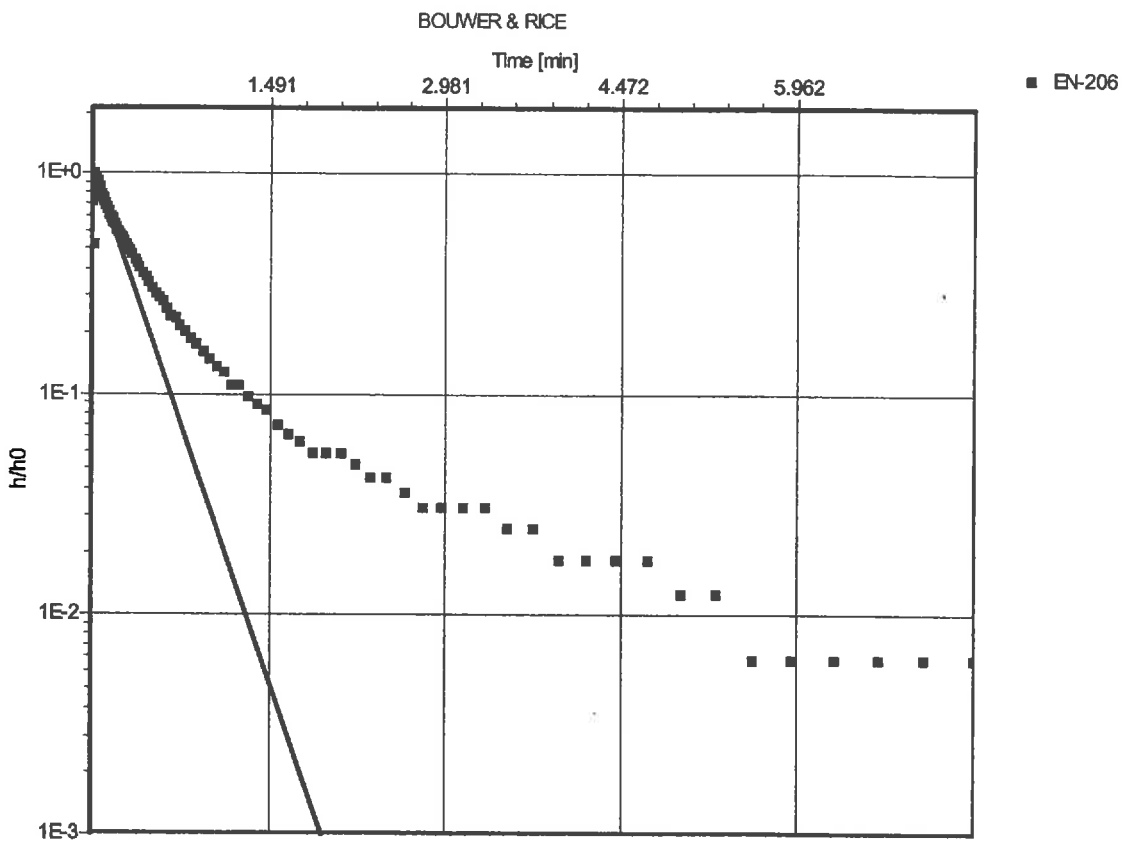


Conductivity: 2.34×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-206	Test well: EN-206

Test performed by: SMF Test date: 10/7/2003	Evaluated by: SMF Evaluation date: 12/16/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 10.86

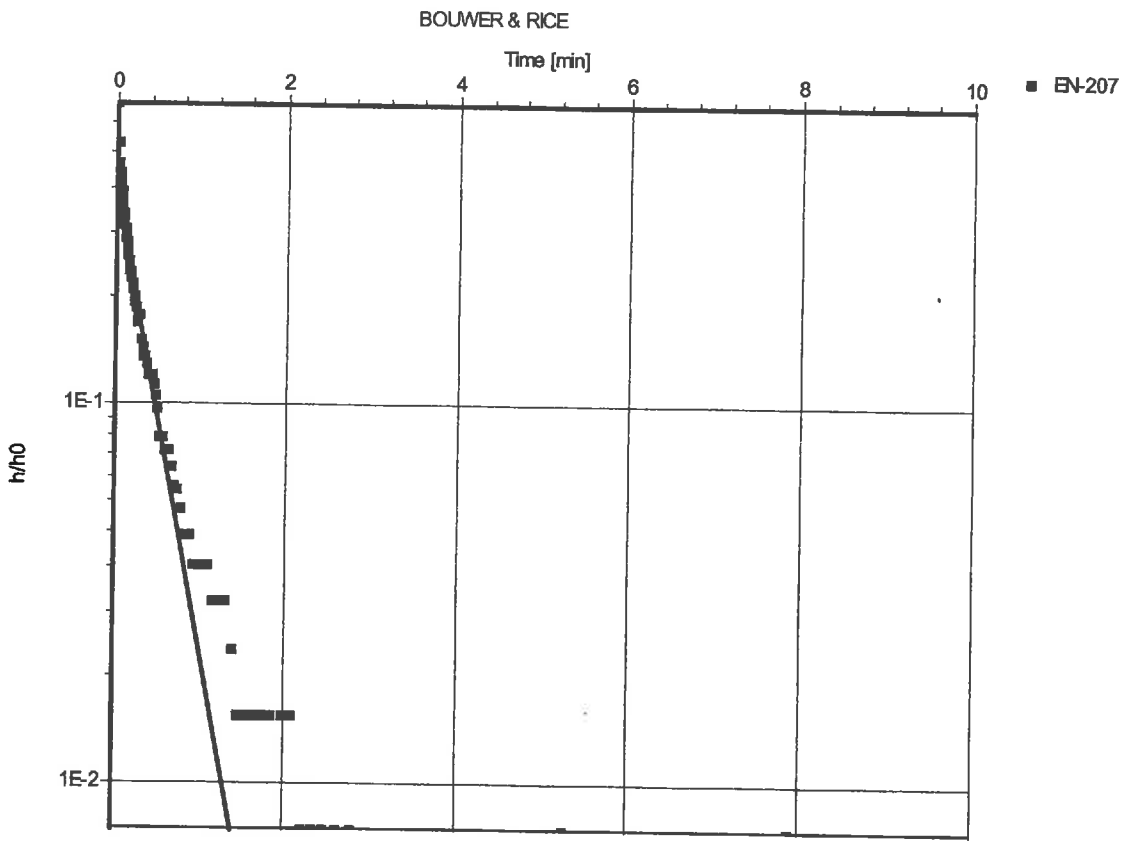


Conductivity: 5.00×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-207	Test well: EN-207

Test performed by: SMF Test date: 12/10/2003	Evaluated by: SMF Evaluation date: 12/10/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 6.08

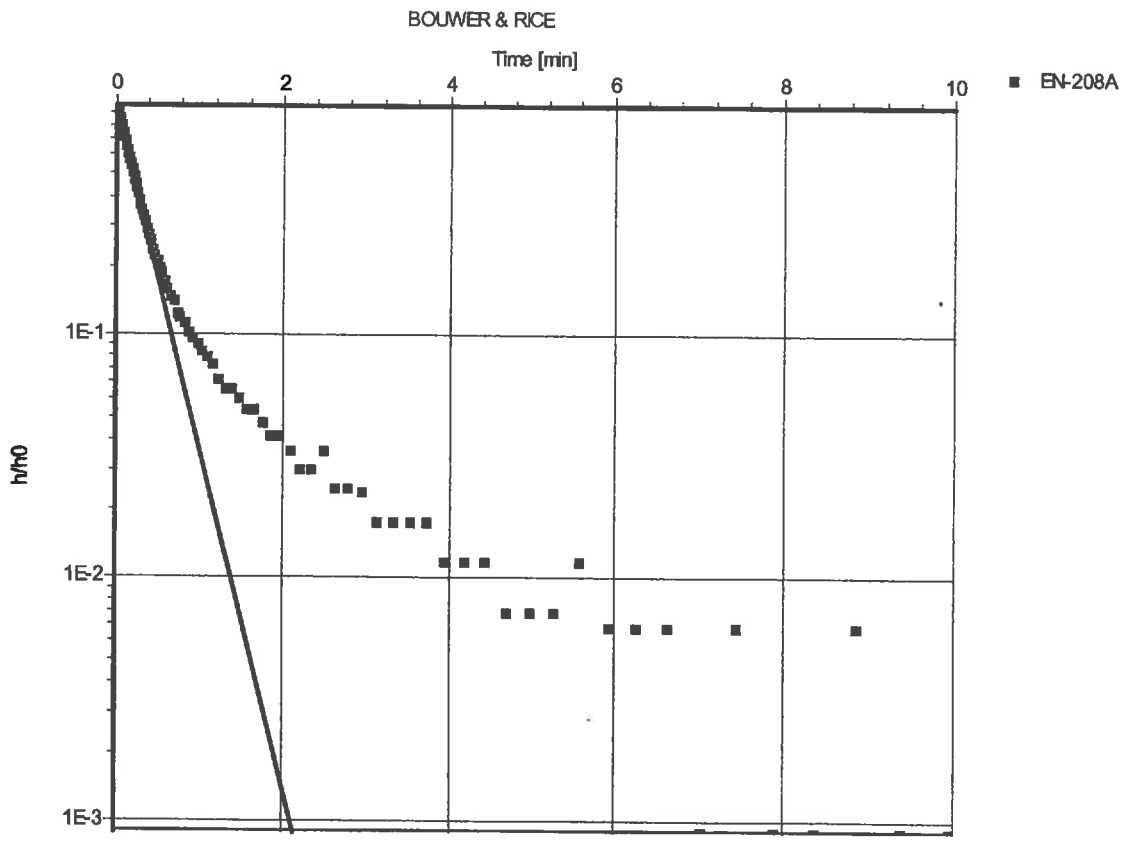


Conductivity: 2.00×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-208A	Test well: EN-208A

Test performed by: SMF Test date: 12/12/2003	Evaluated by: SMF Evaluation date: 12/12/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 3.57

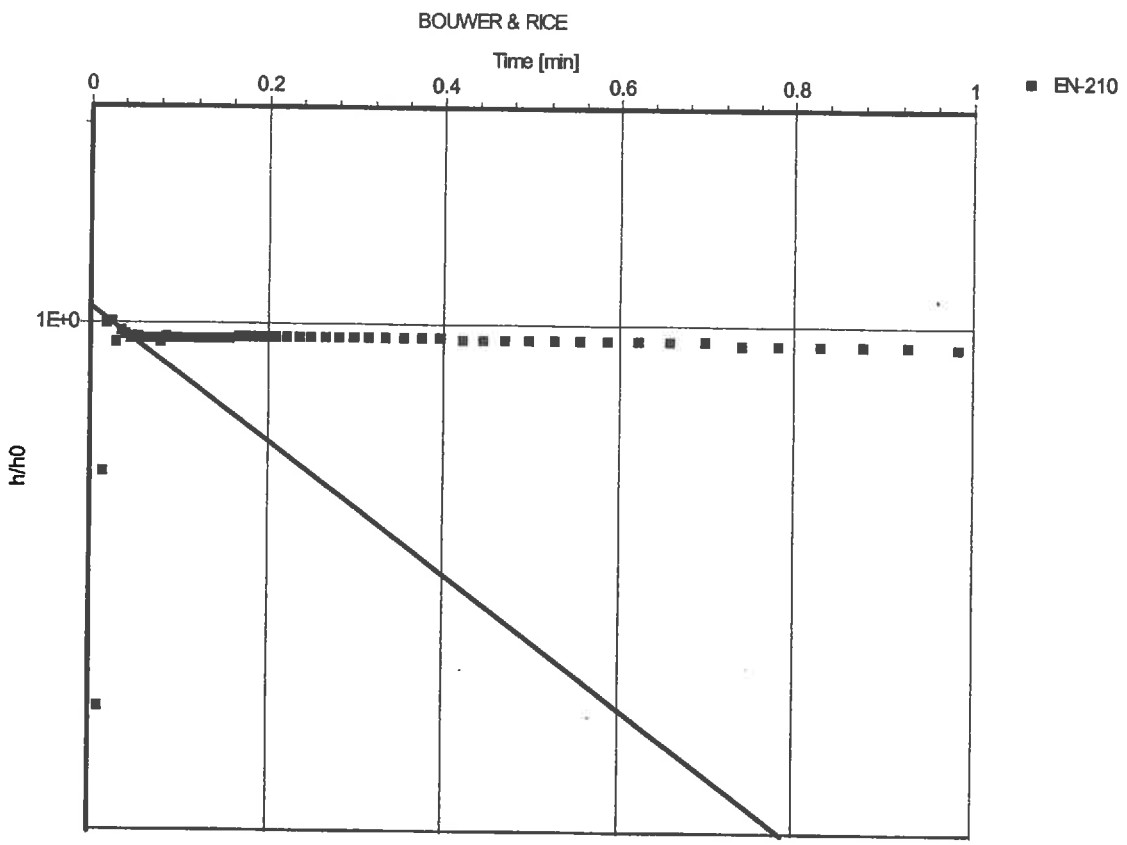


Conductivity: 2.01×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-210	Test well: EN-210

Test performed by: SMF Test date: 12/10/2003	Evaluated by: SMF Evaluation date: 12/11/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 5.5 [ft]

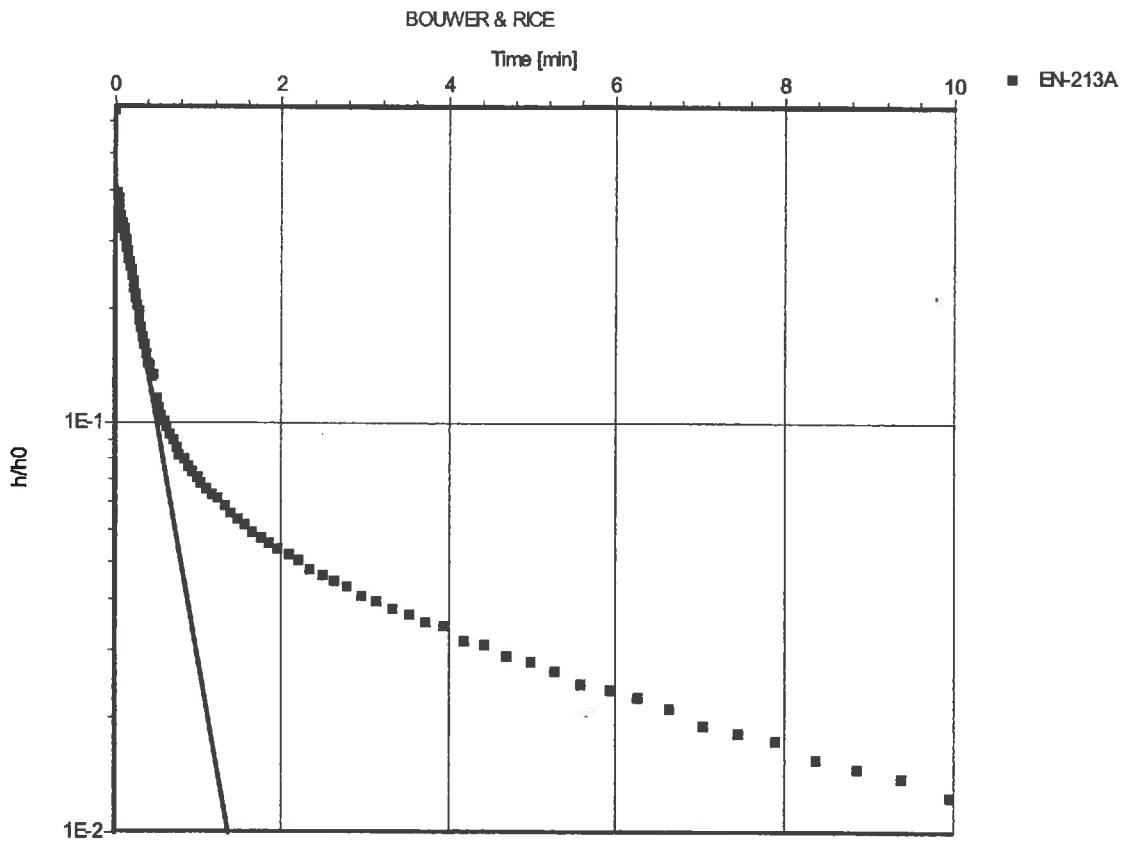


Conductivity: 1.50×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-213A	Test well: EN-213A

Test performed by: Test date: 12/12/2003	Evaluated by: SMF Evaluation date: 12/12/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 5.76

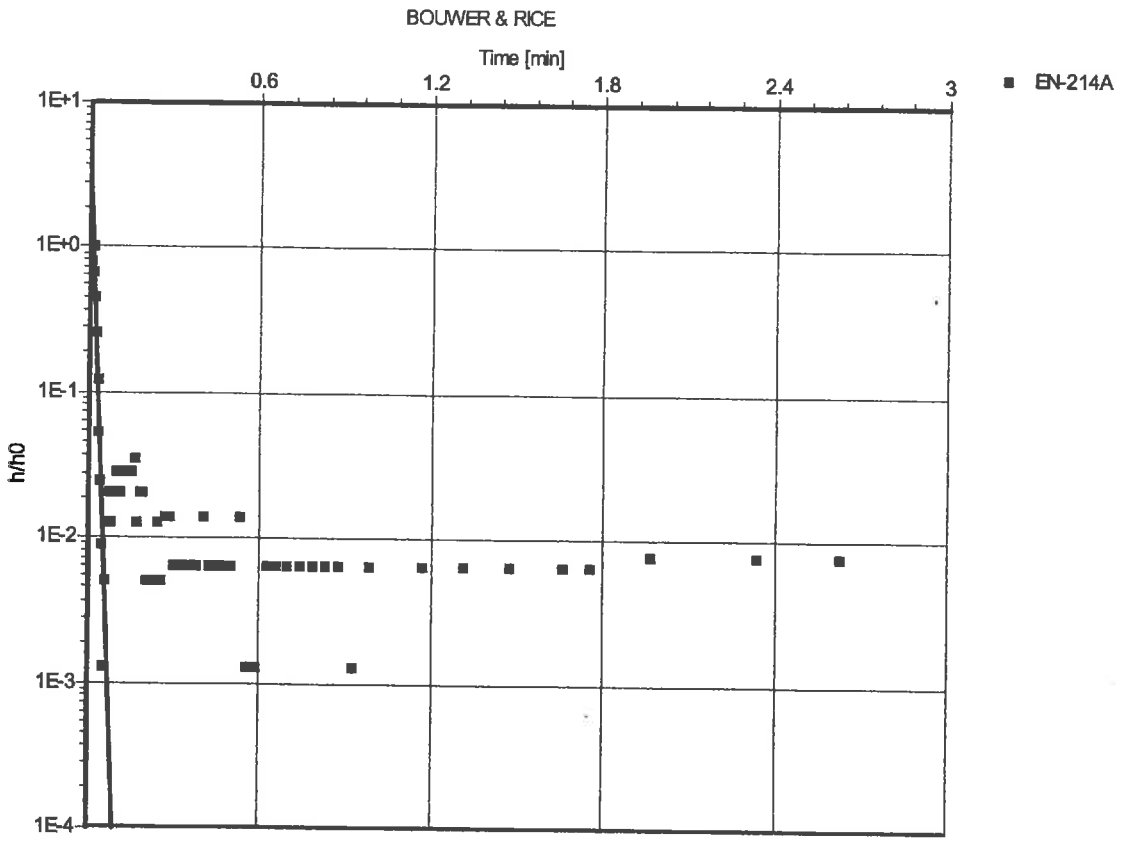


Conductivity: 1.73×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-214A	Test well: EN-214A

Test performed by: SMF Test date: 12/18/2003	Evaluated by: SMF Evaluation date: 12/18/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 24.12



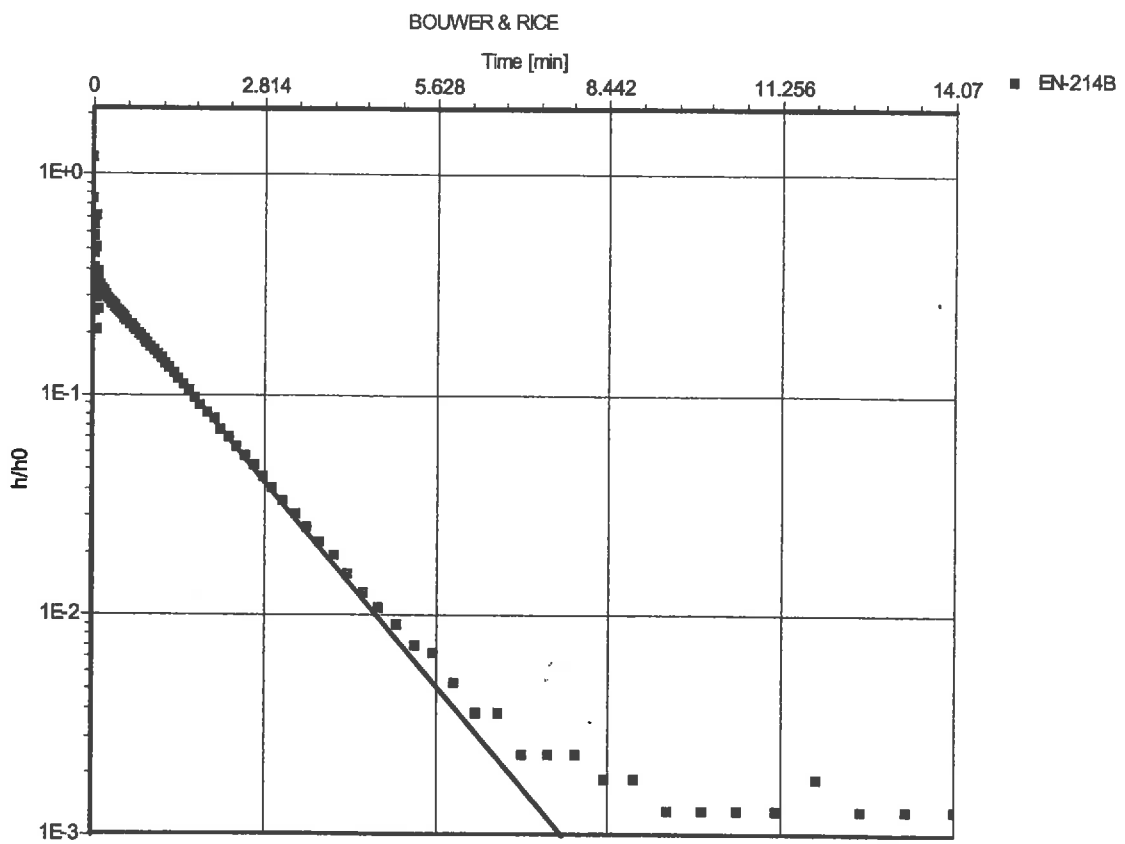
Conductivity: 4.29×10^+2 [ft/d]

Bail Test (slug removal)

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-214B#1	Test well: EN-214B

Test performed by: SMF Test date: 9/2/2003	Evaluated by: SMF Evaluation date: 12/16/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 24.2

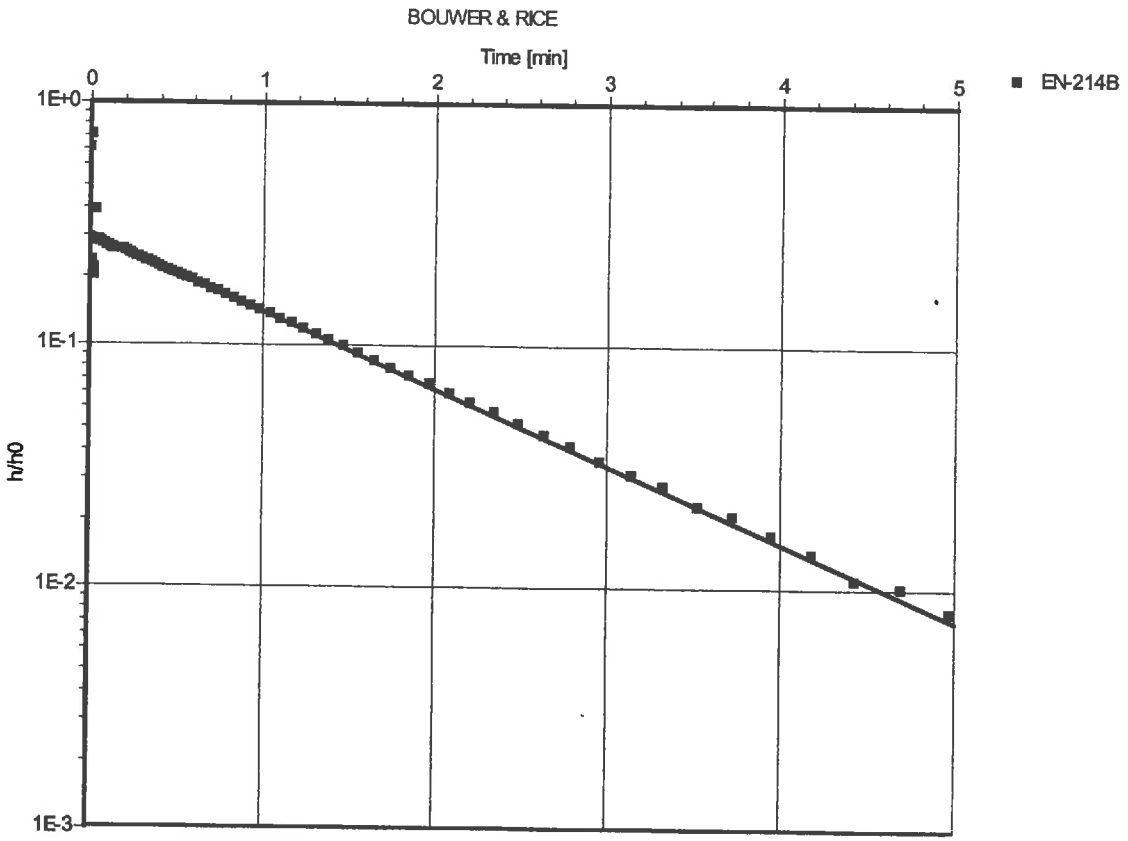


Conductivity: 2.19×10^+0 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-214B#2	Test well: EN-214B

Test performed by: SMF Test date: 9/22/2003	Evaluated by: SMF Evaluation date: 12/16/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 24.3

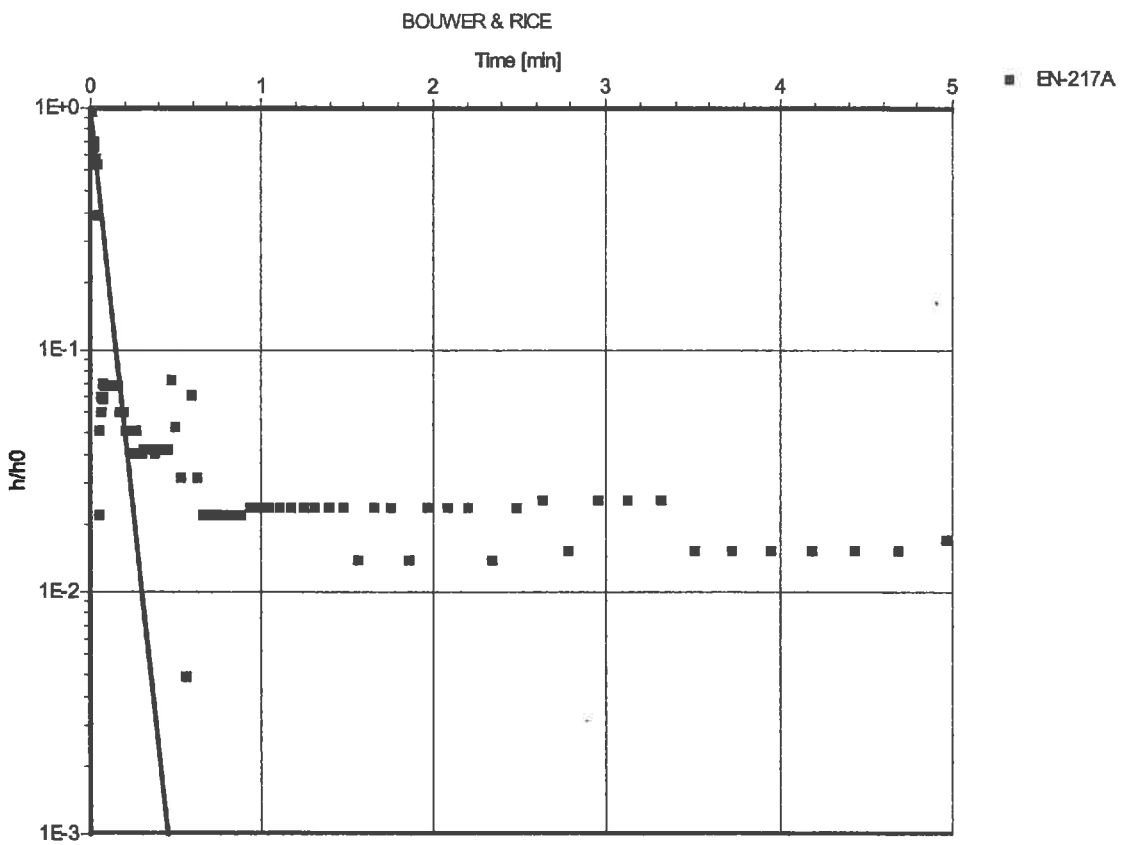


Conductivity: 2.12×10^+0 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-217A	Test well: EN-217A

Test performed by: SMF Test date: 12/12/2003	Evaluated by: SMF Evaluation date: 12/12/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 5.5 [ft]

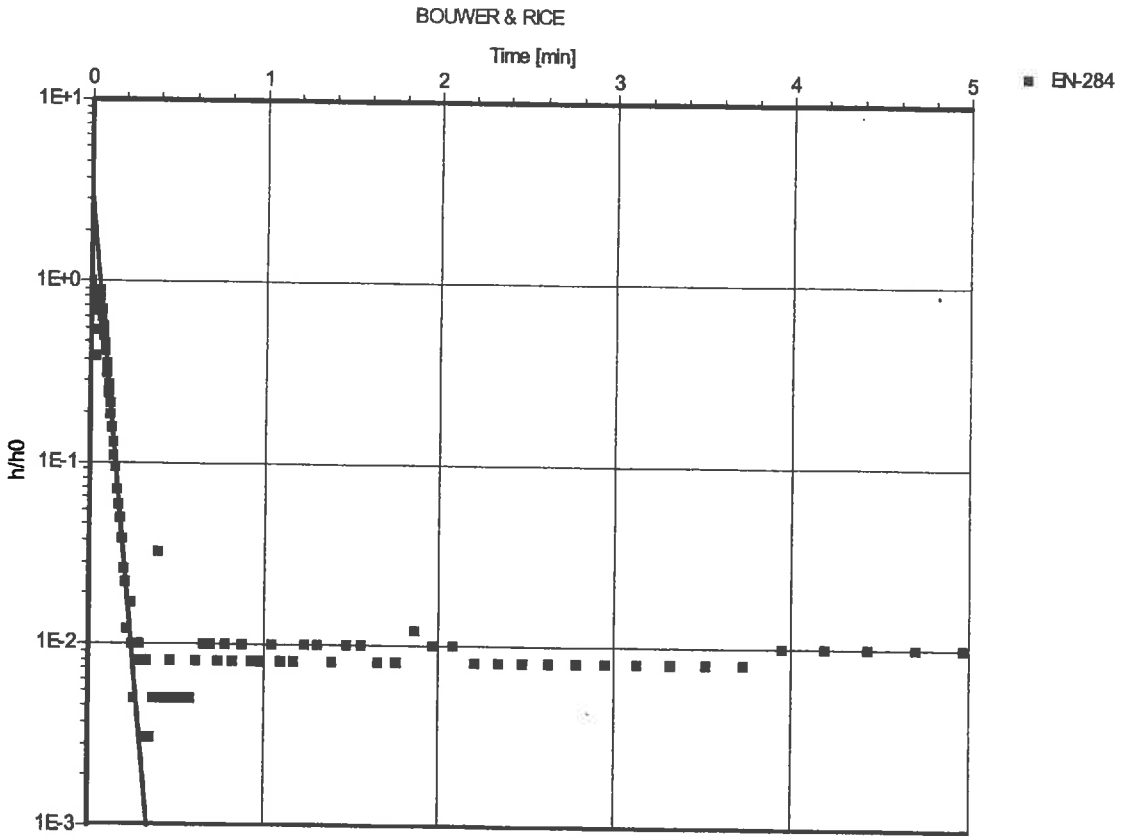


Conductivity: 7.86×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-284	Test well: EN-284

Test performed by: SMF Test date: 8/2/2003	Evaluated by: SMF Evaluation date: 12/16/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 33.56

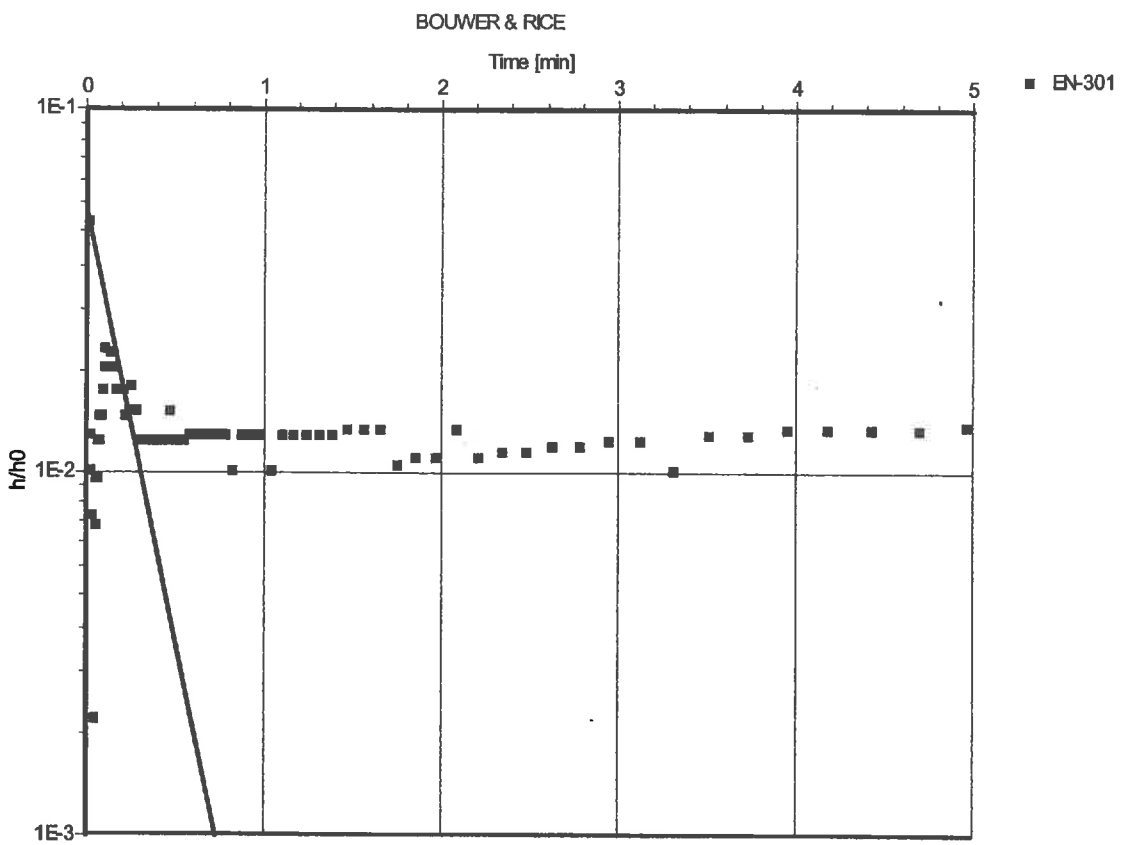


Conductivity: 1.46×10^+2 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-301	Test well: EN-301

Test performed by: SMF Test date: 12/22/2003	Evaluated by: SMF Evaluation date: 12/22/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 5.75

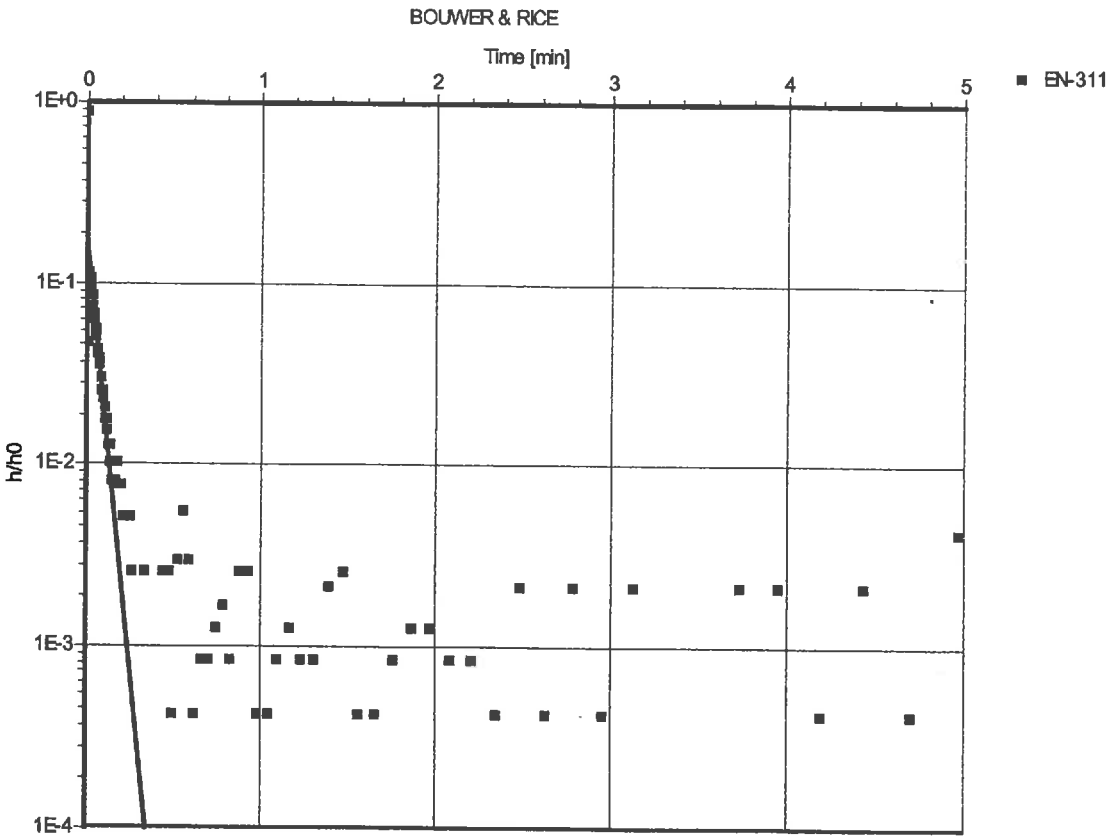


Conductivity: 2.84×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-311	Test well: EN-311

Test performed by: SMF Test date: 12/22/2003	Evaluated by: SMF Evaluation date: 12/22/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 5.26

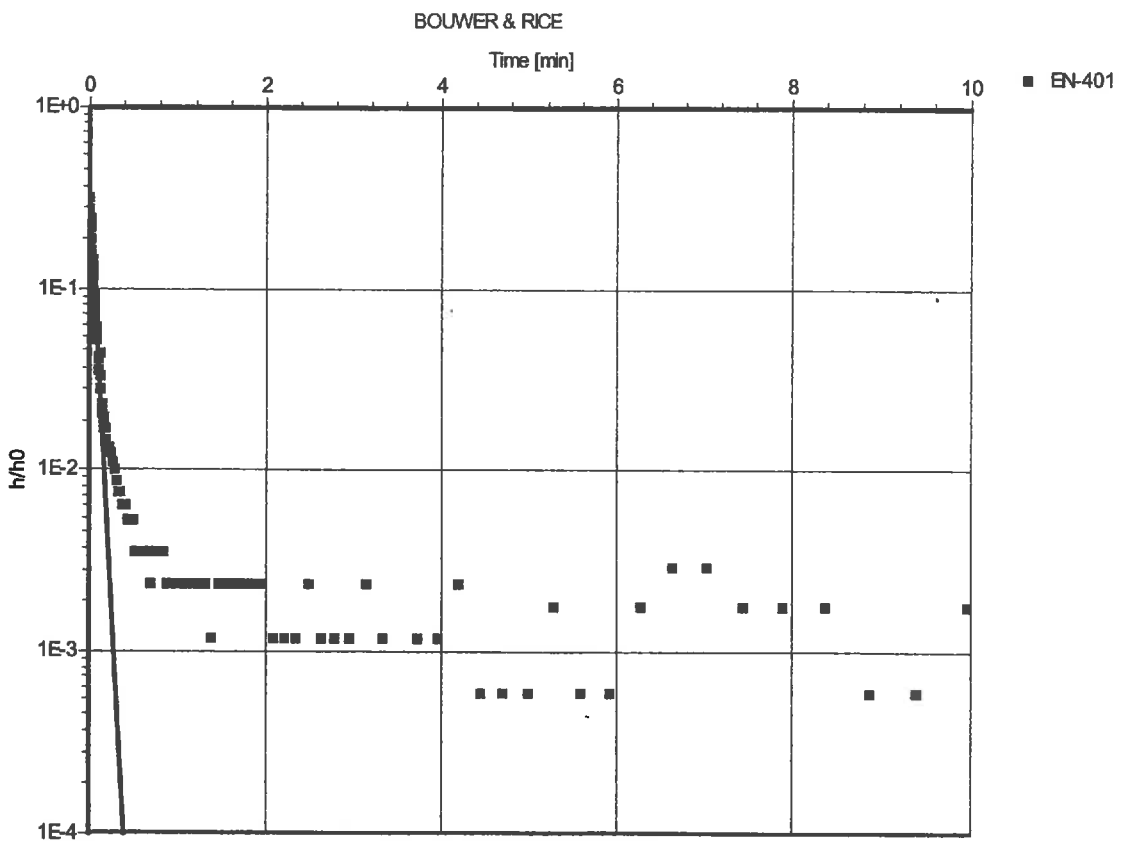


Conductivity: 1.11×10^+2 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-401	Test well: EN-401

Test performed by: SMF Test date: 12/12/2003	Evaluated by: SMF Evaluation date: 12/12/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 3.87

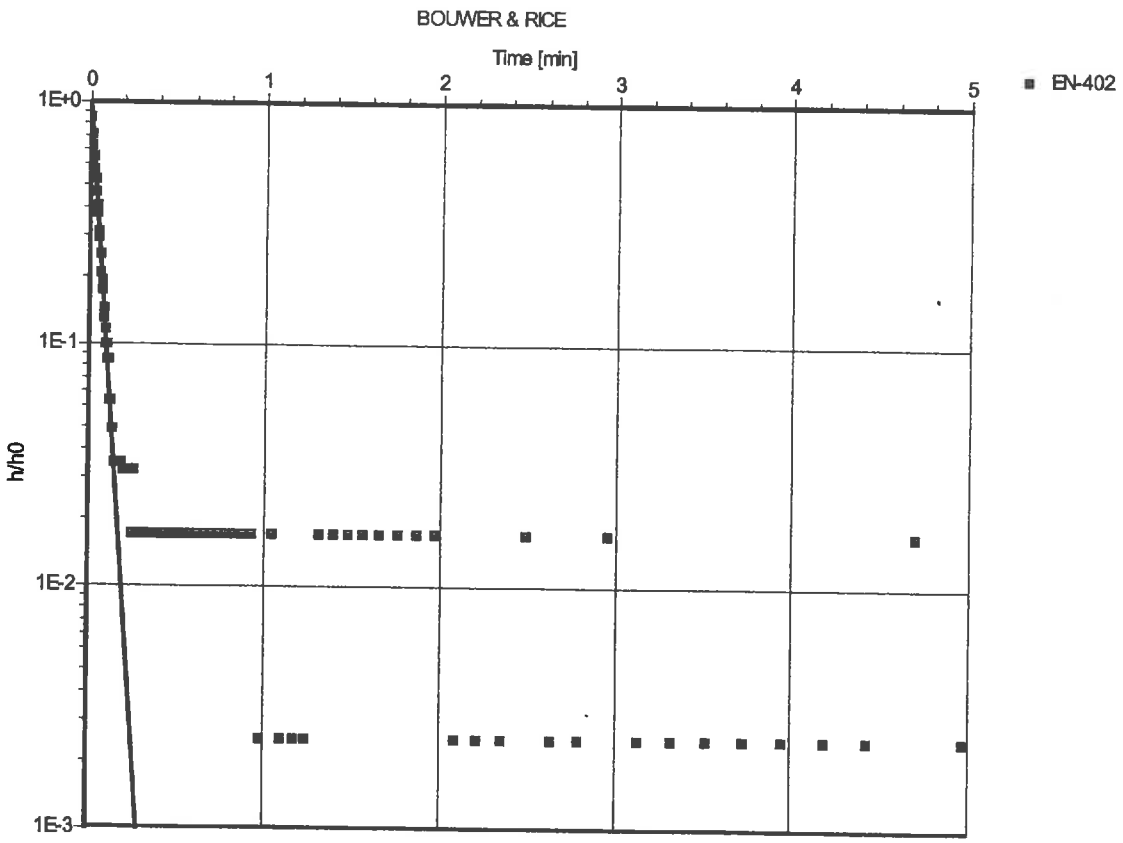


Conductivity: 6.46×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-402	Test well: EN-402

Test performed by: SMF Test date: 12/12/2003	Evaluated by: Evaluation date: 12/12/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 2.28

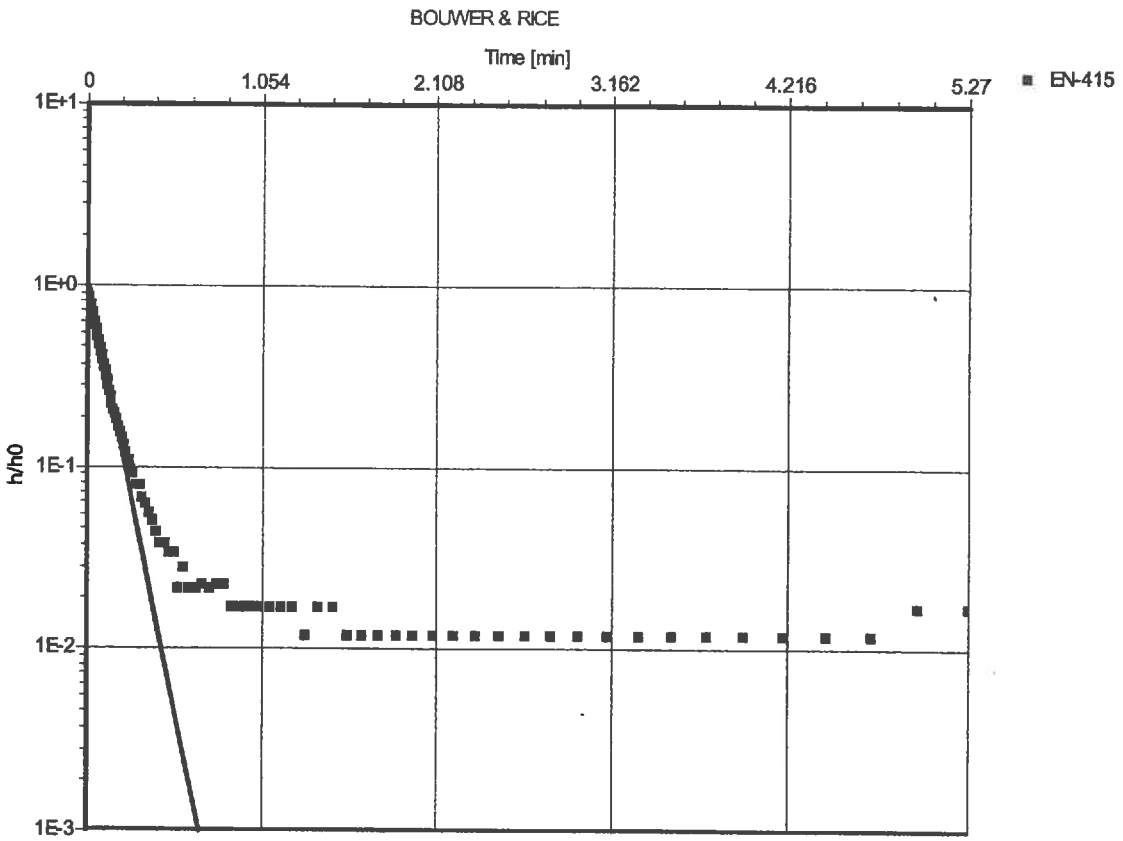


Conductivity: 5.95×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-415	Test well: EN-415

Test performed by: SMF Test date: 12/22/2003	Evaluated by: SMF Evaluation date: 12/22/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 3.27

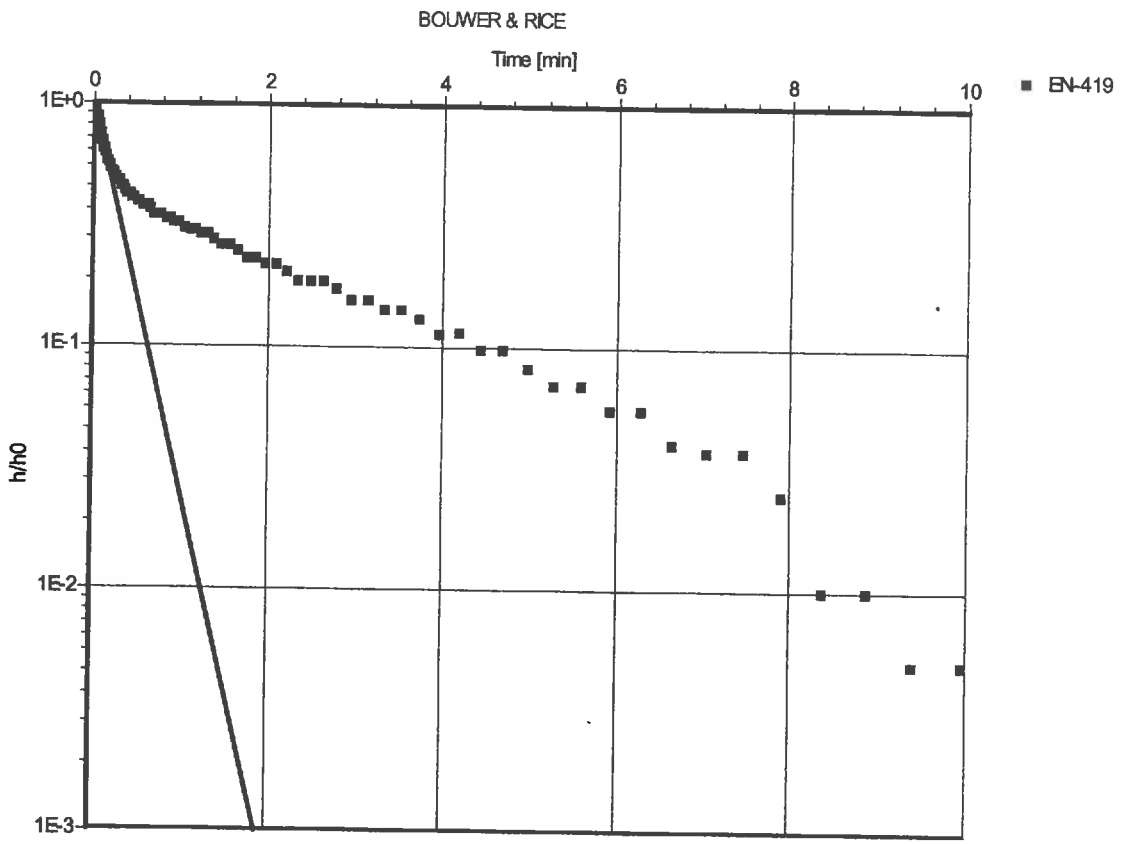


Conductivity: 6.14×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-419	Test well: EN-419

Test performed by: SMF Test date: 12/12/2003	Evaluated by: Evaluation date: 12/12/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 2.82

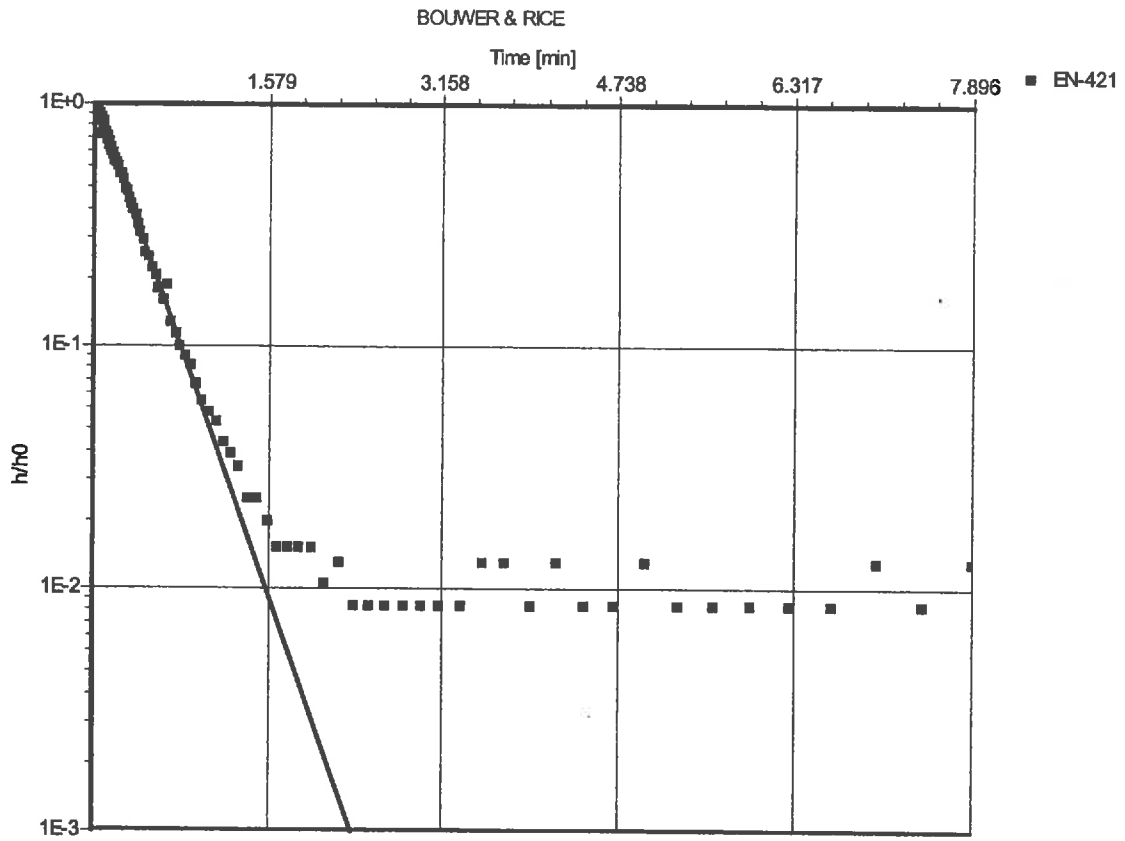


Conductivity: 5.01×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

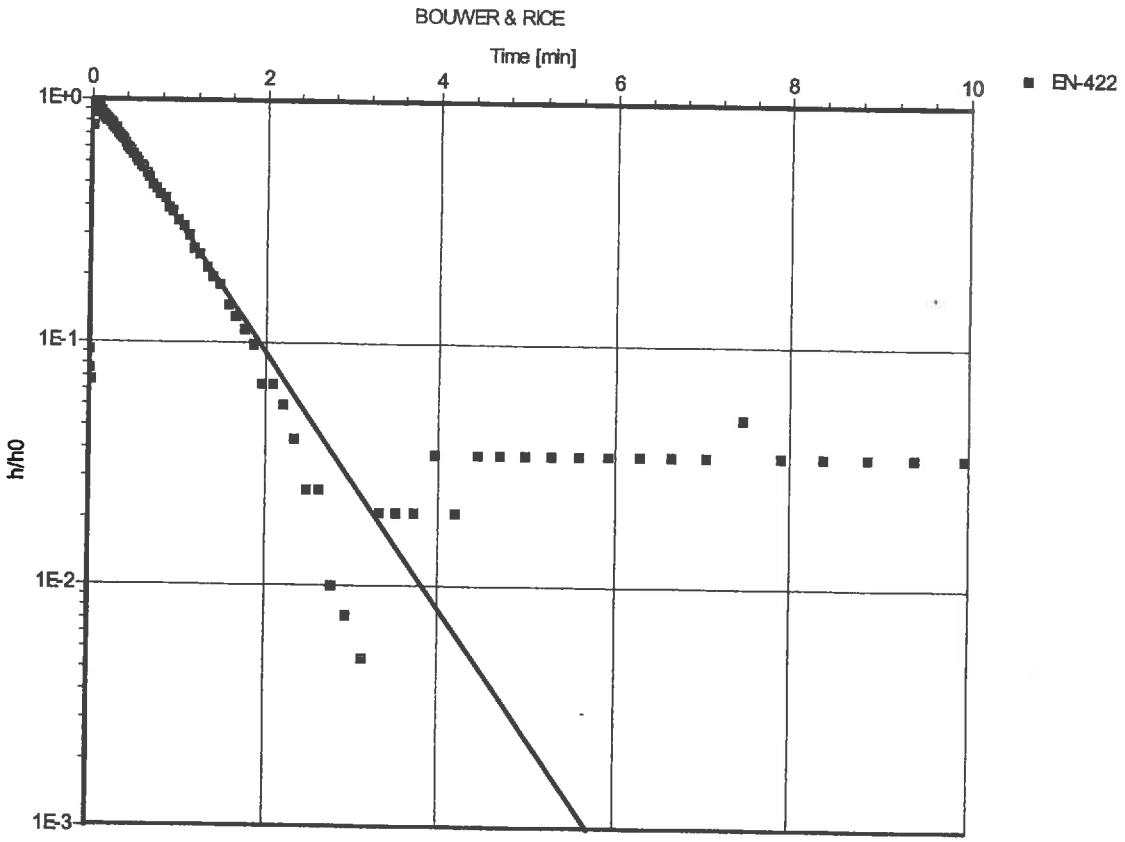
Location: Endicott, New York	Slug test: EN-421	Test well: EN-421

Test performed by: Test date: 12/16/2003	Evaluated by: SMF Evaluation date: 12/16/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 3.13



Conductivity: 4.31×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	
Location: Endicott, New York	Slug test: EN-422	Test well: EN-422
Test performed by: Test date: 12/12/2003	Evaluated by: Evaluation date: 12/12/2003	
Analysis method: BOUWER & RICE	Aquifer thickness: 4.62	

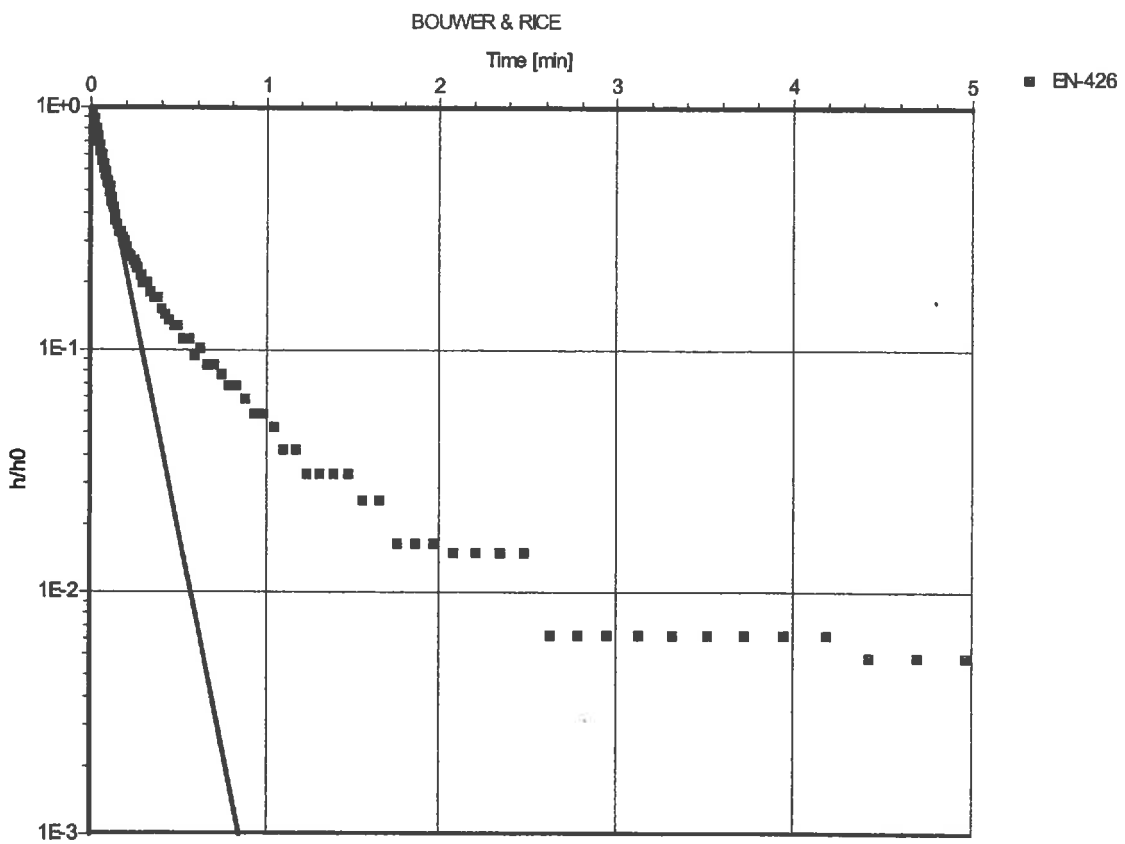


Conductivity: 2.03×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-426	Test well: EN-426

Test performed by: SMF Test date: 12/12/2003	Evaluated by: SMF Evaluation date: 12/12/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 4.92

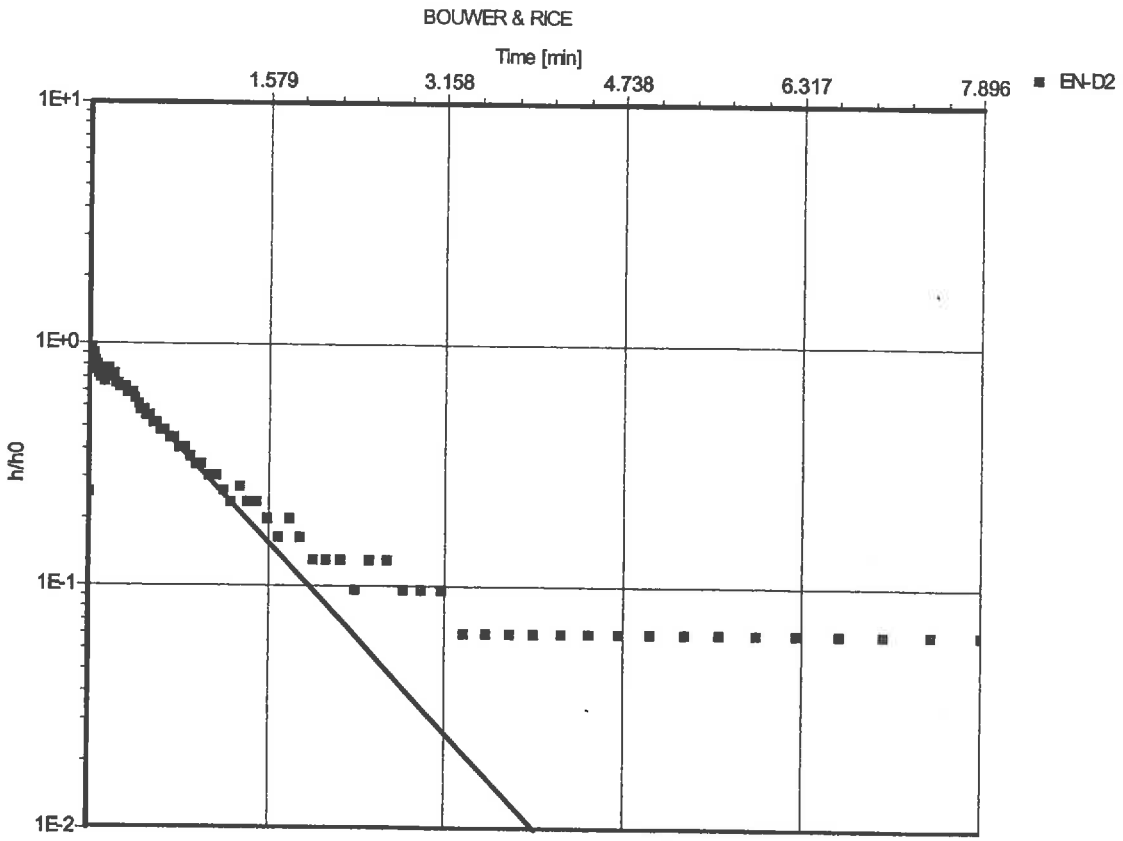


Conductivity: 4.11×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-D2	Test well: EN-D2

Test performed by: SMF Test date: 12/22/2003	Evaluated by: SMF Evaluation date: 12/22/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 103.46

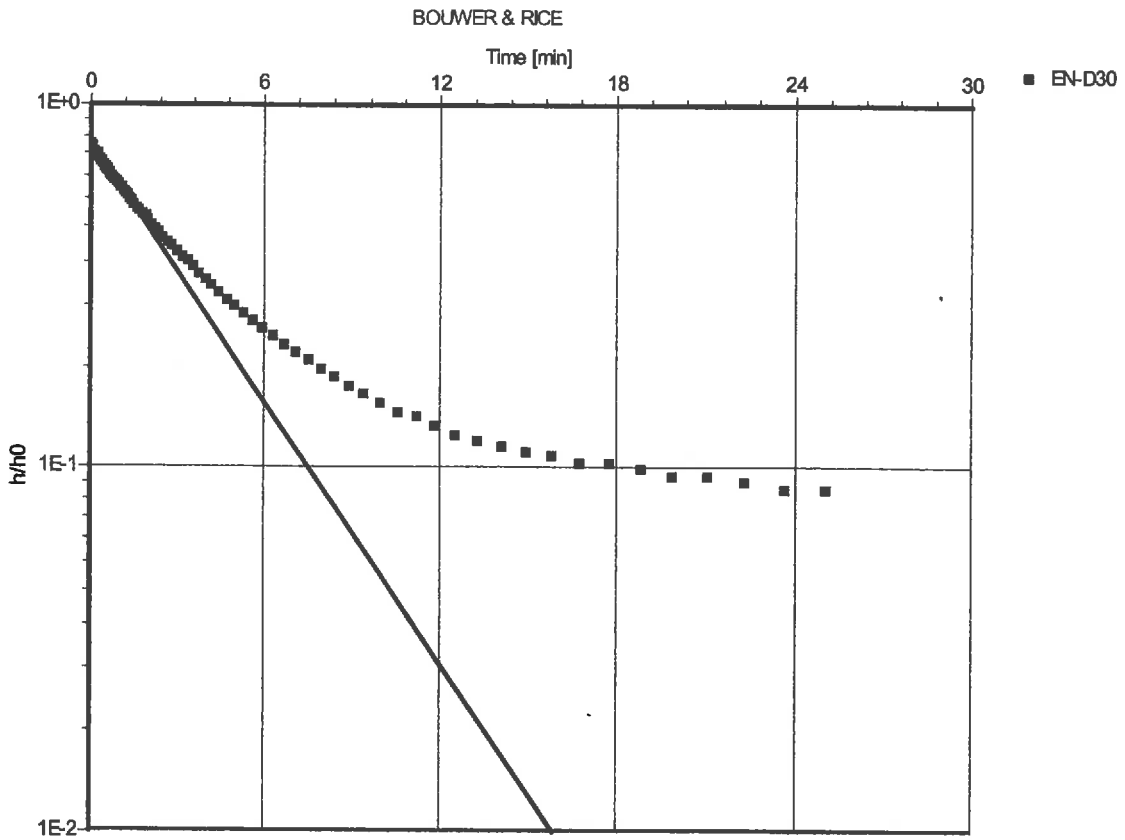


Conductivity: 4.81×10^+1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation

Location: Endicott, New York	Slug test: EN-D30	Test well: EN-D30

Test performed by: SMF Test date: 12/21/2003	Evaluated by: SMF Evaluation date: 12/22/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 69.83

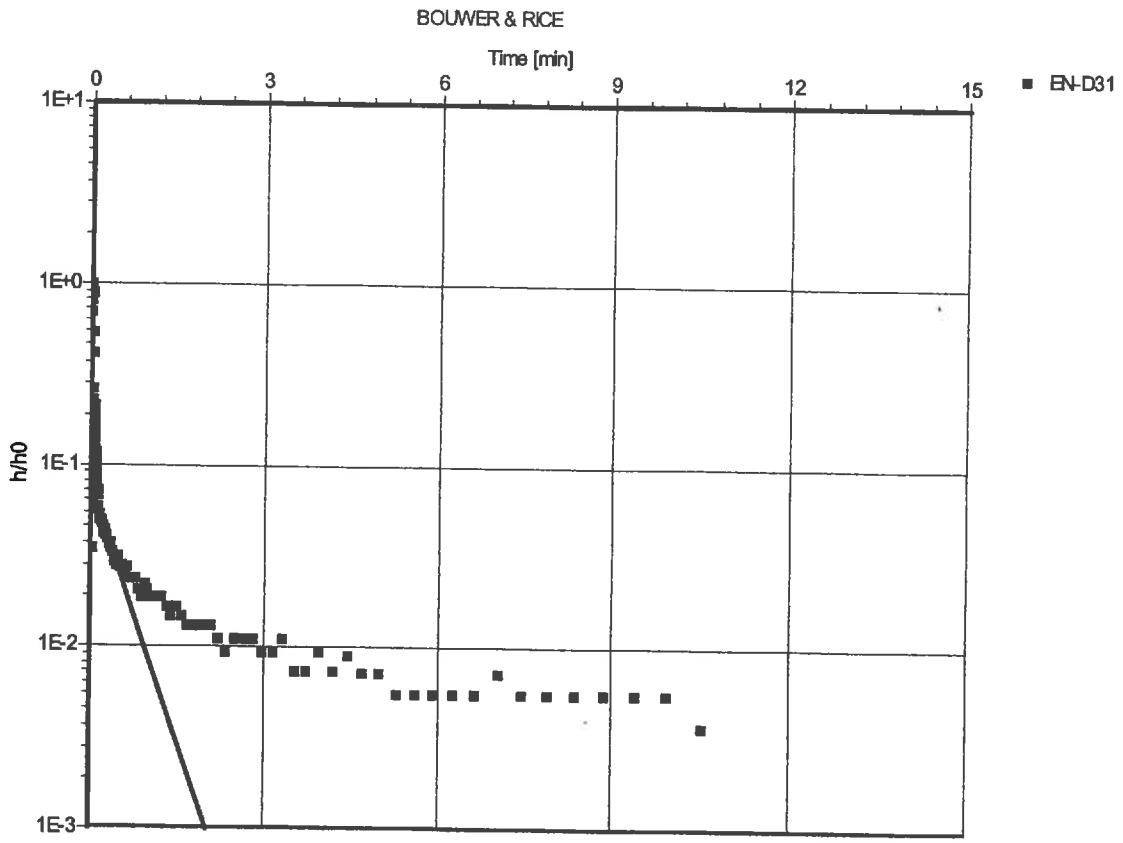


Conductivity: 3.74×10^-1 [ft/d]

Groundwater Sciences Corp. 2601 Market Place St., Suite 310 Harrisburg, Pennsylvania 17110 Phone: (717) 652-6832	**Slug test analysis** No: 02007.33.0301 Project: IBM Endicott SGA Client: IBM Corporation	

Location: Endicott, New York	Slug test: EN-D31	Test well: EN-D31

Test performed by: SMF Test date: 12/21/2003	Evaluated by: SMF Evaluation date: 12/22/2003
Analysis method: BOUWER & RICE	Aquifer thickness: 82.7



Conductivity: 3.21×10^+0 [ft/d]

APPENDIX B-6

Groundwater Elevation Tables

March 9, 2003
August 10, 2003
September 29, 2003
November 2-3, 2003
December 14-16, 2003

2003 Groundwater Elevation Schedule
Endicott, New York

Date:	Mar-03	Aug-03	Sep-03	Nov-03	Dec-03
Well					
DOT-1	X	X		X	X
DOT-2	X	X		X	X
DOT-3	X	X		X	X
DOT-4	X	X		X	X
EN-002	X	X		X	X
EN-006	X	X		X	X
EN-012	X	X		X	X
EN-013	X	X		X	X
EN-014	X	X		X	X
EN-015	X	X		X	X
EN-016	X	X		X	X
EN-017	X	X		X	X
EN-018	X	X		X	X
EN-019	X	X		X	X
EN-020	X	X		X	X
EN-021	X	X		X	X
EN-022	X	X	X	X	X
EN-023	X	X		X	X
EN-024	X	X			X
EN-025	X	X			
EN-026	X	X		X	X
EN-029A	X	X		X	X
EN-030	X	X		X	X
EN-034	X	X		X	X
EN-035	X	X		X	X
EN-036	X	X		X	X
EN-037	X	X		X	X
EN-038	X	X			
EN-039	X	X		X	X
EN-040	X	X		X	X
EN-041	X	X		X	X
EN-042	X	X		X	X
EN-043	X	X		X	X
EN-044	X	X		X	X
EN-045	X	X		X	X
EN-046	X	X		X	X
EN-047	X	X		X	X
EN-048	X	X		X	X
EN-049	X	X		X	X
EN-051	X	X		X	X
EN-052	X	X		X	X
EN-053	X	X		X	X
EN-054	X	X		X	X
EN-055	X	X		X	X
EN-056	X	X		X	X
EN-058	X	X		X	X
EN-059	X	X		X	X
EN-060	X	X		X	X
EN-061	X	X		X	X
EN-062	X	X		X	X
EN-063	X	X		X	
EN-064	X	X		X	X
EN-065	X	X	X	X	X
EN-066	X	X		X	X

2003 Groundwater Elevation Schedule
Endicott, New York

Date:	Mar-03	Aug-03	Sep-03	Nov-03	Dec-03
Well					
EN-067	X	X		X	X
EN-069	X	X		X	X
EN-070	X	X		X	X
EN-072	X	X		X	X
EN-073	X	X		X	X
EN-074	X	X		X	X
EN-075	X	X		X	X
EN-076	X	X		X	X
EN-077	X	X		X	X
EN-078	X	X		X	X
EN-079	X	X		X	X
EN-080	X	X		X	
EN-081	X	X		X	X
EN-083	X	X		X	X
EN-084	X	X		X	X
EN-086	X	X	X	X	X
EN-087	X	X	X	X	X
EN-089	X	X			X
EN-091	X	X		X	X
EN-092	X	X		X	X
EN-093	X	X		X	X
EN-094	X	X		X	X
EN-095	X	X		X	X
EN-096	X	X		X	X
EN-097	X	X		X	X
EN-098	X	X		X	X
EN-099	X	X		X	X
EN-100	X	X		X	X
EN-102	X	X		X	X
EN-103	X	X		X	
EN-104	X	X		X	X
EN-105	X	X		X	X
EN-106	X	X		X	X
EN-107	X	X		X	X
EN-108	X	X	X	X	X
EN-109	X	X	X	X	X
EN-111	X	X		X	X
EN-112	X	X		X	X
EN-113	X	X		X	X
EN-114	X	X		X	X
EN-117	X	X		X	X
EN-118	X	X		X	X
EN-120	X	X		X	X
EN-121	X	X			
EN-122	X	X		X	X
EN-123	X	X		X	X
EN-125	X	X		X	X
EN-126	X	X		X	X
EN-127	X	X		X	
EN-129	X	X	X	X	
EN-130	X	X		X	
EN-131	X	X	X	X	X
EN-132	X	X		X	X
EN-133	X	X		X	X

2003 Groundwater Elevation Schedule
Endicott, New York

Date:	Mar-03	Aug-03	Sep-03	Nov-03	Dec-03
Well					
EN-146	X	X		X	X
EN-148	X	X		X	X
EN-149	X	X		X	X
EN-150	X	X		X	X
EN-151	X	X		X	X
EN-152	X	X		X	X
EN-153	X	X			X
EN-154	X	X			
EN-156	X	X	X	X	X
EN-157	X	X	X	X	X
EN-158	X	X	X	X	X
EN-160	X	X		X	X
EN-161	X	X	X	X	X
EN-162	X	X	X	X	X
EN-163	X	X	X	X	X
EN-164	X	X		X	X
EN-165	X	X		X	X
EN-166	X	X		X	X
EN-167	X	X		X	X
EN-170	X	X		X	X
EN-173	X	X		X	X
EN-174	X	X			
EN-175	X	X			X
EN-176	X	X		X	X
EN-177	X	X		X	X
EN-178	X	X	X	X	X
EN-179	X	X	X	X	
EN-180		X	X	X	
EN-182	X	X		X	X
EN-183	X	X		X	X
EN-184	X	X		X	X
EN-185				X	X
EN-186	X	X		X	X
EN-187	X	X		X	X
EN-188	X	X		X	X
EN-189	X	X		X	X
EN-190	X	X		X	X
EN-191	X	X			X
EN-192	X	X		X	X
EN-193	X	X		X	X
EN-194	X	X			X
EN-195	X	X		X	X
EN-196	X	X		X	X
EN-197	X	X		X	X
EN-200	X	X		X	X
EN-201	X	X	X	X	X
EN-202	X	X		X	X
EN-203	X	X		X	X
EN-204	X	X	X	X	X
EN-206	X	X	X	X	X
EN-206T					
EN-207	X	X	X	X	X
EN-208A		X	X	X	
EN-210	X	X	X	X	X

2003 Groundwater Elevation Schedule
Endicott, New York

Date:	Mar-03	Aug-03	Sep-03	Nov-03	Dec-03
Well					
EN-211	X	X		X	X
EN-213A		X	X	X	X
EN-214A		X	X	X	X
EN-214B		X	X	X	X
EN-214C					
EN-214T					
EN-215	X	X	X	X	X
EN-217A		X	X	X	X
EN-218	X	X		X	
EN-219	X	X			X
EN-220	X	X	X	X	X
EN-221	X	X	X	X	X
EN-222	X	X		X	X
EN-253				X	X
EN-276	X	X		X	X
EN-277	X	X		X	X
EN-278	X	X		X	X
EN-279	X	X		X	X
EN-281	X	X		X	X
EN-282	X	X		X	X
EN-283	X	X		X	X
EN-284	X	X		X	X
EN-284TD					
EN-284TS					
EN-300A				X	
EN-300B				X	
EN-301					X
EN-302				X	
EN-303A			X	X	X
EN-303B			X	X	X
EN-304			X	X	
EN-305			X	X	
EN-306A			X	X	X
EN-306B			X	X	X
EN-307		X	X	X	
EN-308		X	X	X	
EN-309A		X	X	X	
EN-309B		X	X	X	
EN-309C		X	X	X	
EN-310			X	X	X
EN-311			X	X	X
EN-400A			X	X	
EN-400B			X	X	
EN-401			X	X	X
EN-402			X	X	
EN-403			X	X	
EN-404			X	X	
EN-405			X	X	
EN-406			X	X	
EN-407A			X	X	
EN-407B			X	X	
EN-408			X	X	
EN-409			X	X	
EN-410			X	X	X

2003 Groundwater Elevation Schedule
Endicott, New York

Date:	Mar-03	Aug-03	Sep-03	Nov-03	Dec-03
Well					
EN-411			X	X	
EN-412A			X	X	X
EN-412B			X	X	X
EN-413			X		
EN-414			X	X	
EN-415			X	X	X
EN-416A			X	X	
EN-416B			X	X	
EN-417A			X	X	
EN-417B			X	X	
EN-417C			X	X	
EN-418			X	X	
EN-419				X	X
EN-421				X	X
EN-422				X	X
EN-426				X	
EN-427				X	
EN-CAF	X	X			X
EN-D01	X	X		X	X
EN-D02	X	X		X	X
EN-D03	X	X		X	X
EN-D04	X	X		X	X
EN-D04S	X	X		X	X
EN-D05	X	X		X	X
EN-D05S	X	X		X	X
EN-D06	X	X		X	X
EN-D07	X	X		X	X
EN-D08	X	X		X	X
EN-D09	X	X		X	X
EN-D10	X	X		X	X
EN-D11	X	X		X	X
EN-D12	X	X		X	X
EN-D13	X	X			X
EN-D14	X	X			X
EN-D30				X	
EN-D31				X	X
EN-D32				X	

Key:

X : groundwater elevation measured

Supplemental Groundwater Assessment
Groundwater Elevation Data
March 9, 2003

Well ID	TOC Elev.	DTW	GWE
DOT-1	849.14	17.81	831.33
DOT-2	848.57	17.56	831.01
DOT-3	848.73	18.26	830.47
DOT-4	848.61	18.07	830.54
EN-002	842.54	12.86	829.68
EN-006	852.34	31.67	820.67
EN-012	851.86	21.14	830.72
EN-013	851.93	21.21	830.72
EN-014	852.00	21.31	830.69
EN-015	851.81	21.75	830.06
EN-016	852.22	22.43	829.79
EN-017	852.15	22.48	829.67
EN-018	851.45	21.67	829.78
EN-019	852.34	22.31	830.03
EN-020	851.30	20.82	830.48
EN-021	847.84	17.07	830.77
EN-022	844.48	Dry	<820.6
EN-023	850.37	20.82	829.55
EN-024	852.01	24.59	827.42
EN-025	838.64	9.95	828.69
EN-026	840.96	11.77	829.19
EN-029A	850.40	29.84	820.56
EN-030	853.18	22.01	831.17
EN-034	841.49	10.62	830.87
EN-035	854.22	24.60	829.62
EN-036	852.97	23.03	829.94
EN-037	839.97	9.07	830.90
EN-038	838.40	12.07	826.33
EN-039	841.21	10.76	830.45
EN-040	837.81	6.80	831.01
EN-041	837.58	6.54	831.04
EN-042	837.45	6.44	831.01
EN-043	837.84	7.43	830.41
EN-044	837.11	6.10	831.01
EN-045	836.94	5.92	831.02
EN-046	837.60	6.77	830.83
EN-047	837.48	6.70	830.78
EN-048	837.54	6.75	830.79
EN-049	837.49	6.69	830.80
EN-051	839.65	9.06	830.59
EN-052	839.44	8.72	830.72
EN-053	837.86	7.01	830.85
EN-054	851.49	27.40	824.09
EN-055	841.46	10.71	830.75
EN-056	844.07	12.99	831.08
EN-058	845.75	14.84	830.91
EN-059	833.67	13.66	820.01
EN-060	842.06	22.91	819.15
EN-061	838.09	16.76	821.33
EN-062	840.96	20.89	820.07
EN-063	837.88	13.34	824.54

Supplemental Groundwater Assessment
Groundwater Elevation Data
March 9, 2003

Well ID	TOC Elev.	DTW	GWE
EN-064	842.53	19.67	822.86
EN-065	854.92	24.95	829.97
EN-066	839.70	19.70	820.00
EN-067	837.85	16.12	821.73
EN-069	839.14	11.79	827.35
EN-070	841.66	14.11	827.55
EN-072	838.45	9.39	829.06
EN-073	839.74	10.30	829.44
EN-074	851.59	21.71	829.88
EN-075	851.20	20.80	830.40
EN-076	853.06	25.95	827.11
EN-077	854.25	26.71	827.54
EN-078	852.16	24.46	827.70
EN-079	848.15	27.18	820.97
EN-080	847.86	19.93	827.93
EN-081	850.03	19.52	830.51
EN-083	845.78	8.42	837.36
EN-084	851.75	10.21	841.54
EN-086	844.31	9.43	834.88
EN-087	846.42	15.02	831.40
EN-089	845.48	4.58	840.90
EN-091	847.61	28.08	819.53
EN-092	850.53	30.20	820.33
EN-093	848.68	28.69	819.99
EN-094	848.61	30.20	818.41
EN-095	846.08	27.59	818.49
EN-096	838.65	20.54	818.11
EN-097	840.37	10.02	830.35
EN-098	839.05	10.06	828.99
EN-099	848.66	28.69	819.97
EN-100	848.88	29.02	819.86
EN-102	849.88	30.46	819.42
EN-103	836.88	18.62	818.26
EN-104	840.27	22.17	818.10
EN-105	834.60	6.52	828.08
EN-106	853.89	23.03	830.86
EN-107	840.08	15.23	824.85
EN-108	843.35	10.40	832.95
EN-109	843.36	10.41	832.95
EN-111	841.24	12.28	828.96
EN-112	841.65	12.62	829.03
EN-113	842.02	11.49	830.53
EN-114	836.40	6.71	829.69
EN-117	842.78	13.15	829.63
EN-118	842.19	16.78	825.41
EN-120	848.23	31.22	817.01
EN-121	837.09	9.09	828.00
EN-122	836.39	8.77	827.62
EN-123	835.41	10.10	825.31
EN-125	845.47	26.44	819.03
EN-126	843.71	24.44	819.27

Supplemental Groundwater Assessment
Groundwater Elevation Data
March 9, 2003

Well ID	TOC Elev.	DTW	GWE
EN-127	844.61	13.86	830.75
EN-129	846.74	15.62	831.12
EN-130	850.12	20.05	830.07
EN-131	862.22	40.77	821.45
EN-132	848.20	30.39	817.81
EN-133	846.95	29.99	816.96
EN-146	837.49	8.23	829.26
EN-148	851.61	21.10	830.51
EN-149	841.06	22.98	818.08
EN-150	841.04	22.92	818.12
EN-151	838.74	20.13	818.61
EN-152	838.74	20.13	818.61
EN-153	838.21	19.17	819.04
EN-154	830.43	20.99	809.44
EN-156	840.98	10.41	830.57
EN-157	840.89	10.59	830.30
EN-158	855.67	25.46	830.21
EN-160	848.82	31.24	817.58
EN-161	847.17	26.66	820.51
EN-162	856.48	36.09	820.39
EN-163	860.31	39.21	821.10
EN-164	842.10	Dry	<825.2
EN-165	838.31	18.06	820.25
EN-166	837.32	13.60	823.72
EN-167	835.48	9.40	826.08
EN-170	847.08	26.23	820.85
EN-173	846.08	23.74	822.34
EN-174	855.83	28.22	827.61
EN-175	839.38	23.81	815.57
EN-176	842.88	22.80	820.08
EN-177	841.88	15.96	825.92
EN-178	854.18	38.77	815.41
EN-179	831.57	20.56	811.01
EN-180	831.21	NM	NM
EN-182	847.90	26.93	820.97
EN-183	846.97	26.12	820.85
EN-184	846.44	10.47	835.97
EN-185	847.68	NM	NM
EN-186	851.62	21.71	829.91
EN-187	851.66	20.83	830.83
EN-188	848.13	17.94	830.19
EN-189	851.00	20.65	830.35
EN-190	851.76	31.94	819.82
EN-191	850.78	30.79	819.99
EN-192	850.71	30.43	820.28
EN-193	848.28	28.21	820.07
EN-194	840.50	24.76	815.74
EN-195	836.95	20.89	816.06
EN-196	851.94	9.08	842.86
EN-197	850.44	12.20	838.24
EN-200	850.27	17.61	832.66

Supplemental Groundwater Assessment
Groundwater Elevation Data
March 9, 2003

Well ID	TOC Elev.	DTW	GWE
EN-201	849.46	10.81	838.65
EN-202	848.44	29.76	818.68
EN-203	846.10	25.93	820.17
EN-204	856.44	36.42	820.02
EN-206	859.47	40.22	819.25
EN-207	854.92	43.61	811.31
EN-210	850.67	41.18	809.49
EN-211	837.73	10.36	827.37
EN-215	850.59	30.52	820.07
EN-218	837.32	11.96	825.36
EN-219	845.23	17.71	827.52
EN-220	844.95	8.50	836.45
EN-221	845.23	7.40	837.83
EN-222	848.08	27.98	820.10
EN-253	844.32	NM	NM
EN-276	852.29	22.95	829.34
EN-277	852.36	24.89	827.47
EN-278	850.75	27.94	822.81
EN-279	850.30	27.56	822.74
EN-281	850.92	23.03	827.89
EN-282	850.81	22.88	827.93
EN-283	850.73	27.84	822.89
EN-284	850.72	27.82	822.90
EN-CAF	843.88	48.42	795.46
EN-D01	841.58	32.99	808.59
EN-D02	844.84	37.87	806.97
EN-D03	843.26	36.60	806.66
EN-D04	854.87	49.99	804.88
EN-D04S	854.60	50.05	804.55
EN-D05	834.51	27.67	806.84
EN-D05S	834.30	27.47	806.83
EN-D06	852.94	43.03	809.91
EN-D07	848.03	37.71	810.32
EN-D08	853.87	32.37	821.50
EN-D09	854.64	55.06	799.58
EN-D10	849.53	39.14	810.39
EN-D11	852.51	56.04	796.47
EN-D12	854.05	42.02	812.03
EN-D13	845.31	18.43	826.88
EN-D14	846.22	20.55	825.67

TOC Elev. = Top of Casing Elevation (feet amsl)
DTW = Depth to Water (feet from TOC)
GWE = Groundwater Elevation (feet amsl)
NM = Not measured or not accessible

Supplemental Groundwater Assessment
Groundwater Elevation Data
August 10, 2003

Well ID	TOC Elev.	DTW	GWE
DOT-1	849.14	16.90	832.24
DOT-2	848.57	17.12	831.45
DOT-3	848.73	17.42	831.31
DOT-4	848.61	17.35	831.26
EN-002	842.54	13.12	829.42
EN-006	852.34	30.33	822.01
EN-012	851.86	21.13	830.73
EN-013	851.93	21.28	830.65
EN-014	852.00	21.47	830.53
EN-015	851.81	22.17	829.64
EN-016	852.22	22.96	829.26
EN-017	852.15	22.72	829.43
EN-018	851.45	22.01	829.44
EN-019	852.34	22.31	830.03
EN-020	851.30	20.70	830.60
EN-021	847.84	16.92	830.92
EN-022	844.48	22.72	821.76
EN-023	850.37	20.21	830.16
EN-024	852.01	24.68	827.33
EN-025	838.64	9.87	828.77
EN-026	840.96	12.12	828.84
EN-029A	850.40	28.14	822.26
EN-030	853.18	21.04	832.14
EN-034	841.49	10.84	830.65
EN-035	854.22	24.12	830.10
EN-036	852.97	22.46	830.51
EN-037	839.97	9.23	830.74
EN-038	838.40	11.89	826.51
EN-039	841.21	11.00	830.21
EN-040	837.81	7.56	830.25
EN-041	837.58	7.24	830.34
EN-042	837.45	7.09	830.36
EN-043	837.84	7.56	830.28
EN-044	837.11	6.71	830.40
EN-045	836.94	6.47	830.47
EN-046	837.60	7.17	830.43
EN-047	837.48	7.00	830.48
EN-048	837.54	7.00	830.54
EN-049	837.49	7.02	830.47
EN-051	839.65	9.44	830.21
EN-052	839.44	9.06	830.38
EN-053	837.86	7.24	830.62
EN-054	851.49	21.44	830.05
EN-055	841.46	10.99	830.47
EN-056	844.07	12.99	831.08
EN-058	845.75	14.93	830.82
EN-059	833.67	14.24	819.43
EN-060	842.06	21.01	821.05
EN-061	838.09	16.57	821.52
EN-062	840.96	17.59	823.37
EN-063	837.88	18.24	819.64
EN-064	842.53	19.48	823.05
EN-065	854.92	24.21	830.71

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Well ID	TOC Elev.	DTW	GWE
EN-066	839.70	19.58	820.12
EN-067	837.85	14.99	822.86
EN-069	839.14	11.95	827.19
EN-070	841.66	13.68	827.98
EN-072	838.45	9.72	828.73
EN-073	839.74	10.52	829.22
EN-074	851.59	21.98	829.61
EN-075	851.20	21.05	830.15
EN-076	853.06	25.52	827.54
EN-077	854.25	25.82	828.43
EN-078	852.16	24.03	828.13
EN-079	848.15	25.62	822.53
EN-080	847.86	19.40	828.46
EN-081	850.03	18.87	831.16
EN-083	845.78	8.41	837.37
EN-084	851.75	10.55	841.20
EN-086	844.31	9.96	834.35
EN-087	846.42	13.66	832.76
EN-089	845.48	4.51	840.97
EN-091	847.61	26.24	821.37
EN-092	850.53	28.52	822.01
EN-093	848.68	26.86	821.82
EN-094	848.61	28.27	820.34
EN-095	846.08	25.77	820.31
EN-096	838.65	18.72	819.93
EN-097	840.37	10.77	829.60
EN-098	839.05	9.70	829.35
EN-099	848.66	26.84	821.82
EN-100	848.88	27.18	821.70
EN-102	849.88	28.61	821.27
EN-103	836.88	16.92	819.96
EN-104	840.27	20.37	819.90
EN-105	834.60	6.23	828.37
EN-106	853.89	23.10	830.79
EN-107	840.08	14.97	825.11
EN-108	843.35	9.83	833.52
EN-109	843.36	9.60	833.76
EN-111	841.24	12.50	828.74
EN-112	841.65	12.60	829.05
EN-113	842.02	12.88	829.14
EN-114	836.40	6.84	829.56
EN-117	842.78	13.30	829.48
EN-118	842.19	16.73	825.46
EN-119	842.81	16.92	825.89
EN-120	848.23	30.52	817.71
EN-121	837.09	9.25	827.84
EN-122	836.39	8.87	827.52
EN-123	835.41	10.23	825.18
EN-125	845.47	24.55	820.92
EN-126	843.71	22.57	821.14
EN-127	844.61	13.22	831.39
EN-129	846.74	13.41	833.33
EN-130	850.12	19.73	830.39

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Well ID	TOC Elev.	DTW	GWE
EN-131	862.22	39.47	822.75
EN-132	848.20	28.21	819.99
EN-133	846.95	29.41	817.54
EN-146	837.49	9.36	828.13
EN-148	851.61	20.86	830.75
EN-149	841.06	21.18	819.88
EN-150	841.04	21.32	819.72
EN-151	838.74	18.37	820.37
EN-152	838.74	18.40	820.34
EN-153	838.21	18.76	819.45
EN-154	830.43	20.23	810.20
EN-156	840.98	9.62	831.36
EN-157	840.89	9.81	831.08
EN-158	855.67	24.78	830.89
EN-160	848.82	30.76	818.06
EN-161	847.17	25.17	822.00
EN-162	856.48	34.69	821.79
EN-163	860.31	37.93	822.38
EN-164	842.10	19.56	822.54
EN-165	838.31	16.68	821.63
EN-166	837.32	12.97	824.35
EN-167	835.48	9.25	826.23
EN-170	847.08	24.67	822.41
EN-173	846.08	22.11	823.97
EN-174	855.83	28.05	827.78
EN-175	839.38	22.93	816.45
EN-176	842.88	21.26	821.62
EN-177	841.88	15.28	826.60
EN-178	854.18	38.20	815.98
EN-179	831.57	20.70	810.87
EN-180	831.21	27.12	804.09
EN-182	847.90	24.50	823.40
EN-183	846.97	25.36	821.61
EN-184	846.44	10.30	836.14
EN-185	847.68	NM	NM
EN-186	851.62	21.90	829.72
EN-187	851.66	20.91	830.75
EN-188	848.13	17.98	830.15
EN-189	851.00	20.55	830.45
EN-190	851.76	29.81	821.95
EN-191	850.78	29.01	821.77
EN-192	850.71	28.85	821.86
EN-193	848.28	26.50	821.78
EN-194	840.50	24.18	816.32
EN-195	836.95	20.35	816.60
EN-196	851.94	10.20	841.74
EN-197	850.44	11.78	838.66
EN-200	850.27	17.79	832.48
EN-201	849.46	11.16	838.30
EN-202	848.44	27.86	820.58
EN-203	846.10	24.20	821.90
EN-204	856.44	34.90	821.54
EN-206	859.47	38.94	820.53

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Well ID	TOC Elev.	DTW	GWE
EN-207	854.92	42.96	811.96
EN-208A	851.64	33.03	818.61
EN-210	850.67	40.44	810.23
EN-211	837.73	10.40	827.33
EN-213A	853.94	33.65	820.29
EN-214A	846.40	24.51	821.89
EN-214B	846.46	24.67	821.79
EN-215	850.59	28.79	821.80
EN-217A	857.13	36.12	821.01
EN-218	837.32	11.52	825.80
EN-219	845.23	16.92	828.31
EN-220	844.95	8.62	836.33
EN-221	845.23	7.51	837.72
EN-222	848.08	27.08	821.00
EN-253	844.32	NM	NM
EN-276	852.29	22.87	829.42
EN-277	852.36	24.81	827.55
EN-278	850.75	26.68	824.07
EN-279	850.30	26.30	824.00
EN-281	850.92	22.52	828.40
EN-282	850.81	22.44	828.37
EN-283	850.73	26.57	824.16
EN-284	850.72	26.54	824.18
EN-307	844.37	22.57	821.80
EN-308	837.99	32.49	805.50
EN-309A	832.28	27.23	805.05
EN-309B	832.49	27.58	804.91
EN-309C	832.10	27.19	804.91
EN-CAF	843.88	47.63	796.25
EN-D01	841.58	33.36	808.22
EN-D02	844.84	38.95	805.89
EN-D03	843.26	36.95	806.31
EN-D04	854.87	54.53	800.34
EN-D04S	854.60	56.02	798.58
EN-D05	834.51	28.67	805.84
EN-D05S	834.30	28.76	805.54
EN-D06	852.94	42.28	810.66
EN-D07	848.03	38.69	809.34
EN-D08	853.87	32.94	820.93
EN-D09	854.64	53.53	801.11
EN-D10	849.53	41.12	808.41
EN-D11	852.51	54.77	797.74
EN-D12	854.05	41.17	812.88
EN-D13	845.31	18.89	826.42
EN-D14	846.22	19.14	827.08

TOC Elev. = Top of Casing Elevation (feet amsl)
DTW = Depth to Water (feet from TOC)
GWE = Groundwater Elevation (feet amsl)
NM = Not measured or not accessible

Supplemental Groundwater Assessment
Groundwater Elevation Data
September 29, 2003

Well ID	TOC Elev.	DTW	GWE
EN-022	844.48	22.45	822.03
EN-065	854.92	24.43	830.49
EN-086	844.31	9.81	834.50
EN-087	846.42	13.94	832.48
EN-108	843.35	9.93	833.42
EN-109	843.36	9.75	833.61
EN-129	846.74	13.60	833.14
EN-131	862.22	39.84	822.38
EN-156	840.98	9.75	831.23
EN-157	840.89	9.98	830.91
EN-158	855.67	24.93	830.74
EN-161	847.17	25.15	822.02
EN-162	856.48	34.77	821.71
EN-163	860.31	38.05	822.26
EN-178	854.18	38.02	816.16
EN-179	831.57	20.61	810.96
EN-180	831.21	26.77	804.44
EN-201	849.46	10.90	838.56
EN-204	856.44	34.83	821.61
EN-206	859.47	39.03	820.44
EN-207	854.92	42.76	812.16
EN-208A	851.64	33.26	818.38
EN-210	850.67	40.42	810.25
EN-213A	853.94	33.75	820.19
EN-214A	846.40	24.60	821.80
EN-214B	846.46	24.69	821.77
EN-215	850.59	28.70	821.89
EN-217A	857.13	36.14	820.99
EN-220	844.95	8.37	836.58
EN-221	845.23	7.54	837.69
EN-303A	842.93	9.82	833.11
EN-303B	843.68	11.30	832.38
EN-304	849.63	17.63	832.00
EN-305	847.33	15.47	831.86
EN-306A	838.20	7.08	831.12
EN-306B	838.24	7.12	831.12
EN-307	844.37	22.64	821.73
EN-308	837.99	32.10	805.89
EN-309A	832.28	26.88	805.40
EN-309B	832.49	27.22	805.27
EN-309C	832.10	26.83	805.27
EN-310	845.75	>27.75	<818.0
EN-311	849.38	43.62	805.76
EN-400A	855.18	24.60	830.58
EN-400B	854.94	24.30	830.64
EN-401	851.79	35.33	816.46
EN-402	851.24	37.09	814.15
EN-403	854.97	36.62	818.35
EN-404	848.43	30.28	818.15
EN-405	861.46	>35.5	<826.0
EN-406	861.21	35.56	825.65

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Well ID	TOC Elev.	DTW	GWE
EN-407A	850.72	19.60	831.12
EN-407B	850.72	19.58	831.14
EN-408	854.56	23.14	831.42
EN-409	843.62	9.38	834.24
EN-410	843.22	5.75	837.47
EN-411	843.11	5.12	837.99
EN-412A	836.12	5.09	831.03
EN-412B	835.65	4.71	830.94
EN-413	861.29	39.77	821.52
EN-414	859.73	37.90	821.83
EN-415	858.92	37.25	821.67
EN-416A	842.94	11.60	831.34
EN-416B	842.84	11.49	831.35
EN-417A	840.60	9.21	831.39
EN-417B	840.90	9.81	831.09
EN-417C	840.62	9.23	831.39
EN-418	841.95	21.51	820.44

TOC Elev. = Top of Casing Elevation (feet amsl)
DTW = Depth to Water (feet from TOC)
GWE = Groundwater Elevation (feet amsl)

Supplemental Groundwater Assessment
Groundwater Elevation Data
November 2-3, 2003

Well ID	TOC Elev.	DTW	GWE
DOT-1	849.14	17.31	831.83
DOT-2	848.57	17.47	831.10
DOT-3	848.73	17.68	831.05
DOT-4	848.61	17.62	830.99
EN-002	842.54	12.72	829.82
EN-006	852.34	29.84	822.50
EN-012	851.86	11.83	840.03
EN-013	851.93	20.97	830.96
EN-014	852.00	21.12	830.88
EN-015	851.81	21.55	830.26
EN-016	852.22	22.48	829.74
EN-017	852.15	22.36	829.79
EN-018	851.45	21.66	829.79
EN-019	852.34	22.51	829.83
EN-020	851.30	20.78	830.52
EN-021	847.84	16.89	830.95
EN-022	844.48	22.43	822.05
EN-023	850.37	20.61	829.76
EN-024	852.01	NM	NM
EN-025	838.64	NM	NM
EN-026	840.96	11.61	829.35
EN-029A	850.40	30.78	819.62
EN-030	853.18	21.11	832.07
EN-034	841.49	10.19	831.30
EN-035	854.22	24.45	829.77
EN-036	852.97	22.81	830.16
EN-037	839.97	8.30	831.67
EN-038	838.40	NM	NM
EN-039	841.21	10.38	830.83
EN-040	837.81	6.96	830.85
EN-041	837.58	6.71	830.87
EN-042	837.45	6.58	830.87
EN-043	837.84	7.04	830.80
EN-044	837.11	6.19	830.92
EN-045	836.94	6.02	830.92
EN-046	837.60	6.60	831.00
EN-047	837.48	6.40	831.08
EN-048	837.54	6.43	831.11
EN-049	837.49	6.38	831.11
EN-051	839.65	9.06	830.59
EN-052	839.44	8.57	830.87
EN-053	837.86	6.45	831.41
EN-054	851.49	21.12	830.37
EN-055	841.46	10.80	830.66
EN-056	844.07	12.08	831.99
EN-058	845.75	13.99	831.76
EN-059	833.67	12.32	821.35
EN-060	842.06	10.76	831.30
EN-061	838.09	16.69	821.40
EN-062	840.96	18.97	821.99
EN-063	837.88	17.94	819.94
EN-064	842.53	19.50	823.03
EN-065	854.92	24.42	830.50
EN-066	839.70	18.33	821.37

Supplemental Groundwater Assessment
Groundwater Elevation Data
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Well ID	TOC Elev.	DTW	GWE
EN-067	837.85	17.72	820.13
EN-069	839.14	11.54	827.60
EN-070	841.66	13.46	828.20
EN-072	838.45	9.28	829.17
EN-073	839.74	10.18	829.56
EN-074	851.59	21.57	830.02
EN-075	851.20	20.78	830.42
EN-076	853.06	25.93	827.13
EN-077	854.25	26.18	828.07
EN-078	852.16	24.35	827.81
EN-079	848.15	25.71	822.44
EN-080	847.86	19.73	828.13
EN-081	850.03	19.28	830.75
EN-083	845.78	7.72	838.06
EN-084	851.75	10.08	841.67
EN-086	844.31	8.83	835.48
EN-087	846.42	13.86	832.56
EN-089	845.48	NM	NM
EN-091	847.61	25.92	821.69
EN-092	850.53	28.33	822.20
EN-093	848.68	26.56	822.12
EN-094	848.61	27.46	821.15
EN-095	846.08	26.01	820.07
EN-096	838.65	19.42	819.23
EN-097	840.37	10.11	830.26
EN-098	839.05	9.11	829.94
EN-099	848.66	26.53	822.13
EN-100	848.88	26.86	822.02
EN-102	849.88	27.75	822.13
EN-103	836.88	17.22	819.66
EN-104	840.27	20.67	819.60
EN-105	834.60	5.78	828.82
EN-106	853.89	22.42	831.47
EN-107	840.08	17.24	822.84
EN-108	843.35	9.62	833.73
EN-109	843.36	9.58	833.78
EN-111	841.24	12.46	828.78
EN-112	841.65	12.26	829.39
EN-113	842.02	12.25	829.77
EN-114	836.40	6.51	829.89
EN-117	842.78	12.82	829.96
EN-118	842.19	11.80	830.39
EN-120	848.23	28.98	819.25
EN-121	837.09	NM	NM
EN-122	836.39	8.54	827.85
EN-123	835.41	9.72	825.69
EN-125	845.47	24.05	821.42
EN-126	843.71	22.21	821.50
EN-127	844.61	13.66	830.95
EN-129	846.74	14.03	832.71
EN-130	850.12	19.99	830.13
EN-131	862.22	39.98	822.24
EN-132	848.20	27.00	821.20
EN-133	846.95	25.72	821.23

Supplemental Groundwater Assessment
Groundwater Elevation Data
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Well ID	TOC Elev.	DTW	GWE
EN-146	837.49	8.99	828.50
EN-148	851.61	20.82	830.79
EN-149	841.06	21.79	819.27
EN-150	841.04	21.71	819.33
EN-151	838.74	18.92	819.82
EN-152	838.74	18.93	819.81
EN-153	838.21	NM	NM
EN-154	830.43	NM	NM
EN-156	840.98	10.12	830.86
EN-157	840.89	9.88	831.01
EN-158	855.67	24.82	830.85
EN-160	848.82	26.70	822.12
EN-161	847.17	24.98	822.19
EN-162	856.48	34.70	821.78
EN-163	860.31	38.02	822.29
EN-164	842.10	19.54	822.56
EN-165	838.31	16.73	821.58
EN-166	837.32	12.76	824.56
EN-167	835.48	8.84	826.64
EN-170	847.08	24.44	822.64
EN-173	846.08	22.24	823.84
EN-174	855.83	NM	NM
EN-175	839.38	NM	NM
EN-176	842.88	21.38	821.50
EN-177	841.88	15.28	826.60
EN-178	854.18	38.10	816.08
EN-179	831.57	20.08	811.49
EN-180	831.21	21.70	809.51
EN-182	847.90	25.08	822.82
EN-183	846.97	24.04	822.93
EN-184	846.44	9.80	836.64
EN-185	847.68	24.74	822.94
EN-186	851.62	21.49	830.13
EN-187	851.66	20.68	830.98
EN-188	848.13	18.98	829.15
EN-189	851.00	20.48	830.52
EN-190	851.76	29.56	822.20
EN-191	850.78	NM	NM
EN-192	850.71	28.60	822.11
EN-193	848.28	25.96	822.32
EN-194	840.50	NM	NM
EN-195	836.95	14.96	821.99
EN-196	851.94	9.15	842.79
EN-197	850.44	11.62	838.82
EN-200	850.27	15.95	834.32
EN-201	849.46	12.23	837.23
EN-202	848.44	27.82	820.62
EN-203	846.10	24.07	822.03
EN-204	856.44	34.89	821.55
EN-206	859.47	39.04	820.43
EN-206T	857.86	NM	NM
EN-207	854.92	41.21	813.71
EN-208A	851.64	33.33	818.31
EN-210	850.67	37.25	813.42

Supplemental Groundwater Assessment
Groundwater Elevation Data
November 2-3, 2003

Well ID	TOC Elev.	DTW	GWE
EN-211	837.73	10.03	827.70
EN-213A	853.94	33.76	820.18
EN-214A	846.40	24.46	821.94
EN-214B	846.46	24.52	821.94
EN-214C	848.84	NM	NM
EN-214T	849.12	NM	NM
EN-215	850.59	28.49	822.10
EN-217A	857.13	36.10	821.03
EN-218	837.32	10.38	826.94
EN-219	845.23	NM	NM
EN-220	844.95	7.71	837.24
EN-221	845.23	7.00	838.23
EN-222	848.08	25.13	822.95
EN-253	844.32	14.42	829.90
EN-276	852.29	22.16	830.13
EN-277	852.36	24.57	827.79
EN-278	850.75	26.64	824.11
EN-279	850.30	26.23	824.07
EN-281	850.92	22.84	828.08
EN-282	850.81	22.71	828.10
EN-283	850.73	26.47	824.26
EN-284	850.72	26.52	824.20
EN-284TD	853.46	NM	NM
EN-284TS	851.28	NM	NM
EN-300A	846.18	25.74	820.44
EN-300B	846.38	25.97	820.41
EN-301	848.16	NM	NM
EN-302	843.02	14.41	828.61
EN-303A	842.93	9.62	833.31
EN-303B	843.68	11.11	832.57
EN-304	849.63	17.63	832.00
EN-305	847.33	15.30	832.03
EN-306A	838.20	6.95	831.25
EN-306B	838.24	7.01	831.23
EN-307	844.37	22.55	821.82
EN-308	837.99	26.64	811.35
EN-309A	832.28	21.79	810.49
EN-309B	832.49	21.93	810.56
EN-309C	832.10	20.61	811.49
EN-310	845.75	Dry	<818.4
EN-311	849.38	40.35	809.03
EN-400A	855.18	24.23	830.95
EN-400B	854.94	24.48	830.46
EN-401	851.79	35.36	816.43
EN-402	851.24	36.03	815.21
EN-403	854.97	36.55	818.42
EN-404	848.43	30.22	818.21
EN-405	861.46	Dry	<825.9
EN-406	861.21	35.52	825.69
EN-407A	850.72	19.43	831.29
EN-407B	850.72	19.47	831.25
EN-408	854.56	23.05	831.51
EN-409	843.62	8.92	834.70
EN-410	843.22	5.63	837.59

Supplemental Groundwater Assessment
Groundwater Elevation Data
November 2-3, 2003

Well ID	TOC Elev.	DTW	GWE
EN-411	843.11	4.97	838.14
EN-412A	836.12	4.54	831.58
EN-412B	835.65	5.03	830.62
EN-413	861.29	NM	NM
EN-414	859.73	37.98	821.75
EN-415	858.92	37.22	821.70
EN-416A	842.94	39.87	803.07
EN-416B	842.84	11.48	831.36
EN-417A	840.60	11.39	829.21
EN-417B	840.90	9.12	831.78
EN-417C	840.62	9.57	831.05
EN-418	841.95	9.28	832.67
EN-419	850.28	20.42	829.86
EN-421	850.56	21.12	829.44
EN-422	851.86	22.86	829.00
EN-426	854.14	34.84	819.30
EN-427	857.00	36.81	820.19
EN-CAF	843.88	NM	NM
EN-D01	841.58	29.08	812.50
EN-D02	844.84	33.67	811.17
EN-D03	843.26	32.38	810.88
EN-D04	854.87	46.11	808.76
EN-D04S	854.60	46.29	808.31
EN-D05	834.51	23.63	810.88
EN-D05S	834.30	23.43	810.87
EN-D06	852.94	40.55	812.39
EN-D07	848.03	34.19	813.84
EN-D08	853.87	30.68	823.19
EN-D09	854.64	51.38	803.26
EN-D10	849.53	36.65	812.88
EN-D11	852.51	51.96	800.55
EN-D12	854.05	39.51	814.54
EN-D13	845.31	NM	NM
EN-D14	846.22	NM	NM
EN-D30	848.01	33.00	815.01
EN-D31	846.15	34.15	812.00
EN-D32	837.82	27.26	810.56

TOC Elev. = Top of Casing Elevation (feet amsl)
DTW = Depth to Water (feet from TOC)
GWE = Groundwater Elevation (feet amsl)
NM = Not measured or not accessible

Supplemental Groundwater Assessment
Groundwater Elevation Data
December 14-16, 2003

Well ID	TOC Elev.	DTW	GWE
DOT-1	849.14	17.32	831.82
DOT-2	848.57	17.40	831.17
DOT-3	848.73	17.69	831.04
DOT-4	848.61	17.68	830.93
EN-002	842.54	12.76	829.78
EN-006	852.34	30.62	821.72
EN-012	851.86	20.76	831.10
EN-013	851.93	20.89	831.04
EN-014	852.00	21.09	830.91
EN-015	851.81	21.36	830.45
EN-016	852.22	21.98	830.24
EN-017	852.15	22.17	829.98
EN-018	851.45	21.49	829.96
EN-019	852.34	22.45	829.89
EN-020	851.30	20.77	830.53
EN-021	847.84	16.96	830.88
EN-022	844.48	22.66	821.82
EN-023	850.37	20.53	829.84
EN-024	852.01	25.63	826.38
EN-025	838.64	NM	NM
EN-026	840.96	11.76	829.20
EN-029A	850.40	**28.97**	821.43
EN-030	853.18	21.15	832.03
EN-034	841.49	10.31	831.18
EN-035	854.22	24.52	829.70
EN-036	852.97	22.83	830.14
EN-037	839.97	8.47	831.50
EN-038	838.40	NM	NM
EN-039	841.21	10.48	830.73
EN-040	837.81	7.03	830.78
EN-041	837.58	6.89	830.69
EN-042	837.45	6.66	830.79
EN-043	837.84	7.20	830.64
EN-044	837.11	6.39	830.72
EN-045	836.94	6.22	830.72
EN-046	837.60	6.75	830.85
EN-047	837.48	6.55	830.93
EN-048	837.54	6.59	830.95
EN-049	837.49	6.51	830.98
EN-051	839.65	9.02	830.63
EN-052	839.44	8.62	830.82
EN-053	837.86	6.65	831.21
EN-054	851.49	21.30	830.19
EN-055	841.46	10.17	831.29
EN-056	844.07	12.26	831.81
EN-058	845.75	14.23	831.52
EN-059	833.67	12.48	821.19
EN-060	842.06	20.48	821.58
EN-061	838.09	16.59	821.50
EN-062	840.96	18.84	822.12
EN-063	837.88	NM	NM
EN-064	842.53	19.64	822.89
EN-065	854.92	24.38	830.54
EN-066	839.70	18.22	821.48

Supplemental Groundwater Assessment
Groundwater Elevation Data
December 14-16, 2003

Well ID	TOC Elev.	DTW	GWE
EN-067	837.85	14.91	822.94
EN-069	839.14	11.52	827.62
EN-070	841.66	13.53	828.13
EN-072	838.45	8.32	830.13
EN-073	839.74	10.20	829.54
EN-074	851.59	21.66	829.93
EN-075	851.20	20.76	830.44
EN-076	853.06	25.85	827.21
EN-077	854.25	26.36	827.89
EN-078	852.16	24.64	827.52
EN-079	848.15	25.74	822.41
EN-080	847.86	NM	NM
EN-081	850.03	19.22	830.81
EN-083	845.78	7.88	837.90
EN-084	851.75	10.11	841.64
EN-086	844.31	8.91	835.40
EN-087	846.42	13.92	832.50
EN-089	845.48	2.78	842.70
EN-091	847.61	26.02	821.59
EN-092	850.53	**28.98**	821.55
EN-093	848.68	27.07	821.61
EN-094	848.61	27.69	820.92
EN-095	846.08	25.73	820.35
EN-096	838.65	19.21	819.44
EN-097	840.37	10.02	830.35
EN-098	839.05	8.96	830.09
EN-099	848.66	27.07	821.59
EN-100	848.88	27.41	821.47
EN-102	849.88	28.43	821.45
EN-103	836.88	NM	NM
EN-104	840.27	20.43	819.84
EN-105	834.60	6.08	828.52
EN-106	853.89	22.51	831.38
EN-107	840.08	10.27	829.81
EN-108	843.35	9.86	833.49
EN-109	843.36	9.74	833.62
EN-111	841.24	11.53	829.71
EN-112	841.65	11.52	830.13
EN-113	842.02	11.99	830.03
EN-114	836.40	6.34	830.06
EN-117	842.78	12.85	829.93
EN-118	842.19	16.97	825.22
EN-120	848.23	27.52	820.71
EN-121	837.09	NM	NM
EN-122	836.39	8.42	827.97
EN-123	835.41	9.64	825.77
EN-125	845.47	24.04	821.43
EN-126	843.71	22.07	821.64
EN-127	844.61	NM	NM
EN-129	846.74	NM	NM
EN-130	850.12	NM	NM
EN-131	862.22	40.01	822.21
EN-132	848.20	27.58	820.62
EN-133	846.95	27.00	819.95

Supplemental Groundwater Assessment
Groundwater Elevation Data
December 14-16, 2003

Well ID	TOC Elev.	DTW	GWE
EN-146	837.49	8.82	828.67
EN-148	851.61	20.72	830.89
EN-149	841.06	21.53	819.53
EN-150	841.04	21.44	819.60
EN-151	838.74	18.73	820.01
EN-152	838.74	18.73	820.01
EN-153	838.21	17.89	820.32
EN-154	830.43	NM	NM
EN-156	840.98	9.69	831.29
EN-157	840.89	9.87	831.02
EN-158	855.67	24.82	830.85
EN-160	848.82	28.11	820.71
EN-161	847.17	**25.54**	821.63
EN-162	856.48	35.04	821.44
EN-163	860.31	38.20	822.11
EN-164	842.10	19.51	822.59
EN-165	838.31	16.67	821.64
EN-166	837.32	12.73	824.59
EN-167	835.48	8.61	826.87
EN-170	847.08	24.88	822.20
EN-173	846.08	22.33	823.75
EN-174	855.83	NM	NM
EN-175	839.38	5.74	833.64
EN-176	842.88	21.32	821.56
EN-177	841.88	15.41	826.47
EN-178	854.18	38.15	816.03
EN-179	831.57	NM	NM
EN-180	831.21	NM	NM
EN-182	847.90	25.62	822.28
EN-183	846.97	24.53	822.44
EN-184	846.44	9.94	836.50
EN-185	847.68	25.25	822.43
EN-186	851.62	21.60	830.02
EN-187	851.66	20.60	831.06
EN-188	848.13	17.89	830.24
EN-189	851.00	20.72	830.28
EN-190	851.76	30.26	821.50
EN-191	850.78	29.21	821.57
EN-192	850.71	29.08	821.63
EN-193	848.28	26.71	821.57
EN-194	840.50	22.57	817.93
EN-195	836.95	17.32	819.63
EN-196	851.94	9.22	842.72
EN-197	850.44	11.48	838.96
EN-200	850.27	16.06	834.21
EN-201	849.46	10.46	839.00
EN-202	848.44	27.57	820.87
EN-203	846.10	24.33	821.77
EN-204	856.44	**35.27**	821.17
EN-206	859.47	**39.14**	820.33
EN-206T	857.86	NM	NM
EN-207	854.92	41.29	813.63
EN-208A	851.64	NM	NM
EN-210	850.67	37.27	813.40

Supplemental Groundwater Assessment
Groundwater Elevation Data
December 14-16, 2003

Well ID	TOC Elev.	DTW	GWE
EN-211	837.73	10.02	827.71
EN-213A	853.94	**33.76**	820.18
EN-214A	846.40	**25.28**	821.12
EN-214B	846.46	**21.21**	825.25
EN-214C	848.84	NM	NM
EN-214T	849.12	NM	NM
EN-215	850.59	29.01	821.58
EN-217A	857.13	**36.30**	820.83
EN-218	837.32	NM	NM
EN-219	845.23	16.66	828.57
EN-220	844.95	7.91	837.04
EN-221	845.23	7.21	838.02
EN-222	848.08	26.65	821.43
EN-253	844.32	14.48	829.84
EN-276	852.29	21.97	830.32
EN-277	852.36	**24.37**	827.99
EN-278	850.75	**34.67**	816.08
EN-279	850.30	**29.51**	<820.79
EN-281	850.92	22.87	828.05
EN-282	850.81	22.72	828.09
EN-283	850.73	**29.44**	821.29
EN-284	850.72	**42.21**	808.51
EN-284TD	853.46	NM	NM
EN-284TS	851.28	NM	NM
EN-300A	846.18	NM	NM
EN-300B	846.38	NM	NM
EN-301	848.16	27.16	821.00
EN-302	843.02	NM	NM
EN-303A	842.93	9.77	833.16
EN-303B	843.68	11.10	832.58
EN-304	849.63	NM	NM
EN-305	847.33	NM	NM
EN-306A	838.20	6.89	831.31
EN-306B	838.24	6.97	831.27
EN-307	844.37	NM	NM
EN-308	837.99	NM	NM
EN-309A	832.28	NM	NM
EN-309B	832.49	NM	NM
EN-309C	832.10	NM	NM
EN-310	845.75	Dry	Dry
EN-311	849.38	39.22	810.16
EN-400A	855.18	NM	NM
EN-400B	854.94	NM	NM
EN-401	851.79	**35.10**	816.69
EN-402	851.24	NM	NM
EN-403	854.97	NM	NM
EN-404	848.43	NM	NM
EN-405	861.46	NM	NM
EN-406	861.21	NM	NM
EN-407A	850.72	NM	NM
EN-407B	850.72	NM	NM
EN-408	854.56	NM	NM
EN-409	843.62	NM	NM
EN-410	843.22	5.71	837.51

Supplemental Groundwater Assessment
Groundwater Elevation Data
December 14-16, 2003

Well ID	TOC Elev.	DTW	GWE
EN-411	843.11	NM	NM
EN-412A	836.12	4.95	831.17
EN-412B	835.65	4.55	831.10
EN-413	861.29	NM	NM
EN-414	859.73	NM	NM
EN-415	858.92	37.42	821.50
EN-416A	842.94	NM	NM
EN-416B	842.84	NM	NM
EN-417A	840.60	NM	NM
EN-417B	840.90	NM	NM
EN-417C	840.62	NM	NM
EN-418	841.95	NM	NM
EN-419	850.28	21.01	829.27
EN-421	850.56	21.86	828.70
EN-422	851.86	22.70	829.16
EN-426	854.14	NM	NM
EN-427	857.00	NM	NM
EN-CAF	843.88	48.97	794.91
EN-D01	841.58	28.90	812.68
EN-D02	844.84	33.31	811.53
EN-D03	843.26	32.87	810.39
EN-D04	854.87	46.46	808.41
EN-D04S	854.60	46.72	807.88
EN-D05	834.51	22.93	811.58
EN-D05S	834.30	22.70	811.60
EN-D06	852.94	40.68	812.26
EN-D07	848.03	34.03	814.00
EN-D08	853.87	30.68	823.19
EN-D09	854.64	51.90	802.74
EN-D10	849.53	36.62	812.91
EN-D11	852.51	52.28	800.23
EN-D12	854.05	39.87	814.18
EN-D13	845.31	17.86	827.45
EN-D14	846.22	18.58	827.64
EN-D30	848.01	NM	NM
EN-D31	846.15	**33.06**	813.09
EN-D32	837.82	NM	NM

TOC Elev. = Top of Casing Elevation (feet amsl)
DTW = Depth to Water (feet from TOC)
GWE = Groundwater Elevation (feet amsl)
NM = Not measured or not accessible
Measurements in bold were obtained from
transducers in pumping test observation wells.

APPENDIX C

CHEMICAL DATA

C-1: March 2003 Groundwater and QA/QC Analytical Data
C-2: August 2003 Groundwater and QA/QC Analytical Data
C-3: Groundwater and QA/QC Analytical Data for Characterization Samples from New Monitoring Wells (July - November 2003)
C-4: Data Validation Reports for Characterization Samples from New Monitoring Wells
C-5: Observation Well Chemistry for Constant-Rate Aquifer Tests (November - December 2003)
C-6: Groundwater Analytical Data for Transformation Indicator Parameters (October and December 2003)
C-7: Groundwater Analytical Data from Aquifer Test Pumping Wells (December 16, 2003)
C-8: Total Organic Carbon Reports for Upper Aquifer Soil Samples
C-9: Natural Oxidant Demand Report for Soil Samples from North Street Wells
C-10: Time versus Concentration Graphs (as noted in the text)
C-11: Storm Sewer Chemistry Data (1992-2002)

2003 Groundwater Sampling Schedule
Endicott, New York

(refer to key at bottom of table for notations)

Date:	Mar-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03
Upper Aquifer Wells							
EN-002	X		X				
EN-006	X		X				
EN-012			X				
EN-013			X				
EN-014			X				
EN-015	X		X			X	XR
EN-016	X		X				
EN-017	X		X			X	XR
EN-018	X		X		Xt	X	XR
EN-019	XR		X		Xt	X	XR
EN-020	X		X		Xt	X	XR
EN-021			X		Xt		
EN-022	DRY		X				
EN-023	X		X				
EN-024	X		X			X	XR
EN-025	X		X				
EN-026	X		X				
EN-029A	X		X				
EN-030	X		X				
EN-034			X				
EN-035	X		X				
EN-036	X		X				
EN-037	**						
EN-038	X		X				
EN-039	X		X				
EN-040	**						
EN-041	**						
EN-042	**						
EN-043	**						
EN-044	**						
EN-045	**						
EN-046	**						
EN-047	**						
EN-048	**						
EN-049			X				
EN-051			X				
EN-052	X		X				
EN-053			X				
EN-054	X		X				
EN-055			X				
EN-056	X		X				
EN-058			X				
EN-059			X				
EN-060	X		XR				
EN-061	X		XR				
EN-062	X		XR				
EN-063			XR				

2003 Groundwater Sampling Schedule
Endicott, New York

(refer to key at bottom of table for notations)

Date:	Mar-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03
EN-064	X		XR				
EN-065	XR		XR				
EN-066							
EN-067	X		X				
EN-069	X		X				
EN-070	X		X				
EN-072	X		X				
EN-073	X		X				
EN-074	X		X				
EN-075	X		X				
EN-076	X		X				
EN-077	X		X			X	XR
EN-078	X		X				
EN-079	X		X				
EN-080	X		X				
EN-081	X		X				
EN-083	X		X				
EN-084	X		X				
EN-086			X				
EN-087	X		X				
EN-089	X		X				
EN-091	XR		X				
EN-092	X		X				
EN-093	X		X				
EN-094	X		X			X	XR
EN-095	X		X				
EN-096	X		X				
EN-097	X		X				
EN-098			X				
EN-099			X				
EN-100			X				
EN-102			X				
EN-103	X		XR				
EN-104	X		XR				
EN-105	X		X				
EN-106			X				
EN-107	X		X				
EN-108	X		X				
EN-109	X		X				
EN-111	**						
EN-112	**						
EN-113			X				
EN-114	X		X				
EN-117	X		X				
EN-118	X		X				
EN-119	**						
EN-120	X		X				
EN-121			X				

2003 Groundwater Sampling Schedule
Endicott, New York

(refer to key at bottom of table for notations)

Date:	Mar-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03
EN-122	X		XR				
EN-123			X				
EN-125	X		XR				
EN-126			X				
EN-127	X		X				
EN-129	X		X				
EN-130	X		XR				
EN-131	X		X				
EN-132	X		X				
EN-133	X		X				
EN-146			X				
EN-148			X				
EN-149			X				
EN-150	X		X				
EN-151			X				
EN-152	X		X				
EN-153			X				
EN-154	X		XR				
EN-156			X				
EN-157	X		X				
EN-158			X				
EN-160	X		X				
EN-161	X		X			X	XR
EN-162	X		X				
EN-163	XR		X				
EN-164	DRY		X				
EN-165			X				
EN-166	X		X				
EN-167			X				
EN-170	X		X				
EN-173	X		X				
EN-174	X		X				
EN-175			X				
EN-176	X		X				
EN-177	X		X				
EN-178	X		X				
EN-179	X		XR				
EN-180	X		X				
EN-182	X		X				
EN-183	X		X				
EN-184			X				
EN-185	X		X				
EN-186			X				
EN-187	X		X				
EN-188	X		X				
EN-189	X		X				
EN-190	X		X				
EN-191	X		X				

2003 Groundwater Sampling Schedule
Endicott, New York

(refer to key at bottom of table for notations)

Date:	Mar-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03
EN-192	X		X			X	XR
EN-193	X		X				
EN-194	X		X				
EN-195	X		X				
EN-196	X		X				
EN-197	X		X				
EN-200	X		X				
EN-201	X		X				
EN-202	X		X				
EN-203	X		XR			X	XR
EN-204	X		XR				
EN-206	XR		X		Xt		
EN-206T						X(3)	X(7)
EN-207	X		X				
EN-208A		**X**	**XR-X**		Xt		
EN-210	XR		X				
EN-211	X		X				
EN-213A		**X**	**X-X**				
EN-214A			**X-X**	**X**	Xt		
EN-214B			**X-X**	**X**	Xt		
EN-214C					X	X-X	
EN-214T						X(15)	X(12)R
EN-215	X		X			X	XR
EN-217A		**X**	**X-X**				
EN-218	X		X				
EN-219	X		X				
EN-220	X		X				
EN-221	X		X				
EN-222	X		X				
EN-253	X		X				
EN-276	X		X				XR
EN-277	X		X				
EN-278	X		X				
EN-279	X		X				
EN-281	X		X				
EN-282	X		X				
EN-283	X		X		Xt		
EN-284	XR		XR		Xt	X	XR
EN-284TD						X(15)	X(12)
EN-284TS							
EN-300A			**X-X**	**X**			
EN-300B			**X-X**	**X**			
EN-301				**X**	**X-X**	X	XR
EN-302			**X-X**	**X**			
EN-303A			**X-X**	**X**			
EN-303B			**X-X**	**X**			
EN-304			**X-X**	**X**			
EN-305			**X-X**	**X**			

2003 Groundwater Sampling Schedule
Endicott, New York

(refer to key at bottom of table for notations)

Date:	Mar-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03
EN-306A			**X-X**	**X**			
EN-306B			**X-X**	**X**			
EN-307		**X-X**	**X**				
EN-308		**X-X**	**X**				
EN-309A		**X**	**X-X**		Xt		
EN-309B		**X**	**X-X**		Xt		
EN-309C		**X**	**X-X**		Xt		
EN-310			DRY	DRY	DRY	DRY	DRY
EN-311			**X-X**	**X**			
EN-400A				**X**	**X-X**		
EN-400B				**X**	**XR-X**		
EN-401				**X-X**	**XR**		
EN-402				**X**	**XR-X**		
EN-403			**X**	**X-X**			
EN-404				**X**	**XR-X**		
EN-405				DRY	DRY	DRY	
EN-406				**X**	**X-XR**		
EN-407A				**X-X**	**XR**		
EN-407B				**X**	**XR-X**		
EN-408				**X**	**XR-X**		
EN-409				**X-X**	**XR**		
EN-410				**X**	**XR-X**		
EN-411				**X**	**XR-X**		
EN-412A				**X**	**XR-X**		
EN-412B				**X-X**	**XR**		
EN-413				**X**	**X-X**		
EN-414				**X**	**XR-X**		
EN-415				**X**	**XR-X**		
EN-416A				**X**	**XR-X**		
EN-416B				**X**	**XR-X**		
EN-417A				**X-X**	**XR**		
EN-417B				**X**	**X-X**		
EN-417C				**X-X**	**XR**		
EN-418				**X**	**XR-X**		
EN-419					**X**	**X-X**-X	XR
EN-421					**X**	**X-X**-X	XR
EN-422					**X**	**X-X**-X	XR
EN-426					**X**	**X-X**	
EN-427					**X**	**X-X**	

2003 Groundwater Sampling Schedule
Endicott, New York

(refer to key at bottom of table for notations)

Date:	Mar-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03
Lower Aquifer Wells							
EN-CAF	X		XR				
EN-D01	X		XR				
EN-D02	X		XR				
EN-D03	X		X				
EN-D04	X		X				
EN-D04S	X		X				
EN-D05			X				
EN-D05S	X		X				
EN-D06			X				
EN-D07	X		X				
EN-D08			X				
EN-D09			X				
EN-D10			X				
EN-D11	X		X				
EN-D12			X				
EN-D13	XR		X				
EN-D14	X		X				
EN-D30					**XR-X**	**X**	
EN-D31				**X-X**	**X**		
EN-D32					**X**	**X-X**	
DOT Wells							
DOT-1	X		X				
DOT-2	X		X				
DOT-3	X		X				
DOT-4	X		X				
Huron/EIT Supply Wells							
1							
2	X		X				
3	X		X				
4	X		X				
5	X		X				
Village Wells							
MW-1							Xt
MW-2							Xt
EN#28							Xt
EN#5							Xt

Key:

X : sample collected and analyzed for VOCs
XR : duplicate sample collected and analyzed for VOCs
X-X : two samples collected during month
X-X-X : three samples collected during month
X(15) : 15 or other specified number of samples collected (test wells)
Xt : sample collected and analyzed for transformation indicator parameters and VOCs
DRY : well was dry; no sample collected
** : well located in or near source area; not sampled

Bold typeface indicates characterization samples (3) collected from SGA monitoring wells

APPENDIX C-1

March 2003 Groundwater and QA/QC Analytical Data

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

March 2003

Sample Location		2	3	4	5	DOT-1	DOT-2
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/08/2003	04/08/2003	04/08/2003	04/08/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0303462	0303461	0303463	0303464	0302641	0302637
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	ND@10
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@1
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@1
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@2
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.51 J
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

March 2003

Sample Location		2	3	4	5	DOT-1	DOT-2
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/08/2003	04/08/2003	04/08/2003	04/08/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0303462	0303461	0303463	0303464	0302641	0302637
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	20.74
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	1.12
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.42 J	0.19 J
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

March 2003

Sample Location		2	3	4	5	DOT-1	DOT-2
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/08/2003	04/08/2003	04/08/2003	04/08/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0303462	0303461	0303463	0303464	0302641	0302637
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	3.05	1.54
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	1.94
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	1.22	ND@1
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.24 J
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
TRICHLOROETHENE	ug/l	8.9	3.35	1.11	1.62	0.13 J	0.41 J
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.36 J	0.55 J

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

March 2003

Sample Location		DOT-3	DOT-4	EN-002	EN-006	EN-015	EN-016
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/13/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003
Laboratory Sample I.D.		0302638	0302639	0302603	0302594	0302587	0302588
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	6.71	7.12	7.03	7.11	7.24
SPECIFIC CONDUCTANCE	umhos/cm	NA	5820	2990	2100	493	183
TEMPERATURE	C	NA	10.64	9.75	13.98	18.14	17.61
TURBIDITY	tu	NA	36.6	286	428	2.56	3.11
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	ND@10	ND@50	ND@20	ND@10	ND@500
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@10	ND@4	ND@2	ND@100
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@10	ND@4	ND@2	ND@100
VINYL ACETATE	ug/l	ND@2	ND@2	ND@10	ND@4	ND@2	ND@100
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	0.66 J	ND@5	ND@2	ND@1	ND@50
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

March 2003

Sample Location		DOT-3	DOT-4	EN-002	EN-006	EN-015	EN-016
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/13/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003
Laboratory Sample I.D.		0302638	0302639	0302603	0302594	0302587	0302588
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
1,1,1-TRICHLOROETHANE	ug/l	25.62	25.62	7.03	3.56	3.65	1707.78
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	47.03	ND@2	3.38	ND@50
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
1,1-DICHLOROETHANE	ug/l	1.10	0.94 J	ND@5	ND@2	1.03	72.78
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	49.31 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@50	ND@20	ND@10	ND@500
BENZENE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
BROMOFORM	ug/l	ND@2	ND@2	ND@10	ND@4	ND@2	ND@100
BROMOMETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
CHLOROBENZENE	ug/l	0.59 J	0.43 J	ND@5	ND@2	ND@1	ND@50
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50

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Sample Location		DOT-3	DOT-4	EN-002	EN-006	EN-015	EN-016
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/13/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003
Laboratory Sample I.D.		0302638	0302639	0302603	0302594	0302587	0302588
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
CHLOROFORM	ug/l	ND@1	ND@1	ND@5	0.70 J	ND@1	ND@50
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
CIS-1,2-DICHLOROETHENE	ug/l	1.76	1.39	ND@5	0.68 J	2.27	21.44 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@10	ND@4	ND@2	ND@100
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@10	ND@4	ND@2	ND@100
METHYL T-BUTYL ETHER	ug/l	2.26	1.69	ND@5	ND@2	ND@1	ND@50
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	4.42 J	ND@2	18.13	44.85 J
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@50	ND@20	ND@10	ND@500
TOLUENE	ug/l	0.18 J	0.27 J	ND@5	ND@2	ND@1	ND@50
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@10	ND@4	ND@2	ND@100
TRICHLOROETHENE	ug/l	0.72 J	1.13	ND@5	53.70	12.71	62.07
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@5	ND@2	ND@1	ND@50
VINYL CHLORIDE	ug/l	ND@1	0.32 J	ND@5	ND@2	ND@1	ND@50

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Sample Location		EN-017	EN-018	EN-019	EN-019	EN-020	EN-023
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/13/2003	03/11/2003	03/11/2003	03/13/2003	03/12/2003
Laboratory Sample I.D.		0302433	0302635	0302447	221986-2	0302634	0302584
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.38	7.62	7.08	7.08	7.22	6.53
SPECIFIC CONDUCTANCE	umhos/cm	661	919	312	312	4170	438
TEMPERATURE	C	12.44	12.44	12.69	12.69	11.72	14.42
TURBIDITY	tu	49.3	147	154	154	16.3	2.77
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@2000	ND@1000	NA	ND@5000	ND@10
METHYL BUTYL KETONE	ug/l	NA	ND@200	ND@100	NA	ND@500	ND@1
METHYL ETHYL KETONE	ug/l	NA	ND@400	ND@200	NA	ND@1000	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	ND@200	ND@100	NA	ND@500	ND@1
N-BUTYL ACETATE	ug/l	NA	ND@400	ND@200	NA	ND@1000	ND@2
VINYL ACETATE	ug/l	NA	ND@400	ND@200	NA	ND@1000	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	NA	ND@200	ND@100	ND@1.0	ND@500	ND@1

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Sample Location		EN-017	EN-018	EN-019	EN-019	EN-020	EN-023
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/13/2003	03/11/2003	03/11/2003	03/13/2003	03/12/2003
Laboratory Sample I.D.		0302433	0302635	0302447	221986-2	0302634	0302584
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
1,1,1-TRICHLOROETHANE	ug/l	21.6	116.17 J	113.08	170 D	312.13 J	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	5.4	ND@200	ND@100	ND@1.0	ND@500	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
1,1-DICHLOROETHANE	ug/l	10.9	527.48	1092.58	1400 D	877.72	0.58 J
1,1-DICHLOROETHENE	ug/l	2.12	ND@200	53.72 J	69	ND@500	0.41 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
1,2-DICHLOROETHANE	ug/l	0.90 J	ND@200	ND@100	11	ND@500	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	3600 D	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@1.0	ND@2000	ND@1000	NA	ND@5000	ND@10
BENZENE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
BROMOBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
BROMOFORM	ug/l	ND@1.0	ND@400	ND@200	ND@1.0	ND@1000	ND@2
BROMOMETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
CARBON DISULFIDE	ug/l	NA	ND@200	ND@100	NA	ND@500	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
CHLOROBENZENE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	0.26 J
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1

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Sample Location		EN-017	EN-018	EN-019	EN-019	EN-020	EN-023
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/13/2003	03/11/2003	03/11/2003	03/13/2003	03/12/2003
Laboratory Sample I.D.		0302433	0302635	0302447	221986-2	0302634	0302584
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
CHLOROFORM	ug/l	1.65	ND@200	ND@100	1.2	ND@500	ND@1
CHLOROMETHANE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	30.9	707.79	3633.01	NA	3578.21	5.02
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@400	ND@200	ND@1.0	ND@1000	ND@2
DIBROMOMETHANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	0.70 J	ND@200	ND@100	ND@1.0	ND@500	ND@1
ETHYLBENZENE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@400	ND@200	ND@1.0	ND@1000	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@200	ND@100	NA	ND@500	ND@1
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	8.2	ND@200	48.48 J	43	ND@500	ND@1
TETRAHYDROFURAN	ug/l	ND@1.0	ND@2000	ND@1000	NA	ND@5000	ND@10
TOLUENE	ug/l	ND@1.0	ND@200	ND@100	ND@1.0	ND@500	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	0.40 J	ND@200	ND@100	NA	ND@500	0.28 J
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@400	ND@200	ND@1.0	ND@1000	ND@2
TRICHLOROETHENE	ug/l	30.1	1728.88	1169.87	1400 D	ND@500	10.68
TRICHLOROFLUOROMETHANE	ug/l	0.69 J	ND@200	ND@100	ND@1.0	ND@500	ND@1
VINYL CHLORIDE	ug/l	6.2	ND@200	ND@100	29	235.16 J	5.37

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Sample Location		EN-024	EN-025	EN-026	EN-029A	EN-030	EN-035
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/11/2003	03/12/2003	03/13/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302625	0302423	0302608	0302632	0302386	0302367
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	6.88	7.10	7.18	7.26	7.62
SPECIFIC CONDUCTANCE	umhos/cm	NA	2270	1175	5760	717	463
TEMPERATURE	C	NA	12.36	10.56	13.13	9.18	16.47
TURBIDITY	tu	NA	106	16.9	225	22.4	24.1
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	NA	ND@10	ND@200	NA	NA
METHYL BUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@20	NA	NA
METHYL ETHYL KETONE	ug/l	ND@2	NA	ND@2	ND@40	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@20	NA	NA
N-BUTYL ACETATE	ug/l	ND@2	NA	ND@2	ND@40	NA	NA
VINYL ACETATE	ug/l	ND@2	NA	ND@2	ND@40	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@10000.0	NA	NA	ND@10.0	ND@20.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@10000.0	NA	NA	ND@10.0	ND@20.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	NA	ND@1	ND@20	NA	NA

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Sample Location		EN-024	EN-025	EN-026	EN-029A	EN-030	EN-035
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/11/2003	03/12/2003	03/13/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302625	0302423	0302608	0302632	0302386	0302367
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1	160782	ND@1	56.00	ND@10.0	16.8 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	95.1	ND@20.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
1,1-DICHLOROETHANE	ug/l	ND@1	6127 J	ND@1	145.94	ND@10.0	14.3 J
1,1-DICHLOROETHENE	ug/l	ND@1	ND@10000.0	ND@1	9.35 J	ND@10.0	7.5 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@10000.0	NA	NA	ND@10.0	ND@20.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	13.9	ND@20.0
1,2-DICHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10000.0	ND@10	ND@200	ND@10.0	ND@20.0
BENZENE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
BROMOBENZENE	ug/l	NA	ND@10000.0	NA	NA	ND@10.0	ND@20.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
BROMOFORM	ug/l	ND@2	ND@10000.0	ND@2	ND@40	ND@10.0	ND@20.0
BROMOMETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
CARBON DISULFIDE	ug/l	ND@1	NA	ND@1	ND@20	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
CHLOROBENZENE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0

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Sample Location		EN-024	EN-025	EN-026	EN-029A	EN-030	EN-035
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/11/2003	03/12/2003	03/13/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302625	0302423	0302608	0302632	0302386	0302367
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
CHLOROFORM	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
CHLOROMETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	31293	ND@1	532.67	ND@10.0	63.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@10000.0	ND@2	ND@40	ND@10.0	ND@20.0
DIBROMOMETHANE	ug/l	NA	ND@10000.0	NA	NA	ND@10.0	ND@20.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	42.3	ND@20.0
ETHYLBENZENE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@10000.0	ND@2	ND@40	ND@10.0	ND@20.0
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
METHYLENE CHLORIDE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	2.76	ND@10000.0	ND@1	26.70	ND@10.0	ND@20.0
TETRAHYDROFURAN	ug/l	ND@10	ND@10000.0	ND@10	ND@200	ND@10.0	ND@20.0
TOLUENE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@10000.0	ND@1	10.76 J	ND@10.0	ND@20.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@10000.0	ND@2	ND@40	ND@10.0	ND@20.0
TRICHLOROETHENE	ug/l	0.84 J	ND@10000.0	ND@1	360.92	ND@10.0	140
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	ND@10.0	ND@20.0
VINYL CHLORIDE	ug/l	ND@1	ND@10000.0	ND@1	ND@20	1.87 J	ND@20.0

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Sample Location		EN-036	EN-038	EN-039	EN-052	EN-054	EN-056
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/11/2003	03/12/2003	03/11/2003	03/11/2003	03/13/2003
Laboratory Sample I.D.		0302586	0302443	0302609	0302422	0302446	0302615
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.65	6.94	7.20	6.92	7.03	6.70
SPECIFIC CONDUCTANCE	umhos/cm	449	2190	2860	3480	6080	531
TEMPERATURE	C	17.71	12.40	10.16	7.58	10.77	13.31
TURBIDITY	tu	1.78	6.03	11.3	32.8	>1000	46.3
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	NA	ND@50000	NA	NA	ND@200
METHYL BUTYL KETONE	ug/l	ND@1	NA	ND@5000	NA	NA	ND@20
METHYL ETHYL KETONE	ug/l	ND@2	NA	ND@10000	NA	NA	ND@40
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	ND@5000	NA	NA	ND@20
N-BUTYL ACETATE	ug/l	ND@2	NA	ND@10000	NA	NA	ND@40
VINYL ACETATE	ug/l	ND@2	NA	ND@10000	NA	NA	ND@40
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@10000.0	NA	ND@10.0	ND@20.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@10000.0	NA	ND@10.0	ND@20.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	NA	ND@5000	NA	NA	ND@20

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Sample Location		EN-036	EN-038	EN-039	EN-052	EN-054	EN-056
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/11/2003	03/12/2003	03/11/2003	03/11/2003	03/13/2003
Laboratory Sample I.D.		0302586	0302443	0302609	0302422	0302446	0302615
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
1,1,1-TRICHLOROETHANE	ug/l	2.70	267758	94447.99	75.3	8.8 J	55.44
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@10000.0	ND@5000	4.04 J	ND@20.0	374.79
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
1,1-DICHLOROETHANE	ug/l	0.51 J	18892	5029.22	ND@10.0	ND@20.0	9.33 J
1,1-DICHLOROETHENE	ug/l	0.57 J	ND@10000.0	ND@5000	ND@10.0	ND@20.0	5.42 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@10000.0	NA	ND@10.0	ND@20.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	12.95 J
1,2-DICHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10000.0	ND@50000	ND@10.0	ND@20.0	ND@200
BENZENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
BROMOBENZENE	ug/l	NA	ND@10000.0	NA	ND@10.0	ND@20.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	1.22	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
BROMOFORM	ug/l	ND@2	ND@10000.0	ND@10000	ND@10.0	ND@20.0	ND@40
BROMOMETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
CARBON DISULFIDE	ug/l	ND@1	NA	ND@5000	NA	NA	ND@20
CARBON TETRACHLORIDE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
CHLOROBENZENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20

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Sample Location		EN-036	EN-038	EN-039	EN-052	EN-054	EN-056
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/11/2003	03/12/2003	03/11/2003	03/11/2003	03/13/2003
Laboratory Sample I.D.		0302586	0302443	0302609	0302422	0302446	0302615
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
CHLOROFORM	ug/l	1.19	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
CHLOROMETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
CIS-1,2-DICHLOROETHENE	ug/l	0.76 J	39271	7916.46	65.7	14.5 J	ND@20
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@10000.0	ND@10000	ND@10.0	ND@20.0	ND@40
DIBROMOMETHANE	ug/l	NA	ND@10000.0	NA	ND@10.0	ND@20.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
ETHYLBENZENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@10000.0	ND@10000	ND@10.0	ND@20.0	ND@40
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
METHYLENE CHLORIDE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@10000.0	ND@5000	168	368	ND@20
TETRAHYDROFURAN	ug/l	ND@10	ND@10000.0	ND@50000	ND@10.0	ND@20.0	ND@200
TOLUENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@10000.0	ND@10000	ND@10.0	ND@20.0	ND@40
TRICHLOROETHENE	ug/l	22.43	ND@10000.0	ND@5000	26.3	3.72 J	ND@20
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20
VINYL CHLORIDE	ug/l	ND@1	ND@10000.0	ND@5000	ND@10.0	ND@20.0	ND@20

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Sample Location		EN-060	EN-061	EN-062	EN-064	EN-065	EN-065
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		03/10/2003	03/12/2003	03/10/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302374	0302583	0302362	0302368	0302426	221990-2
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.35	6.90	7.75	7.46	6.90	6.90
SPECIFIC CONDUCTANCE	umhos/cm	893	232	4670	2940	1480	1480
TEMPERATURE	C	10.62	12.89	6.07	9.47	14.45	14.45
TURBIDITY	tu	963	55.1	>1000	652	>1000	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	ND@1	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	ND@2	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	ND@2	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	ND@2	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
STYRENE	ug/l	NA	ND@1	NA	NA	NA	ND@1.0

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Sample Location		EN-060	EN-061	EN-062	EN-064	EN-065	EN-065
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		03/10/2003	03/12/2003	03/10/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302374	0302583	0302362	0302368	0302426	221990-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	0.68 J	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	3.20	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	1.73	1.7
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	3.2
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
ACETONE	ug/l	ND@1.0	ND@10	2.23	ND@1.0	ND@1.0	NA
BENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@2	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	ND@1	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	0.86 J	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-060	EN-061	EN-062	EN-064	EN-065	EN-065
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		03/10/2003	03/12/2003	03/10/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302374	0302583	0302362	0302368	0302426	221990-2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	1.89	NA
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	1.52	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@2	ND@1.0	ND@1.0	0.53 J	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	NA
TOLUENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	4.86	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	1.06	ND@1.0	ND@1.0	13.0	14
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-067	EN-069	EN-070	EN-072	EN-073	EN-074
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003	03/13/2003
Laboratory Sample I.D.		0302398	0302607	0302522	0302527	0302602	0302629
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.92	6.99	6.84	6.88	6.59	7.08
SPECIFIC CONDUCTANCE	umhos/cm	197	1800	1210	2430	7870	5100
TEMPERATURE	C	11.18	17.84	11.39	19.33	9.90	12.39
TURBIDITY	tu	73.2	581	>1000	>1000	639	1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10	NA	NA	ND@10	ND@10
METHYL BUTYL KETONE	ug/l	NA	ND@1	NA	NA	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	NA	ND@2	NA	NA	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1	NA	NA	ND@1	ND@1
N-BUTYL ACETATE	ug/l	NA	ND@2	NA	NA	ND@2	ND@2
VINYL ACETATE	ug/l	NA	ND@2	NA	NA	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	ND@1	NA	NA	ND@1	ND@1

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Sample Location		EN-067	EN-069	EN-070	EN-072	EN-073	EN-074
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003	03/13/2003
Laboratory Sample I.D.		0302398	0302607	0302522	0302527	0302602	0302629
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	0.59 J	1.84	22.07	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.31	ND@1	ND@1.0	1.94	ND@1	1.26
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	7.5	1.33	ND@1.0	3.15	12.12	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1.0	0.21 J	1.77	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.70	0.31 J	4.40	2.25	0.40 J	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@10	ND@10
BENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	0.96 J
BROMOFORM	ug/l	ND@1.0	ND@2	ND@1.0	ND@1.0	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	0.83 J	ND@1	ND@1
CARBON DISULFIDE	ug/l	NA	ND@1	NA	NA	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1

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Sample Location		EN-067	EN-069	EN-070	EN-072	EN-073	EN-074
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003	03/13/2003
Laboratory Sample I.D.		0302398	0302607	0302522	0302527	0302602	0302629
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
CHLOROFORM	ug/l	ND@1.0	ND@1	ND@1.0	0.96 J	ND@1	1.33
CHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	0.53 J	0.27 J	2.12	5.7	5.37	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@1.0	ND@1.0	ND@2	ND@2
DIBROMOMETHANE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	0.56 J
ETHYLBENZENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@2	ND@1.0	ND@1.0	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	0.59 J	ND@1
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	0.58 J	0.49 J	2.21	14.1	0.54 J	13.37
TETRAHYDROFURAN	ug/l	ND@1.0	3.32	ND@1.0	ND@1.0	ND@10	ND@10
TOLUENE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1.0	0.15 J	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@1.0	ND@1.0	ND@2	ND@2
TRICHLOROETHENE	ug/l	0.09 J	ND@1	12.3	1.44	2.72	1.22
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1.0	ND@1.0	ND@1	ND@1
VINYL CHLORIDE	ug/l	0.97 J	ND@1	0.35 J	2.50	1.71	ND@1

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Sample Location		EN-075	EN-076	EN-077	EN-078	EN-079	EN-080
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/11/2003	03/10/2003	03/13/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302445	0302432	0302366	0302633	0302371	0302599
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.89	7.08	7.21	7.27	6.88	6.58
SPECIFIC CONDUCTANCE	umhos/cm	11450	10790	4650	3090	1900	3780
TEMPERATURE	C	11.20	12.74	11.17	14.88	12.66	13.11
TURBIDITY	tu	>1000	1000	67.7	649	54.9	537
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	ND@50	NA	ND@500
METHYL BUTYL KETONE	ug/l	NA	NA	NA	ND@5	NA	ND@50
METHYL ETHYL KETONE	ug/l	NA	NA	NA	ND@10	NA	ND@100
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	ND@5	NA	ND@50
N-BUTYL ACETATE	ug/l	NA	NA	NA	ND@10	NA	ND@100
VINYL ACETATE	ug/l	NA	NA	NA	ND@10	NA	ND@100
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	ND@5	NA	ND@50

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Sample Location		EN-075	EN-076	EN-077	EN-078	EN-079	EN-080
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/11/2003	03/10/2003	03/13/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302445	0302432	0302366	0302633	0302371	0302599
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	35.0	3.03 J	ND@1.0	ND@50
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	210	1.40 J	0.29 J	ND@50
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	3.08 J	ND@5	ND@1.0	ND@50
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@20.0	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.50 J	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@50	0.56 J	ND@500
BENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	0.52 J	ND@50
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@10	ND@1.0	ND@100
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
CARBON DISULFIDE	ug/l	NA	NA	NA	ND@5	NA	ND@50
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50

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Sample Location		EN-075	EN-076	EN-077	EN-078	EN-079	EN-080
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/11/2003	03/10/2003	03/13/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302445	0302432	0302366	0302633	0302371	0302599
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	18.2	ND@50
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
CIS-1,2-DICHLOROETHENE	ug/l	2.19	0.59 J	147	1.38 J	0.36 J	799.08
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@10	ND@1.0	ND@100
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	0.09 J	ND@50
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@10	ND@1.0	ND@100
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	0.14 J	ND@50
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	3.29	7.9	ND@20.0	ND@5	ND@1.0	ND@50
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@50	ND@1.0	ND@500
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@10	ND@1.0	ND@100
TRICHLOROETHENE	ug/l	5.3	ND@1.0	105	38.23	ND@1.0	ND@50
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@20.0	ND@5	ND@1.0	ND@50
VINYL CHLORIDE	ug/l	0.25 J	ND@1.0	ND@20.0	ND@5	1.96	386.45

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Sample Location		EN-081	EN-083	EN-084	EN-087	EN-089	EN-091
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/11/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302585	0302370	0302428	0302369	0302418	0302448
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.42	6.60	6.51	7.11	6.95	6.93
SPECIFIC CONDUCTANCE	umhos/cm	577	6310	4490	1120	2860	410
TEMPERATURE	C	14.47	7.50	7.65	11.73	11.90	15.80
TURBIDITY	tu	3.64	869	>1000	>1000	4.11	74.1
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	NA	NA	NA	NA	ND@100
METHYL BUTYL KETONE	ug/l	ND@1	NA	NA	NA	NA	ND@10
METHYL ETHYL KETONE	ug/l	ND@2	NA	NA	NA	NA	ND@20
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	NA	NA	NA	ND@10
N-BUTYL ACETATE	ug/l	ND@2	NA	NA	NA	NA	ND@20
VINYL ACETATE	ug/l	ND@2	NA	NA	NA	NA	ND@20
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@5.0	ND@1.0	ND@1.0	ND@20.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@5.0	ND@1.0	ND@1.0	ND@20.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	NA	NA	NA	NA	ND@10

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Sample Location		EN-081	EN-083	EN-084	EN-087	EN-089	EN-091
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/11/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302585	0302370	0302428	0302369	0302418	0302448
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
1,1,1-TRICHLOROETHANE	ug/l	1.30	ND@5.0	ND@1.0	ND@1.0	ND@20.0	66.04
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	323	7.03 J
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
1,1-DICHLOROETHANE	ug/l	0.99 J	ND@5.0	ND@1.0	ND@1.0	ND@20.0	43.55
1,1-DICHLOROETHENE	ug/l	0.31 J	ND@5.0	ND@1.0	ND@1.0	ND@20.0	11.52
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@5.0	ND@1.0	ND@1.0	ND@20.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	7.3 J	ND@10
1,2-DICHLOROETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@100
BENZENE	ug/l	0.23 J	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
BROMOBENZENE	ug/l	NA	ND@5.0	ND@1.0	ND@1.0	ND@20.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
BROMOFORM	ug/l	ND@2	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@20
BROMOMETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
CARBON DISULFIDE	ug/l	ND@1	NA	NA	NA	NA	ND@10
CARBON TETRACHLORIDE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
CHLOROBENZENE	ug/l	1.99	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10

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Sample Location		EN-081	EN-083	EN-084	EN-087	EN-089	EN-091
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/11/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302585	0302370	0302428	0302369	0302418	0302448
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
CHLOROFORM	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
CHLOROMETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
CIS-1,2-DICHLOROETHENE	ug/l	1.98	29.0	ND@1.0	ND@1.0	13.7 J	196.54
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@20
DIBROMOMETHANE	ug/l	NA	ND@5.0	ND@1.0	ND@1.0	ND@20.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
ETHYLBENZENE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@20
METHYL T-BUTYL ETHER	ug/l	0.64 J	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
METHYLENE CHLORIDE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	1.09	ND@5.0	ND@1.0	ND@1.0	ND@20.0	14.62
TETRAHYDROFURAN	ug/l	ND@10	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@100
TOLUENE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@20
TRICHLOROETHENE	ug/l	18.01	33.8	ND@1.0	ND@1.0	ND@20.0	366.97
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10
VINYL CHLORIDE	ug/l	0.66 J	ND@5.0	ND@1.0	ND@1.0	ND@20.0	ND@10

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Sample Location		EN-091	EN-092	EN-093	EN-094	EN-095	EN-096
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003	04/08/2003
Laboratory Sample I.D.		221986-3	0302376	0302390	0302375	0302389	0303431
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.93	6.77	6.97	7.20	7.09	NA
SPECIFIC CONDUCTANCE	umhos/cm	410	6100	247	2230	1132	NA
TEMPERATURE	C	15.80	12.15	12.37	11.69	9.87	NA
TURBIDITY	tu	74.1	>1000	13.4	464	2.86	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	ND@50
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@5
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@10
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@5
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@10
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@10
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
HEXACHLOROBUTADIENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@5

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Sample Location		EN-091	EN-092	EN-093	EN-094	EN-095	EN-096
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003	04/08/2003
Laboratory Sample I.D.		221986-3	0302376	0302390	0302375	0302389	0303431
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
1,1,1-TRICHLOROETHANE	ug/l	76	42.0 J	37.1	ND@1.0	0.16 J	89.34
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	13.88
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
1,1-DICHLOROETHANE	ug/l	48	40.6 J	16.4	ND@1.0	ND@1.0	33.57
1,1-DICHLOROETHENE	ug/l	15	ND@50.0	ND@10.0	ND@1.0	ND@1.0	2.53 J
1,1-DICHLOROPROPENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	3.28 J
1,2-DICHLOROETHANE	ug/l	1.2	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
1,2-DICHLOROETHENE, TOTAL	ug/l	150 D	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
1,3-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
ACETONE	ug/l	NA	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@50
BENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
BROMOBENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
BROMOFORM	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@10
BROMOMETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	ND@5
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
CHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5

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Sample Location		EN-091	EN-092	EN-093	EN-094	EN-095	EN-096
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003	04/08/2003
Laboratory Sample I.D.		221986-3	0302376	0302390	0302375	0302389	0303431
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
CHLOROFORM	ug/l	0.76 J	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
CHLOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
CIS-1,2-DICHLOROETHENE	ug/l	NA	311	78.8	ND@1.0	ND@1.0	14.03
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@10
DIBROMOMETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
ETHYLBENZENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
ISOPROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@10
METHYL T-BUTYL ETHER	ug/l	NA	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
N-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
SEC-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	16	18.8 J	7.1 J	ND@1.0	2.86	ND@5
TETRAHYDROFURAN	ug/l	NA	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@50
TOLUENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
TRANS-1,2-DICHLOROETHENE	ug/l	NA	ND@50.0	0.92 J	ND@1.0	ND@1.0	ND@5
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@10
TRICHLOROETHENE	ug/l	300 D	241	217	1.14	6.4	6.27
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5
VINYL CHLORIDE	ug/l	ND@1.0	ND@50.0	ND@10.0	ND@1.0	ND@1.0	ND@5

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Sample Location		EN-097	EN-103	EN-104	EN-105	EN-107	EN-108
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/12/2003	03/11/2003	03/10/2003
Laboratory Sample I.D.		0302431	0302361	0302385	0302528	0302421	0302395
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.05	7.20	6.78	6.48	7.23	6.41
SPECIFIC CONDUCTANCE	umhos/cm	12710	1143	1418	1283	3100	467
TEMPERATURE	C	9.03	9.85	13.37	8.49	11.17	6.95
TURBIDITY	tu	>1000	>1000	4.75	>1000	17.5	5.10
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		EN-097	EN-103	EN-104	EN-105	EN-107	EN-108
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/12/2003	03/11/2003	03/10/2003
Laboratory Sample I.D.		0302431	0302361	0302385	0302528	0302421	0302395
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	0.94 J	ND@1.0	1226	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	7.2
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	2.32	ND@1.0	ND@1000.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	1.07
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	1.52	ND@1000.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0

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Sample Location		EN-097	EN-103	EN-104	EN-105	EN-107	EN-108
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/12/2003	03/11/2003	03/10/2003
Laboratory Sample I.D.		0302431	0302361	0302385	0302528	0302421	0302395
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	0.63 J	4102	10.2
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	1.00
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	2002	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	18.9
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1000.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	0.18 J	ND@1.0	ND@1000.0	0.35 J

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Sample Location		EN-109	EN-114	EN-117	EN-118	EN-120	EN-122
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/10/2003	03/13/2003	03/11/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302394	0302384	0302614	0302444	0302410	0302605
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.46	6.80	7.27	7.19	6.42	7.19
SPECIFIC CONDUCTANCE	umhos/cm	444	310	294	1179	4530	2190
TEMPERATURE	C	6.55	11.67	11.28	11.32	14.98	8.63
TURBIDITY	tu	8.60	270	37.7	11.3	0.82	89.1
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	ND@10	NA	NA	ND@10
METHYL BUTYL KETONE	ug/l	NA	NA	ND@1	NA	NA	ND@1
METHYL ETHYL KETONE	ug/l	NA	NA	ND@2	NA	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	NA	ND@1	NA	NA	ND@1
N-BUTYL ACETATE	ug/l	NA	NA	ND@2	NA	NA	ND@2
VINYL ACETATE	ug/l	NA	NA	ND@2	NA	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	NA	ND@10000.0	ND@50.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	NA	ND@10000.0	ND@50.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	ND@1	NA	NA	ND@1

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Sample Location		EN-109	EN-114	EN-117	EN-118	EN-120	EN-122
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/10/2003	03/13/2003	03/11/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302394	0302384	0302614	0302444	0302410	0302605
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	64.5	1.33	71020	59.7	1.04
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	18.7 J	1.35	ND@10000.0	ND@50.0	0.71 J
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1.0	509	0.37 J	ND@10000.0	133	5.29
1,1-DICHLOROETHENE	ug/l	ND@1.0	14.3 J	ND@1	ND@10000.0	ND@50.0	0.43 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@50.0	NA	ND@10000.0	ND@50.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	52.2	1.88	ND@10000.0	ND@50.0	1.14
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@50.0	ND@10	ND@10000.0	ND@50.0	ND@10
BENZENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
BROMOBENZENE	ug/l	ND@1.0	ND@50.0	NA	ND@10000.0	ND@50.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
BROMOFORM	ug/l	ND@1.0	ND@50.0	ND@2	ND@10000.0	ND@50.0	ND@2
BROMOMETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
CARBON DISULFIDE	ug/l	NA	NA	ND@1	NA	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
CHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1

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Sample Location		EN-109	EN-114	EN-117	EN-118	EN-120	EN-122
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/10/2003	03/13/2003	03/11/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302394	0302384	0302614	0302444	0302410	0302605
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
CHLOROFORM	ug/l	ND@1.0	ND@50.0	0.22 J	ND@10000.0	ND@50.0	ND@1
CHLOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	296	9.85	7871 J	407	11.85
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@50.0	ND@2	ND@10000.0	ND@50.0	ND@2
DIBROMOMETHANE	ug/l	ND@1.0	ND@50.0	NA	ND@10000.0	ND@50.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@50.0	0.44 J	ND@10000.0	ND@50.0	ND@1
ETHYLBENZENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@50.0	ND@2	ND@10000.0	ND@50.0	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@50.0	21.12	ND@10000.0	ND@50.0	ND@1
TETRAHYDROFURAN	ug/l	ND@1.0	ND@50.0	ND@10	ND@10000.0	ND@50.0	ND@10
TOLUENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@50.0	ND@2	ND@10000.0	ND@50.0	ND@2
TRICHLOROETHENE	ug/l	ND@1.0	ND@50.0	2.52	5678 J	482	8.86
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@1	ND@10000.0	ND@50.0	ND@1
VINYL CHLORIDE	ug/l	ND@1.0	761	ND@1	ND@10000.0	ND@50.0	4.59

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Sample Location		EN-125	EN-127	EN-129	EN-130	EN-131	EN-132
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/10/2003	03/13/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302590	0302364	0302372	0302636	0302382	0302581
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.23	6.91	6.62	NA	7.17	7.04
SPECIFIC CONDUCTANCE	umhos/cm	1860	3950	2060	NA	1370	1464
TEMPERATURE	C	12.38	10.29	12.33	NA	10.18	13.47
TURBIDITY	tu	>1000	82.6	387	NA	709	99.1
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	NA	NA	ND@10	NA	ND@10
METHYL BUTYL KETONE	ug/l	ND@1	NA	NA	ND@1	NA	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	NA	NA	ND@2	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	NA	ND@1	NA	ND@1
N-BUTYL ACETATE	ug/l	ND@2	NA	NA	ND@2	NA	ND@2
VINYL ACETATE	ug/l	ND@2	NA	NA	ND@2	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@2.0	ND@2.0	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@2.0	ND@2.0	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	NA	NA	ND@1	NA	ND@1

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Sample Location		EN-125	EN-127	EN-129	EN-130	EN-131	EN-132
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/10/2003	03/13/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302590	0302364	0302372	0302636	0302382	0302581
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	27.02	ND@1.0	0.47 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	1.60	ND@1.0	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@2.0	ND@2.0	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	57.6	3.41	ND@10	ND@1.0	ND@10
BENZENE	ug/l	ND@1	ND@2.0	ND@2.0	0.98 J	ND@1.0	ND@1
BROMOBENZENE	ug/l	NA	ND@2.0	ND@2.0	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
BROMOFORM	ug/l	ND@2	ND@2.0	ND@2.0	ND@2	ND@1.0	ND@2
BROMOMETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
CARBON DISULFIDE	ug/l	ND@1	NA	NA	ND@1	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	0.59 J
CHLOROBENZENE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1

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Sample Location		EN-125	EN-127	EN-129	EN-130	EN-131	EN-132
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/10/2003	03/13/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302590	0302364	0302372	0302636	0302382	0302581
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
CHLOROFORM	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	5.8	ND@2.0	11.49	ND@1.0	0.41 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2.0	ND@2.0	ND@2	ND@1.0	ND@2
DIBROMOMETHANE	ug/l	NA	ND@2.0	ND@2.0	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2.0	ND@2.0	ND@2	ND@1.0	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	0.85 J	0.32 J
METHYLENE CHLORIDE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	0.39 J	ND@2.0	11.36	ND@1.0	3.57
TETRAHYDROFURAN	ug/l	ND@10	ND@2.0	ND@2.0	ND@10	ND@1.0	ND@10
TOLUENE	ug/l	ND@1	ND@2.0	ND@2.0	0.12 J	ND@1.0	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2.0	ND@2.0	ND@2	ND@1.0	ND@2
TRICHLOROETHENE	ug/l	ND@1	28.3	ND@2.0	6.79	0.34 J	3.02
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@2.0	ND@2.0	ND@1	ND@1.0	ND@1
VINYL CHLORIDE	ug/l	ND@1	0.39 J	ND@2.0	2.82	ND@1.0	ND@1

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Sample Location		EN-133	EN-150	EN-152	EN-154	EN-157	EN-160
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/12/2003	03/11/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302407	0302414	0302604	0302415	0302396	0302409
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.47	7.19	7.14	6.98	6.52	6.52
SPECIFIC CONDUCTANCE	umhos/cm	3020	1431	2190	1840	1457	3350
TEMPERATURE	C	14.18	9.72	12.61	12.59	7.97	15.43
TURBIDITY	tu	0.57	56.8	8.53	68.7	19.0	0.40
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	ND@10	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	ND@1	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	ND@2	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	ND@1	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	ND@2	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	ND@2	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	NA	ND@10.0	ND@1.0	ND@50.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	NA	ND@10.0	ND@1.0	ND@50.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
1,4-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	ND@1	NA	NA	NA

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Sample Location		EN-133	EN-150	EN-152	EN-154	EN-157	EN-160
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/12/2003	03/11/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302407	0302414	0302604	0302415	0302396	0302409
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
1,1,1-TRICHLOROETHANE	ug/l	7.7	1.93	1.64	79.0	ND@1.0	17.8 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	0.78 J	0.43 J	15.1	ND@1.0	ND@50.0
1,1,2-TRICHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
1,1-DICHLOROETHANE	ug/l	4.61 J	9.6	1.26	23.0	ND@1.0	ND@50.0
1,1-DICHLOROETHENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@5.0	ND@1.0	NA	ND@10.0	ND@1.0	ND@50.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	0.34 J	0.72 J	ND@10.0	ND@1.0	ND@50.0
1,2-DICHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@5.0	ND@1.0	ND@10	ND@10.0	ND@1.0	ND@50.0
BENZENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
BROMOBENZENE	ug/l	ND@5.0	ND@1.0	NA	ND@10.0	ND@1.0	ND@50.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
BROMOFORM	ug/l	ND@5.0	ND@1.0	ND@2	ND@10.0	ND@1.0	ND@50.0
BROMOMETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
CARBON DISULFIDE	ug/l	NA	NA	ND@1	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
CHLOROBENZENE	ug/l	3.23 J	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
CHLORODIBROMOMETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0

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Sample Location		EN-133	EN-150	EN-152	EN-154	EN-157	EN-160
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/12/2003	03/11/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302407	0302414	0302604	0302415	0302396	0302409
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
CHLOROFORM	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
CHLOROMETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
CIS-1,2-DICHLOROETHENE	ug/l	26.7	0.24 J	0.62 J	12.7	ND@1.0	70.6
CIS-1,3-DICHLOROPROPENE	ug/l	ND@5.0	ND@1.0	ND@2	ND@10.0	ND@1.0	ND@50.0
DIBROMOMETHANE	ug/l	ND@5.0	ND@1.0	NA	ND@10.0	ND@1.0	ND@50.0
DICHLORODIFLUOROMETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
ETHYLBENZENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@5.0	ND@1.0	ND@2	ND@10.0	ND@1.0	ND@50.0
METHYL T-BUTYL ETHER	ug/l	ND@5.0	0.63 J	0.36 J	ND@10.0	ND@1.0	ND@50.0
METHYLENE CHLORIDE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	2.80 J	ND@1.0	4.32	156	ND@1.0	ND@50.0
TETRAHYDROFURAN	ug/l	ND@5.0	ND@1.0	ND@10	ND@10.0	ND@1.0	ND@50.0
TOLUENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@5.0	ND@1.0	ND@2	ND@10.0	ND@1.0	ND@50.0
TRICHLOROETHENE	ug/l	62.6	2.19	2.77	ND@10.0	ND@1.0	297
TRICHLOROFLUOROMETHANE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0
VINYL CHLORIDE	ug/l	ND@5.0	ND@1.0	ND@1	ND@10.0	ND@1.0	ND@50.0

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Sample Location		EN-161	EN-162	EN-163	EN-163	EN-166	EN-170
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/11/2003	03/12/2003
Laboratory Sample I.D.		0302383	0302381	0302380	221990-3	0302413	0302597
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.76	7.15	6.89	6.89	6.81	6.65
SPECIFIC CONDUCTANCE	umhos/cm	4560	805	1299	1299	1075	6600
TEMPERATURE	C	11.85	9.94	11.65	11.65	11.32	13.06
TURBIDITY	tu	814	1000	182	182	791	1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	ND@200
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@20
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@40
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@20
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@40
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@40
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,4-DICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@20

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Sample Location		EN-161	EN-162	EN-163	EN-163	EN-166	EN-170
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/11/2003	03/12/2003
Laboratory Sample I.D.		0302383	0302381	0302380	221990-3	0302413	0302597
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1,1-TRICHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1,2-TRICHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1-DICHLOROETHANE	ug/l	ND@20.0	ND@1.0	1.04	1.1	0.33 J	ND@20
1,1-DICHLOROETHENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,2-DICHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	3.3	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@20.0	ND@1.0	ND@1.0	NA	1.52	ND@200
BENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
BROMOBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
BROMOFORM	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@40
BROMOMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	ND@20
CARBON TETRACHLORIDE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLORODIBROMOMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20

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Sample Location		EN-161	EN-162	EN-163	EN-163	EN-166	EN-170
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/11/2003	03/12/2003
Laboratory Sample I.D.		0302383	0302381	0302380	221990-3	0302413	0302597
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLOROFORM	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLOROMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CIS-1,2-DICHLOROETHENE	ug/l	160	6.2	2.26	NA	ND@1.0	192.42
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@40
DIBROMOMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
ETHYLBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@40
METHYL T-BUTYL ETHER	ug/l	ND@20.0	ND@1.0	ND@1.0	NA	ND@1.0	ND@20
METHYLENE CHLORIDE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	0.69 J	ND@20
TETRAHYDROFURAN	ug/l	ND@20.0	ND@1.0	ND@1.0	NA	ND@1.0	ND@200
TOLUENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
TRANS-1,2-DICHLOROETHENE	ug/l	ND@20.0	ND@1.0	ND@1.0	NA	ND@1.0	ND@20
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@40
TRICHLOROETHENE	ug/l	29.8	5.8	4.98	5.2	0.41 J	39.99
TRICHLOROFLUOROMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20
VINYL CHLORIDE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@20

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Sample Location		EN-173	EN-174	EN-176	EN-177	EN-178	EN-179
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/11/2003	03/12/2003	03/10/2003	03/11/2003
Laboratory Sample I.D.		0302598	0302365	0302416	0302606	0302379	0302425
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	6.90	6.69	7.59	7.41	7.44
SPECIFIC CONDUCTANCE	umhos/cm	NA	1428	2170	714	1810	1094
TEMPERATURE	C	NA	12.99	10.78	10.12	8.50	9.78
TURBIDITY	tu	NA	28.3	176	126	941	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@20	NA	NA	ND@10	NA	NA
METHYL BUTYL KETONE	ug/l	ND@2	NA	NA	ND@1	NA	NA
METHYL ETHYL KETONE	ug/l	ND@4	NA	NA	ND@2	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@2	NA	NA	ND@1	NA	NA
N-BUTYL ACETATE	ug/l	ND@4	NA	NA	ND@2	NA	NA
VINYL ACETATE	ug/l	ND@4	NA	NA	ND@2	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@2	NA	NA	ND@1	NA	NA

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Sample Location		EN-173	EN-174	EN-176	EN-177	EN-178	EN-179
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/11/2003	03/12/2003	03/10/2003	03/11/2003
Laboratory Sample I.D.		0302598	0302365	0302416	0302606	0302379	0302425
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@2	ND@1.0	2.48	1.19	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@2	1.04	3.07	ND@1	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@20	ND@1.0	ND@1.0	ND@10	ND@1.0	ND@1.0
BENZENE	ug/l	1.64 J	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	NA	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@4	ND@1.0	ND@1.0	ND@2	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	ND@2	NA	NA	ND@1	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0

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Sample Location		EN-173	EN-174	EN-176	EN-177	EN-178	EN-179
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/11/2003	03/12/2003	03/10/2003	03/11/2003
Laboratory Sample I.D.		0302598	0302365	0302416	0302606	0302379	0302425
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	0.72 J
CHLOROMETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	2.12	3.47	1.39	ND@1	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@1.0	ND@1.0	ND@2	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	NA	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@4	ND@1.0	ND@1.0	ND@2	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@2	ND@1.0	0.14 J	1.07	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@20	ND@1.0	ND@1.0	ND@10	ND@1.0	ND@1.0
TOLUENE	ug/l	0.35 J	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	0.53 J	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@1.0	ND@1.0	ND@2	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@2	0.73 J	0.67 J	7.37	6.6	9.8
TRICHLOROFLUOROMETHANE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	49.23	ND@1.0	ND@1.0	ND@1	ND@1.0	ND@1.0

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Sample Location		EN-180	EN-182	EN-183	EN-185	EN-187	EN-188
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/08/2003	03/12/2003	03/12/2003	03/10/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0303432	0302596	0302595	0302405	0302628	0302627
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	6.55	6.61	6.32	7.29	6.72
SPECIFIC CONDUCTANCE	umhos/cm	NA	4650	2150	2800	1425	12320
TEMPERATURE	C	NA	13.79	14.06	14.34	10.88	12.64
TURBIDITY	tu	NA	>1000	237	3.49	>1000	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	ND@200	ND@50	NA	ND@10	ND@10
METHYL BUTYL KETONE	ug/l	ND@1	ND@20	ND@5	NA	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@40	ND@10	NA	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@20	ND@5	NA	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@40	ND@10	NA	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@40	ND@10	NA	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@50.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@50.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	0.21 J	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@20	ND@5	NA	ND@1	ND@1

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Sample Location		EN-180	EN-182	EN-183	EN-185	EN-187	EN-188
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/08/2003	03/12/2003	03/12/2003	03/10/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0303432	0302596	0302595	0302405	0302628	0302627
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	0.42 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	0.85 J
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	ND@50.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@200	ND@50	122	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@20	2.91 J	ND@50.0	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	ND@50.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@40	ND@10	ND@50.0	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@20	ND@5	NA	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1

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Sample Location		EN-180	EN-182	EN-183	EN-185	EN-187	EN-188
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		04/08/2003	03/12/2003	03/12/2003	03/10/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0303432	0302596	0302595	0302405	0302628	0302627
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@20	ND@5	ND@50.0	0.43 J	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	492.09	35.12	450	0.30 J	1.32
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@40	ND@10	ND@50.0	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	ND@50.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@40	ND@10	ND@50.0	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	0.60 J
METHYLENE CHLORIDE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	8.04	19.48
TETRAHYDROFURAN	ug/l	ND@10	ND@200	ND@50	1216	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@20	1.08 J	ND@50.0	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@40	ND@10	ND@50.0	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	18.69 J	ND@5	ND@50.0	2.67	2.77
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@20	ND@5	ND@50.0	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	9.15 J	102.79	248	ND@1	ND@1

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Sample Location		EN-189	EN-190	EN-191	EN-192	EN-193	EN-194
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/10/2003	03/12/2003	03/12/2003	03/12/2003	03/10/2003
Laboratory Sample I.D.		0302626	0302363	0302591	0302592	0302593	0302408
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.92	7.13	6.93	6.94	6.71	6.48
SPECIFIC CONDUCTANCE	umhos/cm	7220	4550	3750	5480	7480	3880
TEMPERATURE	C	11.68	12.05	13.58	13.77	13.85	13.88
TURBIDITY	tu	>1000	169	>1000	716	1000	0.47
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@100	NA	ND@200	ND@50	ND@50	NA
METHYL BUTYL KETONE	ug/l	ND@10	NA	ND@20	ND@5	ND@5	NA
METHYL ETHYL KETONE	ug/l	ND@20	NA	ND@40	ND@10	ND@10	NA
METHYL ISOBUTYL KETONE	ug/l	ND@10	NA	ND@20	ND@5	ND@5	NA
N-BUTYL ACETATE	ug/l	ND@20	NA	ND@40	ND@10	ND@10	NA
VINYL ACETATE	ug/l	ND@20	NA	ND@40	ND@10	ND@10	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@50.0	NA	NA	NA	ND@20.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@50.0	NA	NA	NA	ND@20.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,4-DICHLOROBENZENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@10	NA	ND@20	ND@5	ND@5	NA

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Sample Location		EN-189	EN-190	EN-191	EN-192	EN-193	EN-194
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/10/2003	03/12/2003	03/12/2003	03/12/2003	03/10/2003
Laboratory Sample I.D.		0302626	0302363	0302591	0302592	0302593	0302408
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,1,1-TRICHLOROETHANE	ug/l	4.11 J	28.1 J	ND@20	4.09 J	2.65 J	4.57 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,1-DICHLOROETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,1-DICHLOROETHENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@50.0	NA	NA	NA	ND@20.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,2-DICHLOROETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@100	ND@50.0	ND@200	ND@50	ND@50	ND@20.0
BENZENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
BROMOBENZENE	ug/l	NA	ND@50.0	NA	NA	NA	ND@20.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
BROMOFORM	ug/l	ND@20	ND@50.0	ND@40	ND@10	ND@10	ND@20.0
BROMOMETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
CARBON DISULFIDE	ug/l	ND@10	NA	ND@20	ND@5	ND@5	NA
CARBON TETRACHLORIDE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
CHLOROBENZENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
CHLORODIBROMOMETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0

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Sample Location		EN-189	EN-190	EN-191	EN-192	EN-193	EN-194
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/13/2003	03/10/2003	03/12/2003	03/12/2003	03/12/2003	03/10/2003
Laboratory Sample I.D.		0302626	0302363	0302591	0302592	0302593	0302408
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
CHLOROFORM	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
CHLOROMETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@10	116	8.98 J	3.49 J	10.65	13.6 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@50.0	ND@40	ND@10	ND@10	ND@20.0
DIBROMOMETHANE	ug/l	NA	ND@50.0	NA	NA	NA	ND@20.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
ETHYLBENZENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@20	ND@50.0	ND@40	ND@10	ND@10	ND@20.0
METHYL T-BUTYL ETHER	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
METHYLENE CHLORIDE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	59.78	ND@50.0	ND@20	ND@5	14.54	ND@20.0
TETRAHYDROFURAN	ug/l	ND@100	ND@50.0	ND@200	ND@50	ND@50	ND@20.0
TOLUENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@50.0	ND@40	ND@10	ND@10	ND@20.0
TRICHLOROETHENE	ug/l	ND@10	409	146.50	61.99	50.14	181
TRICHLOROFLUOROMETHANE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0
VINYL CHLORIDE	ug/l	ND@10	ND@50.0	ND@20	ND@5	ND@5	ND@20.0

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Sample Location		EN-195	EN-196	EN-197	EN-200	EN-201	EN-202
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/11/2003	03/11/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302404	0302427	0302430	0302429	0302397	0302579
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.50	6.27	6.45	6.95	7.88	7.04
SPECIFIC CONDUCTANCE	umhos/cm	6760	948	1134	2440	675	194
TEMPERATURE	C	14.37	7.21	9.80	12.39	7.43	13.64
TURBIDITY	tu	1.15	134	245	>1000	40.6	12.6
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	ND@10
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@1
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@1
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@2
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	ND@1

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Sample Location		EN-195	EN-196	EN-197	EN-200	EN-201	EN-202
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/11/2003	03/11/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302404	0302427	0302430	0302429	0302397	0302579
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	5.2	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.79 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1-DICHLOROETHANE	ug/l	0.71 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1-DICHLOROETHENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,2-DICHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10
BENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
BROMOBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
BROMOFORM	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
BROMOMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1

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Sample Location		EN-195	EN-196	EN-197	EN-200	EN-201	EN-202
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/11/2003	03/11/2003	03/10/2003	03/12/2003
Laboratory Sample I.D.		0302404	0302427	0302430	0302429	0302397	0302579
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROFORM	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	56.8	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
DIBROMOMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
ETHYLBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
METHYLENE CHLORIDE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	0.21 J	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	17.1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	6.79
TETRAHYDROFURAN	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10
TOLUENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
TRICHLOROETHENE	ug/l	42.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	3.91
TRICHLOROFLUOROMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
VINYL CHLORIDE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1

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Sample Location		EN-203	EN-204	EN-206	EN-206	EN-207	EN-210
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302582	0302393	0302392	221990-4	0302378	0302377
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.65	7.34	6.96	6.96	7.11	7.24
SPECIFIC CONDUCTANCE	umhos/cm	413	1300	200	200	2130	1560
TEMPERATURE	C	14.74	10.85	11.64	11.64	11.13	8.25
TURBIDITY	tu	35.3	92.8	50.7	50.7	81.9	250
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	ND@1	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	ND@2	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	ND@2	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	ND@2	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	ND@1	NA	NA	ND@1.0	NA	NA

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Sample Location		EN-203	EN-204	EN-206	EN-206	EN-207	EN-210
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302582	0302393	0302392	221990-4	0302378	0302377
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,1,1-TRICHLOROETHANE	ug/l	1.20	ND@10.0	1.67 J	5.1	ND@1.0	0.26 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,1-DICHLOROETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,1-DICHLOROETHENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,2-DICHLOROETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	15	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@10	ND@10.0	ND@10.0	NA	ND@1.0	ND@2.0
BENZENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
BROMOBENZENE	ug/l	NA	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
BROMOFORM	ug/l	ND@2	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
BROMOMETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
CARBON DISULFIDE	ug/l	ND@1	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
CHLOROBENZENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0

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Sample Location		EN-203	EN-204	EN-206	EN-206	EN-207	EN-210
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		03/12/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/10/2003
Laboratory Sample I.D.		0302582	0302393	0302392	221990-4	0302378	0302377
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
CHLOROFORM	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
CHLOROMETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	1.43 J	6.6 J	NA	0.57 J	ND@2.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
DIBROMOMETHANE	ug/l	NA	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
ETHYLBENZENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@10.0	ND@10.0	NA	ND@1.0	ND@2.0
METHYLENE CHLORIDE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@10.0	3.37 J	5.0	ND@1.0	ND@2.0
TETRAHYDROFURAN	ug/l	ND@10	ND@10.0	ND@10.0	NA	ND@1.0	ND@2.0
TOLUENE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@10.0	ND@10.0	NA	ND@1.0	ND@2.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
TRICHLOROETHENE	ug/l	11.73	85.4	84.4	68 D	14.8	52.7
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0
VINYL CHLORIDE	ug/l	ND@1	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@2.0

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Sample Location		EN-210	EN-211	EN-215	EN-218	EN-219	EN-220
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/12/2003	03/10/2003	03/13/2003	03/12/2003	03/11/2003
Laboratory Sample I.D.		221990-5	0302580	0302391	0302642	0302521	0302419
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.24	7.04	6.85	7.25	7.22	7.02
SPECIFIC CONDUCTANCE	umhos/cm	1560	176	473	1190	3880	5600
TEMPERATURE	C	8.25	14.05	11.32	12.43	11.96	8.91
TURBIDITY	tu	250	17.8	142	1.64	12.8	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	ND@1	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	ND@2	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	ND@2	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	ND@2	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
HEXACHLOROBUTADIENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1.0	ND@1	NA	NA	NA	NA

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Sample Location		EN-210	EN-211	EN-215	EN-218	EN-219	EN-220
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/12/2003	03/10/2003	03/13/2003	03/12/2003	03/11/2003
Laboratory Sample I.D.		221990-5	0302580	0302391	0302642	0302521	0302419
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,1,1-TRICHLOROETHANE	ug/l	1.5	0.36 J	2.52 J	1.41	5074	ND@1000.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	1.65	ND@20.0	1.24	ND@1000.0	12797
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	2.71	ND@20.0	6.0	1028	ND@1000.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@20.0	0.48 J	ND@1000.0	ND@1000.0
1,1-DICHLOROPROPENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,2-DIBROMOETHANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	0.90 J	ND@20.0	1.82	ND@1000.0	ND@1000.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,2-DICHLOROETHENE, TOTAL	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
1,3-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
ACETONE	ug/l	NA	ND@10	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
BENZENE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
BROMOBENZENE	ug/l	ND@1.0	NA	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
BROMOCHLOROMETHANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
BROMOFORM	ug/l	ND@1.0	ND@2	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
BROMOMETHANE	ug/l	ND@1.0	ND@1	ND@20.0	1.11	ND@1000.0	ND@1000.0
CARBON DISULFIDE	ug/l	NA	ND@1	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0

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Sample Location		EN-210	EN-211	EN-215	EN-218	EN-219	EN-220
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/12/2003	03/10/2003	03/13/2003	03/12/2003	03/11/2003
Laboratory Sample I.D.		221990-5	0302580	0302391	0302642	0302521	0302419
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
CHLOROFORM	ug/l	ND@1.0	ND@1	ND@20.0	0.88 J	ND@1000.0	ND@1000.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
CIS-1,2-DICHLOROETHENE	ug/l	NA	3.32	5.7 J	12.8	5976	ND@1000.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
DIBROMOMETHANE	ug/l	ND@1.0	NA	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@20.0	0.18 J	ND@1000.0	ND@1000.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
ISOPROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@2	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
METHYL T-BUTYL ETHER	ug/l	NA	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
N-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
SEC-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	0.87 J	11.2 J	0.47 J	ND@1000.0	ND@1000.0
TETRAHYDROFURAN	ug/l	NA	ND@10	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
TOLUENE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
TRANS-1,2-DICHLOROETHENE	ug/l	NA	ND@1	ND@20.0	0.27 J	287 J	ND@1000.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
TRICHLOROETHENE	ug/l	53 E	2.00	112	1.94	6366	ND@1000.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@20.0	ND@1.0	ND@1000.0	ND@1000.0
VINYL CHLORIDE	ug/l	ND@1.0	1.02	ND@20.0	2.26	ND@1000.0	ND@1000.0

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Sample Location		EN-221	EN-222	EN-253	EN-276	EN-277	EN-278
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/11/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0302420	0302406	0302462	0302417	0302624	0302623
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.14	6.29	6.42	6.96	6.77	6.67
SPECIFIC CONDUCTANCE	umhos/cm	10640	1690	499	1610	6330	5580
TEMPERATURE	C	7.74	15.17	11.56	20.57	11.59	13.94
TURBIDITY	tu	>1000	2.16	20.2	1.36	>1000	1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	ND@100	ND@500
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	ND@10	ND@50
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	ND@20	ND@100
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	ND@10	ND@50
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	ND@20	ND@100
VINYL ACETATE	ug/l	NA	NA	NA	NA	ND@20	ND@100
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
1,4-DICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	ND@10	ND@50

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Sample Location		EN-221	EN-222	EN-253	EN-276	EN-277	EN-278
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/11/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0302420	0302406	0302462	0302417	0302624	0302623
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
1,1,1-TRICHLOROETHANE	ug/l	ND@50.0	ND@1.0	11979	659	49.59	97.23
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	976	ND@1.0	ND@10000.0	297	3.84 J	ND@50
1,1,2-TRICHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
1,1-DICHLOROETHANE	ug/l	116	0.47 J	ND@10000.0	ND@50.0	20.98	542.32
1,1-DICHLOROETHENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	20.77 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	166	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
1,2-DICHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@100	ND@500
BENZENE	ug/l	ND@50.0	0.21 J	ND@10000.0	ND@50.0	ND@10	ND@50
BROMOBENZENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
BROMOFORM	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@20	ND@100
BROMOMETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	ND@10	ND@50
CARBON TETRACHLORIDE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
CHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
CHLORODIBROMOMETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50

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Sample Location		EN-221	EN-222	EN-253	EN-276	EN-277	EN-278
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/11/2003	03/10/2003	03/10/2003	03/11/2003	03/13/2003	03/13/2003
Laboratory Sample I.D.		0302420	0302406	0302462	0302417	0302624	0302623
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	15.8 J	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
CHLOROFORM	ug/l	ND@50.0	0.66 J	ND@10000.0	ND@50.0	ND@10	ND@50
CHLOROMETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
CIS-1,2-DICHLOROETHENE	ug/l	ND@50.0	1.30	ND@10000.0	ND@50.0	43.27	2014.59
CIS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@20	ND@100
DIBROMOMETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	20.6 J	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
ETHYLBENZENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@20	ND@100
METHYL T-BUTYL ETHER	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
METHYLENE CHLORIDE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@50.0	0.15 J	ND@10000.0	ND@50.0	ND@10	ND@50
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	93.9	ND@10	22.80 J
TETRAHYDROFURAN	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@100	ND@500
TOLUENE	ug/l	ND@50.0	0.10 J	ND@10000.0	ND@50.0	ND@10	ND@50
TRANS-1,2-DICHLOROETHENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	16.39 J
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@20	ND@100
TRICHLOROETHENE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	125.64	503.93
TRICHLOROFLUOROMETHANE	ug/l	ND@50.0	ND@1.0	ND@10000.0	ND@50.0	ND@10	ND@50
VINYL CHLORIDE	ug/l	ND@50.0	2.62	ND@10000.0	ND@50.0	ND@10	ND@50

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Sample Location		EN-279	EN-281	EN-282	EN-283	EN-284	EN-284
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		03/13/2003	03/12/2003	03/12/2003	03/13/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302622	0302600	0302610	0302631	0302449	221986-4
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.60	6.53	6.87	7.06	6.66	6.66
SPECIFIC CONDUCTANCE	umhos/cm	12160	3400	3140	5740	675	675
TEMPERATURE	C	13.25	12.99	12.66	10.06	14.17	14.17
TURBIDITY	tu	1000	346	155	892	11.1	11.1
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@200	ND@200	ND@500	ND@10	ND@200	NA
METHYL BUTYL KETONE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	NA
METHYL ETHYL KETONE	ug/l	ND@40	ND@40	ND@100	ND@2	ND@40	NA
METHYL ISOBUTYL KETONE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	NA
N-BUTYL ACETATE	ug/l	ND@40	ND@40	ND@100	ND@2	ND@40	NA
VINYL ACETATE	ug/l	ND@40	ND@40	ND@100	ND@2	ND@40	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
STYRENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0

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Sample Location		EN-279	EN-281	EN-282	EN-283	EN-284	EN-284
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		03/13/2003	03/12/2003	03/12/2003	03/13/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302622	0302600	0302610	0302631	0302449	221986-4
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	45.09	ND@20	ND@50	1.25	53.81	64
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
1,1-DICHLOROETHANE	ug/l	248.76	ND@20	ND@50	ND@1	133.11	170 D
1,1-DICHLOROETHENE	ug/l	9.15 J	ND@20	ND@50	ND@1	ND@20	11
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	3.8
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	780 D
1,2-DICHLOROPROPANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
ACETONE	ug/l	ND@200	ND@200	ND@500	ND@10	ND@200	NA
BENZENE	ug/l	ND@20	5.15 J	ND@50	ND@1	ND@20	ND@1.0
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
BROMOFORM	ug/l	ND@40	ND@40	ND@100	ND@2	ND@40	ND@1.0
BROMOMETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
CARBON DISULFIDE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	NA
CARBON TETRACHLORIDE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
CHLOROBENZENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0

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Sample Location		EN-279	EN-281	EN-282	EN-283	EN-284	EN-284
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		03/13/2003	03/12/2003	03/12/2003	03/13/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302622	0302600	0302610	0302631	0302449	221986-4
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
CHLOROFORM	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	1.2
CHLOROMETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	465.50	792.75	876.05	0.32 J	775.74	NA
CIS-1,3-DICHLOROPROPENE	ug/l	ND@40	ND@40	ND@100	ND@2	ND@40	ND@1.0
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
ETHYLBENZENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
M,P-XYLENE	ug/l	ND@40	ND@40	ND@100	ND@2	ND@40	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	NA
METHYLENE CHLORIDE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
O-XYLENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TETRACHLOROETHENE	ug/l	28.80	ND@20	ND@50	7.22	12.30 J	12
TETRAHYDROFURAN	ug/l	ND@200	ND@200	ND@500	ND@10	ND@200	NA
TOLUENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@40	ND@40	ND@100	ND@2	ND@40	ND@1.0
TRICHLOROETHENE	ug/l	230.08	ND@20	ND@50	12.84	399.25	510 D
TRICHLOROFLUOROMETHANE	ug/l	ND@20	ND@20	ND@50	ND@1	ND@20	ND@1.0
VINYL CHLORIDE	ug/l	ND@20	328.86	382.28	ND@1	ND@20	ND@1.0

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Sample Location		EN-CAF	EN-D01	EN-D02	EN-D03	EN-D04	EN-D04S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/13/2003	03/13/2003	03/11/2003	03/12/2003
Laboratory Sample I.D.		0302403	0302439	0302617	0302618	0302437	0302578
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.68	7.27	7.53	7.50	7.38	7.76
SPECIFIC CONDUCTANCE	umhos/cm	1218	1077	663	773	630	447
TEMPERATURE	C	15.05	12.23	12.05	11.25	10.48	10.12
TURBIDITY	tu	4.24	8.79	1.83	1.42	43.2	51.8
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	ND@10
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@1
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@1
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@2
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	ND@1

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Sample Location		EN-CAF	EN-D01	EN-D02	EN-D03	EN-D04	EN-D04S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/13/2003	03/13/2003	03/11/2003	03/12/2003
Laboratory Sample I.D.		0302403	0302439	0302617	0302618	0302437	0302578
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	45.8	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1-DICHLOROETHANE	ug/l	43.7	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1-DICHLOROETHENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,2-DICHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@20.0	0.90 J	ND@1.0	ND@1.0	ND@1.0	ND@10
BENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
BROMOBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
BROMOFORM	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
BROMOMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1

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Sample Location		EN-CAF	EN-D01	EN-D02	EN-D03	EN-D04	EN-D04S
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		03/10/2003	03/11/2003	03/13/2003	03/13/2003	03/11/2003	03/12/2003
Laboratory Sample I.D.		0302403	0302439	0302617	0302618	0302437	0302578
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROFORM	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CHLOROMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	58.7	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
DIBROMOMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
ETHYLBENZENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
METHYLENE CHLORIDE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	0.54 J	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
TETRAHYDROFURAN	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10
TOLUENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2
TRICHLOROETHENE	ug/l	195	ND@1.0	ND@1.0	ND@1.0	1.04	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1
VINYL CHLORIDE	ug/l	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1

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Sample Location		EN-D05S	EN-D07	EN-D11	EN-D13	EN-D13	EN-D14
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		03/12/2003	03/11/2003	03/11/2003	03/11/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302577	0302438	0302440	0302441	221990-6	0302442
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.98	7.41	7.73	7.08	7.08	7.01
SPECIFIC CONDUCTANCE	umhos/cm	934	774	168	166	166	181
TEMPERATURE	C	10.44	12.30	11.50	14.46	14.46	13.99
TURBIDITY	tu	38.9	22.4	12.4	77.4	77.4	303
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	ND@1	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	ND@2	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	ND@2	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	ND@2	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
STYRENE	ug/l	ND@1	NA	NA	NA	ND@1.0	NA

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Sample Location		EN-D05S	EN-D07	EN-D11	EN-D13	EN-D13	EN-D14
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		03/12/2003	03/11/2003	03/11/2003	03/11/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302577	0302438	0302440	0302441	221990-6	0302442
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	0.43 J	ND@1.0	0.47 J	ND@1.0	1.15
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	11.3	9.9	12.5
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.44 J
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@10	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
BENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@2	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	ND@1	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-D05S	EN-D07	EN-D11	EN-D13	EN-D13	EN-D14
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		03/12/2003	03/11/2003	03/11/2003	03/11/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302577	0302438	0302440	0302441	221990-6	0302442
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	0.41 J	ND@1.0	2.08
CHLOROFORM	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1.0	0.12 J	NA	0.33 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	0.41 J	ND@1.0	0.63 J
ETHYLBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1	0.61 J	ND@1.0	0.38 J	NA	0.39 J
METHYLENE CHLORIDE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@10	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
TOLUENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1.0	23.6	24	10.4
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	FIELD BLANK
Sample Description		WTR LVL IND	SUBM PUMP	BAILER	BAILER	WTR LVL IND	EN-104
Sample Date		03/10/2003	03/11/2003	03/12/2003	03/13/2003	04/08/2003	03/10/2003
Laboratory Sample I.D.		0302388	0302436	0302611	0302620	0303430	0302463
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	ND@10	ND@10	ND@10	NA
METHYL BUTYL KETONE	ug/l	NA	NA	ND@1	ND@1	ND@1	NA
METHYL ETHYL KETONE	ug/l	NA	NA	ND@2	ND@2	ND@2	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	ND@1	ND@1	ND@1	NA
N-BUTYL ACETATE	ug/l	NA	NA	ND@2	ND@2	ND@2	NA
VINYL ACETATE	ug/l	NA	NA	ND@2	ND@2	ND@2	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	ND@1	ND@1	ND@1	NA

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	FIELD BLANK
Sample Description		WTR LVL IND	SUBM PUMP	BAILER	BAILER	WTR LVL IND	EN-104
Sample Date		03/10/2003	03/11/2003	03/12/2003	03/13/2003	04/08/2003	03/10/2003
Laboratory Sample I.D.		0302388	0302436	0302611	0302620	0303430	0302463
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@10	ND@10	ND@10	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@2	ND@2	ND@2	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	ND@1	ND@1	ND@1	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	FIELD BLANK
Sample Description		WTR LVL IND	SUBM PUMP	BAILER	BAILER	WTR LVL IND	EN-104
Sample Date		03/10/2003	03/11/2003	03/12/2003	03/13/2003	04/08/2003	03/10/2003
Laboratory Sample I.D.		0302388	0302436	0302611	0302620	0303430	0302463
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2	ND@2	ND@2	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@2	ND@2	ND@2	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@10	ND@10	ND@10	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2	ND@2	ND@2	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0

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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-D13	EN-073	EN-278	EN-096	3/7-3/12	3/7-3/12
Sample Date		03/11/2003	03/12/2003	03/13/2003	04/08/2003	03/07/2003	03/07/2003
Laboratory Sample I.D.		0302435	0302612	0302621	0303429	221990-1	221986-1
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10	ND@10	ND@10	NA	NA
METHYL BUTYL KETONE	ug/l	NA	ND@1	ND@1	ND@1	NA	NA
METHYL ETHYL KETONE	ug/l	NA	ND@2	ND@2	ND@2	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1	ND@1	ND@1	NA	NA
N-BUTYL ACETATE	ug/l	NA	ND@2	ND@2	ND@2	NA	NA
VINYL ACETATE	ug/l	NA	ND@2	ND@2	ND@2	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
NAPHTHALENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
STYRENE	ug/l	NA	ND@1	ND@1	ND@1	ND@1.0	ND@1.0

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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-D13	EN-073	EN-278	EN-096	3/7-3/12	3/7-3/12
Sample Date		03/11/2003	03/12/2003	03/13/2003	04/08/2003	03/07/2003	03/07/2003
Laboratory Sample I.D.		0302435	0302612	0302621	0303429	221990-1	221986-1
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
ACETONE	ug/l	ND@1.0	ND@10	ND@10	ND@10	NA	NA
BENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@2	ND@2	ND@2	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	ND@1	ND@1	ND@1	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-D13	EN-073	EN-278	EN-096	3/7-3/12	3/7-3/12
Sample Date		03/11/2003	03/12/2003	03/13/2003	04/08/2003	03/07/2003	03/07/2003
Laboratory Sample I.D.		0302435	0302612	0302621	0303429	221990-1	221986-1
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	NA	NA
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@2	ND@2	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@2	ND@2	ND@2	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1	ND@1	ND@1	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@10	ND@10	ND@10	NA	NA
TOLUENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	NA	NA
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@2	ND@2	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
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March 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/10-3/12	3/10-3/12	3/10-3/12	3/10-3/12	3/11-3/12	3/11-3/12
Sample Date		03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302373	0302360	0302399	0302387	0302424	0302412
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

Supplemental Groundwater Assessment
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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/10-3/12	3/10-3/12	3/10-3/12	3/10-3/12	3/11-3/12	3/11-3/12
Sample Date		03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302373	0302360	0302399	0302387	0302424	0302412
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/10-3/12	3/10-3/12	3/10-3/12	3/10-3/12	3/11-3/12	3/11-3/12
Sample Date		03/10/2003	03/10/2003	03/10/2003	03/10/2003	03/11/2003	03/11/2003
Laboratory Sample I.D.		0302373	0302360	0302399	0302387	0302424	0302412
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/11-3/12	3/12-3/14	3/12-3/14	3/12-3/14	3/12-3/14	3/13-3/14
Sample Date		03/11/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003	03/13/2003
Laboratory Sample I.D.		0302434	0302519	0302589	0302601	0302576	0302640
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	ND@10	ND@10	ND@10	NA
METHYL BUTYL KETONE	ug/l	NA	NA	ND@1	ND@1	ND@1	NA
METHYL ETHYL KETONE	ug/l	NA	NA	ND@2	ND@2	ND@2	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	ND@1	ND@1	ND@1	NA
N-BUTYL ACETATE	ug/l	NA	NA	ND@2	ND@2	ND@2	NA
VINYL ACETATE	ug/l	NA	NA	ND@2	ND@2	ND@2	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	ND@1	ND@1	ND@1	NA

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March 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/11-3/12	3/12-3/14	3/12-3/14	3/12-3/14	3/12-3/14	3/13-3/14
Sample Date		03/11/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003	03/13/2003
Laboratory Sample I.D.		0302434	0302519	0302589	0302601	0302576	0302640
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@10	ND@10	ND@10	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@2	ND@2	ND@2	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	ND@1	ND@1	ND@1	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/11-3/12	3/12-3/14	3/12-3/14	3/12-3/14	3/12-3/14	3/13-3/14
Sample Date		03/11/2003	03/12/2003	03/12/2003	03/12/2003	03/12/2003	03/13/2003
Laboratory Sample I.D.		0302434	0302519	0302589	0302601	0302576	0302640
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2	ND@2	ND@2	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	NA	NA	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@2	ND@2	ND@2	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@10	ND@10	ND@10	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2	ND@2	ND@2	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1	ND@1	ND@1	ND@1.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

March 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/13-3/14	3/13-3/14	3/13-3/14	3/13-3/14	4/8-4/9	4/8-4/9
Sample Date		03/13/2003	03/13/2003	03/13/2003	03/13/2003	04/08/2003	04/08/2003
Laboratory Sample I.D.		0302616	0302619	0302630	0302613	0303460	0303433
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10	ND@10	ND@10	NA	ND@10
METHYL BUTYL KETONE	ug/l	NA	ND@1	ND@1	ND@1	NA	ND@1
METHYL ETHYL KETONE	ug/l	NA	ND@2	ND@2	ND@2	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1	ND@1	ND@1	NA	ND@1
N-BUTYL ACETATE	ug/l	NA	ND@2	ND@2	ND@2	NA	ND@2
VINYL ACETATE	ug/l	NA	ND@2	ND@2	ND@2	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	ND@1	ND@1	ND@1	NA	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

March 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/13-3/14	3/13-3/14	3/13-3/14	3/13-3/14	4/8-4/9	4/8-4/9
Sample Date		03/13/2003	03/13/2003	03/13/2003	03/13/2003	04/08/2003	04/08/2003
Laboratory Sample I.D.		0302616	0302619	0302630	0302613	0303460	0303433
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,2-DICHLOROETHENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@10	ND@10	ND@10	ND@1.0	ND@10
BENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
BROMOBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
BROMOFORM	ug/l	0.28 J	ND@2	ND@2	ND@2	ND@1.0	ND@2
BROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
CARBON DISULFIDE	ug/l	NA	ND@1	ND@1	ND@1	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		3/13-3/14	3/13-3/14	3/13-3/14	3/13-3/14	4/8-4/9	4/8-4/9
Sample Date		03/13/2003	03/13/2003	03/13/2003	03/13/2003	04/08/2003	04/08/2003
Laboratory Sample I.D.		0302616	0302619	0302630	0302613	0303460	0303433
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROFORM	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@2	ND@2	ND@1.0	ND@2
DIBROMOMETHANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
ETHYLBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@2	ND@2	ND@2	ND@1.0	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
TETRAHYDROFURAN	ug/l	ND@1.0	ND@10	ND@10	ND@10	ND@1.0	ND@10
TOLUENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@2	ND@2	ND@1.0	ND@2
TRICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	ND@1
VINYL CHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@1	ND@1.0	NA

Supplemental Groundwater Assessment
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Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
D	Compound identified at a secondary dilution factor.
E	Concentration exceeds the linear calibration range of the analytical equipment.
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit.

APPENDIX C-2

August 2003 Groundwater and QA/QC Analytical Data

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		2	3	4	5	DOT-1	DOT-2
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307711	0307713	0307714	0307712	0307678	0307679
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.13	7.36	7.39	7.64	6.65	NA
SPECIFIC CONDUCTANCE	umhos/cm	847	848	915	871	665	NA
TEMPERATURE	C	16.37	15.12	13.71	14.48	15.21	NA
TURBIDITY	tu	5.32	51.1	5.13	6.07	16.7	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.37 J
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.2 J
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		2	3	4	5	DOT-1	DOT-2
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307711	0307713	0307714	0307712	0307678	0307679
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	0.18 J	0.26 J	0.33 J	ND@1.0	0.12 J	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.18 J	0.29 J
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		2	3	4	5	DOT-1	DOT-2
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307711	0307713	0307714	0307712	0307678	0307679
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	0.2 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.7 J	0.29 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.22 J
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.27 J
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	1.66
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.16 J	0.4 J
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	0.16 J	0.75 J	0.3 J	6.5	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.92 J
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.1 J	0.29 J
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	10.3	10.1	8.5	2.21	1.79	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.21 J	0.72 J

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Sample Location		DOT-3	DOT-4	EN-002	EN-006	EN-012	EN-013
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307680	0307681	0307686	0307668	0307465	0307447
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	6.70	7.81	7.07	7.17	7.38
SPECIFIC CONDUCTANCE	umhos/cm	NA	5460	2900	1940	204	815
TEMPERATURE	C	NA	15.80	16.12	14.46	16.64	18.48
TURBIDITY	tu	NA	8.55	51.9	571	37.9	9.43
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	ND@50.00	ND@10.00
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	ND@5.00	ND@1.00
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	ND@10.00	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	ND@5.00	ND@1.00
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	ND@10.00	ND@2.00
VINYL ACETATE	ug/l	NA	NA	NA	NA	ND@10.00	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	0.78 J
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	ND@5.00	ND@1.00

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Sample Location		DOT-3	DOT-4	EN-002	EN-006	EN-012	EN-013
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307680	0307681	0307686	0307668	0307465	0307447
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	5.4	2.5	ND@5.00	ND@1.00
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	23.1	ND@1.0	ND@5.00	ND@1.00
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	0.71 J	ND@1.0	ND@5.00	0.53 J
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	0.21 J	ND@1.0	ND@5.00	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	0.57 J	ND@1.0	ND@5.00	1.35
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	0.76 J	ND@1.0	ND@1.0	ND@1.0	ND@50.00	ND@10.00
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.00	ND@2.00
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	ND@5.00	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	0.16 J	ND@1.0	ND@5.00	ND@1.00
CHLOROBENZENE	ug/l	0.38 J	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00

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Sample Location		DOT-3	DOT-4	EN-002	EN-006	EN-012	EN-013
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307680	0307681	0307686	0307668	0307465	0307447
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	0.17 J	ND@5.00	ND@1.00
CHLOROMETHANE	ug/l	ND@1.0	0.88 J	ND@1.0	ND@1.0	ND@5.00	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	0.13 J	0.09 J	0.32 J	0.33 J	103.08	14.65
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.00	ND@2.00
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
ETHYLBENZENE	ug/l	0.26 J	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	0.23 J	ND@1.0	ND@1.0	ND@1.0	ND@10.00	ND@2.00
METHYL T-BUTYL ETHER	ug/l	2.84	0.35 J	ND@1.0	ND@1.0	ND@5.00	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	8.7	8.2	ND@1.0	137.41	13.26
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@50.00	ND@10.00
TOLUENE	ug/l	0.13 J	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	0.33 J
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.00	ND@2.00
TRICHLOROETHENE	ug/l	ND@1.0	1.24	0.23 J	35.3	34.41	9.68
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@5.00	ND@1.00
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	11.87	5.12

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Sample Location		EN-014	EN-015	EN-016	EN-017	EN-018	EN-019
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/13/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307464	0307663	0307658	0307690	0307369	0307368
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.30	7.58	7.13	7.41	7.39	7.20
SPECIFIC CONDUCTANCE	umhos/cm	1109	485	308	234	1064	2070
TEMPERATURE	C	20.21	18.59	18.61	12.60	18.30	16.49
TURBIDITY	tu	55.2	11.2	3.5	38.9	56.4	118
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10.00	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	ND@1.00	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	ND@2.00	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1.00	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	ND@2.00	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	ND@2.00	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,4-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1.00	NA	NA	NA	NA	NA

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Sample Location		EN-014	EN-015	EN-016	EN-017	EN-018	EN-019
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/13/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307464	0307663	0307658	0307690	0307369	0307368
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,1,1-TRICHLOROETHANE	ug/l	0.56 J	3.93	47.1 J	9809	373	45.3 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	1.84	8.3 J	ND@500.0	ND@50.0	ND@200.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,1-DICHLOROETHANE	ug/l	0.32 J	0.69 J	ND@50.0	1516	877	69.3 J
1,1-DICHLOROETHENE	ug/l	ND@1.00	0.21 J	ND@50.0	707	36.9 J	ND@200.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	0.54 J	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,2-DICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	225 J	ND@50.0	ND@200.0
1,2-DICHLOROPROPANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
BENZENE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
BROMOBENZENE	ug/l	NA	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
BROMOFORM	ug/l	ND@2.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
BROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
CARBON DISULFIDE	ug/l	ND@1.00	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
CHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
CHLORODIBROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
CHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0

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Sample Location		EN-014	EN-015	EN-016	EN-017	EN-018	EN-019
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/13/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307464	0307663	0307658	0307690	0307369	0307368
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.00	0.32 J	ND@50.0	ND@500.0	ND@50.0	ND@200.0
CHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
CIS-1,2-DICHLOROETHENE	ug/l	0.83 J	2.7	32.6 J	335 J	1931	1121
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
DIBROMOMETHANE	ug/l	NA	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.00	0.27 J	ND@50.0	ND@500.0	ND@50.0	ND@200.0
ETHYLBENZENE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
METHYL T-BUTYL ETHER	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
METHYLENE CHLORIDE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	4.13	19.5	29 J	ND@500.0	9.8 J	ND@200.0
TETRAHYDROFURAN	ug/l	ND@10.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
TOLUENE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.00	0.11 J	ND@50.0	ND@500.0	ND@50.0	ND@200.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
TRICHLOROETHENE	ug/l	4.34	9.2	228	111 J	1706	3349
TRICHLOROFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@50.0	ND@500.0	ND@50.0	ND@200.0
VINYL CHLORIDE	ug/l	ND@1.00	0.23 J	ND@50.0	ND@500.0	ND@50.0	ND@200.0

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Sample Location		EN-020	EN-021	EN-023	EN-024	EN-025	EN-026
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/13/2003	08/14/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307716	0307449	0307660	0307730	0307326	0307650
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.69	NA	6.85	NA	7.40	7.25
SPECIFIC CONDUCTANCE	umhos/cm	867	NA	642	NA	584	1068
TEMPERATURE	C	13.38	NA	15.68	NA	18.04	16.73
TURBIDITY	tu	61.3	NA	4.76	NA	1.21	1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@50000	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	ND@5000	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	ND@10000	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	ND@5000	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	ND@10000	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	ND@10000	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@500.0	NA	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@500.0	NA	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	ND@5000	NA	NA	NA	NA

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Sample Location		EN-020	EN-021	EN-023	EN-024	EN-025	EN-026
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/13/2003	08/14/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307716	0307449	0307660	0307730	0307326	0307650
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	1.08
1,1,1-TRICHLOROETHANE	ug/l	85.9 J	10265	ND@1.0	0.15 J	51698	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	448 J	2900 J	0.23 J	ND@1.0	ND@5000.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@500.0	1761 J	0.18 J	ND@1.0	ND@5000.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@500.0	NA	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@500.0	ND@50000	ND@1.0	6.2	ND@5000.0	ND@1.0
BENZENE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
BROMOBENZENE	ug/l	ND@500.0	NA	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
BROMOFORM	ug/l	ND@500.0	ND@10000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
BROMOMETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	ND@5000	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
CHLOROBENZENE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
CHLOROETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0

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Sample Location		EN-020	EN-021	EN-023	EN-024	EN-025	EN-026
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/13/2003	08/14/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307716	0307449	0307660	0307730	0307326	0307650
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
CHLOROMETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	3582	51405	3.48	ND@1.0	4544 J	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@500.0	ND@10000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@500.0	NA	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
ETHYLBENZENE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@500.0	ND@10000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@500.0	ND@5000	ND@1.0	1.24	ND@5000.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@500.0	ND@50000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
TOLUENE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	561 J	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@500.0	ND@5000	0.09 J	ND@1.0	ND@5000.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@500.0	ND@10000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@500.0	ND@5000	6.1	1.06	10251	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@500.0	ND@5000	ND@1.0	ND@1.0	ND@5000.0	ND@1.0
VINYL CHLORIDE	ug/l	228 J	1858 J	2.78	ND@1.0	ND@5000.0	ND@1.0

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Sample Location		EN-029A	EN-030	EN-034	EN-035	EN-036	EN-038
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/11/2003	08/14/2003	08/13/2003	08/13/2003	08/11/2003
Laboratory Sample I.D.		0307672	0307289	0307452	0307689	0307662	0307325
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.65	7.18	7.03	7.40	7.60	7.08
SPECIFIC CONDUCTANCE	umhos/cm	7280	803	187	972	609	214
TEMPERATURE	C	14.90	13.97	21.37	18.45	20.04	17.33
TURBIDITY	tu	133	276	11.9	41.3	22.2	0.53
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	ND@500.0	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	ND@50.0	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	ND@100.0	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	ND@50.0	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	ND@100.0	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	ND@100.0	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@50.0	ND@5.0	NA	ND@1.0	ND@1.0	ND@10000.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@50.0	ND@5.0	NA	ND@1.0	ND@1.0	ND@10000.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
1,4-DICHLOROBENZENE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	ND@50.0	NA	NA	NA

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Sample Location		EN-029A	EN-030	EN-034	EN-035	EN-036	EN-038
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/11/2003	08/14/2003	08/13/2003	08/13/2003	08/11/2003
Laboratory Sample I.D.		0307672	0307289	0307452	0307689	0307662	0307325
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
1,1,1-TRICHLOROETHANE	ug/l	28.3 J	ND@5.0	329.0	60.6	2.83	77509
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50.0	90.9	98.5	0.55 J	ND@1.0	ND@10000.0
1,1,2-TRICHLOROETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
1,1-DICHLOROETHANE	ug/l	115	ND@5.0	246.3	5.2	0.5 J	1935 J
1,1-DICHLOROETHENE	ug/l	ND@50.0	ND@5.0	57.6	4.97	0.55 J	ND@10000.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@50.0	ND@5.0	NA	ND@1.0	ND@1.0	ND@10000.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50.0	19.3	14.4 J	ND@1.0	ND@1.0	ND@10000.0
1,2-DICHLOROETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
1,2-DICHLOROPROPANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@50.0	ND@5.0	ND@500.0	ND@1.0	ND@1.0	ND@10000.0
BENZENE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
BROMOBENZENE	ug/l	ND@50.0	ND@5.0	NA	ND@1.0	ND@1.0	ND@10000.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	50.3	ND@1.0	ND@10000.0
BROMOFORM	ug/l	ND@50.0	ND@5.0	ND@100.0	ND@1.0	ND@1.0	ND@10000.0
BROMOMETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
CARBON DISULFIDE	ug/l	NA	NA	ND@50.0	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
CHLOROBENZENE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
CHLORODIBROMOMETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
CHLOROETHANE	ug/l	ND@50.0	ND@5.0	96.1	ND@1.0	ND@1.0	ND@10000.0

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Sample Location		EN-029A	EN-030	EN-034	EN-035	EN-036	EN-038
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/11/2003	08/14/2003	08/13/2003	08/13/2003	08/11/2003
Laboratory Sample I.D.		0307672	0307289	0307452	0307689	0307662	0307325
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@50.0	ND@5.0	ND@50.0	0.77 J	1.42	ND@10000.0
CHLOROMETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
CIS-1,2-DICHLOROETHENE	ug/l	561	ND@5.0	875.7	18.3	0.78 J	6964 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@5.0	ND@100.0	ND@1.0	ND@1.0	ND@10000.0
DIBROMOMETHANE	ug/l	ND@50.0	ND@5.0	NA	ND@1.0	ND@1.0	ND@10000.0
DICHLORODIFLUOROMETHANE	ug/l	ND@50.0	16.2	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
ETHYLBENZENE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@50.0	ND@5.0	ND@100.0	ND@1.0	ND@1.0	ND@10000.0
METHYL T-BUTYL ETHER	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
METHYLENE CHLORIDE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	0.24 J	ND@10000.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	13.1 J	ND@5.0	ND@50.0	0.38 J	0.54 J	ND@10000.0
TETRAHYDROFURAN	ug/l	ND@50.0	ND@5.0	ND@500.0	ND@1.0	ND@1.0	ND@10000.0
TOLUENE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@50.0	ND@5.0	ND@50.0	0.22 J	ND@1.0	ND@10000.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@5.0	ND@100.0	ND@1.0	ND@1.0	ND@10000.0
TRICHLOROETHENE	ug/l	236	ND@5.0	107.0	ND@1.0	20.6	7498 J
TRICHLOROFLUOROMETHANE	ug/l	ND@50.0	ND@5.0	ND@50.0	ND@1.0	ND@1.0	ND@10000.0
VINYL CHLORIDE	ug/l	ND@50.0	ND@5.0	127.9	0.23 J	ND@1.0	ND@10000.0

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Sample Location		EN-039	EN-049	EN-051	EN-052	EN-053	EN-054
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/14/2003	08/13/2003	08/13/2003	08/14/2003	08/13/2003
Laboratory Sample I.D.		0307683	0307454	0307425	0307682	0307453	0307691
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.95	7.14	7.16	7.14	7.22	7.17
SPECIFIC CONDUCTANCE	umhos/cm	4470	751	1015	1309	685	439
TEMPERATURE	C	20.19	20.07	20.95	21.40	20.42	15.39
TURBIDITY	tu	2.76	16.2	29.6	12.2	17.6	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@5000	ND@1000	NA	ND@2000	NA
METHYL BUTYL KETONE	ug/l	NA	ND@500	ND@100	NA	ND@200	NA
METHYL ETHYL KETONE	ug/l	NA	ND@1000	ND@200	NA	ND@400	NA
METHYL ISOBUTYL KETONE	ug/l	NA	ND@500	ND@100	NA	ND@200	NA
N-BUTYL ACETATE	ug/l	NA	ND@1000	ND@200	NA	ND@400	NA
VINYL ACETATE	ug/l	NA	ND@1000	ND@200	NA	ND@400	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@5000.0	NA	NA	ND@10.0	NA	ND@10.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@5000.0	NA	NA	ND@10.0	NA	ND@10.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@5000.0	ND@500	130	ND@10.0	ND@200	ND@10.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
1,4-DICHLOROBENZENE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	ND@500	ND@100	NA	ND@200	NA

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Sample Location		EN-039	EN-049	EN-051	EN-052	EN-053	EN-054
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/14/2003	08/13/2003	08/13/2003	08/14/2003	08/13/2003
Laboratory Sample I.D.		0307683	0307454	0307425	0307682	0307453	0307691
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
1,1,1-TRICHLOROETHANE	ug/l	94323	7863	ND@100	6198	3769	1.56 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5000.0	ND@500	218	199	ND@200	ND@10.0
1,1,2-TRICHLOROETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
1,1-DICHLOROETHANE	ug/l	2842 J	658	40 J	74.1	488	ND@10.0
1,1-DICHLOROETHENE	ug/l	828 J	165 J	ND@100	256	145 J	ND@10.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@5000.0	NA	NA	ND@10.0	NA	ND@10.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5000.0	ND@500	54 J	7.9 J	ND@200	ND@10.0
1,2-DICHLOROETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
1,2-DICHLOROPROPANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@5000.0	ND@5000	ND@1000	ND@10.0	ND@2000	ND@10.0
BENZENE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
BROMOBENZENE	ug/l	ND@5000.0	NA	NA	ND@10.0	NA	ND@10.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
BROMOFORM	ug/l	ND@5000.0	ND@1000	ND@200	ND@10.0	ND@400	ND@10.0
BROMOMETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
CARBON DISULFIDE	ug/l	NA	ND@500	ND@100	NA	ND@200	NA
CARBON TETRACHLORIDE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
CHLOROBENZENE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
CHLORODIBROMOMETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
CHLOROETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0

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Sample Location		EN-039	EN-049	EN-051	EN-052	EN-053	EN-054
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/14/2003	08/13/2003	08/13/2003	08/14/2003	08/13/2003
Laboratory Sample I.D.		0307683	0307454	0307425	0307682	0307453	0307691
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
CHLOROMETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
CIS-1,2-DICHLOROETHENE	ug/l	6560	1271	2751	754	834	4.11 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@5000.0	ND@1000	ND@200	ND@10.0	ND@400	ND@10.0
DIBROMOMETHANE	ug/l	ND@5000.0	NA	NA	ND@10.0	NA	ND@10.0
DICHLORODIFLUOROMETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
ETHYLBENZENE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@5000.0	ND@1000	ND@200	ND@10.0	ND@400	ND@10.0
METHYL T-BUTYL ETHER	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
METHYLENE CHLORIDE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	1778 J	ND@500	262	781	ND@200	244
TETRAHYDROFURAN	ug/l	ND@5000.0	ND@5000	ND@1000	ND@10.0	ND@2000	ND@10.0
TOLUENE	ug/l	493 J	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@5000.0	ND@500	ND@100	8.7 J	ND@200	ND@10.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@5000.0	ND@1000	ND@200	ND@10.0	ND@400	ND@10.0
TRICHLOROETHENE	ug/l	ND@5000.0	ND@500	63 J	189	ND@200	2.43 J
TRICHLOROFLUOROMETHANE	ug/l	ND@5000.0	ND@500	ND@100	ND@10.0	ND@200	ND@10.0
VINYL CHLORIDE	ug/l	ND@5000.0	461 J	128	51.8	324	ND@10.0

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Sample Location		EN-055	EN-056	EN-058	EN-059	EN-060	EN-060
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		08/14/2003	08/13/2003	08/14/2003	08/14/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307457	0307657	0307456	0307437	0307309	227296-10
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.95	6.68	7.05	6.87	7.68	7.68
SPECIFIC CONDUCTANCE	umhos/cm	595	754	573	3040	934	934
TEMPERATURE	C	18.44	15.97	17.43	17.48	14.37	14.37
TURBIDITY	tu	5.97	1000	463	>1000	34.9	34.9
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@2000	NA	ND@5000	ND@10.00	NA	NA
METHYL BUTYL KETONE	ug/l	ND@200	NA	ND@500	ND@1.00	NA	NA
METHYL ETHYL KETONE	ug/l	ND@400	NA	ND@1000	ND@2.00	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@200	NA	ND@500	ND@1.00	NA	NA
N-BUTYL ACETATE	ug/l	ND@400	NA	ND@1000	ND@2.00	NA	NA
VINYL ACETATE	ug/l	ND@400	NA	ND@1000	ND@2.00	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@50.0	NA	NA	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@50.0	NA	NA	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
STYRENE	ug/l	ND@200	NA	ND@500	ND@1.00	NA	ND@1.0

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Sample Location		EN-055	EN-056	EN-058	EN-059	EN-060	EN-060
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		08/14/2003	08/13/2003	08/14/2003	08/14/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307457	0307657	0307456	0307437	0307309	227296-10
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	7025	24.8 J	6972	ND@1.00	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	359	4975	3510	ND@1.00	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	762	7.3 J	398 J	ND@1.00	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	248	ND@50.0	307 J	ND@1.00	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@50.0	NA	NA	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
ACETONE	ug/l	ND@2000	ND@50.0	ND@5000	ND@10.00	ND@1.0	NA
BENZENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	NA	ND@50.0	NA	NA	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@400	ND@50.0	ND@1000	ND@2.00	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	ND@200	NA	ND@500	ND@1.00	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	1.15	1.2
CHLOROBENZENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0

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Sample Location		EN-055	EN-056	EN-058	EN-059	EN-060	EN-060
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		08/14/2003	08/13/2003	08/14/2003	08/14/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307457	0307657	0307456	0307437	0307309	227296-10
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	2115	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@400	ND@50.0	ND@1000	ND@2.00	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	NA	ND@50.0	NA	NA	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@200	78.3	ND@500	ND@1.00	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
M,P-XYLENE	ug/l	ND@400	ND@50.0	ND@1000	ND@2.00	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	NA
METHYLENE CHLORIDE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
O-XYLENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@2000	ND@50.0	ND@5000	ND@10.00	ND@1.0	NA
TOLUENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@400	ND@50.0	ND@1000	ND@2.00	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	698	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@200	37.9 J	ND@500	ND@1.00	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@200	ND@50.0	ND@500	ND@1.00	ND@1.0	ND@1.0

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Sample Location		EN-061	EN-061	EN-062	EN-062	EN-063	EN-063
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307654	227413-3	0307307	227296-9	0307460	227413-9
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.97	6.97	7.18	7.18	7.05	7.05
SPECIFIC CONDUCTANCE	umhos/cm	356	356	5760	5760	858	858
TEMPERATURE	C	15.85	15.85	14.12	14.12	18.75	18.75
TURBIDITY	tu	11.8	11.8	53.9	53.9	>1000	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	ND@10.00	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	ND@1.00	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	ND@2.00	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	ND@1.00	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	ND@2.00	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	ND@2.00	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
NAPHTHALENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
STYRENE	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.00	ND@1.0

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Sample Location		EN-061	EN-061	EN-062	EN-062	EN-063	EN-063
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307654	227413-3	0307307	227296-9	0307460	227413-9
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	5.77	7.2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.42 J	0.51 J
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
ACETONE	ug/l	ND@1.0	NA	ND@1.0	NA	5.85	NA
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	0.32 J	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0

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Sample Location		EN-061	EN-061	EN-062	EN-062	EN-063	EN-063
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307654	227413-3	0307307	227296-9	0307460	227413-9
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	1.9	1.5
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	NA	ND@1.0	NA	ND@1.00	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1.0	0.54 J	ND@1.0	ND@1.0	ND@1.00	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	NA	ND@1.0	NA	3.83	NA
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.21 J	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@1.0
TRICHLOROETHENE	ug/l	0.97 J	1.2	ND@1.0	ND@1.0	1.89	2.3
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0

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Sample Location		EN-064	EN-064	EN-065	EN-065	EN-067	EN-069
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307306	227296-8	0307301	227296-7	0307280	0307715
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.46	7.46	7.20	7.20	5.97	6.88
SPECIFIC CONDUCTANCE	umhos/cm	4600	4600	1620	1620	289	283
TEMPERATURE	C	14.86	14.86	16.39	16.39	14.71	19.00
TURBIDITY	tu	>1000	>1000	>1000	>1000	51.4	32.9
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
STYRENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA

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Sample Location		EN-064	EN-064	EN-065	EN-065	EN-067	EN-069
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307306	227296-8	0307301	227296-7	0307280	0307715
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	6.6
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.98 J	0.16 J
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	3.16	3.9	6.2	1.39
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	0.29 J	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	3.02	0.26 J
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@1.0	NA	ND@1.0	NA	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-064	EN-064	EN-065	EN-065	EN-067	EN-069
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307306	227296-8	0307301	227296-7	0307280	0307715
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	4.31	2.3	0.71 J	0.63 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	NA	ND@1.0	NA	ND@1.0	0.81 J
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	1.03	0.26 J
TETRAHYDROFURAN	ug/l	ND@1.0	NA	ND@1.0	NA	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	23.7	22	0.43 J	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	0.18 J	ND@1.0	1.61	0.18 J

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Sample Location		EN-070	EN-072	EN-073	EN-074	EN-075	EN-076
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/12/2003	08/13/2003	08/14/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307721	0307363	0307684	0307723	0307361	0307362
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.24	7.01	6.56	7.06	6.74	6.84
SPECIFIC CONDUCTANCE	umhos/cm	778	352	6870	6040	1365	1155
TEMPERATURE	C	17.88	18.34	18.04	16.42	14.62	11.29
TURBIDITY	tu	13.6	>1000	4.29	55.7	>1000	147
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	0.48 J	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		EN-070	EN-072	EN-073	EN-074	EN-075	EN-076
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/12/2003	08/13/2003	08/14/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307721	0307363	0307684	0307723	0307361	0307362
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	0.35 J	0.99 J	55.1	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.28 J	4.72	0.42 J	0.42 J	ND@1.0	0.29 J
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.13 J	3.25	15.3	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	0.23 J	0.2 J	2.04	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	3.56	2.27	0.87 J	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	1.06 J	ND@1.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	0.76 J	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-070	EN-072	EN-073	EN-074	EN-075	EN-076
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/12/2003	08/13/2003	08/14/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307721	0307363	0307684	0307723	0307361	0307362
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	0.12 J	0.5 J	ND@2.0	1.17	ND@1.0	0.25 J
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	0.98 J	12.4	12.3	ND@1.0	1.13	1.32
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	0.27 J	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	2	12.3	0.37 J	12.2	0.5 J	10.8
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	9	1.63	2.44	0.46 J	1.99	0.72 J
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	0.17 J	2.19	1.6 J	ND@1.0	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		EN-077	EN-078	EN-079	EN-080	EN-081	EN-083
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/13/2003	08/11/2003	08/12/2003	08/13/2003	08/12/2003
Laboratory Sample I.D.		0307304	0307673	0307334	0307375	0307661	0307351
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.02	6.98	6.62	6.61	6.63	6.68
SPECIFIC CONDUCTANCE	umhos/cm	4540	4510	181	5170	688	5830
TEMPERATURE	C	14.92	16.46	13.66	14.79	15.43	17.75
TURBIDITY	tu	8.91	>1000	151	217	18.2	29.7
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	0.45 J	ND@5.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,4-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

Supplemental Groundwater Assessment
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August 2003

Sample Location		EN-077	EN-078	EN-079	EN-080	EN-081	EN-083
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/13/2003	08/11/2003	08/12/2003	08/13/2003	08/12/2003
Laboratory Sample I.D.		0307304	0307673	0307334	0307375	0307661	0307351
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@5.0	ND@1.0	2.11	ND@20.0	ND@1.0	ND@5.0
1,1,1-TRICHLOROETHANE	ug/l	29.1	2.65	0.42 J	ND@20.0	0.62 J	ND@5.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,1,2-TRICHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,1-DICHLOROETHANE	ug/l	85.4	0.94 J	ND@2.0	ND@20.0	0.67 J	ND@5.0
1,1-DICHLOROETHENE	ug/l	4.41 J	0.2 J	ND@2.0	ND@20.0	0.17 J	ND@5.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,2-DICHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,2-DICHLOROPROPANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
BENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	0.2 J	ND@5.0
BROMOBENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@5.0	ND@1.0	4.75	ND@20.0	ND@1.0	ND@5.0
BROMOFORM	ug/l	ND@5.0	ND@1.0	2.66	ND@20.0	ND@1.0	ND@5.0
BROMOMETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
CHLOROBENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	2.11	ND@5.0
CHLORODIBROMOMETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
CHLOROETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0

Supplemental Groundwater Assessment
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August 2003

Sample Location		EN-077	EN-078	EN-079	EN-080	EN-081	EN-083
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/13/2003	08/11/2003	08/12/2003	08/13/2003	08/12/2003
Laboratory Sample I.D.		0307304	0307673	0307334	0307375	0307661	0307351
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@5.0	ND@1.0	55	ND@20.0	ND@1.0	ND@5.0
CHLOROMETHANE	ug/l	ND@5.0	ND@1.0	0.37 J	ND@20.0	ND@1.0	ND@5.0
CIS-1,2-DICHLOROETHENE	ug/l	77	1.11	ND@2.0	544	1.73	40.2
CIS-1,3-DICHLOROPROPENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
DIBROMOMETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
DICHLORODIFLUOROMETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
ETHYLBENZENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	0.09 J	ND@5.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	0.32 J	ND@5.0
METHYL T-BUTYL ETHER	ug/l	4.82 J	ND@1.0	ND@2.0	ND@20.0	0.53 J	ND@5.0
METHYLENE CHLORIDE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	0.12 J	ND@5.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	1.71 J	0.26 J	ND@2.0	ND@20.0	0.89 J	ND@5.0
TETRAHYDROFURAN	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
TOLUENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	0.07 J	ND@5.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	0.09 J	1.08 J
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
TRICHLOROETHENE	ug/l	94	31.9	ND@2.0	ND@20.0	7.9	29.9
TRICHLOROFLUOROMETHANE	ug/l	ND@5.0	ND@1.0	ND@2.0	ND@20.0	ND@1.0	ND@5.0
VINYL CHLORIDE	ug/l	ND@5.0	ND@1.0	0.44 J	403	0.68 J	ND@5.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		EN-084	EN-086	EN-087	EN-089	EN-091	EN-092
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/14/2003	08/12/2003	08/11/2003	08/14/2003	08/11/2003
Laboratory Sample I.D.		0307360	0307467	0307359	0307331	0307696	0307305
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.28	6.37	6.55	6.38	6.76	7.20
SPECIFIC CONDUCTANCE	umhos/cm	762	NA	1095	380	499	7150
TEMPERATURE	C	12.39	17.48	13.92	23.78	15.55	14.20
TURBIDITY	tu	>1000	>1000	421	1.57	46	281
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10.00	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	ND@1.00	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	ND@2.00	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1.00	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	ND@2.00	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	ND@2.00	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	ND@1.00	NA	NA	NA	NA

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		EN-084	EN-086	EN-087	EN-089	EN-091	EN-092
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/14/2003	08/12/2003	08/11/2003	08/14/2003	08/11/2003
Laboratory Sample I.D.		0307360	0307467	0307359	0307331	0307696	0307305
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	30.2 J	27.3
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	751	ND@50.0	2.11 J
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	31.9 J	46.8
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	4.78 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	18.9 J	ND@50.0	ND@10.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@10.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
BENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
BROMOBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@50.0	ND@50.0	ND@10.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
BROMOFORM	ug/l	ND@1.0	ND@2.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
CARBON DISULFIDE	ug/l	NA	ND@1.00	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0

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August 2003

Sample Location		EN-084	EN-086	EN-087	EN-089	EN-091	EN-092
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/14/2003	08/12/2003	08/11/2003	08/14/2003	08/11/2003
Laboratory Sample I.D.		0307360	0307467	0307359	0307331	0307696	0307305
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.00	ND@1.0	8.5 J	178	278
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
DIBROMOMETHANE	ug/l	ND@1.0	NA	ND@1.0	ND@50.0	ND@50.0	ND@10.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@2.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	8.5 J	21.7
TETRAHYDROFURAN	ug/l	ND@1.0	ND@10.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
TOLUENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	3.01 J
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	249	219
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@50.0	ND@50.0	ND@10.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		EN-093	EN-094	EN-095	EN-096	EN-097	EN-098
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/11/2003	08/13/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307283	0307308	0307281	0307676	0307354	0307426
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.70	7.48	6.52	6.94	6.54	6.60
SPECIFIC CONDUCTANCE	umhos/cm	578	2750	1337	1670	10770	11270
TEMPERATURE	C	14.21	14.61	13.21	13.19	17.15	18.32
TURBIDITY	tu	6.15	37.7	2.95	>1000	920	43.6
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	ND@10.00
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@1.00
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	ND@1.00
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@2.00
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	ND@1.00

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		EN-093	EN-094	EN-095	EN-096	EN-097	EN-098
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/11/2003	08/13/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307283	0307308	0307281	0307676	0307354	0307426
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	56.4	0.79 J	0.42 J	37.5	ND@1.0	0.59 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	2.59 J	ND@1.0	ND@1.0	4.46	ND@1.0	ND@1.00
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROETHANE	ug/l	57.4	ND@1.0	ND@1.0	19.2	ND@1.0	ND@1.00
1,1-DICHLOROETHENE	ug/l	9.6 J	ND@1.0	ND@1.0	1.52	ND@1.0	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	2.39	ND@1.0	ND@1.00
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.00
BENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
BROMOBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
BROMOFORM	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00
BROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00

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August 2003

Sample Location		EN-093	EN-094	EN-095	EN-096	EN-097	EN-098
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/11/2003	08/13/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307283	0307308	0307281	0307676	0307354	0307426
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CHLOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	322	ND@1.0	ND@1.0	9.6	ND@1.0	ND@1.00
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00
DIBROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
ETHYLBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	13.2	ND@1.0	3.14	0.3 J	ND@1.0	ND@1.00
TETRAHYDROFURAN	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.00
TOLUENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	2.21 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00
TRICHLOROETHENE	ug/l	316	1.35	7.1	2.93	ND@1.0	ND@1.00
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
VINYL CHLORIDE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00

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Sample Location		EN-099	EN-100	EN-102	EN-103	EN-103	EN-104
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307434	0307435	0307436	0307350	227296-11	0307336
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.78	6.71	6.75	7.44	7.44	6.98
SPECIFIC CONDUCTANCE	umhos/cm	4550	6430	5840	1640	1640	1610
TEMPERATURE	C	14.72	15.14	14.64	13.37	13.37	14.73
TURBIDITY	tu	1000	>1000	>1000	859	859	17.9
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@100.0	ND@100.0	ND@100.0	NA	NA	NA
METHYL BUTYL KETONE	ug/l	ND@10.0	ND@10.0	ND@10.0	NA	NA	NA
METHYL ETHYL KETONE	ug/l	ND@20.0	ND@20.0	ND@20.0	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@10.0	ND@10.0	ND@10.0	NA	NA	NA
N-BUTYL ACETATE	ug/l	ND@20.0	ND@20.0	ND@20.0	NA	NA	NA
VINYL ACETATE	ug/l	ND@20.0	ND@20.0	ND@20.0	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
STYRENE	ug/l	ND@10.0	ND@10.0	ND@10.0	NA	ND@1.0	NA

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Groundwater and QA/QC Analytical Data
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Sample Location		EN-099	EN-100	EN-102	EN-103	EN-103	EN-104
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307434	0307435	0307436	0307350	227296-11	0307336
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	42.8	46.4	43.9	ND@1.0	ND@1.0	0.95 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	41.9	63.1	53.3	ND@1.0	ND@1.0	1.65
1,1-DICHLOROETHENE	ug/l	7.2 J	6.7 J	7.0 J	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@1.0	NA	ND@1.0
BENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	NA	NA	NA	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@20.0	ND@20.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	0.35 J	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-099	EN-100	EN-102	EN-103	EN-103	EN-104
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307434	0307435	0307436	0307350	227296-11	0307336
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	203.5	281.0	248.6	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20.0	ND@20.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	NA	NA	NA	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@20.0	ND@20.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	NA	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	19.2	19.9	16.7	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@1.0	NA	ND@1.0
TOLUENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	5.8 J	ND@10.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20.0	ND@20.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	259.0	247.8	270.4	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@1.0	ND@1.0	0.83 J

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Sample Location		EN-104	EN-105	EN-106	EN-107	EN-108	EN-109
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/14/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		227296-3	0307364	0307455	0307324	0307290	0307282
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.98	6.82	6.96	7.09	6.80	6.16
SPECIFIC CONDUCTANCE	umhos/cm	1610	1304	257	204	348	589
TEMPERATURE	C	14.73	19.22	17.72	15.20	18.40	20.53
TURBIDITY	tu	17.9	33	400	1.5	8.59	3.78
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	ND@10.00	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	ND@1.00	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	ND@2.00	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	ND@1.00	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	ND@2.00	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	ND@2.00	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	NA	ND@500.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	NA	ND@500.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	281 J	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1.0	NA	ND@1.00	NA	NA	NA

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Sample Location		EN-104	EN-105	EN-106	EN-107	EN-108	EN-109
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/14/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		227296-3	0307364	0307455	0307324	0307290	0307282
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	2.2	ND@1.0	26.19	277 J	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	99 J	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	3.4	ND@1.0	1.1	ND@500.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	NA	ND@500.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
ACETONE	ug/l	NA	ND@1.0	ND@10.00	ND@500.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	NA	ND@500.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	ND@1.0	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@2.00	ND@500.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	ND@1.00	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0

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Sample Location		EN-104	EN-105	EN-106	EN-107	EN-108	EN-109
Sample Description		REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/14/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		227296-3	0307364	0307455	0307324	0307290	0307282
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	3.2	2831	11.4	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2.00	ND@500.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	NA	ND@500.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@2.00	227 J	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	NA	ND@1.0	2.38	ND@500.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.00	126 J	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.00	1847	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	NA	ND@1.0	ND@10.00	ND@500.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	0.21 J	ND@500.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	0.55	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2.00	ND@500.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	7.64	ND@500.0	30.4	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	0.55 J	ND@1.0	ND@1.00	ND@500.0	ND@1.0	ND@1.0

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Sample Location		EN-113	EN-114	EN-117	EN-118	EN-120	EN-121
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/13/2003	08/11/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307450	0307284	0307656	0307327	0307316	0307431
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	6.53	7.19	7.40	7.20	6.80
SPECIFIC CONDUCTANCE	umhos/cm	NA	298	186	873	395	231
TEMPERATURE	C	NA	20.84	16.70	17.43	15.09	18.10
TURBIDITY	tu	NA	14.2	308	285	0.5	120
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@20.00	NA	NA	NA	NA	ND@10.00
METHYL BUTYL KETONE	ug/l	ND@2.00	NA	NA	NA	NA	ND@1.00
METHYL ETHYL KETONE	ug/l	ND@4	NA	NA	NA	NA	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	ND@2.00	NA	NA	NA	NA	ND@1.00
N-BUTYL ACETATE	ug/l	ND@4	NA	NA	NA	NA	ND@2.00
VINYL ACETATE	ug/l	ND@4	NA	NA	NA	NA	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@2.00	NA	NA	NA	NA	ND@1.00

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Sample Location		EN-113	EN-114	EN-117	EN-118	EN-120	EN-121
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/13/2003	08/11/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307450	0307284	0307656	0307327	0307316	0307431
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	2.23	208	ND@2.0	45785	12.5	1.14
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2.00	57.8	0.39 J	ND@10000.0	ND@10.0	2.43
1,1,2-TRICHLOROETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
1,1-DICHLOROETHANE	ug/l	24.69	1373	ND@2.0	ND@10000.0	30.2	9.17
1,1-DICHLOROETHENE	ug/l	0.57 J	ND@50.0	ND@2.0	ND@10000.0	1.84 J	0.99 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2.00	68.8	2.26	ND@10000.0	ND@10.0	2.19
1,2-DICHLOROETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	14.09	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@10.00
BENZENE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
BROMOBENZENE	ug/l	NA	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
BROMOFORM	ug/l	ND@4	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@2.00
BROMOMETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
CARBON DISULFIDE	ug/l	ND@2.00	NA	NA	NA	NA	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
CHLOROBENZENE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
CHLOROETHANE	ug/l	18.99	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00

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Sample Location		EN-113	EN-114	EN-117	EN-118	EN-120	EN-121
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/13/2003	08/11/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307450	0307284	0307656	0307327	0307316	0307431
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@2.00	ND@50.0	0.57 J	ND@10000.0	ND@10.0	ND@1.00
CHLOROMETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	2.9	262	10.9	8037 J	97.8	13.82
CIS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@2.00
DIBROMOMETHANE	ug/l	NA	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
ETHYLBENZENE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@4	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
METHYLENE CHLORIDE	ug/l	15.12	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	0.8 J	ND@50.0	15.5	ND@10000.0	3.02 J	0.61 J
TETRAHYDROFURAN	ug/l	ND@20.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@10.00
TOLUENE	ug/l	ND@2.00	ND@50.0	ND@2.0	779 J	ND@10.0	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	0.21 J
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@2.00
TRICHLOROETHENE	ug/l	5.37	ND@50.0	2.03	3213 J	197	1.19
TRICHLOROFLUOROMETHANE	ug/l	ND@2.00	ND@50.0	ND@2.0	ND@10000.0	ND@10.0	ND@1.00
VINYL CHLORIDE	ug/l	2.39	1309	ND@2.0	ND@10000.0	ND@10.0	2.52

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Sample Location		EN-122	EN-122	EN-123	EN-125	EN-125	EN-126
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/14/2003	08/13/2003	08/13/2003	08/14/2003
Laboratory Sample I.D.		0307693	227413-5	0307445	0307670	227413-6	0307433
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.65	6.65	6.93	7.08	7.08	7.47
SPECIFIC CONDUCTANCE	umhos/cm	171	171	2600	2310	2310	1530
TEMPERATURE	C	17.01	17.01	16.16	13.68	13.68	17.14
TURBIDITY	tu	>1000	>1000	>1000	307	307	208
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	ND@10.00	NA	NA	ND@10.00
METHYL BUTYL KETONE	ug/l	NA	NA	ND@1.00	NA	NA	ND@1.00
METHYL ETHYL KETONE	ug/l	NA	NA	ND@2.00	NA	NA	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	NA	NA	ND@1.00	NA	NA	ND@1.00
N-BUTYL ACETATE	ug/l	NA	NA	ND@2.00	NA	NA	ND@2.00
VINYL ACETATE	ug/l	NA	NA	ND@2.00	NA	NA	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
STYRENE	ug/l	NA	ND@1.0	ND@1.00	NA	ND@1.0	ND@1.00

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Sample Location		EN-122	EN-122	EN-123	EN-125	EN-125	EN-126
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/14/2003	08/13/2003	08/13/2003	08/14/2003
Laboratory Sample I.D.		0307693	227413-5	0307445	0307670	227413-6	0307433
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	0.91 J	1.7	0.93 J	ND@1.0	ND@1.0	ND@1.00
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.73 J	0.91 J	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROETHANE	ug/l	7.4	8.5	4.12	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROETHENE	ug/l	0.55 J	0.58 J	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	2.07	1.3	0.43 J	ND@1.0	ND@1.0	ND@1.00
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@1.0	NA	ND@10.00	ND@1.0	NA	ND@10.00
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@2.00
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
CARBON DISULFIDE	ug/l	NA	NA	ND@1.00	NA	NA	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00

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Sample Location		EN-122	EN-122	EN-123	EN-125	EN-125	EN-126
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/14/2003	08/13/2003	08/13/2003	08/14/2003
Laboratory Sample I.D.		0307693	227413-5	0307445	0307670	227413-6	0307433
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	21.6	11	7.15	ND@1.0	ND@1.0	ND@1.00
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@2.00
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	NA	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@1.0	NA	ND@1.00	ND@1.0	NA	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	0.15 J	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
TETRAHYDROFURAN	ug/l	ND@1.0	NA	ND@10.00	ND@1.0	NA	ND@10.00
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	0.26 J	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@2.00
TRICHLOROETHENE	ug/l	10.4	11	ND@1.00	ND@1.0	ND@1.0	ND@1.00
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00
VINYL CHLORIDE	ug/l	5.2	5.7	2.35	ND@1.0	ND@1.0	ND@1.00

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Sample Location		EN-127	EN-129	EN-130	EN-130	EN-131	EN-132
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/13/2003	08/13/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307303	0307300	0307685	227413-7	0307302	0307671
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.89	6.65	NA	NA	7.52	7.22
SPECIFIC CONDUCTANCE	umhos/cm	4510	1520	NA	NA	1510	1400
TEMPERATURE	C	16.53	15.58	NA	NA	13.28	14.25
TURBIDITY	tu	8.11	NA	NA	NA	16.6	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	NA	NA	NA	ND@1.0	NA	NA

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Sample Location		EN-127	EN-129	EN-130	EN-130	EN-131	EN-132
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/13/2003	08/13/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307303	0307300	0307685	227413-7	0307302	0307671
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	0.13 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@20.0	0.12 J	ND@1.0	0.23 J	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	26.2	ND@20.0	ND@1.0	NA	ND@1.0	ND@1.0
BENZENE	ug/l	0.58 J	ND@20.0	0.83 J	0.68 J	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	0.2 J
CHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-127	EN-129	EN-130	EN-130	EN-131	EN-132
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/13/2003	08/13/2003	08/11/2003	08/13/2003
Laboratory Sample I.D.		0307303	0307300	0307685	227413-7	0307302	0307671
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	17.6	ND@20.0	1.22	0.84 J	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@20.0	0.2 J	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	0.56 J	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@20.0	0.26 J	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	0.51 J	ND@20.0	ND@1.0	NA	1.34	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@20.0	0.22 J	0.50 J	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@20.0	0.16 J	ND@1.0	ND@1.0	1.89
TETRAHYDROFURAN	ug/l	ND@1.0	ND@20.0	ND@1.0	NA	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@20.0	0.21 J	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@20.0	0.19 J	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	1.19	ND@20.0	0.15 J	ND@1.0	0.31 J	2.01
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@20.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	0.26 J	ND@20.0	1.84	1.3	ND@1.0	ND@1.0

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Sample Location		EN-133	EN-146	EN-148	EN-149	EN-150	EN-151
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/14/2003	08/14/2003	08/13/2003	08/12/2003	08/14/2003
Laboratory Sample I.D.		0307320	0307458	0307466	0307427	0307365	0307459
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.05	7.13	7.18	7.53	6.88	7.22
SPECIFIC CONDUCTANCE	umhos/cm	361	375	262	920	268	209
TEMPERATURE	C	14.53	25.81	12.23	11.96	13.02	15.65
TURBIDITY	tu	1.21	107	51.8	17.1	46.6	43.1
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10.00	ND@10.00	ND@10.00	NA	ND@20.00
METHYL BUTYL KETONE	ug/l	NA	ND@1.00	ND@1.00	ND@1.00	NA	ND@2.00
METHYL ETHYL KETONE	ug/l	NA	ND@2.00	ND@2.00	ND@2.00	NA	ND@4
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1.00	ND@1.00	ND@1.00	NA	ND@2.00
N-BUTYL ACETATE	ug/l	NA	ND@2.00	ND@2.00	ND@2.00	NA	ND@4
VINYL ACETATE	ug/l	NA	ND@2.00	ND@2.00	ND@2.00	NA	ND@4
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@5.0	NA	NA	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@5.0	NA	NA	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
1,4-DICHLOROBENZENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	ND@1.00	ND@1.00	ND@1.00	NA	ND@2.00

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Sample Location		EN-133	EN-146	EN-148	EN-149	EN-150	EN-151
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/14/2003	08/14/2003	08/13/2003	08/12/2003	08/14/2003
Laboratory Sample I.D.		0307320	0307458	0307466	0307427	0307365	0307459
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
1,1,1-TRICHLOROETHANE	ug/l	3.87 J	9.21	30.61	2	0.53 J	2.08
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	1.44	1.93	ND@1.00	ND@1.0	1.01 J
1,1,2-TRICHLOROETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
1,1-DICHLOROETHANE	ug/l	2.81 J	3.33	1.99	ND@1.00	3.34	62.47
1,1-DICHLOROETHENE	ug/l	ND@5.0	0.36 J	0.95 J	ND@1.00	ND@1.0	ND@2.00
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@5.0	NA	NA	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@5.0	1.21	ND@1.00	ND@1.00	ND@1.0	6.25
1,2-DICHLOROETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
1,2-DICHLOROPROPANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@5.0	ND@10.00	ND@10.00	ND@10.00	ND@1.0	ND@20.00
BENZENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
BROMOBENZENE	ug/l	ND@5.0	NA	NA	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
BROMOFORM	ug/l	ND@5.0	ND@2.00	ND@2.00	ND@2.00	ND@1.0	ND@4
BROMOMETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
CARBON DISULFIDE	ug/l	NA	ND@1.00	ND@1.00	ND@1.00	NA	ND@2.00
CARBON TETRACHLORIDE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
CHLOROBENZENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
CHLORODIBROMOMETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
CHLOROETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00

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Sample Location		EN-133	EN-146	EN-148	EN-149	EN-150	EN-151
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/14/2003	08/14/2003	08/13/2003	08/12/2003	08/14/2003
Laboratory Sample I.D.		0307320	0307458	0307466	0307427	0307365	0307459
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@5.0	0.23 J	0.29 J	ND@1.00	ND@1.0	ND@2.00
CHLOROMETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
CIS-1,2-DICHLOROETHENE	ug/l	22.2	4.81	7.92	ND@1.00	ND@1.0	9.12
CIS-1,3-DICHLOROPROPENE	ug/l	ND@5.0	ND@2.00	ND@2.00	ND@2.00	ND@1.0	ND@4
DIBROMOMETHANE	ug/l	ND@5.0	NA	NA	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	0.31 J	ND@2.00
ETHYLBENZENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@5.0	ND@2.00	ND@2.00	ND@2.00	ND@1.0	ND@4
METHYL T-BUTYL ETHER	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	0.41 J	ND@2.00
METHYLENE CHLORIDE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	1.82 J	0.52 J	12.07	0.55 J	ND@1.0	ND@2.00
TETRAHYDROFURAN	ug/l	ND@5.0	ND@10.00	ND@10.00	ND@10.00	ND@1.0	ND@20.00
TOLUENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@5.0	ND@2.00	ND@2.00	ND@2.00	ND@1.0	ND@4
TRICHLOROETHENE	ug/l	47.5	2.79	5.29	1.08	1.01	0.75 J
TRICHLOROFLUOROMETHANE	ug/l	ND@5.0	ND@1.00	ND@1.00	ND@1.00	ND@1.0	ND@2.00
VINYL CHLORIDE	ug/l	ND@5.0	3.84	ND@1.00	ND@1.00	ND@1.0	3.76

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Sample Location		EN-152	EN-153	EN-154	EN-154	EN-156	EN-157
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/14/2003	08/11/2003
Laboratory Sample I.D.		0307694	0307429	0307321	227296-12	0307440	0307291
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.83	6.99	6.81	6.81	6.54	6.59
SPECIFIC CONDUCTANCE	umhos/cm	239	627	182	182	1660	2460
TEMPERATURE	C	13.40	12.80	14.69	14.69	16.18	13.67
TURBIDITY	tu	44.6	>1000	1.92	1.92	255	11.2
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10.00	NA	NA	ND@10.00	NA
METHYL BUTYL KETONE	ug/l	NA	ND@1.00	NA	NA	ND@1.00	NA
METHYL ETHYL KETONE	ug/l	NA	ND@2.00	NA	NA	ND@2.00	NA
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1.00	NA	NA	ND@1.00	NA
N-BUTYL ACETATE	ug/l	NA	ND@2.00	NA	NA	ND@2.00	NA
VINYL ACETATE	ug/l	NA	ND@2.00	NA	NA	ND@2.00	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.00	0.33 J	ND@1.0	ND@1.00	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	NA	ND@1.00	NA	ND@1.0	ND@1.00	NA

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Sample Location		EN-152	EN-153	EN-154	EN-154	EN-156	EN-157
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/14/2003	08/11/2003
Laboratory Sample I.D.		0307694	0307429	0307321	227296-12	0307440	0307291
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	1.21	3.31	23.6	22	ND@1.00	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.26 J	0.54 J	5.4	6.8	ND@1.00	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1-DICHLOROETHANE	ug/l	1.15	ND@1.00	16.7	18	ND@1.00	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.00	1.3	1.6	ND@1.00	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.74 J	ND@1.00	2.82	2.0	ND@1.00	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@1.0	ND@10.00	ND@1.0	NA	ND@10.00	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.00	0.17 J	ND@1.0	ND@1.00	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@2.00	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CARBON DISULFIDE	ug/l	NA	ND@1.00	NA	NA	ND@1.00	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0

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Sample Location		EN-152	EN-153	EN-154	EN-154	EN-156	EN-157
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/14/2003	08/11/2003
Laboratory Sample I.D.		0307694	0307429	0307321	227296-12	0307440	0307291
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	0.51 J	ND@1.00	16.4	9.2	0.3 J	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@2.00	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	NA	ND@1.0	ND@1.0	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.00	0.34 J	ND@1.0	ND@1.00	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@2.00	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.00	0.91 J	NA	ND@1.00	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	3.14	ND@1.00	5.8	5.1	ND@1.00	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@10.00	ND@1.0	NA	ND@10.00	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.00	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.00	0.18 J	2.1	ND@1.00	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@2.00	ND@1.0
TRICHLOROETHENE	ug/l	1.77	0.58 J	5.6	6.3	ND@1.00	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.00	ND@1.0	2.0	ND@1.00	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.00	2.55	2.1	ND@1.00	ND@1.0

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Sample Location		EN-158	EN-160	EN-161	EN-162	EN-163	EN-164
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307439	0307318	0307298	0307296	0307297	0307446
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.47	6.85	7.21	7.38	7.08	7.00
SPECIFIC CONDUCTANCE	umhos/cm	2000	393	1721	1227	1530	1049
TEMPERATURE	C	13.99	15.14	14.02	14.29	13.91	13.41
TURBIDITY	tu	1000	0.48	36.6	528	229	23.6
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10.00	NA	NA	NA	NA	ND@10.00
METHYL BUTYL KETONE	ug/l	ND@1.00	NA	NA	NA	NA	ND@1.00
METHYL ETHYL KETONE	ug/l	ND@2.00	NA	NA	NA	NA	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	ND@1.00	NA	NA	NA	NA	ND@1.00
N-BUTYL ACETATE	ug/l	ND@2.00	NA	NA	NA	NA	ND@2.00
VINYL ACETATE	ug/l	ND@2.00	NA	NA	NA	NA	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@10.0	ND@20.0	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@10.0	ND@20.0	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1.00	NA	NA	NA	NA	ND@1.00

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Sample Location		EN-158	EN-160	EN-161	EN-162	EN-163	EN-164
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307439	0307318	0307298	0307296	0307297	0307446
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	ND@1.00	4.5 J	ND@20.0	ND@1.0	ND@1.0	1.14
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,1,2-TRICHLOROETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROETHANE	ug/l	ND@1.00	3.62 J	ND@20.0	0.3 J	0.59 J	ND@1.00
1,1-DICHLOROETHENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@10.0	ND@20.0	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,2-DICHLOROETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@10.00
BENZENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
BROMOBENZENE	ug/l	NA	ND@10.0	ND@20.0	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
BROMOFORM	ug/l	ND@2.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@2.00
BROMOMETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
CARBON DISULFIDE	ug/l	ND@1.00	NA	NA	NA	NA	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
CHLOROBENZENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
CHLOROETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00

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Sample Location		EN-158	EN-160	EN-161	EN-162	EN-163	EN-164
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307439	0307318	0307298	0307296	0307297	0307446
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
CHLOROMETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	1.51	29.8	293	4.63	1.75	ND@1.00
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@2.00
DIBROMOMETHANE	ug/l	NA	ND@10.0	ND@20.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
ETHYLBENZENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.00	1.25 J	ND@20.0	ND@1.0	ND@1.0	0.65 J
TETRAHYDROFURAN	ug/l	ND@10.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@10.00
TOLUENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@2.00
TRICHLOROETHENE	ug/l	ND@1.00	99	26.1	4.82	3.87	ND@1.00
TRICHLOROFLUOROMETHANE	ug/l	ND@1.00	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00
VINYL CHLORIDE	ug/l	0.6 J	ND@10.0	ND@20.0	ND@1.0	ND@1.0	ND@1.00

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Sample Location		EN-165	EN-166	EN-167	EN-170	EN-173	EN-174
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/14/2003	08/12/2003	08/12/2003	08/11/2003
Laboratory Sample I.D.		0307444	0307323	0307463	0307373	0307370	0307299
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.17	7.45	6.94	6.66	6.59	7.04
SPECIFIC CONDUCTANCE	umhos/cm	2240	273	264	8830	1840	1690
TEMPERATURE	C	13.33	20.39	20.85	14.88	14.41	14.07
TURBIDITY	tu	37.3	21	>1000	814	183	83.3
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10.00	NA	ND@10.00	NA	NA	NA
METHYL BUTYL KETONE	ug/l	ND@1.00	NA	ND@1.00	NA	NA	NA
METHYL ETHYL KETONE	ug/l	ND@2.00	NA	ND@2.00	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1.00	NA	ND@1.00	NA	NA	NA
N-BUTYL ACETATE	ug/l	ND@2.00	NA	ND@2.00	NA	NA	NA
VINYL ACETATE	ug/l	ND@2.00	NA	ND@2.00	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	ND@50.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	ND@50.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1.00	NA	ND@1.00	NA	NA	NA

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Sample Location		EN-165	EN-166	EN-167	EN-170	EN-173	EN-174
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/14/2003	08/12/2003	08/12/2003	08/11/2003
Laboratory Sample I.D.		0307444	0307323	0307463	0307373	0307370	0307299
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	1.68	0.53 J	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	0.9 J	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.87 J	2.44	1.2	ND@50.0	0.48 J	0.65 J
1,1-DICHLOROETHENE	ug/l	ND@1.00	0.15 J	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@50.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.42 J	0.73 J	0.44 J	ND@50.0	0.5 J	0.46 J
1,2-DICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10.00	ND@1.0	ND@10.00	ND@50.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	2.25	ND@1.0
BROMOBENZENE	ug/l	NA	ND@1.0	NA	ND@50.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@50.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	ND@1.00	NA	ND@1.00	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	0.53 J	ND@1.0

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Sample Location		EN-165	EN-166	EN-167	EN-170	EN-173	EN-174
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/11/2003	08/14/2003	08/12/2003	08/12/2003	08/11/2003
Laboratory Sample I.D.		0307444	0307323	0307463	0307373	0307370	0307299
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	0.26 J	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	0.14 J	3.52	0.83 J	140	6	3.21
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@50.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	NA	ND@1.0	NA	ND@50.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	0.19 J	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@50.0	0.24 J	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	0.24 J	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	0.75 J	2.47	ND@1.00	ND@50.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@10.00	ND@1.0	ND@10.00	ND@50.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	0.47 J	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	0.85 J	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@50.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	1.49	1.92	1.09	31.6 J	ND@1.0	0.82 J
TRICHLOROFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@50.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.00	0.59 J	2	ND@50.0	14.2	ND@1.0

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Sample Location		EN-175	EN-176	EN-177	EN-178	EN-179	EN-179
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		08/11/2003	08/12/2003	08/14/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307317	0307366	0307720	0307349	0307358	227296-14
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.65	6.78	7.27	7.19	7.03	7.03
SPECIFIC CONDUCTANCE	umhos/cm	222	1036	655	2290	1280	1280
TEMPERATURE	C	14.40	10.56	15.63	12.41	9.89	9.89
TURBIDITY	tu	1.86	50.8	18.1	6.22	>1000	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
STYRENE	ug/l	NA	NA	NA	NA	NA	ND@1.0

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Sample Location		EN-175	EN-176	EN-177	EN-178	EN-179	EN-179
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		08/11/2003	08/12/2003	08/14/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307317	0307366	0307720	0307349	0307358	227296-14
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	2.97	0.65 J	ND@1.0	1.04	0.97 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.17 J	2.14	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	0.53 J	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-175	EN-176	EN-177	EN-178	EN-179	EN-179
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE
Sample Date		08/11/2003	08/12/2003	08/14/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307317	0307366	0307720	0307349	0307358	227296-14
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	1.59	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	0.67 J	0.95 J	ND@1.0	0.34 J	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1.0	1.2	0.85 J	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	1.12	6.8	6.3	13.1	9.9
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	0.6 J	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-180	EN-182	EN-183	EN-184	EN-185	EN-186
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/13/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307357	0307372	0307371	0307430	0307313	0307448
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.97	6.59	6.66	6.24	6.29	6.98
SPECIFIC CONDUCTANCE	umhos/cm	1373	6420	2630	477	325	4220
TEMPERATURE	C	9.07	14.67	15.77	18.89	15.49	13.66
TURBIDITY	tu	>1000	>1000	3.44	>1000	1.47	906
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	ND@10.00	NA	ND@10.00
METHYL BUTYL KETONE	ug/l	NA	NA	NA	ND@1.00	NA	ND@1.00
METHYL ETHYL KETONE	ug/l	NA	NA	NA	ND@2.00	NA	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	ND@1.00	NA	ND@1.00
N-BUTYL ACETATE	ug/l	NA	NA	NA	ND@2.00	NA	ND@2.00
VINYL ACETATE	ug/l	NA	NA	NA	ND@2.00	NA	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	NA	ND@50.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	NA	ND@50.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	ND@1.00	NA	ND@1.00

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Sample Location		EN-180	EN-182	EN-183	EN-184	EN-185	EN-186
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/13/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307357	0307372	0307371	0307430	0307313	0307448
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	0.76 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	1.17
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	0.53 J	ND@50.0	ND@1.00
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@50.0	ND@20.0	NA	ND@50.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	0.41 J
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@10.00	ND@50.0	ND@10.00
BENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
BROMOBENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	NA	ND@50.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
BROMOFORM	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@2.00	ND@50.0	ND@2.00
BROMOMETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
CARBON DISULFIDE	ug/l	NA	NA	NA	0.16 J	NA	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
CHLOROBENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
CHLOROETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00

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Sample Location		EN-180	EN-182	EN-183	EN-184	EN-185	EN-186
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/13/2003	08/11/2003	08/14/2003
Laboratory Sample I.D.		0307357	0307372	0307371	0307430	0307313	0307448
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	0.74 J
CHLOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	317	226	8.4	516	0.48 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@2.00	ND@50.0	ND@2.00
DIBROMOMETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	NA	ND@50.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
ETHYLBENZENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@2.00	ND@50.0	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	1.77
TETRAHYDROFURAN	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@10.00	ND@50.0	ND@10.00
TOLUENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@50.0	ND@20.0	0.22 J	ND@50.0	ND@1.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@2.00	ND@50.0	ND@2.00
TRICHLOROETHENE	ug/l	ND@1.0	ND@50.0	ND@20.0	3.13	ND@50.0	ND@1.00
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@50.0	ND@20.0	ND@1.00	ND@50.0	ND@1.00
VINYL CHLORIDE	ug/l	ND@1.0	ND@50.0	183	0.64 J	217	ND@1.00

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Sample Location		EN-187	EN-188	EN-189	EN-190	EN-191	EN-192
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307722	0307674	0307675	0307688	0307669	0307667
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.44	6.69	6.84	6.74	6.93	6.83
SPECIFIC CONDUCTANCE	umhos/cm	1790	18100	9450	518	4090	5560
TEMPERATURE	C	15.91	15.59	15.49	13.64	14.83	14.11
TURBIDITY	tu	359	>1000	>1000	>1000	937	789
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		EN-187	EN-188	EN-189	EN-190	EN-191	EN-192
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307722	0307674	0307675	0307688	0307669	0307667
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	1.98 J	4.94 J	6.3	2.04 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	0.24 J	0.92 J	ND@5.0	ND@1.0	ND@5.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	5.1	1.29	ND@5.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@2.0	1.29 J	0.74 J	ND@5.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@2.0	2.03 J	ND@1.0	ND@5.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0

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Sample Location		EN-187	EN-188	EN-189	EN-190	EN-191	EN-192
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307722	0307674	0307675	0307688	0307669	0307667
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	0.74 J	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	0.75 J	0.45 J	42.8	19.7	2.51 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	0.65 J	ND@2.0	ND@5.0	ND@1.0	ND@5.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	8.9	12.9	44.2	ND@5.0	0.4 J	ND@5.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@2.0	1.25 J	ND@1.0	ND@5.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
TRICHLOROETHENE	ug/l	1.48	1.49	1.91 J	111	131	46.4
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@2.0	ND@5.0	ND@1.0	ND@5.0

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Sample Location		EN-193	EN-194	EN-195	EN-196	EN-197	EN-200
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/11/2003	08/11/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307374	0307319	0307315	0307352	0307355	0307353
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.74	6.85	6.49	6.81	6.62	6.32
SPECIFIC CONDUCTANCE	umhos/cm	8820	477	789	1131	1212	2260
TEMPERATURE	C	14.93	10.52	13.66	15.27	12.92	15.52
TURBIDITY	tu	>1000	1.89	2.06	NA	684	>1000
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		EN-193	EN-194	EN-195	EN-196	EN-197	EN-200
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/11/2003	08/11/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307374	0307319	0307315	0307352	0307355	0307353
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	2.56	ND@20.0	1.05 J	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.58 J	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.17 J	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-193	EN-194	EN-195	EN-196	EN-197	EN-200
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/11/2003	08/11/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307374	0307319	0307315	0307352	0307355	0307353
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	1	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	20.4	16.1 J	44.7	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	11.4	ND@20.0	14.8	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	0.11 J	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	38.1	147	27.7	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@20.0	ND@2.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-201	EN-202	EN-203	EN-203	EN-204	EN-204
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		08/12/2003	08/13/2003	08/13/2003	08/13/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307340	0307659	0307655	227413-4	0307342	227296-5
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.56	7.10	6.92	6.92	6.90	6.90
SPECIFIC CONDUCTANCE	umhos/cm	239	222	463	463	240	240
TEMPERATURE	C	13.14	13.71	14.81	14.81	13.31	13.31
TURBIDITY	tu	25.4	15.8	7.27	7.27	48.6	48.6
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
STYRENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0

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Sample Location		EN-201	EN-202	EN-203	EN-203	EN-204	EN-204
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		08/12/2003	08/13/2003	08/13/2003	08/13/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307340	0307659	0307655	227413-4	0307342	227296-5
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	0.27 J	1.11	0.78 J	2.43 J	7.7
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	0.18 J	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	0.82 J
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	0.50 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	0.70 J
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.0	NA
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	1.2
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0

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Sample Location		EN-201	EN-202	EN-203	EN-203	EN-204	EN-204
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		08/12/2003	08/13/2003	08/13/2003	08/13/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		0307340	0307659	0307655	227413-4	0307342	227296-5
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	1.2
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	0.1 J	ND@1.0	10.6	10
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	0.82 J	ND@1.0	ND@1.0	ND@10.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.0	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1.0	4.63	ND@1.0	ND@1.0	ND@10.0	1.9
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.0	NA
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	2.98	8.7	8.2	100	110 D
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@10.0	ND@1.0

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Sample Location		EN-206	EN-207	EN-210	EN-211	EN-215	EN-218
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/11/2003	08/11/2003	08/13/2003	08/12/2003	08/11/2003
Laboratory Sample I.D.		0307341	0307311	0307310	0307653	0307337	0307322
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.06	7.72	7.92	6.98	6.92	7.16
SPECIFIC CONDUCTANCE	umhos/cm	222	1630	1479	225	546	204
TEMPERATURE	C	13.69	12.49	11.75	19.08	13.84	18.33
TURBIDITY	tu	31.6	47	14.5	11.3	11.4	24.3
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		EN-206	EN-207	EN-210	EN-211	EN-215	EN-218
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/11/2003	08/11/2003	08/13/2003	08/12/2003	08/11/2003
Laboratory Sample I.D.		0307341	0307311	0307310	0307653	0307337	0307322
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	4.51 J	0.27 J	0.36 J	0.65 J	8.3 J	1.02
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	1.88	ND@20.0	2.4
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	3.98	ND@20.0	7.6
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@1.0	ND@1.0	0.37 J	ND@20.0	0.75 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	1.58	ND@20.0	4.25
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	0.59 J	ND@20.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
BENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
BROMOBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
BROMOFORM	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
BROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
CHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
CHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0

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Sample Location		EN-206	EN-207	EN-210	EN-211	EN-215	EN-218
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/11/2003	08/11/2003	08/13/2003	08/12/2003	08/11/2003
Laboratory Sample I.D.		0307341	0307311	0307310	0307653	0307337	0307322
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	0.11 J	ND@1.0	ND@1.0	ND@20.0	ND@1.0
CHLOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	13.7	0.78 J	ND@1.0	6.4	16 J	16
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	0.21 J	ND@20.0	ND@1.0
ETHYLBENZENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	5.3 J	ND@1.0	ND@1.0	1.04	20.3	0.94 J
TETRAHYDROFURAN	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
TOLUENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@1.0	ND@1.0	0.21 J	ND@20.0	0.26 J
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
TRICHLOROETHENE	ug/l	67.6	9.1	16.2	3.02	105	2.79
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@1.0	ND@1.0	ND@20.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@1.0	ND@1.0	1.47	ND@20.0	3.52

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Sample Location		EN-219	EN-220	EN-220	EN-221	EN-222	EN-253
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/14/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307330	0307333	0307438	0307332	0307314	0307328
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.91	7.49	6.76	7.64	6.77	7.52
SPECIFIC CONDUCTANCE	umhos/cm	411	478	3390	568	251	529
TEMPERATURE	C	16.59	18.23	15.41	18.50	13.43	17.29
TURBIDITY	tu	>1000	>1000	>1000	>1000	164	0.63
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	ND@10.00	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	ND@1.00	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	ND@2.00	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	ND@1.00	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	ND@2.00	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	ND@2.00	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@100.0	ND@200.0	NA	ND@10.0	ND@1.0	ND@2000.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@100.0	ND@200.0	NA	ND@10.0	ND@1.0	ND@2000.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
1,4-DICHLOROBENZENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	ND@1.00	NA	NA	NA

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Sample Location		EN-219	EN-220	EN-220	EN-221	EN-222	EN-253
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/14/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307330	0307333	0307438	0307332	0307314	0307328
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
1,1,1-TRICHLOROETHANE	ug/l	2171	ND@200.0	ND@1.00	14.4	ND@1.0	30428
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	110	1170	ND@1.00	309	ND@1.0	ND@2000.0
1,1,2-TRICHLOROETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
1,1-DICHLOROETHANE	ug/l	181	ND@200.0	ND@1.00	74.9	0.37 J	ND@2000.0
1,1-DICHLOROETHENE	ug/l	85.4 J	ND@200.0	ND@1.00	2.84 J	ND@1.0	ND@2000.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@100.0	ND@200.0	NA	ND@10.0	ND@1.0	ND@2000.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@100.0	108 J	ND@1.00	73.7	ND@1.0	ND@2000.0
1,2-DICHLOROETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
1,2-DICHLOROPROPANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@100.0	ND@200.0	ND@10.00	ND@10.0	ND@1.0	ND@2000.0
BENZENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
BROMOBENZENE	ug/l	ND@100.0	ND@200.0	NA	ND@10.0	ND@1.0	ND@2000.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
BROMOFORM	ug/l	ND@100.0	ND@200.0	ND@2.00	ND@10.0	ND@1.0	ND@2000.0
BROMOMETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
CARBON DISULFIDE	ug/l	NA	NA	ND@1.00	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
CHLOROBENZENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
CHLORODIBROMOMETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
CHLOROETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	4.64 J	ND@1.0	ND@2000.0

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Sample Location		EN-219	EN-220	EN-220	EN-221	EN-222	EN-253
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/11/2003	08/14/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307330	0307333	0307438	0307332	0307314	0307328
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	2.12	ND@2000.0
CHLOROMETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
CIS-1,2-DICHLOROETHENE	ug/l	699	ND@200.0	ND@1.00	ND@10.0	1.18	2334
CIS-1,3-DICHLOROPROPENE	ug/l	ND@100.0	ND@200.0	ND@2.00	ND@10.0	ND@1.0	ND@2000.0
DIBROMOMETHANE	ug/l	ND@100.0	ND@200.0	NA	ND@10.0	ND@1.0	ND@2000.0
DICHLORODIFLUOROMETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	2.5 J	ND@1.0	ND@2000.0
ETHYLBENZENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@100.0	ND@200.0	ND@2.00	ND@10.0	ND@1.0	ND@2000.0
METHYL T-BUTYL ETHER	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
METHYLENE CHLORIDE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	0.24 J	ND@2000.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
TETRAHYDROFURAN	ug/l	ND@100.0	ND@200.0	ND@10.00	ND@10.0	257	ND@2000.0
TOLUENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	0.09 J	256 J
TRANS-1,2-DICHLOROETHENE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@100.0	ND@200.0	ND@2.00	ND@10.0	ND@1.0	ND@2000.0
TRICHLOROETHENE	ug/l	455	ND@200.0	ND@1.00	ND@10.0	0.13 J	7597
TRICHLOROFLUOROMETHANE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	ND@1.0	ND@2000.0
VINYL CHLORIDE	ug/l	ND@100.0	ND@200.0	ND@1.00	ND@10.0	1.26	ND@2000.0

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Sample Location		EN-276	EN-277	EN-278	EN-279	EN-281	EN-282
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307692	0307729	0307725	0307726	0307727	0307728
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	6.94	6.91	7.16	6.87	6.79	6.81
SPECIFIC CONDUCTANCE	umhos/cm	1105	4540	536	5980	3080	3160
TEMPERATURE	C	10.43	15.67	14.07	14.23	14.63	15.34
TURBIDITY	tu	12.8	817	863	775	86.3	22.6
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,4-DICHLOROBENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

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Sample Location		EN-276	EN-277	EN-278	EN-279	EN-281	EN-282
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307692	0307729	0307725	0307726	0307727	0307728
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,1,1-TRICHLOROETHANE	ug/l	1941	89	54.4 J	32.9 J	ND@50.0	ND@50.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	127	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,1,2-TRICHLOROETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,1-DICHLOROETHANE	ug/l	67.9 J	459	529	298	ND@50.0	ND@50.0
1,1-DICHLOROETHENE	ug/l	82.2 J	5.3 J	15.3 J	10.7 J	ND@50.0	ND@50.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLOROETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLOROPROPANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
BENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
BROMOBENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
BROMOFORM	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
BROMOMETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
CHLOROBENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
CHLORODIBROMOMETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
CHLOROETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0

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Sample Location		EN-276	EN-277	EN-278	EN-279	EN-281	EN-282
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/13/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307692	0307729	0307725	0307726	0307727	0307728
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
CHLOROMETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
CIS-1,2-DICHLOROETHENE	ug/l	233	286	1941	637	629	637
CIS-1,3-DICHLOROPROPENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
DIBROMOMETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
DICHLORODIFLUOROMETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
ETHYLBENZENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
METHYL T-BUTYL ETHER	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
METHYLENE CHLORIDE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	120	14.2 J	ND@100.0	13.2 J	ND@50.0	ND@50.0
TETRAHYDROFURAN	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
TOLUENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
TRICHLOROETHENE	ug/l	146	818	384	263	ND@50.0	ND@50.0
TRICHLOROFLUOROMETHANE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	ND@50.0	ND@50.0
VINYL CHLORIDE	ug/l	ND@100.0	ND@20.0	ND@100.0	ND@50.0	412	352

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Sample Location		EN-283	EN-284	EN-284	EN-CAF	EN-CAF	EN-D01
Sample Description		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307724	0307664	227413-2	0307329	227296-13	0307292
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	8.20	6.95	6.95	6.85	6.85	7.20
SPECIFIC CONDUCTANCE	umhos/cm	731	847	847	1327	1327	1324
TEMPERATURE	C	18.00	14.94	14.94	15.36	15.36	13.18
TURBIDITY	tu	>1000	9.81	9.81	1.34	1.34	4.29
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
STYRENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA

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Sample Location		EN-283	EN-284	EN-284	EN-CAF	EN-CAF	EN-D01
Sample Description		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307724	0307664	227413-2	0307329	227296-13	0307292
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	0.53 J	ND@200.0	42	31.1	33	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@200.0	1.3	ND@20.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	67.9 J	120 D	38.6	44	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@200.0	7.7	ND@20.0	4.5	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@200.0	0.84 J	ND@20.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@200.0	3.5	ND@20.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
ACETONE	ug/l	ND@1.0	ND@200.0	NA	ND@20.0	NA	ND@1.0
BENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	2.9	ND@1.0

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Sample Location		EN-283	EN-284	EN-284	EN-CAF	EN-CAF	EN-D01
Sample Description		GROUNDWATER	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER
Sample Date		08/14/2003	08/13/2003	08/13/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307724	0307664	227413-2	0307329	227296-13	0307292
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@200.0	2.1	ND@20.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	664	280 D	52.3	26	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@200.0	NA	ND@20.0	NA	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	3.02	ND@200.0	10	ND@20.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@200.0	NA	ND@20.0	NA	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@200.0	5.7	ND@20.0	6.8	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	6	416	340 D	196	170 D	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@200.0	ND@1.0	ND@20.0	6.8	0.22 J

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Sample Location		EN-D01	EN-D02	EN-D02	EN-D03	EN-D04	EN-D04S
Sample Description		REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		227296-4	0307347	227296-6	0307346	0307343	0307345
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.20	7.82	7.82	7.31	7.32	7.30
SPECIFIC CONDUCTANCE	umhos/cm	1324	639	639	894	792	649
TEMPERATURE	C	13.18	13.09	13.09	12.48	11.58	11.93
TURBIDITY	tu	4.29	5.76	5.76	5.75	13.9	11.3
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
NAPHTHALENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
N-PROPYLBENZENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
STYRENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA

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Sample Location		EN-D01	EN-D02	EN-D02	EN-D03	EN-D04	EN-D04S
Sample Description		REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		227296-4	0307347	227296-6	0307346	0307343	0307345
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
2-CHLOROTOLUENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
ACETONE	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-D01	EN-D02	EN-D02	EN-D03	EN-D04	EN-D04S
Sample Description		REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/11/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003
Laboratory Sample I.D.		227296-4	0307347	227296-6	0307346	0307343	0307345
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	ND@1.0	NA	ND@1.0	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EN-D05	EN-D05S	EN-D06	EN-D07	EN-D08	EN-D09
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/11/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307276	0307344	0307277	0307293	0307441	0307442
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	7.21	6.93	8.15	7.28	6.74	7.71
SPECIFIC CONDUCTANCE	umhos/cm	1154	1208	1456	852	1730	828
TEMPERATURE	C	14.35	13.76	17.56	13.46	14.18	15.69
TURBIDITY	tu	5.53	25.3	45.7	12.3	>1000	13.4
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10.00	NA	ND@10.00	NA	ND@10.00	ND@10.00
METHYL BUTYL KETONE	ug/l	ND@1.00	NA	ND@1.00	NA	ND@1.00	ND@1.00
METHYL ETHYL KETONE	ug/l	ND@2.00	NA	ND@2.00	NA	ND@2.00	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	ND@1.00	NA	ND@1.00	NA	ND@1.00	ND@1.00
N-BUTYL ACETATE	ug/l	ND@2.00	NA	ND@2.00	NA	ND@2.00	ND@2.00
VINYL ACETATE	ug/l	ND@2.00	NA	ND@2.00	NA	ND@2.00	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1.00	NA	ND@1.00	NA	ND@1.00	ND@1.00

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Sample Location		EN-D05	EN-D05S	EN-D06	EN-D07	EN-D08	EN-D09
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/11/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307276	0307344	0307277	0307293	0307441	0307442
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,1,2-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,1-DICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,1-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,2-DICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10.00	ND@1.0	ND@10.00	ND@1.0	ND@10.00	ND@10.00
BENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
BROMOBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
BROMOFORM	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@1.0	ND@2.00	ND@2.00
BROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
CARBON DISULFIDE	ug/l	ND@1.00	NA	ND@1.00	NA	ND@1.00	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
CHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
CHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00

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Sample Location		EN-D05	EN-D05S	EN-D06	EN-D07	EN-D08	EN-D09
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/11/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307276	0307344	0307277	0307293	0307441	0307442
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
CHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@1.0	ND@2.00	ND@2.00
DIBROMOMETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
ETHYLBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@1.0	ND@2.00	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@1.00	ND@1.0	0.27 J	ND@1.0	ND@1.00	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
TETRAHYDROFURAN	ug/l	ND@10.00	ND@1.0	ND@10.00	ND@1.0	ND@10.00	ND@10.00
TOLUENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@1.0	ND@2.00	ND@2.00
TRICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
TRICHLOROFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00
VINYL CHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.00	ND@1.00

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Sample Location		EN-D10	EN-D11	EN-D12	EN-D13	EN-D14	EQ RINSE BLK
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	WTR LVL IND
Sample Date		08/14/2003	08/11/2003	08/12/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307461	0307294	0307278	0307286	0307285	0307288
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	8.04	8.14	10.36	6.95	6.98	NA
SPECIFIC CONDUCTANCE	umhos/cm	878	199	509	226	233	NA
TEMPERATURE	C	16.73	13.81	14.76	15.20	15.15	NA
TURBIDITY	tu	56.6	6	5.71	89.8	19.3	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10.00	NA	ND@10.00	NA	NA	NA
METHYL BUTYL KETONE	ug/l	ND@1.00	NA	ND@1.00	NA	NA	NA
METHYL ETHYL KETONE	ug/l	ND@2.00	NA	ND@2.00	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1.00	NA	ND@1.00	NA	NA	NA
N-BUTYL ACETATE	ug/l	ND@2.00	NA	ND@2.00	NA	NA	NA
VINYL ACETATE	ug/l	ND@2.00	NA	ND@2.00	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1.00	NA	ND@1.00	NA	NA	NA

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Sample Location		EN-D10	EN-D11	EN-D12	EN-D13	EN-D14	EQ RINSE BLK
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	WTR LVL IND
Sample Date		08/14/2003	08/11/2003	08/12/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307461	0307294	0307278	0307286	0307285	0307288
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	0.15 J	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	0.29 J	0.33 J	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	11.8	11	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	0.45 J	0.32 J	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	0.59 J	0.64 J	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10.00	ND@1.0	ND@10.00	ND@1.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	ND@1.00	NA	ND@1.00	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	0.44 J	1.89	ND@1.0

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Sample Location		EN-D10	EN-D11	EN-D12	EN-D13	EN-D14	EQ RINSE BLK
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	WTR LVL IND
Sample Date		08/14/2003	08/11/2003	08/12/2003	08/11/2003	08/11/2003	08/11/2003
Laboratory Sample I.D.		0307461	0307294	0307278	0307286	0307285	0307288
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	0.52 J	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	0.81 J	0.8 J	ND@1.0
ETHYLBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@10.00	ND@1.0	ND@10.00	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@2.00	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.00	34.8	12.4	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.00	ND@1.0	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
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August 2003

Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		WTR LVL IND	SUBM PUMP	BAILER	EN-D13	EN-002	EN-026
Sample Date		08/12/2003	08/13/2003	08/14/2003	08/11/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307339	0307652	0307718	0307287	0307338	0307651
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	NA	NA	NA	NA	NA	NA

Supplemental Groundwater Assessment
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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		WTR LVL IND	SUBM PUMP	BAILER	EN-D13	EN-002	EN-026
Sample Date		08/12/2003	08/13/2003	08/14/2003	08/11/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307339	0307652	0307718	0307287	0307338	0307651
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		WTR LVL IND	SUBM PUMP	BAILER	EN-D13	EN-002	EN-026
Sample Date		08/12/2003	08/13/2003	08/14/2003	08/11/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307339	0307652	0307718	0307287	0307338	0307651
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.07 J
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

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Sample Location		FIELD BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-165	8/11/8/13	8/11-8/13	8/11-8/13	8/11-8/13	8/12-8/13
Sample Date		08/14/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/12/2003
Laboratory Sample I.D.		0307719	0307312	0307295	0307279	227296-1	0307367
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	NA	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	NA	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	NA	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
STYRENE	ug/l	NA	NA	NA	NA	ND@1.0	NA

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August 2003

Sample Location		FIELD BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-165	8/11/8/13	8/11-8/13	8/11-8/13	8/11-8/13	8/12-8/13
Sample Date		08/14/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/12/2003
Laboratory Sample I.D.		0307719	0307312	0307295	0307279	227296-1	0307367
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
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Sample Location		FIELD BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-165	8/11/8/13	8/11-8/13	8/11-8/13	8/11-8/13	8/12-8/13
Sample Date		08/14/2003	08/11/2003	08/11/2003	08/11/2003	08/11/2003	08/12/2003
Laboratory Sample I.D.		0307719	0307312	0307295	0307279	227296-1	0307367
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/12-8/13	8/12-8/13	8/12-8/13	8/12-8/13	8/12-8/13	8/13-8/15
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307348	0307356	0307335	227296-2	0307275	0307666
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	ND@10.00	NA
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	ND@1.00	NA
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	ND@2.00	NA
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	ND@1.00	NA
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	ND@2.00	NA
VINYL ACETATE	ug/l	NA	NA	NA	NA	ND@2.00	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	NA	NA	NA	ND@1.0	ND@1.00	NA

Supplemental Groundwater Assessment
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August 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/12-8/13	8/12-8/13	8/12-8/13	8/12-8/13	8/12-8/13	8/13-8/15
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307348	0307356	0307335	227296-2	0307275	0307666
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.00	ND@1.0
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	ND@1.00	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/12-8/13	8/12-8/13	8/12-8/13	8/12-8/13	8/12-8/13	8/13-8/15
Sample Date		08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/12/2003	08/13/2003
Laboratory Sample I.D.		0307348	0307356	0307335	227296-2	0307275	0307666
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.00	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.00	ND@1.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.0

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15
Sample Date		08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307677	0307687	0307649	227413-1	0307424	0307428
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	NA	NA	NA	ND@10.00	ND@10.00
METHYL BUTYL KETONE	ug/l	NA	NA	NA	NA	ND@1.00	ND@1.00
METHYL ETHYL KETONE	ug/l	NA	NA	NA	NA	ND@2.00	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	NA	NA	NA	NA	ND@1.00	ND@1.00
N-BUTYL ACETATE	ug/l	NA	NA	NA	NA	ND@2.00	ND@2.00
VINYL ACETATE	ug/l	NA	NA	NA	NA	ND@2.00	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	NA	NA	NA	ND@1.0	ND@1.00	ND@1.00

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August 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15
Sample Date		08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307677	0307687	0307649	227413-1	0307424	0307428
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.00	ND@10.00
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@2.00
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
CARBON DISULFIDE	ug/l	NA	NA	NA	NA	ND@1.00	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15	8/13-8/15
Sample Date		08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003	08/13/2003
Laboratory Sample I.D.		0307677	0307687	0307649	227413-1	0307424	0307428
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@2.00
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.00	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
TETRAHYDROFURAN	ug/l	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.00	ND@10.00
TOLUENE	ug/l	ND@1.0	ND@1.0	0.07 J	ND@1.0	ND@1.00	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00	ND@2.00
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00	ND@1.00

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307432	0307717	0307710	0307695	227413-8	0307443
Sample Comment Codes							
Parameter	**Units**						
Indicator Parameters							
PH	pH	NA	NA	NA	NA	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA	NA	NA	NA	NA
TEMPERATURE	C	NA	NA	NA	NA	NA	NA
TURBIDITY	tu	NA	NA	NA	NA	NA	NA
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@1.00	NA	NA	NA	NA	ND@10.00
METHYL BUTYL KETONE	ug/l	ND@1.00	NA	NA	NA	NA	ND@1.00
METHYL ETHYL KETONE	ug/l	ND@2.00	NA	NA	NA	NA	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	ND@1.00	NA	NA	NA	NA	ND@1.00
N-BUTYL ACETATE	ug/l	ND@2.00	NA	NA	NA	NA	ND@2.00
VINYL ACETATE	ug/l	ND@2.00	NA	NA	NA	NA	ND@2.00
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
STYRENE	ug/l	ND@1.00	NA	NA	NA	ND@1.0	ND@1.00

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307432	0307717	0307710	0307695	227413-8	0307443
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1,2-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,2-DICHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@10.00	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.00
BENZENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
BROMOBENZENE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
BROMOFORM	ug/l	ND@2.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00
BROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CARBON DISULFIDE	ug/l	ND@1.00	NA	NA	NA	NA	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CHLOROBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CHLOROETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15	8/14-8/15
Sample Date		08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003	08/14/2003
Laboratory Sample I.D.		0307432	0307717	0307710	0307695	227413-8	0307443
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CHLOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00
DIBROMOMETHANE	ug/l	NA	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
ETHYLBENZENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@2.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	NA	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
TETRAHYDROFURAN	ug/l	ND@10.00	ND@1.0	ND@1.0	ND@1.0	NA	ND@10.00
TOLUENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@2.00
TRICHLOROETHENE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
TRICHLOROFLUOROMETHANE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00
VINYL CHLORIDE	ug/l	ND@1.00	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.00

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		TRIP BLANK	TRIP BLANK
Sample Description		8/14-8/15	8/14-8/15
Sample Date		08/14/2003	08/14/2003
Laboratory Sample I.D.		0307462	0307451
Sample Comment Codes			
Parameter	**Units**		
Indicator Parameters			
PH	pH	NA	NA
SPECIFIC CONDUCTANCE	umhos/cm	NA	NA
TEMPERATURE	C	NA	NA
TURBIDITY	tu	NA	NA
Alcohols, Acetates, Aldehydes, Ketones			
ISOPROPANOL	ug/l	ND@10.00	ND@10.00
METHYL BUTYL KETONE	ug/l	ND@1.00	ND@1.00
METHYL ETHYL KETONE	ug/l	ND@2.00	ND@2.00
METHYL ISOBUTYL KETONE	ug/l	ND@1.00	ND@1.00
N-BUTYL ACETATE	ug/l	ND@2.00	ND@2.00
VINYL ACETATE	ug/l	ND@2.00	ND@2.00
Base/Neutral Extractables			
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.00
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.00
1,4-DICHLOROBENZENE	ug/l	ND@1.00	ND@1.00
HEXACHLOROBUTADIENE	ug/l	NA	NA
NAPHTHALENE	ug/l	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA
STYRENE	ug/l	ND@1.00	ND@1.00

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		TRIP BLANK	TRIP BLANK
Sample Description		8/14-8/15	8/14-8/15
Sample Date		08/14/2003	08/14/2003
Laboratory Sample I.D.		0307462	0307451
Sample Comment Codes			
Parameter	**Units**		
Volatile Organics			
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.00
1,1,1-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.00
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.00	ND@1.00
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@1.00
1,1,2-TRICHLOROETHANE	ug/l	ND@1.00	ND@1.00
1,1-DICHLOROETHANE	ug/l	ND@1.00	ND@1.00
1,1-DICHLOROETHENE	ug/l	ND@1.00	ND@1.00
1,1-DICHLOROPROPENE	ug/l	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.00	ND@1.00
1,2-DICHLOROETHANE	ug/l	ND@1.00	ND@1.00
1,2-DICHLOROPROPANE	ug/l	ND@1.00	ND@1.00
1,3-DICHLOROPROPANE	ug/l	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA
ACETONE	ug/l	ND@10.00	ND@10.00
BENZENE	ug/l	ND@1.00	ND@1.00
BROMOBENZENE	ug/l	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.00	ND@1.00
BROMOFORM	ug/l	ND@2.00	ND@2.00
BROMOMETHANE	ug/l	ND@1.00	ND@1.00
CARBON DISULFIDE	ug/l	ND@1.00	ND@1.00
CARBON TETRACHLORIDE	ug/l	ND@1.00	ND@1.00
CHLOROBENZENE	ug/l	ND@1.00	ND@1.00
CHLORODIBROMOMETHANE	ug/l	ND@1.00	ND@1.00
CHLOROETHANE	ug/l	ND@1.00	ND@1.00

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Sample Location		TRIP BLANK	TRIP BLANK
Sample Description		8/14-8/15	8/14-8/15
Sample Date		08/14/2003	08/14/2003
Laboratory Sample I.D.		0307462	0307451
Sample Comment Codes			
Parameter	**Units**		
Volatile Organics			
CHLOROFORM	ug/l	ND@1.00	ND@1.00
CHLOROMETHANE	ug/l	ND@1.00	ND@1.00
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.00
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@2.00
DIBROMOMETHANE	ug/l	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.00	ND@1.00
ETHYLBENZENE	ug/l	ND@1.00	ND@1.00
ISOPROPYLBENZENE	ug/l	NA	NA
M,P-XYLENE	ug/l	ND@2.00	ND@2.00
METHYL T-BUTYL ETHER	ug/l	ND@1.00	ND@1.00
METHYLENE CHLORIDE	ug/l	ND@1.00	ND@1.00
N-BUTYLBENZENE	ug/l	NA	NA
O-XYLENE	ug/l	ND@1.00	ND@1.00
SEC-BUTYLBENZENE	ug/l	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.00	ND@1.00
TETRAHYDROFURAN	ug/l	ND@10.00	ND@10.00
TOLUENE	ug/l	ND@1.00	ND@1.00
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.00	ND@1.00
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.00	ND@2.00
TRICHLOROETHENE	ug/l	ND@1.00	ND@1.00
TRICHLOROFLUOROMETHANE	ug/l	ND@1.00	ND@1.00
VINYL CHLORIDE	ug/l	ND@1.00	ND@1.00

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data

August 2003

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
D	Compound identified at a secondary dilution factor.
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit.

APPENDIX C-3

Groundwater and QA/QC Analytical Data for Characterization Samples from New Monitoring Wells (July - November 2003)

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		EN-208A	EN-208A	EN-208A	EN-208A	EN-213A	EN-213A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		07/22/2003	08/15/2003	08/15/2003	08/29/2003	07/22/2003	08/15/2003
Laboratory Sample I.D.		0306545	0307471	227412-2	0308101	0306546	0307472
Sample Comment Codes				X			
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@20	NA	ND@20 R	ND@10 R	ND@100
METHYL BUTYL KETONE	ug/l	ND@1	ND@2	NA	ND@2	ND@1	ND@10
METHYL ETHYL KETONE	ug/l	ND@2	ND@4	NA	ND@4	ND@2	ND@20
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@2	NA	ND@2	ND@1	ND@10
N-BUTYL ACETATE	ug/l	ND@2	ND@4	NA	ND@4	ND@2	ND@20
VINYL ACETATE	ug/l	ND@2	ND@4	NA	ND@4	ND@2	ND@20
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
HEXACHLOROBUTADIENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
STYRENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,1,1-TRICHLOROETHANE	ug/l	1 J	1 J	1.7	1 J	3	3 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,1-DICHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		EN-208A	EN-208A	EN-208A	EN-208A	EN-213A	EN-213A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		07/22/2003	08/15/2003	08/15/2003	08/29/2003	07/22/2003	08/15/2003
Laboratory Sample I.D.		0306545	0307471	227412-2	0308101	0306546	0307472
Sample Comment Codes				X			
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,1-DICHLOROPROPENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,2-DICHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
1,3-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
ACETONE	ug/l	ND@10	ND@20	NA	ND@20	ND@10	ND@100
BENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
BROMOBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
BROMOFORM	ug/l	ND@2	ND@4	ND@1.0	ND@4	ND@2	ND@20
BROMOMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
CARBON DISULFIDE	ug/l	ND@1	ND@2	NA	ND@2	ND@1	ND@10
CARBON TETRACHLORIDE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
CHLOROBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
CHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
CHLOROFORM	ug/l	ND@1	ND@2	ND@1.0	ND@2	0.5 J	ND@10
CHLOROMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
CIS-1,2-DICHLOROETHENE	ug/l	0.6 J	0.7 J	0.67 J	ND@2	2	2 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@4	ND@1.0	ND@4	ND@2	ND@20
DIBROMOMETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10

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Sample Location		EN-208A	EN-208A	EN-208A	EN-208A	EN-213A	EN-213A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		07/22/2003	08/15/2003	08/15/2003	08/29/2003	07/22/2003	08/15/2003
Laboratory Sample I.D.		0306545	0307471	227412-2	0308101	0306546	0307472
Sample Comment Codes				X			
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
ISOPROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@4	ND@1.0	ND@4	ND@2	ND@20
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@2	NA	ND@2	ND@1	ND@10
METHYLENE CHLORIDE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
N-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
SEC-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TETRACHLOROETHENE	ug/l	0.5 J	ND@2	ND@1.0	ND@2	ND@1	ND@10
TETRAHYDROFURAN	ug/l	ND@10	ND@20	NA	ND@20	ND@10	ND@100
TOLUENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2 J	ND@4	ND@1.0	ND@4	ND@2	ND@20
TRICHLOROETHENE	ug/l	51	49	59	50	130	120
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10
VINYL CHLORIDE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@1	ND@10

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Sample Location		EN-213A	EN-214A	EN-214A	EN-214A	EN-214B	EN-214B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	08/15/2003	08/29/2003	09/15/2003	08/15/2003	08/29/2003
Laboratory Sample I.D.		0308100	0307479	0308102	0308691	0307480	0308103
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@100 R	ND@50	ND@50 R	ND@20 R	ND@50	ND@50 R
METHYL BUTYL KETONE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
METHYL ETHYL KETONE	ug/l	ND@20	ND@10	ND@10	ND@4	ND@10	ND@10
METHYL ISOBUTYL KETONE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
N-BUTYL ACETATE	ug/l	ND@20	ND@10	ND@10	ND@4	ND@10	ND@10
VINYL ACETATE	ug/l	ND@20	ND@10	ND@10	ND@4	ND@10	ND@10
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,4-DICHLOROBENZENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,1,1-TRICHLOROETHANE	ug/l	3 J	2 J	ND@5	2 J	5	5
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,1,2-TRICHLOROETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,1-DICHLOROETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5

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Sample Location		EN-213A	EN-214A	EN-214A	EN-214A	EN-214B	EN-214B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	08/15/2003	08/29/2003	09/15/2003	08/15/2003	08/29/2003
Laboratory Sample I.D.		0308100	0307479	0308102	0308691	0307480	0308103
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,2-DICHLOROETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,2-DICHLOROPROPANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@100	ND@50	ND@50	ND@20	ND@50	ND@50
BENZENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
BROMOFORM	ug/l	ND@20	ND@10	ND@10	ND@4	ND@10	ND@10
BROMOMETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
CARBON DISULFIDE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
CARBON TETRACHLORIDE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
CHLOROBENZENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
CHLORODIBROMOMETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
CHLOROETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
CHLOROFORM	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
CHLOROMETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
CIS-1,2-DICHLOROETHENE	ug/l	ND@10	2 J	1 J	1 J	21	17
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@10	ND@10	ND@4	ND@10	ND@10
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5

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Sample Location		EN-213A	EN-214A	EN-214A	EN-214A	EN-214B	EN-214B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	08/15/2003	08/29/2003	09/15/2003	08/15/2003	08/29/2003
Laboratory Sample I.D.		0308100	0307479	0308102	0308691	0307480	0308103
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@20	ND@10	ND@10	ND@4	ND@10	ND@10
METHYL T-BUTYL ETHER	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
METHYLENE CHLORIDE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@10	5 J	3 J	3	11	9
TETRAHYDROFURAN	ug/l	ND@100	ND@50	ND@50	ND@20	ND@50	ND@50
TOLUENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@10	ND@10	ND@4	ND@10	ND@10
TRICHLOROETHENE	ug/l	110	61	54	60	95	100
TRICHLOROFLUOROMETHANE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5
VINYL CHLORIDE	ug/l	ND@10	ND@5	ND@5	ND@2	ND@5	ND@5

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Sample Location		EN-214B	EN-214C	EN-214C	EN-214C	EN-217A	EN-217A
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/14/2003	10/20/2003	11/03/2003	11/17/2003	07/17/2003	08/15/2003
Laboratory Sample I.D.		0308675	0309795	0310326	0311022	0306466	0307473
Sample Comment Codes					X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@100 R	ND@10 R	ND@1000	ND@20	ND@10 R	ND@10
METHYL BUTYL KETONE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@20	ND@2	ND@200	ND@4	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@20	ND@2	ND@200	ND@4	ND@2	ND@2
VINYL ACETATE	ug/l	ND@20	ND@2	ND@200	ND@4	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	6 J	6	54 J	3	0.4 J	0.5 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	0.2 J

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Sample Location		EN-214B	EN-214C	EN-214C	EN-214C	EN-217A	EN-217A
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/14/2003	10/20/2003	11/03/2003	11/17/2003	07/17/2003	08/15/2003
Laboratory Sample I.D.		0308675	0309795	0310326	0311022	0306466	0307473
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@10	0.3 J	ND@100	ND@2	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	0.9 J	ND@100	ND@2	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@100	ND@10	ND@1000	ND@20	ND@10	ND@10
BENZENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
BROMOFORM	ug/l	ND@20	ND@2	ND@200	ND@4	ND@2	ND@2
BROMOMETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
CHLOROETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
CHLOROFORM	ug/l	ND@10	ND@1	ND@100	ND@2	0.2 J	0.3 J
CHLOROMETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	22	17	160	4	1	1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@2	ND@200	ND@4	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1

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Sample Location		EN-214B	EN-214C	EN-214C	EN-214C	EN-217A	EN-217A
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/14/2003	10/20/2003	11/03/2003	11/17/2003	07/17/2003	08/15/2003
Laboratory Sample I.D.		0308675	0309795	0310326	0311022	0306466	0307473
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@20	ND@2	ND@200	ND@4	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	0.2 J
METHYLENE CHLORIDE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	15	5	66 J	7	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@100	ND@10	ND@1000	ND@20	ND@10	ND@10
TOLUENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@2	ND@200	ND@4	ND@2	ND@2
TRICHLOROETHENE	ug/l	110	130	1200	75	10	10
TRICHLOROFLUOROMETHANE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@10	ND@1	ND@100	ND@2	ND@1	ND@1

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Sample Location		EN-217A	EN-300A	EN-300A	EN-300A	EN-300B	EN-300B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308099	0307077	0308001	0308698	0307076	0308002
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@20	ND@20 R	ND@20 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@4	ND@4	ND@4	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@4	ND@4	ND@4	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@4	ND@4	ND@4	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	1	2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1

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Sample Location		EN-217A	EN-300A	EN-300A	EN-300A	EN-300B	EN-300B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308099	0307077	0308001	0308698	0307076	0308002
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@20	ND@20	ND@20	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@4	ND@4	ND@4	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@2	ND@2	ND@2	1 J	2
CHLOROBENZENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@2	ND@2	ND@2	0.8 J	0.4 J
CHLOROMETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	1	ND@2	ND@2	ND@2	0.3 J	0.4 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@4	ND@4	ND@4	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1

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Sample Location		EN-217A	EN-300A	EN-300A	EN-300A	EN-300B	EN-300B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308099	0307077	0308001	0308698	0307076	0308002
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@4	ND@4	ND@4	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	0.5 J
METHYLENE CHLORIDE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	3	2 J	2	5	6
TETRAHYDROFURAN	ug/l	ND@10	ND@20	ND@20	ND@20	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@4	ND@4	ND@4	ND@2	ND@2
TRICHLOROETHENE	ug/l	10	1 J	ND@2	0.8 J	9	10
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@1	ND@1

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Sample Location		EN-300B	EN-301	EN-301	EN-301	EN-302	EN-302
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/26/2003	10/12/2003	10/28/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308697	0308995	0309454	0310234	0307068	0307998
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@20 R	ND@20 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1,1-TRICHLOROETHANE	ug/l	1	ND@1	ND@1	ND@1	2	2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	1 J	2 J

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Sample Location		EN-300B	EN-301	EN-301	EN-301	EN-302	EN-302
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/26/2003	10/12/2003	10/28/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308697	0308995	0309454	0310234	0307068	0307998
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@20	ND@20
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CARBON TETRACHLORIDE	ug/l	2	ND@1	ND@1	ND@1	ND@2	ND@2
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CHLOROFORM	ug/l	0.6 J	ND@1	ND@1	ND@1	ND@2	ND@2
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CIS-1,2-DICHLOROETHENE	ug/l	0.4 J	ND@1	ND@1	ND@1	1 J	1 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2

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Sample Location		EN-300B	EN-301	EN-301	EN-301	EN-302	EN-302
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/26/2003	10/12/2003	10/28/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308697	0308995	0309454	0310234	0307068	0307998
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
METHYL T-BUTYL ETHER	ug/l	0.4 J	0.6 J	0.4 J	0.3 J	ND@2	0.5 J
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	6	ND@1	ND@1	ND@1	7	8
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@20	ND@20
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
TRICHLOROETHENE	ug/l	10	ND@1	ND@1	0.4 J	42	45
TRICHLOROFLUOROMETHANE	ug/l	ND@1	0.7 J	0.9 J	1	ND@2	ND@2
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2

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Sample Location		EN-302	EN-303A	EN-303A	EN-303A	EN-303B	EN-303B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308688	0307073	0308003	0308692	0307074	0308004
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@20 R	ND@10 R	ND@10 R	ND@10 R	ND@500 R	ND@500 R
METHYL BUTYL KETONE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
METHYL ETHYL KETONE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@100	ND@100
METHYL ISOBUTYL KETONE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
N-BUTYL ACETATE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@100	ND@100
VINYL ACETATE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@100	ND@100
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
1,4-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
1,1,1-TRICHLOROETHANE	ug/l	2	ND@1	ND@1	ND@1	ND@50	ND@50
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	1100	1100
1,1,2-TRICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
1,1-DICHLOROETHANE	ug/l	1 J	ND@1	ND@1	ND@1	ND@50	ND@50

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Sample Location		EN-302	EN-303A	EN-303A	EN-303A	EN-303B	EN-303B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308688	0307073	0308003	0308692	0307074	0308004
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	51	46 J
1,2-DICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
1,2-DICHLOROPROPANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@20	ND@10	ND@10	ND@10	ND@500	ND@500
BENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
BROMOFORM	ug/l	ND@4	ND@2	ND@2	ND@2	ND@100	ND@100
BROMOMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
CARBON DISULFIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
CARBON TETRACHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
CHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
CHLORODIBROMOMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
CHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
CHLOROFORM	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
CHLOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
CIS-1,2-DICHLOROETHENE	ug/l	0.9 J	3	2	2	ND@50	ND@50
CIS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@100	ND@100
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50

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Sample Location		EN-302	EN-303A	EN-303A	EN-303A	EN-303B	EN-303B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308688	0307073	0308003	0308692	0307074	0308004
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@100	ND@100
METHYL T-BUTYL ETHER	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
METHYLENE CHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	9	ND@1	ND@1	ND@1	ND@50	ND@50
TETRAHYDROFURAN	ug/l	ND@20	ND@10	ND@10	ND@10	ND@500	ND@500
TOLUENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
TRANS-1,2-DICHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@100	ND@100
TRICHLOROETHENE	ug/l	48	23	22	25	33 J	32 J
TRICHLOROFLUOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50
VINYL CHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@50	ND@50

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Sample Location		EN-303B	EN-304	EN-304	EN-304	EN-305	EN-305
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308693	0307075	0308005	0308694	0307072	0308006
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@500 R	ND@10	ND@10 R	ND@10 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@100	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@100	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@100	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@50	0.5 J	0.4 J	0.5 J	2	2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1400	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-303B	EN-304	EN-304	EN-304	EN-305	EN-305
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308693	0307075	0308005	0308694	0307072	0308006
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	56	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@500	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@100	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@100	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-303B	EN-304	EN-304	EN-304	EN-305	EN-305
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308693	0307075	0308005	0308694	0307072	0308006
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@100	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@500	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@100	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	31 J	21	17	18	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@50	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-305	EN-306A	EN-306A	EN-306A	EN-306B	EN-306B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308686	0307070	0307999	0308690	0307071	0308000
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@50 R	ND@50 R	ND@100 R	ND@10	ND@50 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
METHYL ETHYL KETONE	ug/l	ND@2	ND@10	ND@10	ND@20	ND@2	ND@10
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
N-BUTYL ACETATE	ug/l	ND@2	ND@10	ND@10	ND@20	ND@2	ND@10
VINYL ACETATE	ug/l	ND@2	ND@10	ND@10	ND@20	ND@2	ND@10
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,1,1-TRICHLOROETHANE	ug/l	2	140	68	160	11	8
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,1-DICHLOROETHANE	ug/l	ND@1	76	20	58	9	2 J

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Sample Location		EN-305	EN-306A	EN-306A	EN-306A	EN-306B	EN-306B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308686	0307070	0307999	0308690	0307071	0308000
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	42	10	20	3	ND@5
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,2-DICHLOROETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@50	ND@50	ND@100	ND@10	ND@50
BENZENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
BROMOFORM	ug/l	ND@2	ND@10	ND@10	ND@20	ND@2	ND@10
BROMOMETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
CARBON DISULFIDE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
CARBON TETRACHLORIDE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
CHLOROBENZENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
CHLOROETHANE	ug/l	ND@1	4 J	ND@5	4 J	ND@1	ND@5
CHLOROFORM	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
CHLOROMETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	11	1 J	8 J	0.5 J	ND@5
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@10	ND@10	ND@20	ND@2	ND@10
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5

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Sample Location		EN-305	EN-306A	EN-306A	EN-306A	EN-306B	EN-306B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	08/07/2003	08/26/2003	09/15/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308686	0307070	0307999	0308690	0307071	0308000
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@5	ND@5	ND@10	0.4 J	ND@5
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@10	ND@10	ND@20	0.4 J	ND@10
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
METHYLENE CHLORIDE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
TETRAHYDROFURAN	ug/l	ND@10	ND@50	ND@50	ND@100	ND@10	ND@50
TOLUENE	ug/l	ND@1	ND@5	ND@5	ND@10	0.4 J	ND@5
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@10	ND@10	ND@20	ND@2	ND@10
TRICHLOROETHENE	ug/l	ND@1	25	8	16	24	61
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@5	ND@5	ND@10	ND@1	ND@5
VINYL CHLORIDE	ug/l	ND@1	12	ND@5	8 J	0.4 J	ND@5

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Sample Location		EN-306B	EN-307	EN-307	EN-307	EN-308	EN-308
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	07/01/2003	07/17/2003	08/15/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0308689	0305819	0306461	0307474	0305818	0306462
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@20 R	ND@10	ND@10 R	ND@10	ND@10	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@4	ND@2	ND@2	1 J	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	11	0.5 J	0.4 J	0.5 J	2	2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	3	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-306B	EN-307	EN-307	EN-307	EN-308	EN-308
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	07/01/2003	07/17/2003	08/15/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0308689	0305819	0306461	0307474	0305818	0306462
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	1 J	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@20	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	0.3 J	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-306B	EN-307	EN-307	EN-307	EN-308	EN-308
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	07/01/2003	07/17/2003	08/15/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0308689	0305819	0306461	0307474	0305818	0306462
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@20	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	65	4	4	4	19	18
TRICHLOROFLUOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-308	EN-309A	EN-309A	EN-309A	EN-309B	EN-309B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/15/2003	07/17/2003	08/15/2003	08/29/2003	07/17/2003	08/15/2003
Laboratory Sample I.D.		0307475	0306464	0307476	0308097	0306465	0307477
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	ND@10 R	ND@10	ND@10 R	ND@10 R	ND@10
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	3	1 J	1	1	1	6
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-308	EN-309A	EN-309A	EN-309A	EN-309B	EN-309B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/15/2003	07/17/2003	08/15/2003	08/29/2003	07/17/2003	08/15/2003
Laboratory Sample I.D.		0307475	0306464	0307476	0308097	0306465	0307477
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	0.3 J	0.2 J
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	0.9 J	0.9 J	0.8 J	0.4 J	0.8 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-308	EN-309A	EN-309A	EN-309A	EN-309B	EN-309B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/15/2003	07/17/2003	08/15/2003	08/29/2003	07/17/2003	08/15/2003
Laboratory Sample I.D.		0307475	0306464	0307476	0308097	0306465	0307477
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	0.2 J	ND@1	ND@1	ND@1	ND@1	0.3 J
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	11	13	12	5	6
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	0.2 J	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	0.2 J	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	19	6	6	7	7	8
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-309B	EN-309C	EN-309C	EN-309C	EN-311	EN-311
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	07/17/2003	08/15/2003	08/29/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308098	0306463	0307478	0308096	0307069	0307997
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10	ND@10 R	ND@20 R	ND@20 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1,1-TRICHLOROETHANE	ug/l	2	ND@1	1	1	3	2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2

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Sample Location		EN-309B	EN-309C	EN-309C	EN-309C	EN-311	EN-311
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	07/17/2003	08/15/2003	08/29/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308098	0306463	0307478	0308096	0307069	0307997
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@20	ND@20
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	1	0.9 J	0.9 J	ND@2	ND@2
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CHLORODIBROMOMETHANE	ug/l	ND@1	0.9 J	ND@1	ND@1	ND@2	ND@2
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CHLOROFORM	ug/l	0.2 J	2	1	1	ND@2	ND@2
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
CIS-1,2-DICHLOROETHENE	ug/l	0.5 J	0.2 J	0.5 J	0.5 J	3	2
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2

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Sample Location		EN-309B	EN-309C	EN-309C	EN-309C	EN-311	EN-311
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		08/29/2003	07/17/2003	08/15/2003	08/29/2003	08/07/2003	08/26/2003
Laboratory Sample I.D.		0308098	0306463	0307478	0308096	0307069	0307997
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	0.1 J	ND@1	ND@1	ND@2	ND@2
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	0.4 J	ND@2	ND@2	ND@4	ND@4
METHYL T-BUTYL ETHER	ug/l	ND@1	0.3 J	0.4 J	0.2 J	ND@2	ND@2
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	6	2	5	4	ND@2	ND@2
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@20	ND@20
TOLUENE	ug/l	ND@1	1	0.3 J	ND@1	ND@2	ND@2
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@4	ND@4
TRICHLOROETHENE	ug/l	9	0.9 J	2	2	71	56
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@2	ND@2

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Sample Location		EN-311	EN-400A	EN-400A	EN-400A	EN-400B	EN-400B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/22/2003	10/13/2003	10/29/2003	09/24/2003	10/13/2003
Laboratory Sample I.D.		0308687	0308824	0309474	0310241	0308949	0309475
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@20 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	0.2 J	0.6 J

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Sample Location		EN-311	EN-400A	EN-400A	EN-400A	EN-400B	EN-400B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/22/2003	10/13/2003	10/29/2003	09/24/2003	10/13/2003
Laboratory Sample I.D.		0308687	0308824	0309474	0310241	0308949	0309475
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@20	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	2	ND@1
BROMOFORM	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	1	ND@1
CHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@2	ND@1	ND@1	ND@1	2	0.3 J
CHLOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	2	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-311	EN-400A	EN-400A	EN-400A	EN-400B	EN-400B
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/22/2003	10/13/2003	10/29/2003	09/24/2003	10/13/2003
Laboratory Sample I.D.		0308687	0308824	0309474	0310241	0308949	0309475
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@20	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	59	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-400B	EN-400B	EN-401	EN-401	EN-401	EN-401
Sample Description		REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE
Sample Date		10/13/2003	10/28/2003	09/14/2003	09/30/2003	10/12/2003	10/12/2003
Laboratory Sample I.D.		229444-18	0310227	0308677	0309120	0309459	229444-5
Sample Comment Codes		X					X
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10 R	ND@100 R	ND@100 R	ND@100 R	NA
METHYL BUTYL KETONE	ug/l	NA	ND@1	ND@10	ND@10	ND@10	NA
METHYL ETHYL KETONE	ug/l	NA	ND@2	ND@20	ND@20	ND@20	NA
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1	ND@10	ND@10	ND@10	NA
N-BUTYL ACETATE	ug/l	NA	ND@2	ND@20	ND@20	ND@20	NA
VINYL ACETATE	ug/l	NA	ND@2	ND@20	ND@20	ND@20	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
HEXACHLOROBUTADIENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
NAPHTHALENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
N-PROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
STYRENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	0.5 J	8 J	7 J	7 J	7.6
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	ND@1	ND@10	ND@10	ND@10	NA
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.79 J	0.8 J	ND@10	ND@10	ND@10	0.51 J

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Sample Location		EN-400B	EN-400B	EN-401	EN-401	EN-401	EN-401
Sample Description		REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE
Sample Date		10/13/2003	10/28/2003	09/14/2003	09/30/2003	10/12/2003	10/12/2003
Laboratory Sample I.D.		229444-18	0310227	0308677	0309120	0309459	229444-5
Sample Comment Codes		X					X
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	0.73 J
1,1-DICHLOROPROPENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	ND@1	ND@10	ND@10	ND@10	NA
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
1,3-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
ACETONE	ug/l	NA	ND@10	ND@100	ND@100	ND@100	NA
BENZENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	0.4 J	ND@10	ND@10	ND@10	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@2	ND@20	ND@20	ND@20	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
CARBON DISULFIDE	ug/l	NA	ND@1	ND@10	ND@10	ND@10	NA
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
CHLOROFORM	ug/l	ND@1.0	0.4 J	ND@10	ND@10	ND@10	0.75 J
CHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	6 J	5 J	6 J	6.6
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@20	ND@20	ND@20	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0

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Sample Location		EN-400B	EN-400B	EN-401	EN-401	EN-401	EN-401
Sample Description		REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE
Sample Date		10/13/2003	10/28/2003	09/14/2003	09/30/2003	10/12/2003	10/12/2003
Laboratory Sample I.D.		229444-18	0310227	0308677	0309120	0309459	229444-5
Sample Comment Codes		X					X
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
ISOPROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@2	ND@20	ND@20	ND@20	ND@1.0
METHYL T-BUTYL ETHER	ug/l	NA	ND@1	ND@10	ND@10	ND@10	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
N-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
SEC-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
TETRAHYDROFURAN	ug/l	NA	ND@10	ND@100	ND@100	ND@100	NA
TOLUENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@20	ND@20	ND@20	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	ND@1	230	220	250	220 D
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1	ND@10	ND@10	ND@10	ND@1.0

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Sample Location		EN-402	EN-402	EN-402	EN-402	EN-403	EN-403
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/25/2003	10/12/2003	10/12/2003	10/29/2003	08/26/2003	09/14/2003
Laboratory Sample I.D.		0308967	0309460	229444-6	0310246	0308009	0308678
Sample Comment Codes				X			
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@20 R	NA	ND@20 R	ND@20 R	ND@20 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@2	NA	ND@2	ND@2	ND@2
METHYL ETHYL KETONE	ug/l	ND@2	ND@4	NA	ND@4	ND@4	ND@4
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@2	NA	ND@2	ND@2	ND@2
N-BUTYL ACETATE	ug/l	ND@2	ND@4	NA	ND@4	ND@4	ND@4
VINYL ACETATE	ug/l	ND@2	ND@4	NA	ND@4	ND@4	ND@4
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
HEXACHLOROBUTADIENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
STYRENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
1,1,1-TRICHLOROETHANE	ug/l	1	2 J	1.8	1 J	44	63
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@2	NA	ND@2	ND@2	ND@2
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
1,1-DICHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2

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Sample Location		EN-402	EN-402	EN-402	EN-402	EN-403	EN-403
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/25/2003	10/12/2003	10/12/2003	10/29/2003	08/26/2003	09/14/2003
Laboratory Sample I.D.		0308967	0309460	229444-6	0310246	0308009	0308678
Sample Comment Codes				X			
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	0.9 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@2	NA	ND@2	ND@2	ND@2
1,2-DICHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	11	25
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
1,3-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
ACETONE	ug/l	ND@10	ND@20	NA	ND@20	ND@20	ND@20
BENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
BROMOBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
BROMOFORM	ug/l	ND@2	ND@4	ND@1.0	ND@4	ND@4	ND@4
BROMOMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
CARBON DISULFIDE	ug/l	ND@1	ND@2	NA	ND@2	ND@2	ND@2
CARBON TETRACHLORIDE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
CHLOROBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
CHLOROETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
CHLOROFORM	ug/l	0.2 J	ND@2	ND@1.0	ND@2	ND@2	ND@2
CHLOROMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
CIS-1,2-DICHLOROETHENE	ug/l	2	2	2.7	2	ND@2	0.3 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@4	ND@1.0	ND@4	ND@4	ND@4
DIBROMOMETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2

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Sample Location		EN-402	EN-402	EN-402	EN-402	EN-403	EN-403
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/25/2003	10/12/2003	10/12/2003	10/29/2003	08/26/2003	09/14/2003
Laboratory Sample I.D.		0308967	0309460	229444-6	0310246	0308009	0308678
Sample Comment Codes				X			
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
ISOPROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@4	ND@1.0	ND@4	ND@4	ND@4
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@2	NA	ND@2	ND@2	ND@2
METHYLENE CHLORIDE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
N-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
SEC-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
TETRAHYDROFURAN	ug/l	ND@10	ND@20	NA	ND@20	ND@20	ND@20
TOLUENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@4	ND@1.0	ND@4	ND@4	ND@4
TRICHLOROETHENE	ug/l	31	40	39	39	6	9
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2
VINYL CHLORIDE	ug/l	ND@1	ND@2	ND@1.0	ND@2	ND@2	ND@2

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Sample Location		EN-403	EN-404	EN-404	EN-404	EN-404	EN-406
Sample Description		GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		09/30/2003	09/25/2003	10/12/2003	10/12/2003	10/29/2003	09/14/2003
Laboratory Sample I.D.		0309119	0308968	0309458	229444-4	0310245	0308680
Sample Comment Codes					X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@20 R	ND@10 R	ND@10 R	NA	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@2	ND@1	ND@1	NA	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@4	ND@2	ND@2	NA	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@2	ND@1	ND@1	NA	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@4	ND@2	ND@2	NA	ND@2	ND@2
VINYL ACETATE	ug/l	ND@4	ND@2	ND@2	NA	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	56	0.8 J	1 J	1.1	0.9 J	0.5 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1	ND@1	NA	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1

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Sample Location		EN-403	EN-404	EN-404	EN-404	EN-404	EN-406
Sample Description		GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		09/30/2003	09/25/2003	10/12/2003	10/12/2003	10/29/2003	09/14/2003
Laboratory Sample I.D.		0309119	0308968	0309458	229444-4	0310245	0308680
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2	ND@1	ND@1	NA	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	21	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@20	ND@10	ND@10	NA	ND@10	ND@10
BENZENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
BROMOFORM	ug/l	ND@4	ND@2	ND@2	ND@1.0	ND@2	ND@2
BROMOMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@2	ND@1	ND@1	NA	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROFORM	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@2	ND@2	ND@1.0	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1

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Sample Location		EN-403	EN-404	EN-404	EN-404	EN-404	EN-406
Sample Description		GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		09/30/2003	09/25/2003	10/12/2003	10/12/2003	10/29/2003	09/14/2003
Laboratory Sample I.D.		0309119	0308968	0309458	229444-4	0310245	0308680
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@4	ND@2	ND@2	ND@1.0	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@2	ND@1	0.3 J	NA	0.3 J	ND@1
METHYLENE CHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@20	ND@10	ND@10	NA	ND@10	ND@10
TOLUENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@4	ND@2	ND@2	ND@1.0	ND@2	ND@2
TRICHLOROETHENE	ug/l	7	1	1	1.4	1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@2	ND@1	ND@1	ND@1.0	ND@1	ND@1

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Sample Location		EN-406	EN-406	EN-406	EN-407A	EN-407A	EN-407A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/30/2003	10/12/2003	10/12/2003	09/14/2003	09/30/2003	10/12/2003
Laboratory Sample I.D.		0309121	0309462	229444-8	0308681	0309123	0309463
Sample Comment Codes				X			
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	NA	ND@20 R	ND@20 R	ND@20 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	NA	ND@2	ND@2	ND@2
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	NA	ND@4	ND@4	ND@4
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	NA	ND@2	ND@2	ND@2
N-BUTYL ACETATE	ug/l	ND@2	ND@2	NA	ND@4	ND@4	ND@4
VINYL ACETATE	ug/l	ND@2	ND@2	NA	ND@4	ND@4	ND@4
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
HEXACHLOROBUTADIENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	0.55 J	ND@2	ND@2	ND@2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	NA	40	77	70
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	1 J	1 J	1 J

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Sample Location		EN-406	EN-406	EN-406	EN-407A	EN-407A	EN-407A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/30/2003	10/12/2003	10/12/2003	09/14/2003	09/30/2003	10/12/2003
Laboratory Sample I.D.		0309121	0309462	229444-8	0308681	0309123	0309463
Sample Comment Codes				X			
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
1,1-DICHLOROPROPENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	NA	4	6	5
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
1,3-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	NA	ND@20	ND@20	ND@20
BENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
BROMOBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
BROMOFORM	ug/l	ND@2	ND@2	ND@1.0	ND@4	ND@4	ND@4
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
CARBON DISULFIDE	ug/l	ND@1	ND@1	NA	ND@2	ND@2	ND@2
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
CHLOROFORM	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	2 J	2 J	2 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@1.0	ND@4	ND@4	ND@4
DIBROMOMETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2

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Sample Location		EN-406	EN-406	EN-406	EN-407A	EN-407A	EN-407A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/30/2003	10/12/2003	10/12/2003	09/14/2003	09/30/2003	10/12/2003
Laboratory Sample I.D.		0309121	0309462	229444-8	0308681	0309123	0309463
Sample Comment Codes				X			
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
ISOPROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@1.0	ND@4	ND@4	ND@4
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	NA	ND@2	ND@2	ND@2
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
N-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
SEC-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
TETRAHYDROFURAN	ug/l	ND@10	ND@10	NA	ND@20	ND@20	ND@20
TOLUENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@1.0	ND@4	ND@4	ND@4
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	11	14	15
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@2	ND@2	ND@2

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Sample Location		EN-407A	EN-407B	EN-407B	EN-407B	EN-407B	EN-408
Sample Description		REPLICATE	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		10/12/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003	09/22/2003
Laboratory Sample I.D.		229444-9	0308948	0309464	229444-13	0310228	0308826
Sample Comment Codes		X			X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@100 R	ND@100 R	NA	ND@200 R	ND@10 R
METHYL BUTYL KETONE	ug/l	NA	ND@10	ND@10	NA	ND@20	ND@1
METHYL ETHYL KETONE	ug/l	NA	ND@20	ND@20	NA	ND@40	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	ND@10	ND@10	NA	ND@20	ND@1
N-BUTYL ACETATE	ug/l	NA	ND@20	ND@20	NA	ND@40	ND@2
VINYL ACETATE	ug/l	NA	ND@20	ND@20	NA	ND@40	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
HEXACHLOROBUTADIENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	220	460	NA	440	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,1-DICHLOROETHANE	ug/l	1.5	ND@10	ND@10	2.2	ND@20	ND@1

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Sample Location		EN-407A	EN-407B	EN-407B	EN-407B	EN-407B	EN-408
Sample Description		REPLICATE	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		10/12/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003	09/22/2003
Laboratory Sample I.D.		229444-9	0308948	0309464	229444-13	0310228	0308826
Sample Comment Codes		X			X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,1-DICHLOROPROPENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	12	19	NA	15 J	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
1,3-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	NA	ND@100	ND@100	NA	ND@200	ND@10
BENZENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
BROMOBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
BROMOFORM	ug/l	ND@1.0	ND@20	ND@20	ND@1.0	ND@40	ND@2
BROMOMETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
CARBON DISULFIDE	ug/l	NA	ND@10	ND@10	NA	ND@20	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
CHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
CHLOROETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
CHLOROFORM	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
CHLOROMETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	2.3	ND@10	3 J	3.4	ND@20	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@20	ND@20	ND@1.0	ND@40	ND@2
DIBROMOMETHANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1

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Sample Location		EN-407A	EN-407B	EN-407B	EN-407B	EN-407B	EN-408
Sample Description		REPLICATE	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		10/12/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003	09/22/2003
Laboratory Sample I.D.		229444-9	0308948	0309464	229444-13	0310228	0308826
Sample Comment Codes		X			X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
ISOPROPYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@1.0	ND@20	ND@20	ND@1.0	ND@40	ND@2
METHYL T-BUTYL ETHER	ug/l	NA	ND@10	ND@10	NA	ND@20	ND@1
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
N-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
SEC-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
TETRAHYDROFURAN	ug/l	NA	ND@100	ND@100	NA	ND@200	ND@10
TOLUENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@20	ND@20	ND@1.0	ND@40	ND@2
TRICHLOROETHENE	ug/l	15	14	24	23	21	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1
VINYL CHLORIDE	ug/l	ND@1.0	ND@10	ND@10	ND@1.0	ND@20	ND@1

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Sample Location		EN-408	EN-408	EN-408	EN-409	EN-409	EN-409
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/12/2003	10/12/2003	10/29/2003	09/14/2003	09/30/2003	10/14/2003
Laboratory Sample I.D.		0309467	229444-14	0310243	0308682	0309124	0309609
Sample Comment Codes			X				
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	NA	ND@10 R	ND@10 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	NA	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	NA	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	NA	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	0.2 J

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Sample Location		EN-408	EN-408	EN-408	EN-409	EN-409	EN-409
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/12/2003	10/12/2003	10/29/2003	09/14/2003	09/30/2003	10/14/2003
Laboratory Sample I.D.		0309467	229444-14	0310243	0308682	0309124	0309609
Sample Comment Codes			X				
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	0.5 J	0.6 J
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
ACETONE	ug/l	ND@10	NA	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@1.0	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-408	EN-408	EN-408	EN-409	EN-409	EN-409
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/12/2003	10/12/2003	10/29/2003	09/14/2003	09/30/2003	10/14/2003
Laboratory Sample I.D.		0309467	229444-14	0310243	0308682	0309124	0309609
Sample Comment Codes			X				
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@1.0	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	1.6	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	NA	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	0.3 J	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-409	EN-410	EN-410	EN-410	EN-410	EN-411
Sample Description		REPLICATE	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		10/14/2003	09/24/2003	10/15/2003	10/15/2003	10/29/2003	09/24/2003
Laboratory Sample I.D.		229503-4	0308946	0309614	229503-6	0310242	0308947
Sample Comment Codes		X			X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10 R	ND@10 R	NA	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	NA	ND@1	ND@1	NA	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	NA	ND@2	ND@2	NA	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1	ND@1	NA	ND@1	ND@1
N-BUTYL ACETATE	ug/l	NA	ND@2	ND@2	NA	ND@2	ND@2
VINYL ACETATE	ug/l	NA	ND@2	ND@2	NA	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	0.8 J	0.5 J	0.75 J	0.7 J	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	ND@1	ND@1	NA	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1.0	4	5	4.9	5	ND@1

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Sample Location		EN-409	EN-410	EN-410	EN-410	EN-410	EN-411
Sample Description		REPLICATE	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		10/14/2003	09/24/2003	10/15/2003	10/15/2003	10/29/2003	09/24/2003
Laboratory Sample I.D.		229503-4	0308946	0309614	229503-6	0310242	0308947
Sample Comment Codes		X			X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	2	2	NA	2	0.4 J
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	NA	ND@10	ND@10	NA	ND@10	ND@10
BENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
BROMOBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
BROMOFORM	ug/l	ND@1.0	ND@2	ND@2	ND@1.0	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
CARBON DISULFIDE	ug/l	NA	ND@1	ND@1	NA	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1.0	3	4	3.8	2	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1.0	1	2	2.3	1 J	ND@1
CHLOROFORM	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	6	5	5.4	8	2
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@2	ND@1.0	ND@2	ND@2
DIBROMOMETHANE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1

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Sample Location		EN-409	EN-410	EN-410	EN-410	EN-410	EN-411
Sample Description		REPLICATE	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		10/14/2003	09/24/2003	10/15/2003	10/15/2003	10/29/2003	09/24/2003
Laboratory Sample I.D.		229503-4	0308946	0309614	229503-6	0310242	0308947
Sample Comment Codes		X			X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@1.0	0.4 J	ND@2	ND@1.0	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	NA	ND@1	ND@1	NA	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1.0	1	0.8 J	1.1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
TETRAHYDROFURAN	ug/l	NA	ND@10	ND@10	NA	ND@10	ND@10
TOLUENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@2	ND@1.0	ND@2	ND@2
TRICHLOROETHENE	ug/l	0.61 J	14	10	9.1	16	12
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@1.0	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1.0	ND@1	0.7 J	1.0	0.9 J	ND@1

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Sample Location		EN-411	EN-411	EN-411	EN-412A	EN-412A	EN-412A
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	REPLICATE
Sample Date		10/13/2003	10/13/2003	10/28/2003	09/22/2003	10/14/2003	10/14/2003
Laboratory Sample I.D.		0309476	229444-19	0310237	0308827	0309605	229503-2
Sample Comment Codes			X				X
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	NA	ND@10 R	ND@100 R	ND@100 R	NA
METHYL BUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@10	ND@10	NA
METHYL ETHYL KETONE	ug/l	ND@2	NA	ND@2	ND@20	ND@20	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@10	ND@10	NA
N-BUTYL ACETATE	ug/l	ND@2	NA	ND@2	ND@20	ND@20	NA
VINYL ACETATE	ug/l	ND@2	NA	ND@2	ND@20	ND@20	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
NAPHTHALENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
STYRENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@10	ND@10	NA
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	0.68 J

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Sample Location		EN-411	EN-411	EN-411	EN-412A	EN-412A	EN-412A
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	REPLICATE
Sample Date		10/13/2003	10/13/2003	10/28/2003	09/22/2003	10/14/2003	10/14/2003
Laboratory Sample I.D.		0309476	229444-19	0310237	0308827	0309605	229503-2
Sample Comment Codes			X				X
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.4 J	NA	ND@1	ND@10	ND@10	NA
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
ACETONE	ug/l	ND@10	NA	ND@10	ND@100	ND@100	NA
BENZENE	ug/l	ND@1	ND@1.0	ND@1	290	330	260 D
BROMOBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
BROMOFORM	ug/l	ND@2	ND@1.0	ND@2	ND@20	ND@20	ND@1.0
BROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
CARBON DISULFIDE	ug/l	ND@1	NA	ND@1	ND@10	ND@10	NA
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
CHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
CHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
CHLOROFORM	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
CHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	2	2.4	1	ND@10	ND@10	1.8
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@20	ND@20	ND@1.0
DIBROMOMETHANE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0

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Sample Location		EN-411	EN-411	EN-411	EN-412A	EN-412A	EN-412A
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	REPLICATE
Sample Date		10/13/2003	10/13/2003	10/28/2003	09/22/2003	10/14/2003	10/14/2003
Laboratory Sample I.D.		0309476	229444-19	0310237	0308827	0309605	229503-2
Sample Comment Codes			X				X
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
M,P-XYLENE	ug/l	ND@2	ND@1.0	ND@2	ND@20	ND@20	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1	NA	ND@1	220	160	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
O-XYLENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
TETRAHYDROFURAN	ug/l	ND@10	NA	ND@10	ND@100	ND@100	NA
TOLUENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@20	ND@20	ND@1.0
TRICHLOROETHENE	ug/l	11	11	10	ND@10	ND@10	1.3
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0
VINYL CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@10	ND@10	ND@1.0

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Sample Location		EN-412A	EN-412B	EN-412B	EN-412B	EN-412B	EN-413
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/28/2003	09/14/2003	09/30/2003	10/14/2003	10/14/2003	09/25/2003
Laboratory Sample I.D.		0310233	0308679	0309118	0309606	229503-3	0308970
Sample Comment Codes						X	
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@100 R	ND@10 R	ND@10 R	ND@10 R	NA	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@10	ND@1	ND@1	ND@1	NA	ND@1
METHYL ETHYL KETONE	ug/l	ND@20	ND@2	ND@2	ND@2	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@10	ND@1	ND@1	ND@1	NA	ND@1
N-BUTYL ACETATE	ug/l	ND@20	ND@2	ND@2	ND@2	NA	ND@2
VINYL ACETATE	ug/l	ND@20	ND@2	ND@2	ND@2	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
STYRENE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	2
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	NA	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1-DICHLOROETHANE	ug/l	ND@10	0.4 J	0.5 J	0.5 J	0.50 J	ND@1

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Sample Location		EN-412A	EN-412B	EN-412B	EN-412B	EN-412B	EN-413
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/28/2003	09/14/2003	09/30/2003	10/14/2003	10/14/2003	09/25/2003
Laboratory Sample I.D.		0310233	0308679	0309118	0309606	229503-3	0308970
Sample Comment Codes						X	
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@10	2	1	0.4 J	ND@1.0	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	NA	ND@1
1,2-DICHLOROETHANE	ug/l	ND@10	0.2 J	ND@1	ND@1	ND@1.0	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@100	ND@10	ND@10	ND@10	NA	ND@10
BENZENE	ug/l	180	28	6	3	3.1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
BROMOFORM	ug/l	ND@20	ND@2	ND@2	ND@2	ND@1.0	ND@2
BROMOMETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
CARBON DISULFIDE	ug/l	ND@10	ND@1	ND@1	ND@1	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROBENZENE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROETHANE	ug/l	ND@10	9	4	4	7.2	ND@1
CHLOROFORM	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROMETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@10	0.3 J	0.3 J	0.9 J	0.79 J	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@2	ND@2	ND@2	ND@1.0	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1

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Sample Location		EN-412A	EN-412B	EN-412B	EN-412B	EN-412B	EN-413
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/28/2003	09/14/2003	09/30/2003	10/14/2003	10/14/2003	09/25/2003
Laboratory Sample I.D.		0310233	0308679	0309118	0309606	229503-3	0308970
Sample Comment Codes						X	
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@10	ND@1	ND@1	0.9 J	ND@1.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@20	1 J	0.8 J	ND@2	2.4	ND@2
METHYL T-BUTYL ETHER	ug/l	130	18	10	10	NA	ND@1
METHYLENE CHLORIDE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@10	0.6 J	0.4 J	0.5 J	0.90 J	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
TETRAHYDROFURAN	ug/l	ND@100	ND@10	ND@10	ND@10	NA	ND@10
TOLUENE	ug/l	ND@10	0.9 J	0.7 J	0.7 J	1.1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@2	ND@2	ND@2	ND@1.0	ND@2
TRICHLOROETHENE	ug/l	ND@10	ND@1	ND@1	ND@1	0.73 J	12
TRICHLOROFLUOROMETHANE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1
VINYL CHLORIDE	ug/l	ND@10	ND@1	ND@1	ND@1	ND@1.0	ND@1

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Sample Location		EN-413	EN-413	EN-414	EN-414	EN-414	EN-414
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/12/2003	10/28/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003
Laboratory Sample I.D.		0309457	0310236	0308942	0309456	229444-3	0310230
Sample Comment Codes						X	
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	NA	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	NA	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	2	2	ND@1	ND@1	ND@1.0	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	0.5 J	0.5 J	ND@1.0	0.4 J

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Sample Location		EN-413	EN-413	EN-414	EN-414	EN-414	EN-414
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/12/2003	10/28/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003
Laboratory Sample I.D.		0309457	0310236	0308942	0309456	229444-3	0310230
Sample Comment Codes						X	
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	NA	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@1.0	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	0.5 J	0.6 J	0.86 J	0.4 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@1.0	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1

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Sample Location		EN-413	EN-413	EN-414	EN-414	EN-414	EN-414
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/12/2003	10/28/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003
Laboratory Sample I.D.		0309457	0310236	0308942	0309456	229444-3	0310230
Sample Comment Codes						X	
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@1.0	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	NA	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@1.0	ND@2
TRICHLOROETHENE	ug/l	15	14	3	3	3.6	3
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1

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Sample Location		EN-415	EN-415	EN-415	EN-415	EN-416A	EN-416A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/24/2003	10/12/2003	10/12/2003	10/28/2003	09/22/2003	10/12/2003
Laboratory Sample I.D.		0308941	0309455	229444-2	0310231	0308825	0309465
Sample Comment Codes				X			
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	NA	ND@10 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	NA	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	NA	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	NA	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	NA	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	NA	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	NA	ND@1	0.5 J	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	0.3 J	0.4 J	ND@1.0	0.4 J	ND@1	ND@1

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Sample Location		EN-415	EN-415	EN-415	EN-415	EN-416A	EN-416A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/24/2003	10/12/2003	10/12/2003	10/28/2003	09/22/2003	10/12/2003
Laboratory Sample I.D.		0308941	0309455	229444-2	0310231	0308825	0309465
Sample Comment Codes				X			
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	NA	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	NA	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	0.7 J	0.8 J
BROMOFORM	ug/l	ND@2	ND@2	ND@1.0	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	NA	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1.0	ND@1	1	1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	0.7 J	0.9 J	1.3	0.8 J	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@1.0	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	ND@1.0	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1

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Sample Location		EN-415	EN-415	EN-415	EN-415	EN-416A	EN-416A
Sample Description		GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR
Sample Date		09/24/2003	10/12/2003	10/12/2003	10/28/2003	09/22/2003	10/12/2003
Laboratory Sample I.D.		0308941	0309455	229444-2	0310231	0308825	0309465
Sample Comment Codes				X			
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@1.0	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	NA	ND@1	0.5 J	0.4 J
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	NA	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@1.0	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	3	4	3.4	3	0.3 J	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@1	ND@1	ND@1

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Sample Location		EN-416A	EN-416A	EN-416B	EN-416B	EN-416B	EN-416B
Sample Description		REPLICATE	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/12/2003	10/29/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003
Laboratory Sample I.D.		229444-11	0310244	0308951	0309466	229444-12	0310229
Sample Comment Codes		X				X	
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	NA	ND@10 R	ND@10 R	ND@100 R	NA	ND@100 R
METHYL BUTYL KETONE	ug/l	NA	ND@1	ND@1	ND@10	NA	ND@10
METHYL ETHYL KETONE	ug/l	NA	ND@2	ND@2	ND@20	NA	ND@20
METHYL ISOBUTYL KETONE	ug/l	NA	ND@1	ND@1	ND@10	NA	ND@10
N-BUTYL ACETATE	ug/l	NA	ND@2	ND@2	ND@20	NA	ND@20
VINYL ACETATE	ug/l	NA	ND@2	ND@2	ND@20	NA	ND@20
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
HEXACHLOROBUTADIENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
STYRENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	ND@1	14	140	NA	65
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10

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Sample Location		EN-416A	EN-416A	EN-416B	EN-416B	EN-416B	EN-416B
Sample Description		REPLICATE	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/12/2003	10/29/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003
Laboratory Sample I.D.		229444-11	0310244	0308951	0309466	229444-12	0310229
Sample Comment Codes		X				X	
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,1-DICHLOROPROPENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	NA	ND@1	0.8 J	ND@10	NA	ND@10
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
1,3-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
ACETONE	ug/l	NA	ND@10	ND@10	ND@100	NA	ND@100
BENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
BROMOBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	0.86 J	0.5 J	ND@1	ND@10	ND@1.0	ND@10
BROMOFORM	ug/l	ND@1.0	ND@2	ND@2	ND@20	ND@1.0	ND@20
BROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
CARBON DISULFIDE	ug/l	NA	ND@1	ND@1	ND@10	NA	ND@10
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
CHLOROBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
CHLOROETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
CHLOROFORM	ug/l	1.5	0.8 J	2	ND@10	ND@1.0	ND@10
CHLOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	0.4 J	ND@10	2.1	ND@10
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@2	ND@20	ND@1.0	ND@20
DIBROMOMETHANE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10

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Sample Location		EN-416A	EN-416A	EN-416B	EN-416B	EN-416B	EN-416B
Sample Description		REPLICATE	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/12/2003	10/29/2003	09/24/2003	10/12/2003	10/12/2003	10/28/2003
Laboratory Sample I.D.		229444-11	0310244	0308951	0309466	229444-12	0310229
Sample Comment Codes		X				X	
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
ISOPROPYLBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@1.0	ND@2	ND@2	ND@20	ND@1.0	ND@20
METHYL T-BUTYL ETHER	ug/l	NA	ND@1	0.3 J	ND@10	NA	ND@10
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
N-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
SEC-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	ND@1.0	NA	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
TETRAHYDROFURAN	ug/l	NA	ND@10	ND@10	ND@100	NA	ND@100
TOLUENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@2	ND@2	ND@20	ND@1.0	ND@20
TRICHLOROETHENE	ug/l	0.52 J	ND@1	5	24	24	17
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10
VINYL CHLORIDE	ug/l	ND@1.0	ND@1	ND@1	ND@10	ND@1.0	ND@10

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Sample Location		EN-417A	EN-417A	EN-417A	EN-417A	EN-417B	EN-417B
Sample Description		GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/30/2003	10/13/2003	10/13/2003	09/24/2003	10/13/2003
Laboratory Sample I.D.		0308696	0309122	0309471	229444-15	0308950	0309472
Sample Comment Codes					X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	NA	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	NA	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	NA	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	NA	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.7 J	0.8 J	1 J	1.1	ND@1	0.7 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	0.3 J	ND@1

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Sample Location		EN-417A	EN-417A	EN-417A	EN-417A	EN-417B	EN-417B
Sample Description		GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/30/2003	10/13/2003	10/13/2003	09/24/2003	10/13/2003
Laboratory Sample I.D.		0308696	0309122	0309471	229444-15	0308950	0309472
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	NA	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@1.0	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@1.0	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1

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Sample Location		EN-417A	EN-417A	EN-417A	EN-417A	EN-417B	EN-417B
Sample Description		GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR	GW CHAR
Sample Date		09/15/2003	09/30/2003	10/13/2003	10/13/2003	09/24/2003	10/13/2003
Laboratory Sample I.D.		0308696	0309122	0309471	229444-15	0308950	0309472
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@1.0	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	NA	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@1.0	ND@2	ND@2
TRICHLOROETHENE	ug/l	10	13	16	15	3	10
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1

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Sample Location		EN-417B	EN-417C	EN-417C	EN-417C	EN-417C	EN-418
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/28/2003	09/15/2003	09/30/2003	10/13/2003	10/13/2003	09/25/2003
Laboratory Sample I.D.		0310232	0308695	0309117	0309473	229444-17	0308969
Sample Comment Codes						X	
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	NA	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	NA	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	NA	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	NA	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.6 J	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1

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Sample Location		EN-417B	EN-417C	EN-417C	EN-417C	EN-417C	EN-418
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/28/2003	09/15/2003	09/30/2003	10/13/2003	10/13/2003	09/25/2003
Laboratory Sample I.D.		0310232	0308695	0309117	0309473	229444-17	0308969
Sample Comment Codes						X	
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	NA	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@1.0	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@1.0	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1

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Sample Location		EN-417B	EN-417C	EN-417C	EN-417C	EN-417C	EN-418
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	REPLICATE	GW CHAR
Sample Date		10/28/2003	09/15/2003	09/30/2003	10/13/2003	10/13/2003	09/25/2003
Laboratory Sample I.D.		0310232	0308695	0309117	0309473	229444-17	0308969
Sample Comment Codes						X	
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@1.0	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	NA	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	NA	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@1.0	ND@2
TRICHLOROETHENE	ug/l	9	ND@1	ND@1	ND@1	ND@1.0	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1.0	ND@1

Supplemental Groundwater Assessment
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Sample Location		EN-418	EN-418	EN-418	EN-419	EN-419	EN-419
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/12/2003	10/12/2003	10/28/2003	10/19/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309461	229444-7	0310235	0309787	0310323	0311025
Sample Comment Codes			X				X
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	NA	ND@10 R	ND@500 R	ND@500	ND@1000
METHYL BUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@50	ND@50	ND@100
METHYL ETHYL KETONE	ug/l	ND@2	NA	ND@2	ND@100	ND@100	ND@200
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@50	ND@50	ND@100
N-BUTYL ACETATE	ug/l	ND@2	NA	ND@2	ND@100	ND@100	ND@200
VINYL ACETATE	ug/l	ND@2	NA	ND@2	ND@100	ND@100	ND@200
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	1300	1600	2300
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@50	40 J	ND@100
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	860	1100	970

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Sample Location		EN-418	EN-418	EN-418	EN-419	EN-419	EN-419
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/12/2003	10/12/2003	10/28/2003	10/19/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309461	229444-7	0310235	0309787	0310323	0311025
Sample Comment Codes			X				X
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	170	200	220
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@50	ND@50	ND@100
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	26 J	30 J	ND@100
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
ACETONE	ug/l	ND@10	NA	ND@10	ND@500	ND@500	ND@1000
BENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
BROMOBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
BROMOFORM	ug/l	ND@2	ND@1.0	ND@2	ND@100	ND@100	ND@200
BROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
CARBON DISULFIDE	ug/l	ND@1	NA	ND@1	ND@50	ND@50	ND@100
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
CHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
CHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
CHLOROFORM	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
CHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	120	180	260
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@100	ND@100	ND@200
DIBROMOMETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100

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Sample Location		EN-418	EN-418	EN-418	EN-419	EN-419	EN-419
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/12/2003	10/12/2003	10/28/2003	10/19/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309461	229444-7	0310235	0309787	0310323	0311025
Sample Comment Codes			X				X
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@1.0	ND@2	ND@100	ND@100	ND@200
METHYL T-BUTYL ETHER	ug/l	ND@1	NA	ND@1	ND@50	ND@50	ND@100
METHYLENE CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	34 J	37 J	37 J
TETRAHYDROFURAN	ug/l	ND@10	NA	ND@10	ND@500	ND@500	ND@1000
TOLUENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@100	ND@100	ND@200
TRICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	470	570	490
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@50	ND@50	ND@100
VINYL CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@50	17 J	ND@100

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Sample Location		EN-421	EN-421	EN-421	EN-422	EN-422	EN-422
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/19/2003	11/03/2003	11/17/2003	10/19/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309789	0310327	0311020	0309788	0310322	0311024
Sample Comment Codes				X			X
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@5000 R	ND@5000	ND@10000	ND@200 R	ND@500	ND@500
METHYL BUTYL KETONE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
METHYL ETHYL KETONE	ug/l	ND@1000	ND@1000	ND@2000	ND@40	ND@100	ND@100
METHYL ISOBUTYL KETONE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
N-BUTYL ACETATE	ug/l	ND@1000	ND@1000	ND@2000	ND@40	ND@100	ND@100
VINYL ACETATE	ug/l	ND@1000	ND@1000	ND@2000	ND@40	ND@100	ND@100
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,4-DICHLOROBENZENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,1,1-TRICHLOROETHANE	ug/l	190 J	290 J	390 J	26	33 J	30 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,1,2-TRICHLOROETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,1-DICHLOROETHANE	ug/l	310 J	430 J	520 J	54	120	130

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Sample Location		EN-421	EN-421	EN-421	EN-422	EN-422	EN-422
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/19/2003	11/03/2003	11/17/2003	10/19/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309789	0310327	0311020	0309788	0310322	0311024
Sample Comment Codes				X			X
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@500	ND@500	ND@1000	23	46 J	47 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,2-DICHLOROETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,2-DICHLOROPROPANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@5000	ND@5000	ND@10000	ND@200	ND@500	ND@500
BENZENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
BROMOFORM	ug/l	ND@1000	ND@1000	ND@2000	ND@40	ND@100	ND@100
BROMOMETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
CARBON DISULFIDE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
CARBON TETRACHLORIDE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
CHLOROBENZENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
CHLORODIBROMOMETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
CHLOROETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
CHLOROFORM	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
CHLOROMETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
CIS-1,2-DICHLOROETHENE	ug/l	840	1600	2100	430	1000	1100
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1000	ND@1000	ND@2000	ND@40	ND@100	ND@100
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50

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Sample Location		EN-421	EN-421	EN-421	EN-422	EN-422	EN-422
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/19/2003	11/03/2003	11/17/2003	10/19/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309789	0310327	0311020	0309788	0310322	0311024
Sample Comment Codes				X			X
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@1000	ND@1000	ND@2000	ND@40	ND@100	ND@100
METHYL T-BUTYL ETHER	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
METHYLENE CHLORIDE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
TETRAHYDROFURAN	ug/l	ND@5000	ND@5000	ND@10000	ND@200	ND@500	ND@500
TOLUENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
TRANS-1,2-DICHLOROETHENE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1000	ND@1000	ND@2000	ND@40	ND@100	ND@100
TRICHLOROETHENE	ug/l	11000	17000	23000	150	190	160
TRICHLOROFLUOROMETHANE	ug/l	ND@500	ND@500	ND@1000	ND@20	ND@50	ND@50
VINYL CHLORIDE	ug/l	ND@500	ND@500	ND@1000	120	340	580

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Sample Location		EN-426	EN-426	EN-426	EN-427	EN-427	EN-427
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/20/2003	11/03/2003	11/17/2003	10/20/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309794	0310325	0311027	0309793	0310324	0311026
Sample Comment Codes				X			X
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10	ND@10	ND@10 R	ND@10	ND@10
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	0.7 J	0.9 J	0.9 J	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-426	EN-426	EN-426	EN-427	EN-427	EN-427
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/20/2003	11/03/2003	11/17/2003	10/20/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309794	0310325	0311027	0309793	0310324	0311026
Sample Comment Codes				X			X
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	1	1	1	ND@1	0.3 J	0.3 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-426	EN-426	EN-426	EN-427	EN-427	EN-427
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/20/2003	11/03/2003	11/17/2003	10/20/2003	11/03/2003	11/17/2003
Laboratory Sample I.D.		0309794	0310325	0311027	0309793	0310324	0311026
Sample Comment Codes				X			X
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	1	0.3 J	ND@1	0.2 J	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	10	13	13
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	22	24	22	3	4	4
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-D30	EN-D30	EN-D30	EN-D30	EN-D31	EN-D31
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/15/2003	10/15/2003	10/29/2003	11/17/2003	09/14/2003	09/30/2003
Laboratory Sample I.D.		0309613	229503-7	0310247	0311023	0308676	0309116
Sample Comment Codes			X		X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	NA	ND@10 R	ND@10	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	NA	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	NA	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	NA	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	0.4 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1

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Groundwater and QA/QC Analytical Data - New Monitoring Wells
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Sample Location		EN-D30	EN-D30	EN-D30	EN-D30	EN-D31	EN-D31
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/15/2003	10/15/2003	10/29/2003	11/17/2003	09/14/2003	09/30/2003
Laboratory Sample I.D.		0309613	229503-7	0310247	0311023	0308676	0309116
Sample Comment Codes			X		X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
ACETONE	ug/l	ND@10	NA	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@1.0	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	NA	ND@1	0.3 J	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	ND@1.0	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-D30	EN-D30	EN-D30	EN-D30	EN-D31	EN-D31
Sample Description		GW CHAR	REPLICATE	GW CHAR	GW CHAR	GW CHAR	GW CHAR
Sample Date		10/15/2003	10/15/2003	10/29/2003	11/17/2003	09/14/2003	09/30/2003
Laboratory Sample I.D.		0309613	229503-7	0310247	0311023	0308676	0309116
Sample Comment Codes			X		X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@1.0	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	NA	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	1.3	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	NA	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	2	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-D31	EN-D32	EN-D32	EN-D32	EQ RINSE BLK	EQ RINSE BLK
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	WTR LVL IND	BAILER
Sample Date		10/21/2003	10/20/2003	11/03/2003	11/17/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0309798	0309796	0310321	0311021	0305817	0306459
Sample Comment Codes					X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10	ND@10	ND@10	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-D31	EN-D32	EN-D32	EN-D32	EQ RINSE BLK	EQ RINSE BLK
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	WTR LVL IND	BAILER
Sample Date		10/21/2003	10/20/2003	11/03/2003	11/17/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0309798	0309796	0310321	0311021	0305817	0306459
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	0.3 J	0.3 J	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EN-D31	EN-D32	EN-D32	EN-D32	EQ RINSE BLK	EQ RINSE BLK
Sample Description		GW CHAR	GW CHAR	GW CHAR	GW CHAR	WTR LVL IND	BAILER
Sample Date		10/21/2003	10/20/2003	11/03/2003	11/17/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0309798	0309796	0310321	0311021	0305817	0306459
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		BAILER	BAILER	BAILER	BAILER	BAILER	SUBM PUMP
Sample Date		07/22/2003	08/15/2003	08/26/2003	08/29/2003	09/14/2003	09/15/2003
Laboratory Sample I.D.		0306543	0307469	0308008	0308094	0308673	0308684
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10	ND@10 R	33 J	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		BAILER	BAILER	BAILER	BAILER	BAILER	SUBM PUMP
Sample Date		07/22/2003	08/15/2003	08/26/2003	08/29/2003	09/14/2003	09/15/2003
Laboratory Sample I.D.		0306543	0307469	0308008	0308094	0308673	0308684
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		BAILER	BAILER	BAILER	BAILER	BAILER	SUBM PUMP
Sample Date		07/22/2003	08/15/2003	08/26/2003	08/29/2003	09/14/2003	09/15/2003
Laboratory Sample I.D.		0306543	0307469	0308008	0308094	0308673	0308684
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		BAILER	BAILER	WTR LVL IND	BAILER	SUBM PUMP	WTR LVL IND
Sample Date		09/22/2003	09/24/2003	09/30/2003	10/12/2003	10/13/2003	10/14/2003
Laboratory Sample I.D.		0308823	0308945	0309126	0309452	0309469	0309608
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		BAILER	BAILER	WTR LVL IND	BAILER	SUBM PUMP	WTR LVL IND
Sample Date		09/22/2003	09/24/2003	09/30/2003	10/12/2003	10/13/2003	10/14/2003
Laboratory Sample I.D.		0308823	0308945	0309126	0309452	0309469	0309608
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		BAILER	BAILER	WTR LVL IND	BAILER	SUBM PUMP	WTR LVL IND
Sample Date		09/22/2003	09/24/2003	09/30/2003	10/12/2003	10/13/2003	10/14/2003
Laboratory Sample I.D.		0308823	0308945	0309126	0309452	0309469	0309608
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		SUBM PUMP	BAILER	SUBM PUMP	WTR LVL IND	BAILER	BAILER
Sample Date		10/15/2003	10/19/2003	10/20/2003	10/28/2003	10/29/2003	11/03/2003
Laboratory Sample I.D.		0309612	0309785	0309791	0310225	0310239	0310319
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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July 2003 - November 2003

Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		SUBM PUMP	BAILER	SUBM PUMP	WTR LVL IND	BAILER	BAILER
Sample Date		10/15/2003	10/19/2003	10/20/2003	10/28/2003	10/29/2003	11/03/2003
Laboratory Sample I.D.		0309612	0309785	0309791	0310225	0310239	0310319
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK	EQ RINSE BLK
Sample Description		SUBM PUMP	BAILER	SUBM PUMP	WTR LVL IND	BAILER	BAILER
Sample Date		10/15/2003	10/19/2003	10/20/2003	10/28/2003	10/29/2003	11/03/2003
Laboratory Sample I.D.		0309612	0309785	0309791	0310225	0310239	0310319
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		EQ RINSE BLK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		BAILER	EN-307	EN-309B	EN-213A	EN-214A	EN-311
Sample Date		11/17/2003	07/01/2003	07/17/2003	07/22/2003	08/15/2003	08/26/2003
Laboratory Sample I.D.		0311018	0305816	0306460	0306544	0307470	0308007
Sample Comment Codes		X					
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10	ND@10	ND@10 R	ND@10 R	ND@10	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		EQ RINSE BLK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		BAILER	EN-307	EN-309B	EN-213A	EN-214A	EN-311
Sample Date		11/17/2003	07/01/2003	07/17/2003	07/22/2003	08/15/2003	08/26/2003
Laboratory Sample I.D.		0311018	0305816	0306460	0306544	0307470	0308007
Sample Comment Codes		X					
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		EQ RINSE BLK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		BAILER	EN-307	EN-309B	EN-213A	EN-214A	EN-311
Sample Date		11/17/2003	07/01/2003	07/17/2003	07/22/2003	08/15/2003	08/26/2003
Laboratory Sample I.D.		0311018	0305816	0306460	0306544	0307470	0308007
Sample Comment Codes		X					
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		EN-309C	EN-214B	EN-305	EN-400A	EN-407B	EN-409
Sample Date		08/29/2003	09/14/2003	09/15/2003	09/22/2003	09/24/2003	09/30/2003
Laboratory Sample I.D.		0308095	0308674	0308685	0308822	0308944	0309125
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		EN-309C	EN-214B	EN-305	EN-400A	EN-407B	EN-409
Sample Date		08/29/2003	09/14/2003	09/15/2003	09/22/2003	09/24/2003	09/30/2003
Laboratory Sample I.D.		0308095	0308674	0308685	0308822	0308944	0309125
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		EN-309C	EN-214B	EN-305	EN-400A	EN-407B	EN-409
Sample Date		08/29/2003	09/14/2003	09/15/2003	09/22/2003	09/24/2003	09/30/2003
Laboratory Sample I.D.		0308095	0308674	0308685	0308822	0308944	0309125
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Supplemental Groundwater Assessment
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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		EN-301	EN-417A	EN-412A	EN-410	EN-419	EN-427
Sample Date		10/12/2003	10/13/2003	10/14/2003	10/15/2003	10/19/2003	10/20/2003
Laboratory Sample I.D.		0309453	0309470	0309607	0309611	0309786	0309792
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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July 2003 - November 2003

Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		EN-301	EN-417A	EN-412A	EN-410	EN-419	EN-427
Sample Date		10/12/2003	10/13/2003	10/14/2003	10/15/2003	10/19/2003	10/20/2003
Laboratory Sample I.D.		0309453	0309470	0309607	0309611	0309786	0309792
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK
Sample Description		EN-301	EN-417A	EN-412A	EN-410	EN-419	EN-427
Sample Date		10/12/2003	10/13/2003	10/14/2003	10/15/2003	10/19/2003	10/20/2003
Laboratory Sample I.D.		0309453	0309470	0309607	0309611	0309786	0309792
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-400B	EN-404	EN-422	EN-214C	7/1	7/17
Sample Date		10/28/2003	10/29/2003	11/03/2003	11/17/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0310226	0310240	0310320	0311019	0305815	0306458
Sample Comment Codes					X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10	ND@10	ND@10	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Groundwater and QA/QC Analytical Data - New Monitoring Wells
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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-400B	EN-404	EN-422	EN-214C	7/1	7/17
Sample Date		10/28/2003	10/29/2003	11/03/2003	11/17/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0310226	0310240	0310320	0311019	0305815	0306458
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		FIELD BLANK	FIELD BLANK	FIELD BLANK	FIELD BLANK	TRIP BLANK	TRIP BLANK
Sample Description		EN-400B	EN-404	EN-422	EN-214C	7/1	7/17
Sample Date		10/28/2003	10/29/2003	11/03/2003	11/17/2003	07/01/2003	07/17/2003
Laboratory Sample I.D.		0310226	0310240	0310320	0311019	0305815	0306458
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		7/22	8/7	8/15	8/15	8/26	8/29
Sample Date		07/22/2003	08/07/2003	08/15/2003	08/15/2003	08/26/2003	08/29/2003
Laboratory Sample I.D.		0306542	0307079	0307468	227412-1	0307996	0308093
Sample Comment Codes					X		
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10	ND@10	NA	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	NA	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	NA	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	NA	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1

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July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		7/22	8/7	8/15	8/15	8/26	8/29
Sample Date		07/22/2003	08/07/2003	08/15/2003	08/15/2003	08/26/2003	08/29/2003
Laboratory Sample I.D.		0306542	0307079	0307468	227412-1	0307996	0308093
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	NA	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@1.0	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@1.0	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	ND@1.0	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		7/22	8/7	8/15	8/15	8/26	8/29
Sample Date		07/22/2003	08/07/2003	08/15/2003	08/15/2003	08/26/2003	08/29/2003
Laboratory Sample I.D.		0306542	0307079	0307468	227412-1	0307996	0308093
Sample Comment Codes					X		
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@1.0	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	NA	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	ND@1.0	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	NA	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@1.0	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1.0	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		9/14-9/16	9/15-9/16	9/22	9/24-9/25	9/30-10/2	10/12-10/13
Sample Date		09/14/2003	09/15/2003	09/22/2003	09/24/2003	09/30/2003	10/12/2003
Laboratory Sample I.D.		0308672	0308683	0308821	0308943	0309115	229444-1
Sample Comment Codes							X
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R	NA
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	NA
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		9/14-9/16	9/15-9/16	9/22	9/24-9/25	9/30-10/2	10/12-10/13
Sample Date		09/14/2003	09/15/2003	09/22/2003	09/24/2003	09/30/2003	10/12/2003
Laboratory Sample I.D.		0308672	0308683	0308821	0308943	0309115	229444-1
Sample Comment Codes							X
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	NA
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@1.0
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@1.0
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		9/14-9/16	9/15-9/16	9/22	9/24-9/25	9/30-10/2	10/12-10/13
Sample Date		09/14/2003	09/15/2003	09/22/2003	09/24/2003	09/30/2003	10/12/2003
Laboratory Sample I.D.		0308672	0308683	0308821	0308943	0309115	229444-1
Sample Comment Codes							X
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	NA
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@1.0
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		10/12-10/13	10/13	10/13	10/14-10/15	10/14-10/15	10/15
Sample Date		10/12/2003	10/13/2003	10/13/2003	10/14/2003	10/14/2003	10/15/2003
Laboratory Sample I.D.		0309451	229444-16	0309468	229503-1	0309604	229503-5
Sample Comment Codes			X		X		X
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	NA	ND@10 R	NA	ND@10 R	NA
METHYL BUTYL KETONE	ug/l	ND@1	NA	ND@1	NA	ND@1	NA
METHYL ETHYL KETONE	ug/l	ND@2	NA	ND@2	NA	ND@2	NA
METHYL ISOBUTYL KETONE	ug/l	ND@1	NA	ND@1	NA	ND@1	NA
N-BUTYL ACETATE	ug/l	ND@2	NA	ND@2	NA	ND@2	NA
VINYL ACETATE	ug/l	ND@2	NA	ND@2	NA	ND@2	NA
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
NAPHTHALENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
STYRENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	NA	ND@1	NA
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		10/12-10/13	10/13	10/13	10/14-10/15	10/14-10/15	10/15
Sample Date		10/12/2003	10/13/2003	10/13/2003	10/14/2003	10/14/2003	10/15/2003
Laboratory Sample I.D.		0309451	229444-16	0309468	229503-1	0309604	229503-5
Sample Comment Codes			X		X		X
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	NA	ND@1	NA	ND@1	NA
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
ACETONE	ug/l	ND@10	NA	ND@10	NA	ND@10	NA
BENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
BROMOBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
BROMOFORM	ug/l	ND@2	ND@1.0	ND@2	ND@1.0	ND@2	ND@1.0
BROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
CARBON DISULFIDE	ug/l	ND@1	NA	ND@1	NA	ND@1	NA
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
CHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
CHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
CHLOROFORM	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
CHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@1.0	ND@2	ND@1.0
DIBROMOMETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0

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Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		10/12-10/13	10/13	10/13	10/14-10/15	10/14-10/15	10/15
Sample Date		10/12/2003	10/13/2003	10/13/2003	10/14/2003	10/14/2003	10/15/2003
Laboratory Sample I.D.		0309451	229444-16	0309468	229503-1	0309604	229503-5
Sample Comment Codes			X		X		X
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
M,P-XYLENE	ug/l	ND@2	ND@1.0	ND@2	ND@1.0	ND@2	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1	NA	ND@1	NA	ND@1	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
O-XYLENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
TETRAHYDROFURAN	ug/l	ND@10	NA	ND@10	NA	ND@10	NA
TOLUENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@1.0	ND@2	ND@1.0	ND@2	ND@1.0
TRICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0
VINYL CHLORIDE	ug/l	ND@1	ND@1.0	ND@1	ND@1.0	ND@1	ND@1.0

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		10/15	10/19-10/21	10/20-10/21	10/21	10/28-10/30	10/29-10/30
Sample Date		10/15/2003	10/19/2003	10/20/2003	10/21/2003	10/28/2003	10/29/2003
Laboratory Sample I.D.		0309610	0309784	0309790	0309797	0310224	0310238
Sample Comment Codes							
Parameter	**Units**						
Alcohols, Acetates, Aldehydes, Ketones							
ISOPROPANOL	ug/l	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R	ND@10 R
METHYL BUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA	NA	NA	NA	NA
NAPHTHALENE	ug/l	NA	NA	NA	NA	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
STYRENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		10/15	10/19-10/21	10/20-10/21	10/21	10/28-10/30	10/29-10/30
Sample Date		10/15/2003	10/19/2003	10/20/2003	10/21/2003	10/28/2003	10/29/2003
Laboratory Sample I.D.		0309610	0309784	0309790	0309797	0310224	0310238
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	NA	NA	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA	NA	NA	NA	NA
ACETONE	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA	NA	NA	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Sample Description		10/15	10/19-10/21	10/20-10/21	10/21	10/28-10/30	10/29-10/30
Sample Date		10/15/2003	10/19/2003	10/20/2003	10/21/2003	10/28/2003	10/29/2003
Laboratory Sample I.D.		0309610	0309784	0309790	0309797	0310224	0310238
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10	ND@10	ND@10	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2	ND@2	ND@2	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK
Sample Description		11/3-11/4	11/17-11/18
Sample Date		11/03/2003	11/17/2003
Laboratory Sample I.D.		0310318	0311017
Sample Comment Codes			X
Parameter	**Units**		
Alcohols, Acetates, Aldehydes, Ketones			
ISOPROPANOL	ug/l	ND@10	ND@10
METHYL BUTYL KETONE	ug/l	ND@1	ND@1
METHYL ETHYL KETONE	ug/l	ND@2	ND@2
METHYL ISOBUTYL KETONE	ug/l	ND@1	ND@1
N-BUTYL ACETATE	ug/l	ND@2	ND@2
VINYL ACETATE	ug/l	ND@2	ND@2
Base/Neutral Extractables			
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1
HEXACHLOROBUTADIENE	ug/l	NA	NA
NAPHTHALENE	ug/l	NA	NA
N-PROPYLBENZENE	ug/l	NA	NA
STYRENE	ug/l	ND@1	ND@1
Volatile Organics			
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK
Sample Description		11/3-11/4	11/17-11/18
Sample Date		11/03/2003	11/17/2003
Laboratory Sample I.D.		0310318	0311017
Sample Comment Codes			X
Parameter	**Units**		
Volatile Organics			
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1
1,1-DICHLOROPROPENE	ug/l	NA	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA
1,2-DIBROMOETHANE	ug/l	NA	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1
1,3-DICHLOROPROPANE	ug/l	NA	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA
2-CHLOROTOLUENE	ug/l	NA	NA
4-CHLOROTOLUENE	ug/l	NA	NA
ACETONE	ug/l	ND@10	ND@10
BENZENE	ug/l	ND@1	ND@1
BROMOBENZENE	ug/l	NA	NA
BROMOCHLOROMETHANE	ug/l	NA	NA
BROMODICHLOROMETHANE	ug/l	ND@1	ND@1
BROMOFORM	ug/l	ND@2	ND@2
BROMOMETHANE	ug/l	ND@1	ND@1
CARBON DISULFIDE	ug/l	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2
DIBROMOMETHANE	ug/l	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1

Supplemental Groundwater Assessment
Groundwater and QA/QC Analytical Data - New Monitoring Wells
July 2003 - November 2003

Sample Location		TRIP BLANK	TRIP BLANK
Sample Description		11/3-11/4	11/17-11/18
Sample Date		11/03/2003	11/17/2003
Laboratory Sample I.D.		0310318	0311017
Sample Comment Codes			X
Parameter	**Units**		
Volatile Organics			
ETHYLBENZENE	ug/l	ND@1	ND@1
ISOPROPYLBENZENE	ug/l	NA	NA
M,P-XYLENE	ug/l	ND@2	ND@2
METHYL T-BUTYL ETHER	ug/l	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1
N-BUTYLBENZENE	ug/l	NA	NA
O-XYLENE	ug/l	ND@1	ND@1
SEC-BUTYLBENZENE	ug/l	NA	NA
TERT-BUTYLBENZENE	ug/l	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1
TETRAHYDROFURAN	ug/l	ND@10	ND@10
TOLUENE	ug/l	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2	ND@2
TRICHLOROETHENE	ug/l	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1

Supplemental Groundwater Assessment
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Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
D	Compound identified at a secondary dilution factor.
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit.
R	Result rejected due to analytical and quality control deficiencies. The presence or absence of the analyte cannot be verified.
X	Analytical data has not been validated by a third party.

APPENDIX C-4

Data Validation Reports for Characterization Samples from New Monitoring Wells

TRILLIUM INC.
Consultants in Environmental Chemistry

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EMAIL edickinson@trilliuminc.com
www.trilliuminc.com

November 21, 2003

RECEIVED
DEC - 8
Groundwater Sciences Corporation

VIA FEDEX

Ms. Dorothy A. Bergmann
Associate and Hydrogeologist
Groundwater Sciences Corporation
2 Summit Court, Suite 204
Fishkill, NY 12524

Re: Data Validation for Former IBM, Endicott New York Facility

Dear Ms. Bergmann:

Enclosed are Trillium's validation reports for IBM Hudson Valley Environmental Laboratory ID #0305815-0305819, #0306458-0306466, #0307068-0307080, and #0307468-0307480. The samples in these data sets were analyzed for Method 8260B VOCs. The original data packages are also enclosed.

We appreciate the opportunity to provide data validation services. If you have any questions regarding the enclosed reports, please feel free to give me a call.

Very truly yours,

Liz Dickinson

Elizabeth K. Dickinson
Quality Assessment Manager

EKD/hrs
Enclosures

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No.: 0305815-0305819
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Elizabeth K. Dickinson **Date:** 11/19/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

All sample analyses were performed on 7/2/03, the day after collection. Therefore, the 7-day technical holding time was met.

No information regarding the cooler temperature or condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) record or elsewhere in the data package received for review.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. All surrogate compound recoveries were within the method-specified acceptance limits of 80-120%.

No qualification of the data is required for this criterion.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Sample EN307030701 was prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120% with the exception of n-butyl acetate (130%, 130%), 2-hexanone (134%, 131%), and 4-methyl-2-pentanone (130%, 127%). The high recoveries suggest the potential for false positives and/or for sample results that are biased high. Since these three compounds were not detected in EN307030701, no qualifiers were applied based on the high MS/MSD recoveries.

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 8 RPD and were acceptable (laboratory QC ≤20 RPD).

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in the LCS analysis were within these QC limits.

No qualification of the data is required for these criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

One water-matrix laboratory method blank and one water-matrix storage blank were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were detected in either of these laboratory blanks.

One trip blank (ETB030701JAR), one field blank (EFB030701EN307), and one equipment blank (EEQ030701MS) were analyzed for this SDG. No target analytes or TICs were detected in EFB030701EN307 or EEQ030701MS, and no target analytes were detected in ETB030701JAR. An unknown silanol was reported as a TIC in ETB030701JAR; however, this TIC was not detected in any of the field samples. Therefore, no action was taken on this basis.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP2." Two instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor

instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over a concentration range. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R."

One Initial Calibration (ICAL) was analyzed on 6/30/03 in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICAL associated with this SDG, all compounds meet the RRF and %RSD acceptance criteria.

An initial calibration verification (ICV) standard was analyzed after the ICAL on 6/30/03. Recoveries of all target analytes in the ICV standard (95-115%) were acceptable.

One Continuing Calibration (CCAL) was analyzed on 7/2/03 in support of this SDG. Complete documentation of the CCAL is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCAL associated with this SDG, all compounds meet the RRF and %D acceptance criteria.

No data qualification is required for these criteria.

Areas were manually integrated for several target compounds in the lowest concentration initial calibration standard. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

A "J" qualifier was appropriately applied by the laboratory to the result for 1,1,1-trichloroethane in EN307030701 because the concentration of this analyte was below the quantitation limit. This qualifier was not removed by the validator. Since it was not applied by the validator, this qualifier has not been reported on the applicable table on Page 7 of this report.

Although results were not found on the sample quantitation reports, the laboratory case narrative indicates that target analyte tetrahydrofuran was present in ETB030701JAR at 0.5 µg/L, in EFB030701EN307 at 0.6 µg/L, and in EEQ030701MS at 0.9 µg/L. Since all of these concentrations were well below the reported method detection limit of 2.18 µg/L for tetrahydrofuran, results for this compound in all three samples were appropriately reported by the laboratory as not detected.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

An unknown silanol was reported in ETB030701JAR at an estimated concentration of 1 µg/L, and this result was appropriately qualified with a "J" by the laboratory to indicate that the reported concentration is an estimated quantity. No TICs were reported in any of the remaining samples in this data set.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of the cooler temperature measurement and condition of the samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.
- On the summary form for the BFB instrument performance check performed on 7/2/03 at 14:10, mass 173 was incorrectly reported as 7.5% of mass 174. Since mass 173 was not present in this analysis, this result should have been reported as 0.0%. The appropriate correction was made by the validator to the summary form included in the data package.
- On the summary form for the CCAL run on 7/2/03 at 14:41, the date and time of this analysis were incorrectly recorded as 9/20/02 at 09:47. Appropriate corrections were made by the validator to the summary form included in the data package.

Sample chromatograms were normalized to the large, early-eluting air peak, which made it difficult to distinguish the presence or absence of target analyte peaks in some cases. Therefore, it was assumed for validation purposes that all applicable target and nontarget analyte peaks present in each sample were appropriately reported by the laboratory.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

The data are acceptable as reported by the laboratory.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 11/19/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: EKD **Number of Samples:** 5

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	5	0	240	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	5	0	240	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No.: 0306458-0306466
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Elizabeth K. Dickinson **Date:** 11/21/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

All samples were received at the laboratory with a receiving temperature of 1°C. Sample analyses were performed on 7/18/03 and 7/22/03, which was within the 7-day technical holding time.

No information regarding the condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) record or elsewhere in the data package received for review.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. All surrogate compound recoveries were within the method-specified acceptance limits of 80-120%.

No qualification of the data is required for these criteria.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Sample EN217A0307 was prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120%.

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 17 RPD and were acceptable (laboratory QC ≤20 RPD).

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in the LCS analysis were within these QC limits.

No qualification of the data is required for these criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

Two water-matrix laboratory method blanks and one water-matrix storage blank were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were detected in any of these laboratory blanks.

One trip blank (ETB030717JAR), one field blank (EFB030717EN309B), and one equipment blank (EEQ030717BALR) were analyzed for this SDG. No target analytes or TICs were detected in any of these field-submitted blanks.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP1." Three instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors.

For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R."

One Initial Calibration (ICAL) was analyzed on 7/17/03 in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICAL associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.030). Nondetect results for isopropyl alcohol in all of the samples in this data set were rejected (R) due to the unacceptably low RRF for this compound.

An initial calibration verification (ICV) standard was analyzed after the ICAL on 7/17/03. Recoveries of all target analytes in the ICV standard (85-105%) were acceptable.

Two Continuing Calibrations (CCALs) were analyzed, on 7/18/03 and 7/22/03, in support of this SDG. Complete documentation of the CCALs is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCALs associated with this SDG, all compounds meet the %D acceptance criterion, and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.029 on 7/18/03 and 0.030 on 7/22/03). Results for isopropyl alcohol were previously rejected due to a similarly low response in the ICAL, and no additional qualifiers were applied based on the low CCAL responses.

Areas were manually integrated for one or more target compounds in all of the calibration standards in this data set. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

"J" qualifiers were appropriately applied by the laboratory to denote target analyte concentrations below the sample-specific quantitation limits. These qualifiers were not removed by the validator. Since they were not applied by the validator, these qualifiers have not been reported on the applicable table on Page 6 of this report.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

TICs were correctly reported in EN309B0307, and "J" qualifiers were appropriately applied by the laboratory to these results to indicate that the reported concentrations are estimated quantities. No TICs were reported in any of the remaining samples in this data set.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of the condition of the samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

As noted in Section 6, all site sample results for isopropyl alcohol were rejected (R). All other data are acceptable as reported by the laboratory.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 11/21/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: EKD **Number of Samples:** 9

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	9	9	432	2	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	9	0	432	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No.: 0307068-0307080
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Elizabeth K. Dickinson **Date:** 11/21/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

All site sample analyses were performed on 8/11/03 and 8/12/03, which was within the 7-day technical holding time.

No information regarding the cooler temperature or condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) record or elsewhere in the data package received for review.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. All surrogate compound recoveries were within the method-specified acceptance limits of 80-120%.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Insufficient sample volume was available to prepare a site-specific MS/MSD pair in association with this SDG; therefore, the laboratory prepared and analyzed a blank spike/blank spike duplicate (BS/BSD) pair. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120%, with the exception of carbon tetrachloride (121%) in the BS. Since the BSD recovery was acceptable for this compound, no qualifiers were applied based on the slightly high BS recovery.

Relative percent differences (RPDs) between paired BS/BSD recoveries were also correctly reported. These values ranged from 0 to 17 RPD and were acceptable (laboratory QC ≤20 RPD).

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in the LCS analyses were within these QC limits.

No qualification of the data is required for these criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

Two water-matrix laboratory method blanks and one water-matrix storage blank were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were detected in any of these laboratory blanks.

One field blank (EFB041130807) was analyzed for this SDG. Target analyte styrene was detected in the field blank at 0.4 µg/L, and TICs 2-methylbutane at 2.91 minutes and an unknown acid at 6.86 minutes were reported in the field blank. Styrene and the TIC 2-methylbutane were also reported in site sample EEN306B30807 at concentrations less than five times the field blank concentrations. Based on associated field blank contamination, the result for styrene in EEN306B30807 was qualified as not detected at the reported value (1 U), and the result for TIC 2-methylbutane in this sample was rejected (R). No other qualifiers were required based on field blank contamination.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on two GC/MS instruments identified as "HP1" and "HP2." Four instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R."

Two Initial Calibrations (ICALs) were analyzed in support of this SDG; these were run on 8/1/03 on HP1 and on 6/30/03 on HP2. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICALs associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.028) in the 8/1/03 ICAL. Results for isopropyl alcohol in EEN030230807, EEN031130807, EEN306A30807, EEN030530807, EEN303A30807, EEN303B30807, and EEN300B30807 were rejected (R) due to the unacceptably low RRF for this analyte in the associated ICAL.

Two Continuing Calibrations (CCALs) were analyzed in support of this SDG; these were run on 8/11/03 on HP1 and on 8/12/03 on HP2. Complete documentation of the CCALs is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCALs associated with this SDG, all compounds meet the %D acceptance criterion, and all compounds meet the RRF criterion except isopropyl alcohol in the CC standard run on 8/11/03 at 11:14 (0.028). Results for isopropyl alcohol in EEN030230807, EEN031130807, EEN306A30807, EEN030530807, EEN303A30807, EEN303B30807, and EEN300B30807 were previously rejected due to a similarly low response in the associated ICAL, and no additional qualifiers were applied based on the low CCAL response.

Areas were manually integrated for one or more target compounds in several of the calibration standards in this data set. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds

quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets, including necessary adjustments for dilutions. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

"J" qualifiers were appropriately applied by the laboratory to denote target analyte concentrations below the sample-specific quantitation limits. These qualifiers were not removed by the validator. Since they were not applied by the validator, these qualifiers have not been reported on the applicable table on Page 7 of this report.

Samples EEN030230807, EEN031130807, EEN0306A30807, and EEN303B30807 were analyzed at 2-fold, 2-fold, 5-fold, and 50-fold dilutions, respectively, to obtain concentrations of target compounds that were within the established instrument calibration range. Samples EEN300A30807 and EEN041130807 were both analyzed at 2-fold dilutions due to the fuel oil odor observed in these samples. No undiluted or less diluted analyses of these samples were reported.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

Several of the reported TICs were identified as specific isomers of various compounds by the laboratory. Structural isomers, which have very similar mass spectra, cannot be distinguished in the absence of calibration standards containing the reported compounds for retention time comparisons. In these cases, corrections to the TIC results were made by the validator to reflect an isomer of the reported compound (e.g., "methylnaphthalene isomer" in place of "1-methylnaphthalene"). In other cases, the identifications were revised to reflect a more general compound class (e.g., "C3- benzene" in place of "1-ethyl-2-methylbenzene"); homologous compounds (e.g., substituted aromatics) also have very similar mass spectra, and definitive identifications of these compounds are also not possible without analysis of calibration standards under the same conditions for retention time and spectral comparisons. Corrections were made by the validator to the following nontarget analyte peaks:

- at 19.25, 21.53, and 22.54 minutes in EEN300A30807.
- at 18.19, 19.25, 19.80, 20.35, 20.64, 21.17, 21.26, 21.36, 21.53, 22.54, 22.91, 23.62, 23.94, and 24.07 minutes in EEN041130807.

The "N" qualifiers applied by the laboratory to the above TICs to indicate that they are presumed present were removed by the validator.

For EEN041130807, the identifications of the TIC peaks at 2.17 and 23.28 minutes were both corrected to unknown (from unknown butane and 5,6-dimethyl indan, respectively). Based on the mass spectra provided, a more definitive identification cannot be made for either peak. The "N" qualifier applied to the TIC peak at 23.28 minutes was removed by the validator.

For EEN041130807, the identification of the TIC peak at 19.09 minutes was corrected to $C_{10}H_{14}$ aromatic (from 2-ethyl-1,3-dimethylbenzene) and the "N" qualifier was removed by the validator. Based on the mass spectra provided, a more definitive identification cannot be made for this peak.

"J" qualifiers were appropriately applied by the laboratory to all TIC results to indicate that the reported concentrations are estimated quantities.

Results for isopropylbenzene (16 µg/L), n-propylbenzene (24 µg/L), and sec-butylbenzene (5 µg/L) were found on the quantitation report for EEN041130807. Although these three analytes are not target compounds for this SDG, they were included in the associated calibration standards. Since RRFs and other quality control results for these compounds were not reported in the data package, the accuracy of the reported concentrations is not known. However, based on retention times and the mass spectra provided, all three of these compounds were correctly identified as being present in the sample.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of the cooler temperature and condition of the samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.

Sample chromatograms from the HP2 instrument were normalized to the large, early-eluting air peak, which made it difficult to distinguish the presence or absence of target analyte peaks in some cases. Therefore, it was assumed for validation purposes that all applicable target and nontarget analyte peaks present in each sample were appropriately reported by the laboratory.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

As noted in Section 6, results for isopropyl alcohol in EEN030230807, EEN031130807, EEN306A30807, EEN030530807, EEN303A30807, EEN303B30807, and EEN300B30807 were rejected (R). All other data are acceptable as qualified by the validator.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 11/21/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: EKD **Number of Samples:** 13

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	13	7	624	1	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	13	0	624	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No.: 0307468-0307480
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Elizabeth K. Dickinson **Date:** 11/19/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

All site sample analyses were performed on 8/19/03, which was within the 7-day technical holding time.

No information regarding the cooler temperature or condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) record or elsewhere in the data package received for review.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. All surrogate compound recoveries were within the method-specified acceptance limits of 80-120% with the exception of 1,4-dichlorobutane in the storage blank (79%). Since site sample surrogate recoveries were acceptable, no qualifiers were required on this basis.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

A sample identified as 0307278 was prepared as an MS/MSD pair for all target analytes. According to the case narrative, 0307278 was a site sample, but it was not reported with the samples in this SDG. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120%, with the exception of n-butyl acetate (124%), 1,2-dichlorobenzene (121%), 1,4-dichlorobenzene (123%), 2-hexanone (130%), 4-methyl-2-pentanone (124%), and styrene (123%) in the MS. The high recoveries suggest the potential for false positives and/or for sample results that are biased high. Since these six analytes were not detected in 0307278 and MSD recoveries were acceptable for all of these compounds, no qualifiers were applied based on the high MS recoveries.

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 17 RPD and were acceptable (laboratory QC ≤20 RPD).

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in the LCS analyses were within these QC limits.

No qualification of the data is required for these criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

Two water-matrix laboratory method blanks and one water-matrix storage blank were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were detected in any of these laboratory blanks.

One trip blank (ETB030815JAR), one field blank (EFB030815EN214A), and one equipment blank (EEQ030815BALR) were analyzed for this SDG. No target analytes or TICs were detected in any of these field-submitted blanks.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP2." Three instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R."

Two Initial Calibrations (ICALs) were analyzed, on 8/18/03 and 8/20/03, in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICALs associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.046) in the 8/20/03 ICAL. None of the site samples reported in this data package were associated with the 8/20/03 ICAL; therefore, no qualifiers were applied based on the low RRF.

One Continuing Calibration (CCAL) was analyzed on 8/19/03 in support of this SDG. Complete documentation of the CCAL is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCAL associated with this SDG, all compounds meet the RRF and %D acceptance criteria.

Areas were manually integrated for one or more target compounds in several of the calibration standards in this data set. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets, including necessary adjustments for dilutions. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

"J" qualifiers were appropriately applied by the laboratory to denote target analyte concentrations below the sample-specific quantitation limits. These qualifiers were not removed by the validator. Since they were not applied by the validator, these qualifiers have not been reported on the applicable table on Page 7 of this report.

Samples EN208A030815, EN213A030815, EN214A030815, and EN214B030815 were analyzed at 2-fold, 10-fold, 5-fold, and 5-fold dilutions, respectively, to obtain concentrations of trichloroethene that were within the established instrument calibration range. No undiluted or less diluted analyses of these samples were reported.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

TICs were correctly reported in EN309A030815, EN309B030815, and EN309C030815, and "J" qualifiers were appropriately applied by the laboratory to these results to indicate that the reported concentrations are estimated quantities. No TICs were reported in any of the remaining samples in this data set.

A result for 1,2,4-trimethylbenzene (0.1 µg/L) was found on the quantitation report for EN309C0307. Although this analyte is not target a compound for this SDG, it was included in the associated calibration standards. Since RRFs and other quality control results for this compound were not reported in the data package, the accuracy of the reported concentration is not known. However, based on the retention time and the mass spectra provided, this compound was correctly identified as being present in the sample.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of the cooler temperature and condition of the samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.

Sample chromatograms were normalized to the large, early-eluting air peak, which made it difficult to distinguish the presence or absence of target analyte peaks in some cases. Therefore, it was assumed for validation purposes that all applicable target and nontarget analyte peaks present in each sample were appropriately reported by the laboratory.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

The data are acceptable as reported by the laboratory.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 11/19/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: EKD **Number of Samples:** 13

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	13	0	624	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	13	0	624	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

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November 21, 2003

RECEIVED
DEC - 8 2003
Groundwater Sciences Corporation

VIA FEDEX

Ms. Dorothy A. Bergmann
Associate and Hydrogeologist
Groundwater Sciences Corporation
2 Summit Court, Suite 204
Fishkill, NY 12524

Re: Data Validation for Former IBM, Endicott New York Facility

Dear Ms. Bergmann:

Enclosed are Trillium's validation reports for IBM Hudson Valley Environmental Laboratory ID #0306542–0306546, #0307996-0308009, and #0308093-0308103. The samples in these data sets were analyzed for Method 8260B VOCs. The original data packages are also enclosed.

We appreciate the opportunity to provide data validation services. If you have any questions regarding the enclosed reports, please feel free to give me a call.

Very truly yours,

Engrid Carpenter

Engrid S. Carpenter
Quality Assessment Manager

ESC/hrs
Enclosures

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No.: 0306542-0306546
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Engrid Carpenter **Date:** 11/20/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

Sample analyses were performed on 7/23/03 and 7/24/03, which was within the 7-day technical holding time.

No information regarding the temperature or condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) record or elsewhere in the data package received for review.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. No surrogate compound recoveries failed to meet the method specifications of 80-120%.

No qualification of the data is required for this criterion.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Sample EN208A30722 was prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120% with the exceptions of trans-1,3-dichloropropene (77% and 79%), 4-methyl-2-pentanone (75% in the MSD), and trichloroethene (70% in the MSD). The low recoveries of trans-1,3-dichloropropene suggest the potential for reporting false negative or for positive sample results that are biased low. Therefore, based on unacceptably low recoveries in both spiked analyses, the result for trans-1,3-dichloropropene in EN208A30722 was qualified as estimated (UJ). 4-Methyl-2-pentanone and trichloroethene were acceptably recovered in one of the spiked analyses and both recoveries are within the method-specified acceptance limits of 70-130%; therefore, no data for these analytes were qualified based on the MS/MSD data alone.

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged from (0 to 17 RPD) and were acceptable (≤20 RPD).

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in the LCS analyses were within these QC limits.

No qualification of the data is required for this criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

Two water-matrix laboratory method blanks were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were detected in either of these laboratory blanks.

One trip blank (ETB030722JAR), one field blank (EFB030722EN213A), and one equipment blank (EEQ030722BALR) were analyzed for this SDG. No target analytes or TICs were detected in any of these field-submitted blanks.

No qualification of the data is required for this criteria.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP1." Three instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R."

One Initial Calibration (ICAL) was analyzed on 7/17/03 in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICAL associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.030). Nondetect results for isopropyl alcohol in all of the samples in this data set were rejected (R) due to the unacceptably low RRF for this compound.

An initial calibration verification (ICV) standard was analyzed after the ICAL on 7/17/03. Recoveries of all target analytes in the ICV standard (90-105%) were acceptable.

Two Continuing Calibrations (CCALs) were analyzed, on 7/23/03 and 7/24/03, in support of this SDG. Complete documentation of the CCALs is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCALs associated with this SDG, all compounds meet the %D acceptance criterion, and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.031 on 7/23/03 and 0.027 on 7/24/03). Results for isopropyl alcohol were previously rejected due to a similarly low response in the ICAL, and no additional qualifiers were applied based on the low CCAL responses.

Areas were manually integrated for one or more target compounds in all of the calibration standards in this data set. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds

quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

The laboratory appropriately applied "J" qualifiers to concentrations of target analytes below the reporting limits to indicate that these are estimated concentrations. The validator did not remove these qualifiers but these estimated values are not included on the summary table because these qualifications were not a result of exceeding review criteria.

EN208A030722 was analyzed undiluted and at a 2-fold dilution. Raw data for both of these analyses were included in the data package. However, only one volatile organics analysis data sheet was provided for the sample, and results reported on the volatile organics analysis data sheet form for EN208A030722 were taken from the diluted analysis.

The concentration of trichloroethene in the undiluted analysis of EN208A030722 exceeded the upper limit of the established instrument calibration range and can be considered an estimated quantity only. Since the concentration of this compound in the diluted analysis was within the calibration range and quantitatively acceptable, this result was appropriately reported by the laboratory from the diluted analysis. However, the dilution was unnecessary for all target compounds except trichloroethene because these results were quantitatively acceptable in the undiluted analysis of EN208A030722. On this basis, it is the professional judgment of the validator that these results should have been reported from the undiluted analysis of the sample rather than the dilution. Therefore, the result for tetrachloroethene was corrected to 0.5 J µg/L (from 2 U µg/L); the "J" indicates an estimated value due to detection below the reporting limit. Results for cis-1,2-dichloroethene and 1,1,1-trichloroethane were the same in both the diluted and undiluted analyses; therefore, no changes to the reported results were necessary. Sample-specific RLs for all target analytes except trichloroethene and isopropyl alcohol were also corrected to reflect results from the undiluted analysis [to 10 µg/L (from 20 µg/L) for acetone and tetrahydrofuran, to 2 µg/L (from 4 µg/L) for bromoform, 2-butanone, n-butyl acetate, cis-1,3-dichloropropene, trans-1,3-dichloropropene, and vinyl acetate, and to 1 µg/L (from 2 µg/L) for all of the remaining target analytes]. The reporting limit for isopropyl alcohol was not corrected because the result for this analyte was previously rejected.

EN213A030722 was analyzed undiluted and at a 10-fold dilution. Raw data for both of these analyses were included in the data package. However, only one volatile organics analysis data sheet was provided for the sample, and results reported on the volatile organics analysis data sheet form for EN213A030722 were taken from the diluted analysis.

The concentration of trichloroethene in the undiluted analysis of EN213A030722 exceeded the upper limit of the established instrument calibration range and can be considered an estimated quantity only. Since the concentration of this compound in the diluted analysis was within the calibration range and quantitatively acceptable, this result was appropriately reported by the laboratory from the diluted analysis. However, the dilution was unnecessary for all target compounds except trichloroethene because these results were quantitatively acceptable in the undiluted analysis of EN213A030722. On this basis, it is the professional judgment of the validator that these results should have been reported from the undiluted analysis of the sample rather than the dilution. Therefore, the result for chloroform was corrected to 0.5 J µg/L (from 10 U µg/L); the "J" indicates an estimated value due to detection below the reporting limit. Sample-specific RLs for all target analytes except trichloroethene and isopropyl alcohol were also corrected to reflect results from the undiluted analysis [to 10 µg/L (from 100 µg/L) for acetone and tetrahydrofuran, to 2 µg/L (from 20 µg/L) for bromoform, 2-butanone, n-butyl acetate, cis-1,3-dichloropropene, trans-1,3-dichloropropene, and vinyl acetate, and to 1 µg/L (from 10 µg/L) for all of the remaining target analytes]. The reporting limit for isopropyl alcohol was not corrected because the result for this analyte was previously rejected.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

No TICs were reported in any of the samples in this data set.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of pH measurements was not included in the data package.
- Documentation of the cooler temperature measurement and condition of the samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

As noted in 6, results for isopropyl alcohol in all samples were rejected (R) due to the unacceptably low RRF for this analyte in the associated calibration standards. All other data are acceptable as qualified by the validator.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 11/20/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: ESC **Number of Samples:** 5

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	5	5	240	2	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	1	5	1	240	0.4	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No.: 0307996-0308009
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Ingrid Carpenter **Date:** 11/20/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

All samples were received at the laboratory with a receiving temperature of 1°C. Sample analyses were performed on 8/27/03 and 8/28/03, which was within the 7-day technical holding time.

No information regarding the condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) record or elsewhere in the data package received for review.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. No surrogate compound recoveries failed to meet the method specifications of 80-120%.

No qualification of the data is required for this criterion.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Sample EN305030826 was prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120% .

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 10 RPD and were acceptable (≤20 RPD).

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in the LCS analyses were within these QC limits.

No qualification of the data is required for this criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

Two water-matrix laboratory method blanks and one refrigerator holding blank were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were detected in any of these laboratory blanks.

One trip blank (ETB030826JAR), one field blank (EFB030826EN311), and one equipment blank (EEQ030826BALR) were analyzed for this SDG. No target analytes or TICs were detected in any of these field-submitted blanks.

No qualification of the data is required for this criteria.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP2." Three instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R."

One Initial Calibration (ICAL) was analyzed on 8/26/03 in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICAL associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.041). Nondetect results for isopropyl alcohol in all of the samples in this data set were rejected (R) due to the unacceptably low RRF for this compound.

An initial calibration verification (ICV) standard was analyzed after the ICAL on 8/26/03. Recoveries of all target analytes in the ICV standard (90-110%) were acceptable.

Two Continuing Calibrations (CCALs) were analyzed, on 8/27/03 and 8/28/03, in support of this SDG. Complete documentation of the CCALs is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCALs associated with this SDG, all compounds meet the %D acceptance criterion, and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.045 on 8/27/03 and 0.043 on 8/28/03). Results for isopropyl alcohol were previously rejected due to a similarly low response in the ICAL, and no additional qualifiers were applied based on the low CCAL responses.

Areas were manually integrated for one or more target compounds in all of the calibration standards in this data set. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

The laboratory appropriately applied "J" qualifiers to concentrations of target analytes below the reporting limits to indicate that these are estimated concentrations. The validator did not remove these qualifiers but these estimated values are not included on the summary table because these qualifications were not a result of exceeding review criteria.

EN311030826, EN302030826, EN303B030826, and EN300A030826 were reported from 2-fold diluted analyses, results for EN306A030825 and EN306B030826 were reported from 5-fold diluted analyses, and results for EN403030826 were reported from a 50-fold diluted analysis. No undiluted or less diluted analyses of these seven samples were reported.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

Several of the TICs reported in EN300A030826 were identified as specific isomers of various compounds by the laboratory. In each case, the identification was revised to reflect a more general compound class (e.g., "unknown $C_{10}H_{12}$ isomer" in place of "1-methyl-2-phenylcyclopropane"). Corrections were made by the validator to the nontarget analyte peaks at retention times of 19.25, 19.90, 20.64, 21.53, 21.96, 22.90, 23.36, 23.61, and 24.07 minutes in EN300A030826. The validator removed the "N" qualifiers applied to these identifications by the laboratory to indicate a presumptive identification.

No TICs were reported in any of the remaining samples in this data set.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of pH measurements was not included in the data package.
- Documentation of the condition of the samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.
- On the summary form for the BFB instrument performance check performed on 8/27/03 at 11:13, mass 173 was incorrectly reported as 0.0% of mass 174. Since an area amount of 76 was reported for mass 173 in this analysis, this result should have been reported as 0.3%. The appropriate correction was made by the validator to the summary form included in the data package.

Sample chromatograms were normalized to the large, early-eluting air peak, which made it difficult to distinguish the presence or absence of target analyte peaks in some cases. Therefore, it was assumed for validation purposes that all applicable target and nontarget analyte peaks present in each sample were appropriately reported by the laboratory.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

As noted in 6, results for isopropyl alcohol in all samples were rejected (R) due to the unacceptably low RRF for this analyte in the associated calibration standards. All other data are acceptable as qualified by the validator.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 11/20/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: ESC **Number of Samples:** 14

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	14	14	672	2	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	14	0	672	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No.: 0308093-0308103
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Ingrid Carpenter **Date:** 11/20/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

All samples were received at the laboratory with a receiving temperature of 1°C. Sample analyses were performed on 9/2/03, which was within the 7-day technical holding time.

No information regarding the condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) record or elsewhere in the data package received for review.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. No surrogate compound recoveries failed to meet the method specifications of 80-120%.

No qualification of the data is required for this criterion.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Sample EN309C030829 was prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120% with the exceptions of n-butyl acetate (122% and 124%), 2-hexanone (124% and 228%), and 4-methyl-2-pentanone (121% and 125%). These high recoveries suggest the potential for reporting false positives and/or sample results that are biased high. Since n-butyl acetate, 2-hexanone, and 4-methyl-2-pentanone were not detected in the unspiked analysis of EN309C030829, data qualification on this basis was not necessary.

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged between 0 to 10 RPD and were acceptable (≤20 RPD).

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in the LCS analyses were within these QC limits.

No qualification of the data is required for this criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

One water-matrix laboratory method blank and one refrigerator holding blank were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were detected in either of these laboratory blanks.

One trip blank (ETB030829JAR), one field blank (EFB030829EN309C), and one equipment blank (EEQ030829BALR) were analyzed for this SDG. No target analytes or TICs were detected in ETB030829JAR or EFB030829EN309C and no TICs were detected in EEQ030829BALR.. Isopropyl alcohol was reported at 33 µg/L in EEQ030829BALR but this analyte was not detected in any of the field samples and the non-detects were subsequently rejected (R). Therefore, no action was necessary based on the presence of isopropyl alcohol in the equipment blank.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP2." Two instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R."

One Initial Calibration (ICAL) was analyzed on 8/26/03 in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICAL associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.041). The result for isopropyl alcohol in EEQ030829BALR was qualified as estimated (J) and the nondetect results for isopropyl alcohol in all of the remaining samples in this data set were rejected (R) due to the unacceptably low RRF for this compound.

An initial calibration verification (ICV) standard was analyzed after the ICAL on 8/26/03. Recoveries of all target analytes in the ICV standard (90-110%) were acceptable.

One Continuing Calibration (CCAL) was analyzed, on 9/2/03, in support of this SDG. Complete documentation of the CCAL is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCALs associated with this SDG, all compounds meet the %D acceptance criterion, and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.037). Results for isopropyl alcohol were previously rejected due to a similarly low response in the ICAL, and no additional qualifiers were applied based on the low CCAL response.

Areas were manually integrated for one or more target compounds in all of the calibration standards in this data set. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

The laboratory appropriately applied "J" qualifiers to concentrations of target analytes below the reporting limits to indicate that these are estimated concentrations. The validator did not remove these qualifiers but these estimated values are not included on the summary table because these qualifications were not a result of exceeding review criteria.

Results for EN208A030829 were reported from a 2-fold diluted analysis, results for EN214A030829 and EN214B030829 were reported from 5-fold diluted analyses, and results for EN213A030829 were reported from a 50-fold diluted analysis. No undiluted or less diluted analyses of these four samples were reported.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

Several of the TICs reported in EN309C030829 were identified as specific isomers of various compounds by the laboratory. In each case, the identification was revised to reflect a more general compound class (e.g., "unknown C4H8 isomer" in place of "4,4-dimethyl-2-oxetanone") or to "unknown" when no compound class could be discerned from the data provided.. Corrections were made by the validator to the nontarget analyte peaks at retention times of 2.07, 2.23, 2.48, and 5.77 minutes in EN309C030829. The validator removed the "N" qualifiers applied to these identifications by the laboratory to indicate a presumptive identification.

No TICs were reported in any of the remaining samples in this data set.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of pH measurements was not included in the data package.
- Documentation of the condition of the samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.

Sample chromatograms were normalized to the large, early-eluting air peak, which made it difficult to distinguish the presence or absence of target analyte peaks in some cases. Therefore, it was assumed for validation purposes that all applicable target and nontarget analyte peaks present in each sample were appropriately reported by the laboratory.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

As noted in 6, the result for isopropyl alcohol in EEQ030829BALR was qualified as estimated (J) and the nondetect results for isopropyl alcohol in all of the remaining samples in this data set were rejected (R) due to the unacceptably low RRF for this analyte in the associated calibration standards. All other data are acceptable as qualified by the validator.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 11/20/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: ESC **Number of Samples:** 11

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	11	10	528	2	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	11	1	528	0.2	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

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December 11, 2003

VIA FEDEX

Ms. Dorothy A. Bergmann
Associate and Hydrogeologist
Groundwater Sciences Corporation
2 Summit Court, Suite 204
Fishkill, NY 12524

Re: Data Validation for Former IBM, Endicott New York Facility

Dear Ms. Bergmann:

Enclosed are Trillium's validation reports for the following IBM Hudson Valley Environmental Laboratory IDs:

1. #0308672-0308698
2. #0308221-0308227, 0308941-0308951, 0308967-0308970, 0308995, 0309115-0309126
3. #0309451-0309476, 0309604-0309614, 0309784-0309798, 0310224-0310247

The samples in these data sets were analyzed for Method 8260B VOCs. The original data packages are also enclosed.

We appreciate the opportunity to provide data validation services. If you have any questions regarding the enclosed reports, please feel free to give me a call.

Very truly yours,

Liz Dickinson

Elizabeth K. Dickinson
Quality Assessment Manager

EKD/hrs
Enclosures

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No. 0309451-0309476, 0309604-0309614, 0309784-0309798, 0310224-0310247
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Elizabeth K. Dickinson **Date:** 12/11/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

The site sample analyses were performed between 10/13/03 and 10/31/03, which was within the 7-day technical holding time for all samples.

With the exception of the samples collected on 10/28/03 and 10/29/03, no information regarding the cooler temperatures or condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) records or elsewhere in the data package received for review. An acceptable cooler temperature of 1°C in both cases (QC ≤10°C) was recorded on the chain of custody records listing the 10/28/03 and 10/29/03 samples.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. All surrogate compound recoveries were within the method-specified acceptance limits of 80-120%.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Site sample EN301031012 was prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120% except for n-butyl acetate (126%), 2-hexanone (126%), 4-methyl-2-pentanone (130%), and o-xylene (123%) in the MS. The high recoveries suggest the potential for false positives and/or for sample results that are biased high. Since these four analytes were not detected in EN301031012 and the MSD recovery was acceptable for each of these compounds, no qualifiers were applied based on the high MS recoveries.

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 14 RPD and were acceptable (laboratory QC ≤20 RPD).

Site sample EN417B031013 was also prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All %Rs were within the laboratory-established acceptance limits of 80 to 120%

except for trichloroethene (77% MS, 78% MSD). The result for trichloroethene in EN417B031013 was qualified as estimated (J) due to the unacceptably low MS/MSD recoveries for this analyte.

RPDs between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 13 RPD and were acceptable (laboratory QC ≤20 RPD).

Site sample END32031020 was also prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All %Rs were within the laboratory-established acceptance limits of 80 to 120%.

RPDs between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 10 RPD and were acceptable (laboratory QC ≤20 RPD).

One blank spike/blank spike duplicate (BS/BSD) pair was also prepared and analyzed with the site samples. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All %Rs were within the laboratory-established acceptance limits of 80 to 120%, and all RPDs between paired BS/BSD recoveries were less than the laboratory-specified maximum acceptance limit of 20 RPD.

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in all seven LCS analyses were within these QC limits.

No qualification of the data is required for these criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

Seven water-matrix laboratory method blanks and two water-matrix storage blanks were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were reported in any of these laboratory blanks.

Nine trip blanks (EBT031012ETD, ETB031013ETD, ETB031014DFB, ETB031015DFB, ETB031019ETD, ETB031020ETD, ETB031021ETD, ETB031028JAR, and ETB031029JAR), eight field blanks (EFB031012EN301, EFB031013EN417A, EFB031014EN412A, EFB031015EN410, EFB031019EN419, EFB031020EN427, EFB031028EN400B, and EFB031029EN404), and eight equipment blanks (EEQ031012BALR, EEQ031013SP, EEQ031014WLID, EEQ031015SP, EEQ031019BALR, EEQ031020SP, EEQ031028WLID, and EEQ031029BALR) were analyzed for this SDG. No target analytes or TICs were detected in any of these field-submitted blanks.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP2." Eight instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean relative response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detect results may be qualified "R."

One Initial Calibration (ICAL) was analyzed on 10/8/03 in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICAL associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.049). Results for isopropyl alcohol in all of the samples in this data set were rejected (R) due to the unacceptably low RRF for this analyte in the ICAL.

An initial calibration verification (ICV) standard was analyzed on 10/9/03 after the ICAL. Recoveries of all target analytes in the ICV standard (80-110%) were acceptable.

Seven Continuing Calibrations (CCALs) were analyzed in support of this SDG; these were run on 10/13/03, 10/14/03, 10/15/03, 10/22/03, 10/23/03, 10/30/03, and 10/31/01. Complete documentation of the CCALs is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method.

Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCALs associated with this SDG, all compounds meet the %D acceptance criterion, and all compounds meet the RRF criterion except isopropyl alcohol in the CCALs run on 10/22/03 (0.046), 10/23/03 (0.046), 10/30/03 (0.047), and 10/31/03 (0.041). Results for isopropyl alcohol in the samples associated with these CCALs were previously rejected due to a similarly low response in the associated ICAL, and no additional qualifiers were applied based on the low CCAL responses.

Areas were manually integrated for one or more target compounds in several of the calibration standards in this data set. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets, including necessary adjustments for dilutions. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

"J" qualifiers were appropriately applied by the laboratory to denote target analyte concentrations below the sample-specific quantitation limits. These qualifiers were not removed by the validator. Since they were not applied by the validator, these qualifiers have not been reported on the applicable table on Page 8 of this report.

Sample EN407B031012 was analyzed at a 10-fold dilution and at a 20-fold dilution. Raw data for both of these analyses were included in the data package. However, only one volatile organics analysis data sheet was provided for the sample, and results reported on the volatile organics analysis data sheet form for EN407B031012 were taken from the 20-fold diluted analysis.

The concentration of Freon 113 in the 10-fold diluted analysis of EN407B031012 exceeded the upper limit of the established instrument calibration range and can be considered an estimated quantity only. Since the

concentration of this compound in the 20-fold diluted analysis was within the calibration range and quantitatively acceptable, this result was appropriately reported by the laboratory from the 20-fold diluted analysis. However, the 20-fold dilution was unnecessary for all target compounds except Freon 113 because these results were quantitatively acceptable in the 10-fold diluted analysis of EN407B031012. On this basis, it is the professional judgment of the validator that these results should have been reported from the 10-fold diluted analysis of the sample rather than the 20-fold dilution. Therefore, the result for cis-1,2-dichloroethene was corrected to 3 J µg/L (from 20 U µg/L), the result for trichloroethene was corrected to 24 µg/L (from 23 µg/L), and sample-specific RLs for all target analytes except Freon 113 were corrected to reflect the 10-fold dilution. The concentration of Freon 123a was the same in both analyses (19 µg/L). However, the unadjusted concentration of this compound in the 20-fold dilution was below the lower limit of the established calibration range, and the result was appropriately qualified with a "J" by the laboratory on this basis. Since the concentration of Freon 123a in the 10-fold dilution was within the established calibration range, the "J" qualifier was removed by the validator from the sample volatile organics analysis sheet.

Sample EN214C031020 was analyzed undiluted and at a 10-fold dilution. Raw data for both of these analyses were included in the data package. However, only one volatile organics analysis data sheet was provided for the sample, and results reported on the volatile organics analysis data sheet form for EN214C031020 were taken from the diluted analysis.

The concentration of trichloroethene in the undiluted analysis of EN214C031020 exceeded the upper limit of the established instrument calibration range and can be considered an estimated quantity only. Since the concentration of this compound in the diluted analysis was within the calibration range and quantitatively acceptable, this result was appropriately reported by the laboratory from the diluted analysis. However, the dilution was unnecessary for all target compounds except trichloroethene because these results were quantitatively acceptable in the undiluted analysis of EN214C031020. On this basis, it is the professional judgment of the validator that these results should have been reported from the undiluted analysis of the sample rather than the dilution. Therefore, the result for Freon 123a was corrected to 0.9 J µg/L (from 10 U µg/L), the result for 1,1-dichloroethene was corrected to 0.3 J µg/L (from 10 U µg/L), the result for tetrachloroethene was corrected to 5 µg/L (from 4 J U µg/L), and sample-specific RLs for all target analytes except trichloroethene were corrected to reflect the undiluted analysis. The concentration of 1,1,1-trichloroethane was the same in both analyses (6 µg/L). However, the unadjusted concentration of this compound in the diluted analysis was below the lower limit of the established calibration range, and the result was appropriately qualified with a "J" by the laboratory on this basis. Since the concentration of 1,1,1-trichloroethane in the undiluted analysis was within the established calibration range, the "J" qualifier was removed by the validator from the sample volatile organics analysis sheet. The concentration of cis-1,2-dichloroethene (17 µg/L) was the same in both analyses. Therefore, no correction to this result was required.

Sample EN421031019 was analyzed at a 500-fold dilution, EN419031019 was analyzed at a 50-fold dilution, EN422031019 and EN407B031028 were analyzed at 20-fold dilutions, EN401031012, EN416B031012, EN412A031014, EN416B031028, and EN412A031028 were analyzed at 10-fold dilutions, and EN402031012, EN407A031012, and EN402031029 were analyzed at 2-fold dilutions to obtain concentrations of target analytes that were within the established instrument calibration range. No undiluted or less diluted analyses of these samples were reported.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

A few of the reported TICs were identified as specific isomers of various compounds by the laboratory. Structural isomers, which have very similar mass spectra, cannot be distinguished in the absence of calibration standards containing the reported compounds for retention time comparisons. In these cases, corrections to the TIC results were made by the validator to reflect an isomer of the reported compound (e.g., "methylnaphthalene isomer" in place of "1-methylnaphthalene"). In other cases, the identifications were revised

to reflect a more general compound class (e.g., "C3- benzene" in place of "1-ethyl-2-methylbenzene"); homologous compounds (e.g., substituted aromatics) also have very similar mass spectra, and definitive identifications of these compounds are also not possible without analysis of calibration standards under the same conditions for retention time and spectral comparisons. Corrections were made by the validator to the following nontarget analyte peaks:

- at 7.36, 9.23, and 10.96 minutes in EN412B031014
- at 2.16 minutes in EN412A031014
- at 2.16 minutes in EN412A031028

The "N" qualifiers applied by the laboratory to the above TICs to indicate that they are presumed present were removed by the validator.

A peak at 7.53 minutes in EN419031019 was identified as unknown and reported as a TIC. However, based on the mass spectra provided, this peak represented target compound 1,1,1-trichloroethane, which was appropriately reported as being present in the sample. This TIC peak was rejected (R) on this basis.

For EN412B031014, the identifications of the TIC peaks at 11.63 and 11.77 minutes were both corrected to unknown ether (from unknown butane). Based on the mass spectra provided, this identification is more appropriate.

"J" qualifiers were appropriately applied by the laboratory to all TIC results to indicate that the reported concentrations are estimated quantities. These qualifiers were not removed by the validator.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of all but two of the cooler temperatures and condition of all samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.

Many sample chromatograms were normalized to the large, early-eluting air peak, which made it difficult to distinguish the presence or absence of target analyte peaks in some cases. Therefore, it was assumed for validation purposes that all applicable target and nontarget analyte peaks present in each sample were appropriately reported by the laboratory.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

As noted in Section 6, results for isopropyl alcohol in all samples were rejected (R). All other data are acceptable as qualified or corrected by the validator.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 12/11/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: EKD **Number of Samples:** 76

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	76	76	3,648	2	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	1	76	1	3,648	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No. 0308821-0308827, 0308941-0308951, 0308967-0308970, 0308995, 0309115-0309126
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Elizabeth K. Dickinson **Date:** 12/11/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

The site sample analyses were performed between 9/22/03 and 10/3/03, which was within the 7-day technical holding time for all samples.

With the exception of the samples collected on 9/26/03, no information regarding the cooler temperatures or condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) records or elsewhere in the data package received for review. An acceptable cooler temperature of 1°C (QC ≤10°C) was recorded on the chain of custody record listing the 9/26/03 samples.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. All surrogate compound recoveries were within the method-specified acceptance limits of 80-120%.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Site sample END31030930 was prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120%.

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 15 RPD and were acceptable (laboratory QC ≤20 RPD).

Two blank spike/blank spike duplicate (BS/BSD) pairs were also prepared and analyzed with the site samples. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All %Rs were within the laboratory-established acceptance limits of 80 to 120%, and all RPDs between paired BS/BSD recoveries were less than the laboratory-specified maximum acceptance limit of 20 RPD.

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in all six LCS analyses were within these QC limits.

No qualification of the data is required for these criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

Six water-matrix laboratory method blanks were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were reported in any of these laboratory blanks.

Three trip blanks (ETB030922JAR, ETB030924JAR, and ETB030930JAR), three field blanks (EFB030922EN400A, EFB030924EN407B, and EFB030930EN409), and three equipment blanks (EEQ030922BALR, EEQ030924BALR, and EEQ030930MS) were analyzed for this SDG. No target analytes were detected in any of these field-submitted blanks. No TICs were reported in any of the field-submitted blanks except EEQ030930MS, in which a TIC at 6.81 minutes was reported. This TIC was not detected in any of the site samples associated with EEQ030930MS; therefore, no qualifiers were required based on equipment blank contamination.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP2." Seven instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean relative response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detect results may be qualified "R."

One Initial Calibration (ICAL) was analyzed on 9/18/03 in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICAL associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.041). Results for isopropyl alcohol in all of the samples in this data set were rejected (R) due to the unacceptably low RRF for this analyte in the ICAL.

An initial calibration verification (ICV) standard was analyzed on 9/19/03 after the ICAL. Recoveries of all target analytes in the ICV standard (90-110%) were acceptable.

Six Continuing Calibrations (CCALs) were analyzed in support of this SDG; these were run on 9/22/03, 9/25/03, 9/26/03, 9/30/03, 10/2/03, and 10/3/03. Complete documentation of the CCALs is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCALs associated with this SDG, all compounds meet the %D acceptance criterion, and all compounds meet the RRF criterion except isopropyl alcohol in all six CCALs (0.042-0.047). Results for isopropyl alcohol in all samples were previously rejected due to a similarly low response in the associated ICAL, and no additional qualifiers were applied based on the low CCAL responses.

Areas were manually integrated for one or more target compounds in several of the calibration standards in this data set. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is

outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets, including necessary adjustments for dilutions. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

"J" qualifiers were appropriately applied by the laboratory to denote target analyte concentrations below the sample-specific quantitation limits. These qualifiers were not removed by the validator. Since they were not applied by the validator, these qualifiers have not been reported on the applicable table on Page 7 of this report.

Samples EN412A030922, EN407B030924, and EN401030930 were analyzed at 10-fold dilutions, and EN403030930 and EN407A030930 were analyzed at 2-fold dilutions to obtain concentrations of target analytes that were within the established instrument calibration range. No undiluted or less diluted analyses of these samples were reported.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

Several of the reported TICs were identified as specific isomers of various compounds by the laboratory. Structural isomers, which have very similar mass spectra, cannot be distinguished in the absence of calibration standards containing the reported compounds for retention time comparisons. In these cases, corrections to the TIC results were made by the validator to reflect an isomer of the reported compound (e.g., "methylnaphthalene isomer" in place of "1-methylnaphthalene"). In other cases, the identifications were revised to reflect a more general compound class (e.g., "C3- benzene" in place of "1-ethyl-2-methylbenzene"); homologous compounds (e.g., substituted aromatics) also have very similar mass spectra, and definitive identifications of these compounds are also not possible without analysis of calibration standards under the same conditions for retention time and spectral comparisons. Corrections were made by the validator to the following nontarget analyte peaks:

- at 15.00 minutes in EN410030924
- at 7.36, 9.23, 10.97, and 11.77 minutes in EN412B030930
- at 2.16 minutes in EN409030930

The "N" qualifiers applied by the laboratory to the above TICs to indicate that they are presumed present were removed by the validator.

For EN412A030922, the identification of the TIC peak at 8.04 minutes was corrected to unknown (from unknown propane). Based on the mass spectra provided, a more definitive identification cannot be made for this peak.

For EN412B030930, the identification of the TIC peak at 11.63 minutes was corrected to unknown ether (from unknown butane). Based on the mass spectra provided, this identification is more appropriate.

For EEQ030930MS, the identification of the TIC peak at 6.81 minutes was corrected to unknown (from unknown propene). Based on the mass spectra provided, a more definitive identification cannot be made for this peak.

"J" qualifiers were appropriately applied by the laboratory to all TIC results to indicate that the reported concentrations are estimated quantities. These qualifiers were not removed by the validator.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of all but one of the cooler temperatures and condition of all samples on receipt at the laboratory was not included in the data package.
- Documentation to support the accuracy of the manual integrations was not provided in the data package.

Many sample chromatograms were normalized to the large, early-eluting air peak, which made it difficult to distinguish the presence or absence of target analyte peaks in some cases. Therefore, it was assumed for validation purposes that all applicable target and nontarget analyte peaks present in each sample were appropriately reported by the laboratory.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

As noted in Section 6, results for isopropyl alcohol in all samples were rejected (R). All other data are acceptable as qualified by the validator.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 12/9/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: EKD **Number of Samples:** 35

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	35	35	1,680	2	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	35	0	1,680	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

SUMMARY INTRODUCTION

SITE: Former IBM Endicott, New York Facility
CASE No.: 02007.33.0301
Laboratory ID No.: 0308672-0308698
LABORATORY: IBM Hudson Valley Environmental Laboratory

The samples were analyzed for volatile organic compounds (VOCs) by EPA SW-846 Method 8260B.

The data validation process is intended to evaluate data on a technical basis by comparing the data to the standards and criteria specified in the data evaluation document (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]). The data package was also subjected to an internal laboratory quality review prior to release to Groundwater Sciences Corporation and subsequently to Trillium, Inc., for data validation.

Details of the VOCs data validation findings are provided in the attached data validation summary. An overall assessment is provided below.

DATA ASSESSMENT

The current SOP No. HW-24 (Revision 1), June 1999, for Validation of Organic Data Acquired Using SW-846 Method 8260B (Rev. 2, Dec. 1996) has been applied.

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Elizabeth K. Dickinson **Date:** 12/11/03

DATA VALIDATION SUMMARY

1. HOLDING TIME:

If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbon analysis must be analyzed within 7 days of collection. If samples are preserved with acid to a pH of <2 and stored at 4°C, then aqueous samples must be analyzed within 14 days of collection.

All site sample analyses were performed on 9/17/03 and 9/18/03, which was within the 7-day technical holding time.

No information regarding the cooler temperatures or condition of the reported samples on receipt at the laboratory was provided on the chain of custody (COC) records or elsewhere in the data package received for review.

No qualification of the data is required for these criteria.

2. SURROGATES:

All samples were spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside method specifications, qualifications must be applied to the samples and analytes.

Surrogate compound recoveries were compared with the method specifications. All surrogate compound recoveries were within the method-specified acceptance limits of 80-120%.

3. SPIKE ANALYSES:

A. Matrix Spike/Spike Duplicate (MS/MSD)

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Site sample END31030914 was prepared as an MS/MSD pair for all target analytes. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All percent recoveries (%Rs) were within the laboratory-established acceptance limits of 80 to 120%, with the exception of dibromochloromethane (121% MS), methyl tertbutylether (127% MSD), and tetrahydrofuran (127% MSD). The high recoveries suggest the potential for false positives and/or for sample results that are biased high. Since these three analytes were not detected in END31030914 and one spike recovery was acceptable for each of these compounds, no qualifiers were applied based on the high MS or MSD recoveries.

Relative percent differences (RPDs) between paired MS/MSD recoveries were also correctly reported. These values ranged from 0 to 19 RPD and were acceptable (laboratory QC ≤20 RPD).

A blank spike/blank spike duplicate (BS/BSD) pair was also prepared and analyzed with the site samples. Acetone, isopropyl alcohol, and tetrahydrofuran were included in the spiking solution at 200 µg/L, and all other target analytes were spiked at 20 µg/L. All %Rs were within the laboratory-established acceptance limits of 80 to 120%, and all RPDs between paired BS/BSD recoveries were less than the laboratory-specified maximum acceptance limit of 20 RPD.

B. Laboratory Control Sample (LCS) Analyses

The LCS data are generated to determine the long term precision and accuracy of the analytical method in a matrix free of interferences. The LCS data may be used in conjunction with other QC criteria for additional qualification of data.

No LCS acceptance limits were reported by the laboratory; therefore, the acceptance limits of 70-130% specified by the validation SOP were applied. Percent recoveries for all target compounds in all three LCS analyses were within these QC limits.

No qualification of the data is required for these criteria.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, equipment, and field blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation, field activity or shipment. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Equipment and field blanks measure cross-contamination that may occur during field activities. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common laboratory contaminants), the analytes are qualified as non-detects, "U."

Three water-matrix laboratory method blanks and one water-matrix storage blank were analyzed for this SDG. No target analytes or tentatively identified compounds (TICs) were reported in any of these laboratory blanks. However, several late-eluting peaks were observed in the storage blank chromatogram; a handwritten notation on this page indicated that the peaks resulted from "carryover from previous sample." Site sample EN300A030915 was analyzed just prior to the storage blank, and several late-eluting hydrocarbon TICs were reported in this sample. It was assumed for validation purposes that the late-eluting peaks in the storage blank were attributable to the analytical system and that in actuality, no target or tentatively identified compounds were present in this blank at reportable concentrations (i.e., greater than the method detection limits for target compounds or areas greater than 10% of the nearest internal standard area for TICs).

Two trip blanks (ETB030914ETD and ETB030915ETD), two field blanks (EFB030914214B and EFB030915305), and two equipment blanks (EEQ030914BALR and EEQ030915SP) were analyzed for this SDG. No target analytes or TICs were detected in any of these field-submitted blanks.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances and if the mass calibration is in error, all associated data will be classified as unusable "R." The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

All samples for this SDG were analyzed on a single GC/MS instrument identified as "HP1." Four instrument performance check BFB standards were analyzed during the sample analysis times associated with this SDG. The criteria were met for these tunes, and no qualification of the data is required.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving

acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

The response factor measures the instrument's response to specific chemical compounds. The response factor for the VOCs must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates poor instrument sensitivity. Therefore, where the RF is < 0.05, analytes detected in a sample will be qualified as estimated, "J" and all non-detects for that compound will be rejected "R."

Percent Relative Standard Deviation (%RSD) is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent Difference (%D) compares the response factor of the continuing calibration check to the mean relative response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <15% and %D must be <20%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria, non-detect results may be qualified "R."

One Initial Calibration (ICAL) was analyzed on 9/5/03 in support of this SDG. Documentation of the ICAL standards is present in the data deliverables package and RRF as well as %RSD values were accurately reported. It should be noted that the data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the ICAL associated with this SDG, all compounds meet the %RSD acceptance criterion and all compounds meet the RRF acceptance criterion except isopropyl alcohol (0.042). Results for isopropyl alcohol in all of the samples in this data set were rejected (R) due to the unacceptably low RRF for this analyte in the ICAL.

An initial calibration verification (ICV) standard was analyzed on 9/5/03 after the ICAL. Recoveries of all target analytes in the ICV standard (90-110%) were acceptable.

Three Continuing Calibrations (CCALs) were analyzed in support of this SDG; these were run on 9/17/03 at 10:32, 9/17/03 at 22:18, and 9/18/03 at 10:41. Complete documentation of the CCALs is present in the data deliverables package, and RRFs as well as %Ds were accurately reported. As with the ICAL criteria, the CCAL data validation (technical review) criteria are different from those used in the method. Therefore, data may be acceptable to the laboratory according to the method criteria, but may be flagged by the validator. As per the technical review guidelines (SOP HW-24, Revision 1, June 1999 - EPA Region II Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B [Rev. 2, Dec. 1996]), the RRF criterion of "greater than or equal to 0.05" is applied to all volatile organic compounds. For the CCALs associated with this SDG, all compounds meet the %D acceptance criterion, and all compounds meet the RRF criterion except isopropyl alcohol in all three CCALs (0.040-0.044). Results for isopropyl alcohol in all samples were previously rejected due to a similarly low response in the associated ICAL, and no additional qualifiers were applied based on the low CCAL responses.

Areas were manually integrated for one or more target compounds in several of the calibration standards in this data set, and the area of internal standard compound 1,2-dichloroethane-d_4 was manually integrated in the 9/18/03 CCAL. Documentation of these integrations was not provided in the data package received for review; therefore, no evaluation of the accuracy of these integrations could be performed.

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J," and all non-detects as "UJ," or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 30 seconds, the reviewer may use professional judgement to determine either partial or total rejection of the data for that sample fraction.

All internal standard areas and retention times were within the acceptable limits for this SDG, therefore no data qualification is required for these criteria.

8. COMPOUND IDENTIFICATION:

Target compounds were identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. All reported VOCs were correctly identified with acceptable supporting mass spectra presented in the data deliverables package.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

Target compound concentrations and reported detection limits were correctly calculated and accurately reported on the volatile organic analysis data sheets, including necessary adjustments for dilutions. Results for the target compounds were appropriately calculated using the RRF from the associated ICAL.

"J" qualifiers were appropriately applied by the laboratory to denote target analyte concentrations below the sample-specific quantitation limits. These qualifiers were not removed by the validator. Since they were not applied by the validator, these qualifiers have not been reported on the applicable table on Page 7 of this report.

Sample EN303B030915 was analyzed at a 50-fold dilution, EN214B030914, EN401030914, and EN306A030915 were analyzed at 10-fold dilutions, and EN403030914, EN407A030914, EN311030915, EN302030915, EN306B030915, and EN214A030915 were analyzed at 2-fold dilutions to obtain concentrations of target analytes that were within the established instrument calibration range. Sample EN300A030915 was analyzed at a 2-fold dilution due to the fuel oil odor observed in this sample. No undiluted or less diluted analyses of these samples were reported.

10. TENTATIVELY IDENTIFIED COMPOUNDS (TICs):

Several of the reported TICs were identified as specific isomers of various compounds by the laboratory. Structural isomers, which have very similar mass spectra, cannot be distinguished in the absence of calibration standards containing the reported compounds for retention time comparisons. In these cases, corrections to the TIC results were made by the validator to reflect an isomer of the reported compound (e.g., "methylnaphthalene isomer" in place of "1-methylnaphthalene"). In other cases, the identifications were revised to reflect a more general compound class (e.g., "C3- benzene" in place of "1-ethyl-2-methylbenzene"); homologous compounds (e.g., substituted aromatics) also have very similar mass spectra, and definitive identifications of these compounds are also not possible without analysis of calibration standards under the same conditions for retention time and spectral comparisons. Corrections were made by the validator to the following nontarget analyte peaks:

- at 18.60 and 20.74 minutes in EN412B030914

- at 27.55, 28.30, 28.45, 28.77, 29.05, 29.71, 29.81, 29.99, 30.56, and 30.73 minutes in EN300A030915

The "N" qualifiers applied by the laboratory to the above TICs to indicate that they are presumed present were removed by the validator.

For EN412B030914, the identifications of the TIC peaks at 6.19 and 7.83 minutes were both corrected to unknown (from unknown butane in both cases). Based on the mass spectra provided, a more definitive identification cannot be made for either peak. The "N" qualifiers applied to both of these TIC peaks were removed by the validator.

For EN300A030915, the identification of the TIC peak at 30.37 minutes was corrected to unknown (from unknown benzene). Based on the mass spectra provided, a more definitive identification cannot be made for this peak.

"J" qualifiers were appropriately applied by the laboratory to all TIC results to indicate that the reported concentrations are estimated quantities. These qualifiers were not removed by the validator.

11. SYSTEM DOCUMENTATION AND OVERALL PERFORMANCE:

The documentation appears to be accurate and in order with the following exceptions:

- Documentation of the cooler temperatures and condition of the samples on receipt at the laboratory was not included in the data package.

- Documentation to support the accuracy of the manual integrations was not provided in the data package.

Sample chromatograms were normalized to the large, early-eluting air peak, which made it difficult to distinguish the presence or absence of target analyte peaks in some cases. Therefore, it was assumed for validation purposes that all applicable target and nontarget analyte peaks present in each sample were appropriately reported by the laboratory.

Based on the evaluation of the raw data, the analytical system was working well at the time of these analyses.

12. OTHER PROBLEMS:

No other problems with the data were noted during the review.

13. OVERALL ASSESSMENT:

As noted in Section 6, results for isopropyl alcohol in all samples were rejected (R). All other data are acceptable as qualified by the validator.

DATA REJECTION SUMMARY

Type of Review: CLP **Date:** 12/8/03 **Case No.:** 02007.33.0301

Site Name: Former IBM Endicott, New York Facility **Lab Name:** IBM Hudson Valley Environmental Laboratory

Reviewer's Initials: EKD **Number of Samples:** 27

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(48)	0	0	1	0	0	0	0	27	27	1,296	2	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(48)	0	0	0	0	0	0	0	27	0	1,296	0	%
ACID(14)									0	0	??	%
B/N(50)									0	0	??	%
PEST(21)									0	0	??	%
PCB(7)									0	0	??	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

APPENDIX C-5

Observation Well Chemistry for Constant-Rate Aquifer Tests
(November - December 2003)

Supplemental Groundwater Assessment
Observation Well Chemistry - EN-284TD Constant-Rate Aquifer Test

Mid-test: November 2003

Sample Location		EN-015	EN-017	EN-018	EN-019	EN-020	EN-024
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003
Laboratory Sample I.D.		0310824	0310825	0310826	0310827	0310829	0310823
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	5.1	2961	587	ND@200.0	221	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.53	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@500.0	1849	293	992	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
ACETONE	ug/l	ND@10.0	ND@5000.0	ND@500.0	ND@2000.0	ND@2000.0	ND@10.0
BENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - EN-284TD Constant-Rate Aquifer Test

Mid-test: November 2003

Sample Location		EN-015	EN-017	EN-018	EN-019	EN-020	EN-024
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003
Laboratory Sample I.D.		0310824	0310825	0310826	0310827	0310829	0310823
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	1.43	ND@500.0	1344	1024	5919	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
TETRACHLOROETHENE	ug/l	19.3	ND@500.0	ND@50.0	ND@200.0	ND@200.0	1.02
TETRAHYDROFURAN	ug/l	ND@10.0	ND@5000.0	ND@500.0	ND@2000.0	ND@2000.0	ND@10.0
TOLUENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
TRICHLOROETHENE	ug/l	10.7	ND@500.0	272	753	ND@200.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@500.0	ND@50.0	ND@200.0	ND@200.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@500.0	75.1	ND@200.0	715	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - EN-284TD Constant-Rate Aquifer Test

Mid-test: November 2003

Sample Location		EN-077	EN-094	EN-161	EN-192	EN-203	EN-215
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/11/2003	11/11/2003	11/12/2003	11/11/2003	11/11/2003	11/11/2003
Laboratory Sample I.D.		0310815	0310821	0310828	0310819	0310820	0310818
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,1,1-TRICHLOROETHANE	ug/l	33.6	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,1-DICHLOROETHANE	ug/l	104	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,1-DICHLOROETHENE	ug/l	11.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
ACETONE	ug/l	ND@100.0	ND@10.0	ND@200.0	ND@50.0	ND@10.0	ND@200.0
BENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
BROMOBENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
BROMOFORM	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
BROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
CHLOROBENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
CHLOROETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0

Supplemental Groundwater Assessment
Observation Well Chemistry - EN-284TD Constant-Rate Aquifer Test

Mid-test: November 2003

Sample Location		EN-077	EN-094	EN-161	EN-192	EN-203	EN-215
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/11/2003	11/11/2003	11/12/2003	11/11/2003	11/11/2003	11/11/2003
Laboratory Sample I.D.		0310815	0310821	0310828	0310819	0310820	0310818
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
CHLOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
CIS-1,2-DICHLOROETHENE	ug/l	258	ND@1.0	339	ND@5.0	ND@1.0	ND@20.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
ETHYLBENZENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
M,P-XYLENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
O-XYLENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
TETRACHLOROETHENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
TETRAHYDROFURAN	ug/l	ND@100.0	ND@10.0	ND@200.0	ND@50.0	ND@10.0	ND@200.0
TOLUENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
TRICHLOROETHENE	ug/l	119	2.23	32.8	48.8	6.8	128
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@1.0	ND@20.0	ND@5.0	ND@1.0	ND@20.0

Supplemental Groundwater Assessment
Observation Well Chemistry - EN-284TD Constant-Rate Aquifer Test

Mid-test: November 2003

Sample Location		EN-284	EN-301	EN-419	EN-421	EN-422
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/11/2003	11/12/2003	11/11/2003	11/11/2003	11/11/2003
Laboratory Sample I.D.		0310814	0310822	0310813	0310816	0310817
Sample Comment Codes		X	X	X	X	X
Parameter	**Units**					
Base/Neutral Extractables						
1,2,3-TRICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,2-DICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,3-DICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,4-DICHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
Volatile Organics						
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,1,1-TRICHLOROETHANE	ug/l	ND@50.0	ND@1.0	1873	ND@1000.0	ND@50.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,1,2-TRICHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,1-DICHLOROETHANE	ug/l	113	ND@1.0	1159	ND@1000.0	99.8
1,1-DICHLOROETHENE	ug/l	ND@50.0	ND@1.0	253	ND@1000.0	ND@50.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,2-DICHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
1,2-DICHLOROPROPANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
ACETONE	ug/l	ND@500.0	ND@10.0	ND@500.0	ND@10000.0	ND@500.0
BENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
BROMOBENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
BROMODICHLOROMETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
BROMOFORM	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
BROMOMETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
CARBON TETRACHLORIDE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
CHLOROBENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
CHLORODIBROMOMETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
CHLOROETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0

Supplemental Groundwater Assessment
Observation Well Chemistry - EN-284TD Constant-Rate Aquifer Test

Mid-test: November 2003

Sample Location		EN-284	EN-301	EN-419	EN-421	EN-422
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/11/2003	11/12/2003	11/11/2003	11/11/2003	11/11/2003
Laboratory Sample I.D.		0310814	0310822	0310813	0310816	0310817
Sample Comment Codes		X	X	X	X	X
Parameter	**Units**					
Volatile Organics						
CHLOROFORM	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
CHLOROMETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
CIS-1,2-DICHLOROETHENE	ug/l	508	ND@1.0	301	2294	927
CIS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
DIBROMOMETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
DICHLORODIFLUOROMETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
ETHYLBENZENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
M,P-XYLENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
METHYL T-BUTYL ETHER	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
METHYLENE CHLORIDE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
O-XYLENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
TETRACHLOROETHENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
TETRAHYDROFURAN	ug/l	ND@500.0	ND@10.0	ND@500.0	ND@10000.0	ND@500.0
TOLUENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
TRICHLOROETHENE	ug/l	737	ND@1.0	490	19417	156
TRICHLOROFLUOROMETHANE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	ND@50.0
VINYL CHLORIDE	ug/l	ND@50.0	ND@1.0	ND@50.0	ND@1000.0	210

Supplemental Groundwater Assessment
Observation Well Chemistry - EN-284TD Constant-Rate Aquifer Test

Mid-test: November 2003

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
X	Analytical data has not been validated by a third party.

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-015	EN-015	EN-017	EN-017	EN-018	EN-018
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311947	231647-4	0311958	231647-5	0311943	231647-6
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	1.57	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
NAPHTHALENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
STYRENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	6.1	6.1	49324 D	44000 D	144 JD	160 D
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	1.28	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.50	2.4	ND@1.0	79	10.8	10
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.37 J	1.1	1534 JD	1400 D	2810 D	2500 D
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	2432 D	3300 D	19.8	20
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	0.48 J	ND@1.0	0.51 J	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	28.2	18	33.3	18
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	86	15.2	16
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	0.32 J	1.9	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-015	EN-015	EN-017	EN-017	EN-018	EN-018
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311947	231647-4	0311958	231647-5	0311943	231647-6
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
ACETONE	ug/l	ND@10.0	NA	ND@10.0	NA	50.4	NA
BENZENE	ug/l	ND@1.0	ND@1.0	0.45 J	0.50 J	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	2.60	ND@1.0	0.42 J	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	2.26	1.6	29.1	27
CHLOROFORM	ug/l	ND@1.0	ND@1.0	16.8	14	ND@1.0	1.6
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	1.71	1.8	ND@1.0	1300 D	388 D	340 D
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.52 J	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	NA	8.4	NA	ND@1.0	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	1125 JD	170	2.77	2.8
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-015	EN-015	EN-017	EN-017	EN-018	EN-018
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311947	231647-4	0311958	231647-5	0311943	231647-6
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TETRACHLOROETHENE	ug/l	19.7	19	51.7	42	9.4	9.4
TETRAHYDROFURAN	ug/l	ND@10.0	NA	ND@10.0	NA	ND@10.0	NA
TOLUENE	ug/l	ND@1.0	ND@1.0	0.19 J	ND@1.0	0.23 J	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	3.99	ND@1.0	1.50	1.7
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	12.3	11	155	93	167 D	170 D
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	40.5	40	155 JD	220 D

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-019	EN-019	EN-020	EN-020	EN-024	EN-024
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311944	231647-7	0311946	231647-8	0311945	231647-9
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@10	NA	7.8	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	0.62 J	ND@10	7.5	8.5	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@10	NA	2.7	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@1.0	0.84 J	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
NAPHTHALENE	ug/l	NA	ND@10	NA	0.98 J	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	ND@10	NA	0.74 J	NA	ND@1.0
STYRENE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	164	180	ND@1.0	1000 D	ND@1.0	0.55 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@10	0.99 J	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	6.1	ND@10	ND@1.0	21	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	699 D	650 D	745 JD	980	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	44.3 E	45	160	170	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	0.71 J	ND@10	3.37	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	14.4	9.2 J	55.0 E	45	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	7.4	10	19.5	27	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-019	EN-019	EN-020	EN-020	EN-024	EN-024
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311944	231647-7	0311946	231647-8	0311945	231647-9
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
2,2-DICHLOROPROPANE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
ACETONE	ug/l	ND@10.0	NA	819 E	NA	ND@10.0	NA
BENZENE	ug/l	ND@1.0	ND@10	0.16 J	5.1	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@10	2.82	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	0.70 J	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@10	ND@1.0	1.8	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	10.3	11	142 E	250	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@10	25.8	21	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	3231 D	3400 D	11983 D	16000	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	2.49	ND@10	1.94	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	0.41 J	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	0.74 J	ND@10	3.97	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0
M,P-XYLENE	ug/l	0.75 J	ND@10	8.8	12	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	5.9	NA	8.5	NA	ND@1.0	NA
METHYLENE CHLORIDE	ug/l	2.35	ND@10	ND@1.0	160	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	ND@10	NA	1.6	NA	ND@1.0
O-XYLENE	ug/l	1.23	ND@10	5.1	8.1	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	ND@10	NA	0.68 J	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	ND@10	NA	ND@1.0	NA	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-019	EN-019	EN-020	EN-020	EN-024	EN-024
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311944	231647-7	0311946	231647-8	0311945	231647-9
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TETRACHLOROETHENE	ug/l	38.8	40	20.1	20	2.19	2.7
TETRAHYDROFURAN	ug/l	ND@10.0	NA	ND@10.0	NA	ND@10.0	NA
TOLUENE	ug/l	0.31 J	ND@10	16.5	20	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	1.75	ND@10	5.2	3.9	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	5093 D	4400 D	13272 D	15000 D	ND@1.0	0.96 J
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@10	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	106 J	190	307 JD	810 D	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-077	EN-077	EN-094	EN-094	EN-161	EN-161
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311941	231647-10	0311962	231647-11	0311954	231647-12
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
HEXACHLOROBUTADIENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
NAPHTHALENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
N-PROPYLBENZENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
STYRENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1,1-TRICHLOROETHANE	ug/l	27.8	31	1.19	1.1	ND@1.0	ND@20
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1-DICHLOROETHANE	ug/l	150 D	120	ND@1.0	ND@1.0	0.27 J	ND@20
1,1-DICHLOROETHENE	ug/l	13.4	14	ND@1.0	ND@1.0	ND@1.0	ND@20
1,1-DICHLOROPROPENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,2-DIBROMOETHANE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.54	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,2-DICHLOROETHANE	ug/l	0.64 J	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
1,3-DICHLOROPROPANE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-077	EN-077	EN-094	EN-094	EN-161	EN-161
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311941	231647-10	0311962	231647-11	0311954	231647-12
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
2,2-DICHLOROPROPANE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
2-CHLOROTOLUENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
4-CHLOROTOLUENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
ACETONE	ug/l	ND@10.0	NA	ND@10.0	NA	ND@10.0	NA
BENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	0.35 J	ND@20
BROMOBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
BROMOCHLOROMETHANE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
BROMOFORM	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
BROMOMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLOROBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLOROETHANE	ug/l	0.89 J	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLOROFORM	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CHLOROMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
CIS-1,2-DICHLOROETHENE	ug/l	351 D	280 E	ND@1.0	ND@1.0	479 D	480 D
CIS-1,3-DICHLOROPROPENE	ug/l	9.4	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
DIBROMOMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
ETHYLBENZENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
ISOPROPYLBENZENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
M,P-XYLENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
METHYL T-BUTYL ETHER	ug/l	7.3	NA	ND@1.0	NA	0.69 J	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
N-BUTYLBENZENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
O-XYLENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
SEC-BUTYLBENZENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20
TERT-BUTYLBENZENE	ug/l	NA	ND@5.0	NA	ND@1.0	NA	ND@20

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-077	EN-077	EN-094	EN-094	EN-161	EN-161
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311941	231647-10	0311962	231647-11	0311954	231647-12
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TETRACHLOROETHENE	ug/l	2.71	3.0 J	ND@1.0	ND@1.0	3.67	ND@20
TETRAHYDROFURAN	ug/l	ND@10.0	NA	ND@10.0	NA	ND@10.0	NA
TOLUENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
TRANS-1,2-DICHLOROETHENE	ug/l	0.82 J	ND@5.0	ND@1.0	ND@1.0	1.26	ND@20
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
TRICHLOROETHENE	ug/l	150 D	110	2.27	2.0	34.6	33
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@5.0	ND@1.0	ND@1.0	ND@1.0	ND@20
VINYL CHLORIDE	ug/l	6.0	6.7	ND@1.0	ND@1.0	9.4	12 J

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-192	EN-192	EN-203	EN-203	EN-215	EN-215
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311940	231647-13	0311960	231647-14	0311959	231647-15
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	0.51 J
NAPHTHALENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
STYRENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	3.56	5.4	ND@1.0	0.83 J	9.0	10
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.61 J	0.99 J	ND@1.0	ND@1.0	1.19	1.4
1,1-DICHLOROETHENE	ug/l	0.45 J	0.70 J	ND@1.0	ND@1.0	1.22	1.3
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-192	EN-192	EN-203	EN-203	EN-215	EN-215
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311940	231647-13	0311960	231647-14	0311959	231647-15
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
ACETONE	ug/l	ND@10.0	NA	ND@10.0	NA	ND@10.0	NA
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.49 J	0.62 J
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	3.31	5.2	ND@1.0	ND@1.0	13.8	16
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	NA	ND@1.0	NA	ND@1.0	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@1.0	NA	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-192	EN-192	EN-203	EN-203	EN-215	EN-215
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311940	231647-13	0311960	231647-14	0311959	231647-15
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	20.6	20
TETRAHYDROFURAN	ug/l	ND@10.0	NA	ND@10.0	NA	ND@10.0	NA
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	64.7 D	53 D	3.49	5.2	165 D	130 D
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	0.13 J	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-276	EN-276	EN-284	EN-284	EN-301	EN-301
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/17/2003	12/17/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311933	231647-16	0311964	231647-17	0311961	231647-18
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
HEXACHLOROBUTADIENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
NAPHTHALENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
N-PROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
STYRENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	9.4	10	22.7	22	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	1.17 J	2.0	3.49	3.1 J	ND@1.0	2.1
1,1,2-TRICHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	1.77 J	1.4	39.0	39	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	0.74 J	1.2	5.4	5.3	ND@1.0	ND@1.0
1,1-DICHLOROPROPENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,2-DIBROMOETHANE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.42 J	ND@1.0	1.78	ND@5.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@2.0	ND@1.0	0.29 J	ND@5.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
1,3-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-276	EN-276	EN-284	EN-284	EN-301	EN-301
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/17/2003	12/17/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311933	231647-16	0311964	231647-17	0311961	231647-18
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
2,2-DICHLOROPROPANE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
2-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
4-CHLOROTOLUENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
ACETONE	ug/l	ND@20.0	NA	ND@10.0	NA	ND@10.0	NA
BENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
BROMOCHLOROMETHANE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	2.73	2.9	197 D	170 D	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
ISOPROPYLBENZENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@2.0	NA	0.79 J	NA	ND@1.0	NA
METHYLENE CHLORIDE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
N-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
O-XYLENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
SEC-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0
TERT-BUTYLBENZENE	ug/l	NA	ND@1.0	NA	ND@5.0	NA	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-276	EN-276	EN-284	EN-284	EN-301	EN-301
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/17/2003	12/17/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311933	231647-16	0311964	231647-17	0311961	231647-18
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TETRACHLOROETHENE	ug/l	6.3	6.3	39.6	36	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@20.0	NA	ND@10.0	NA	ND@10.0	NA
TOLUENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	2.74	2.7	200 D	150 D	1.52	1.3
TRICHLOROFLUOROMETHANE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	1.14	ND@1.0
VINYL CHLORIDE	ug/l	ND@2.0	ND@1.0	ND@1.0	ND@5.0	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-419	EN-419	EN-421	EN-421	EN-422	EN-422
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311957	231647-19	0311956	231647-20	0311942	231647-21
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
1,2,4-TRIMETHYLBENZENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
1,2-DICHLOROBENZENE	ug/l	1.85	ND@50	0.62 J	ND@100	ND@1.0	ND@20
1,3,5-TRIMETHYLBENZENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
HEXACHLOROBUTADIENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
NAPHTHALENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
N-PROPYLBENZENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
STYRENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
1,1,1-TRICHLOROETHANE	ug/l	2612 D	2400 E	293 E	570	18.6	22
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	64.1 E	58	20.3	ND@100	0.58 J	ND@20
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
1,1-DICHLOROETHANE	ug/l	510 D	530	498 JD	530	100 D	84
1,1-DICHLOROETHENE	ug/l	228	310	76.0 E	85 J	36.4	31
1,1-DICHLOROPROPENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@50	0.51 J	ND@100	ND@1.0	ND@20
1,2-DIBROMOETHANE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	5.9	ND@50	10.3	ND@100	1.22	ND@20
1,2-DICHLOROETHANE	ug/l	27.2	30 J	4.62	ND@100	0.77 J	ND@20
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
1,3-DICHLOROPROPANE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-419	EN-419	EN-421	EN-421	EN-422	EN-422
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311957	231647-19	0311956	231647-20	0311942	231647-21
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
2,2-DICHLOROPROPANE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
2-CHLOROTOLUENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
4-CHLOROTOLUENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
ACETONE	ug/l	11.2	NA	ND@10.0	NA	ND@10.0	NA
BENZENE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
BROMOBENZENE	ug/l	0.53 J	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
BROMOCHLOROMETHANE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
BROMOFORM	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
BROMOMETHANE	ug/l	ND@1.0	ND@50	1.91	ND@100	ND@1.0	ND@20
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
CHLOROBENZENE	ug/l	0.82 J	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
CHLOROETHANE	ug/l	ND@1.0	ND@50	9.7	ND@100	3.12	ND@20
CHLOROFORM	ug/l	ND@1.0	ND@50	26.8	ND@100	ND@1.0	ND@20
CHLOROMETHANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
CIS-1,2-DICHLOROETHENE	ug/l	319	380	ND@1.0	3300	ND@1.0	730 D
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@50	4.66	ND@100	ND@1.0	ND@20
DIBROMOMETHANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
DICHLORODIFLUOROMETHANE	ug/l	0.94 J	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
ETHYLBENZENE	ug/l	ND@1.0	ND@50	0.74 J	ND@100	0.21 J	ND@20
ISOPROPYLBENZENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
M,P-XYLENE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
METHYL T-BUTYL ETHER	ug/l	5.6	NA	5.5	NA	1.86	NA
METHYLENE CHLORIDE	ug/l	4.09	ND@50	10.0	ND@100	ND@1.0	ND@20
N-BUTYLBENZENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
O-XYLENE	ug/l	ND@1.0	ND@50	3.69	ND@100	0.32 J	ND@20
SEC-BUTYLBENZENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20
TERT-BUTYLBENZENE	ug/l	NA	ND@50	NA	ND@100	NA	ND@20

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests
End of Test: December 2003 (PRELIMINARY DATA)

Sample Location		EN-419	EN-419	EN-421	EN-421	EN-422	EN-422
Sample Description		GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE	GROUNDWATER	REPLICATE
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311957	231647-19	0311956	231647-20	0311942	231647-21
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
TETRACHLOROETHENE	ug/l	50.8 E	54	52.0 E	ND@100	3.55	ND@20
TETRAHYDROFURAN	ug/l	ND@10.0	NA	ND@10.0	NA	ND@10.0	NA
TOLUENE	ug/l	ND@1.0	ND@50	0.25 J	ND@100	0.48 J	ND@20
TRANS-1,2-DICHLOROETHENE	ug/l	1.48	ND@50	2.28	ND@100	1.35	ND@20
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
TRICHLOROETHENE	ug/l	ND@100.0	730	34221	11000 E	151 D	130
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@50	ND@1.0	ND@100	ND@1.0	ND@20
VINYL CHLORIDE	ug/l	9.0	ND@50	46.6	68 J	165 D	200

Supplemental Groundwater Assessment
Observation Well Chemistry - Constant-Rate Aquifer Tests

End of Test: December 2003 (PRELIMINARY DATA)

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
D	Compound identified at a secondary dilution factor.
E	Concentration exceeds the linear calibration range of the analytical equipment.
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit.

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-206T	EN-206T	EN-206T	EN-206T	EN-206T	EN-206T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/24/2003	11/25/2003	11/26/2003	12/01/2003	12/02/2003	12/03/2003
Laboratory Sample I.D.		0311303	0311306	0311309	0311402	0311441	0311597
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,1,1-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	5.7	ND@10.0	ND@10.0	ND@10.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
ACETONE	ug/l	ND@100.0	ND@100.0	ND@10.0	ND@100.0	ND@100.0	ND@100.0
BENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
BROMOBENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
BROMOFORM	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
BROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
CHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
CHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-206T	EN-206T	EN-206T	EN-206T	EN-206T	EN-206T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/24/2003	11/25/2003	11/26/2003	12/01/2003	12/02/2003	12/03/2003
Laboratory Sample I.D.		0311303	0311306	0311309	0311402	0311441	0311597
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
CHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
CIS-1,2-DICHLOROETHENE	ug/l	14.5	14.5	13.3	ND@10.0	11.9	12.1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
ETHYLBENZENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
M,P-XYLENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
O-XYLENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
TETRACHLOROETHENE	ug/l	ND@10.0	ND@10.0	4.76	ND@10.0	ND@10.0	ND@10.0
TETRAHYDROFURAN	ug/l	ND@100.0	ND@100.0	ND@10.0	ND@100.0	ND@100.0	ND@100.0
TOLUENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
TRICHLOROETHENE	ug/l	129	131	131	100.0	114	123
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@1.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-206T	EN-206T	EN-206T	EN-214T	EN-214T	EN-214T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/04/2003	12/05/2003	12/08/2003	11/13/2003	11/14/2003	11/15/2003
Laboratory Sample I.D.		0311600	0311606	0311636	0310952	0310960	0310963
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,1-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
ACETONE	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0
BENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-206T	EN-206T	EN-206T	EN-214T	EN-214T	EN-214T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/04/2003	12/05/2003	12/08/2003	11/13/2003	11/14/2003	11/15/2003
Laboratory Sample I.D.		0311600	0311606	0311636	0310952	0310960	0310963
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CIS-1,2-DICHLOROETHENE	ug/l	12.1	11.7	11.1	21.4	29.7	30.9
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
ETHYLBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
M,P-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
O-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TETRACHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	10.1	ND@10.0
TETRAHYDROFURAN	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0
TOLUENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRICHLOROETHENE	ug/l	131	130	143	96.3	110	110
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-214T	EN-214T	EN-214T	EN-214T	EN-214T	EN-214T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/16/2003	11/17/2003	11/18/2003	11/19/2003	11/20/2003	11/21/2003
Laboratory Sample I.D.		0310953	0310964	0311010	0311128	0311129	0311135
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,1-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
ACETONE	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0
BENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-214T	EN-214T	EN-214T	EN-214T	EN-214T	EN-214T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/16/2003	11/17/2003	11/18/2003	11/19/2003	11/20/2003	11/21/2003
Laboratory Sample I.D.		0310953	0310964	0311010	0311128	0311129	0311135
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CIS-1,2-DICHLOROETHENE	ug/l	30.4	35.0	36.3	40.2	42.9	40.9
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
ETHYLBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
M,P-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
O-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TETRACHLOROETHENE	ug/l	ND@10.0	10.2	11.4	11.6	11.7	11.1
TETRAHYDROFURAN	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0
TOLUENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRICHLOROETHENE	ug/l	123	124	128	138	142	137
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-214T	EN-214T	EN-214T	EN-214T	EN-214T	EN-214T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/22/2003	11/23/2003	11/24/2003	11/25/2003	11/26/2003	11/28/2003
Laboratory Sample I.D.		0311136	0311137	0311302	0311305	0311308	0311388
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,1-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
ACETONE	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0
BENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-214T	EN-214T	EN-214T	EN-214T	EN-214T	EN-214T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/22/2003	11/23/2003	11/24/2003	11/25/2003	11/26/2003	11/28/2003
Laboratory Sample I.D.		0311136	0311137	0311302	0311305	0311308	0311388
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CIS-1,2-DICHLOROETHENE	ug/l	33.5	39.2	42.2	44.6	44.9	44.9
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
ETHYLBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
M,P-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
O-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TETRACHLOROETHENE	ug/l	ND@10.0	11.0	11.6	11.8	11.7	11.6
TETRAHYDROFURAN	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0
TOLUENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRICHLOROETHENE	ug/l	108	132	140	146	145	144
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-214T	EN-214T	EN-214T	EN-214T	EN-214T	EN-214T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/01/2003	12/02/2003	12/03/2003	12/04/2003	12/05/2003	12/08/2003
Laboratory Sample I.D.		0311401	0311440	0311595	0311599	0311605	0311635
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,1-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
ACETONE	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0
BENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-214T	EN-214T	EN-214T	EN-214T	EN-214T	EN-214T
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/01/2003	12/02/2003	12/03/2003	12/04/2003	12/05/2003	12/08/2003
Laboratory Sample I.D.		0311401	0311440	0311595	0311599	0311605	0311635
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
CIS-1,2-DICHLOROETHENE	ug/l	34.6	39.6	39.0	40.6	40.1	43.1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
ETHYLBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
M,P-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
O-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TETRACHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	10.3	ND@10.0	10.8
TETRAHYDROFURAN	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0
TOLUENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TRICHLOROETHENE	ug/l	119	127	126	132	124	135
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-214T	EN-214T	EN-214T	EN-214T	EN-214T	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/09/2003	12/10/2003	12/11/2003	12/12/2003	12/15/2003	11/07/2003
Laboratory Sample I.D.		0311679	0311754	0311756	0311819	0311893	0310631
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,1,1-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	59.1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,1-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	129
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
ACETONE	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@500.0
BENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
BROMOBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
BROMOFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
BROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
CHLOROBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
CHLOROETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-214T	EN-214T	EN-214T	EN-214T	EN-214T	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/09/2003	12/10/2003	12/11/2003	12/12/2003	12/15/2003	11/07/2003
Laboratory Sample I.D.		0311679	0311754	0311756	0311819	0311893	0310631
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
CHLOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
CIS-1,2-DICHLOROETHENE	ug/l	43.7	43.3	41.1	39.0	45.4	655
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
ETHYLBENZENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
M,P-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
O-XYLENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
TETRACHLOROETHENE	ug/l	12.0	10.4	10.2	ND@10.0	10.8	ND@50.0
TETRAHYDROFURAN	ug/l	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@100.0	ND@500.0
TOLUENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
TRICHLOROETHENE	ug/l	138	135	129	126	141	1100
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@10.0	ND@50.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/08/2003	11/09/2003	11/10/2003	11/11/2003	11/12/2003	11/12/2003
Laboratory Sample I.D.		0310632	0310633	0310681	0310682	0310683	0310832
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,3-DICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,4-DICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1,1-TRICHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1,2-TRICHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1-DICHLOROETHANE	ug/l	93.1	92.7	79.6	91.0	82.9	100
1,1-DICHLOROETHENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLOROPROPANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
ACETONE	ug/l	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0
BENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
BROMOBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
BROMODICHLOROMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
BROMOFORM	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
BROMOMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CARBON TETRACHLORIDE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CHLORODIBROMOMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/08/2003	11/09/2003	11/10/2003	11/11/2003	11/12/2003	11/12/2003
Laboratory Sample I.D.		0310632	0310633	0310681	0310682	0310683	0310832
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CHLOROMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CIS-1,2-DICHLOROETHENE	ug/l	462	475	462	450	403	538
CIS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
DIBROMOMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
DICHLORODIFLUOROMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
ETHYLBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
M,P-XYLENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
METHYL T-BUTYL ETHER	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
METHYLENE CHLORIDE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
O-XYLENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TETRACHLOROETHENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TETRAHYDROFURAN	ug/l	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0
TOLUENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TRICHLOROETHENE	ug/l	750	701	660	612	507	671
TRICHLOROFLUOROMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
VINYL CHLORIDE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/14/2003	11/15/2003	11/16/2003	11/17/2003	11/18/2003	11/25/2003
Laboratory Sample I.D.		0310961	0310962	0310956	0310965	0311009	0311304
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,3-DICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,4-DICHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1,1-TRICHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1,2-TRICHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,1-DICHLOROETHANE	ug/l	117	115	97.0	117	125	135
1,1-DICHLOROETHENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
1,2-DICHLOROPROPANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
ACETONE	ug/l	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0
BENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
BROMOBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
BROMODICHLOROMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
BROMOFORM	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
BROMOMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CARBON TETRACHLORIDE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CHLOROBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CHLORODIBROMOMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CHLOROETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/14/2003	11/15/2003	11/16/2003	11/17/2003	11/18/2003	11/25/2003
Laboratory Sample I.D.		0310961	0310962	0310956	0310965	0311009	0311304
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CHLOROMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
CIS-1,2-DICHLOROETHENE	ug/l	588	547	504	535	535	592
CIS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
DIBROMOMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
DICHLORODIFLUOROMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
ETHYLBENZENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
M,P-XYLENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
METHYL T-BUTYL ETHER	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
METHYLENE CHLORIDE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
O-XYLENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TETRACHLOROETHENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TETRAHYDROFURAN	ug/l	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0
TOLUENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
TRICHLOROETHENE	ug/l	689	580	560	551	547	558
TRICHLOROFLUOROMETHANE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0
VINYL CHLORIDE	ug/l	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/26/2003	11/28/2003	12/01/2003	12/02/2003	12/03/2003	12/04/2003
Laboratory Sample I.D.		0311307	0311387	0311400	0311439	0311596	0311598
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,1,1-TRICHLOROETHANE	ug/l	38.5	ND@50.0	ND@50.0	ND@50.0	ND@50.0	10.8
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,1-DICHLOROETHANE	ug/l	111	118	87.8	104	120	37.7
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
ACETONE	ug/l	ND@100.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@100.0
BENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
BROMOBENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
BROMOFORM	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
BROMOMETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
CHLOROBENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
CHLOROETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0

Supplemental Groundwater Assessment
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Sample Location		EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		11/26/2003	11/28/2003	12/01/2003	12/02/2003	12/03/2003	12/04/2003
Laboratory Sample I.D.		0311307	0311387	0311400	0311439	0311596	0311598
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
CHLOROMETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
CIS-1,2-DICHLOROETHENE	ug/l	506	493	385	388	438	81.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
ETHYLBENZENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
M,P-XYLENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
O-XYLENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
TETRACHLOROETHENE	ug/l	39.2	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
TETRAHYDROFURAN	ug/l	ND@100.0	ND@500.0	ND@500.0	ND@500.0	ND@500.0	ND@100.0
TOLUENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
TRICHLOROETHENE	ug/l	490	487	399	404	422	49.7
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@50.0	ND@50.0	ND@50.0	ND@50.0	ND@10.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
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Sample Location		EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/05/2003	12/08/2003	12/09/2003	12/10/2003	12/11/2003	12/12/2003
Laboratory Sample I.D.		0311604	0311634	0311678	0311753	0311755	0311820
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,2-DICHLOROBENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,3-DICHLOROBENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,4-DICHLOROBENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,1,1-TRICHLOROETHANE	ug/l	12.7	42.5	47.6	43.3	46.7	45.7
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,1,2-TRICHLOROETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,1-DICHLOROETHANE	ug/l	46.9	121	129	124	128	123
1,1-DICHLOROETHENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,2-DICHLOROETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
1,2-DICHLOROPROPANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
ACETONE	ug/l	ND@100.0	ND@200.0	ND@200.0	ND@200.0	ND@200.0	ND@200.0
BENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
BROMOBENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
BROMODICHLOROMETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
BROMOFORM	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
BROMOMETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
CARBON TETRACHLORIDE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
CHLOROBENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
CHLORODIBROMOMETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
CHLOROETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location		EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/05/2003	12/08/2003	12/09/2003	12/10/2003	12/11/2003	12/12/2003
Laboratory Sample I.D.		0311604	0311634	0311678	0311753	0311755	0311820
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
CHLOROMETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
CIS-1,2-DICHLOROETHENE	ug/l	99.1	515	506	500	513	472
CIS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
DIBROMOMETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
DICHLORODIFLUOROMETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
ETHYLBENZENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
M,P-XYLENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
METHYL T-BUTYL ETHER	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
METHYLENE CHLORIDE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
O-XYLENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
TETRACHLOROETHENE	ug/l	ND@10.0	39.3	52.1	42.5	44.0	41.5
TETRAHYDROFURAN	ug/l	ND@100.0	ND@200.0	ND@200.0	ND@200.0	ND@200.0	ND@200.0
TOLUENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
TRICHLOROETHENE	ug/l	56.0	428	465	440	453	438
TRICHLOROFLUOROMETHANE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0
VINYL CHLORIDE	ug/l	ND@10.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0	ND@20.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location	EN-284TD
Sample Description	GROUNDWATER
Sample Date	12/15/2003
Laboratory Sample I.D.	0311892
Sample Comment Codes	X

Parameter	**Units**	
Base/Neutral Extractables		
1,2,3-TRICHLOROBENZENE	ug/l	ND@20.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@20.0
1,2-DICHLOROBENZENE	ug/l	ND@20.0
1,3-DICHLOROBENZENE	ug/l	ND@20.0
1,4-DICHLOROBENZENE	ug/l	ND@20.0
Volatile Organics		
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@20.0
1,1,1-TRICHLOROETHANE	ug/l	46.7
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@20.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@20.0
1,1,2-TRICHLOROETHANE	ug/l	ND@20.0
1,1-DICHLOROETHANE	ug/l	119
1,1-DICHLOROETHENE	ug/l	ND@20.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@20.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@20.0
1,2-DICHLOROETHANE	ug/l	ND@20.0
1,2-DICHLOROPROPANE	ug/l	ND@20.0
ACETONE	ug/l	ND@200.0
BENZENE	ug/l	ND@20.0
BROMOBENZENE	ug/l	ND@20.0
BROMODICHLOROMETHANE	ug/l	ND@20.0
BROMOFORM	ug/l	ND@20.0
BROMOMETHANE	ug/l	ND@20.0
CARBON TETRACHLORIDE	ug/l	ND@20.0
CHLOROBENZENE	ug/l	ND@20.0
CHLORODIBROMOMETHANE	ug/l	ND@20.0
CHLOROETHANE	ug/l	ND@20.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location	EN-284TD
Sample Description	GROUNDWATER
Sample Date	12/15/2003
Laboratory Sample I.D.	0311892
Sample Comment Codes	X

Parameter	**Units**	
Volatile Organics		
CHLOROFORM	ug/l	ND@20.0
CHLOROMETHANE	ug/l	ND@20.0
CIS-1,2-DICHLOROETHENE	ug/l	495
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20.0
DIBROMOMETHANE	ug/l	ND@20.0
DICHLORODIFLUOROMETHANE	ug/l	ND@20.0
ETHYLBENZENE	ug/l	ND@20.0
M,P-XYLENE	ug/l	ND@20.0
METHYL T-BUTYL ETHER	ug/l	ND@20.0
METHYLENE CHLORIDE	ug/l	ND@20.0
O-XYLENE	ug/l	ND@20.0
TETRACHLOROETHENE	ug/l	43.8
TETRAHYDROFURAN	ug/l	ND@200.0
TOLUENE	ug/l	ND@20.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@20.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20.0
TRICHLOROETHENE	ug/l	454
TRICHLOROFLUOROMETHANE	ug/l	ND@20.0
VINYL CHLORIDE	ug/l	ND@20.0

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location	EN-214T
Sample Description	GROUNDWATER
Sample Date	12/16/2003
Laboratory Sample I.D.	231625-2
Sample Comment Codes	X

Parameter	**Units**		
Base/Neutral Extractables			
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	
1,2,4-TRIMETHYLBENZENE	ug/l	ND@1.0	
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	ND@1.0	
1,2-DICHLOROBENZENE	ug/l	ND@1.0	
1,3,5-TRIMETHYLBENZENE	ug/l	ND@1.0	
1,3-DICHLOROBENZENE	ug/l	ND@1.0	
1,4-DICHLOROBENZENE	ug/l	ND@1.0	
HEXACHLOROBUTADIENE	ug/l	ND@1.0	
NAPHTHALENE	ug/l	ND@1.0	
N-PROPYLBENZENE	ug/l	ND@1.0	
STYRENE	ug/l	ND@1.0	
Volatile Organics			
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	
1,1,1-TRICHLOROETHANE	ug/l	5.7	
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	
1,1-DICHLOROETHANE	ug/l	0.72	J
1,1-DICHLOROETHENE	ug/l	0.58	J
1,1-DICHLOROPROPENE	ug/l	ND@1.0	
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	
1,2-DIBROMOETHANE	ug/l	ND@1.0	
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	0.74	J
1,2-DICHLOROETHANE	ug/l	ND@1.0	
1,2-DICHLOROPROPANE	ug/l	ND@1.0	
1,3-DICHLOROPROPANE	ug/l	ND@1.0	

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests
November - December 2003

Sample Location	EN-214T
Sample Description	GROUNDWATER
Sample Date	12/16/2003
Laboratory Sample I.D.	231625-2
Sample Comment Codes	X

Parameter	**Units**		
Volatile Organics			
2,2-DICHLOROPROPANE	ug/l	ND@1.0	
2-CHLOROTOLUENE	ug/l	ND@1.0	
4-CHLOROTOLUENE	ug/l	ND@1.0	
BENZENE	ug/l	ND@1.0	
BROMOBENZENE	ug/l	ND@1.0	
BROMOCHLOROMETHANE	ug/l	ND@1.0	
BROMODICHLOROMETHANE	ug/l	ND@1.0	
BROMOFORM	ug/l	ND@1.0	
BROMOMETHANE	ug/l	ND@1.0	
CARBON TETRACHLORIDE	ug/l	0.81	J
CHLOROBENZENE	ug/l	ND@1.0	
CHLORODIBROMOMETHANE	ug/l	ND@1.0	
CHLOROETHANE	ug/l	ND@1.0	
CHLOROFORM	ug/l	ND@1.0	
CHLOROMETHANE	ug/l	ND@1.0	
CIS-1,2-DICHLOROETHENE	ug/l	34	
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	
DIBROMOMETHANE	ug/l	ND@1.0	
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	
ETHYLBENZENE	ug/l	ND@1.0	
ISOPROPYLBENZENE	ug/l	ND@1.0	
M,P-XYLENE	ug/l	ND@1.0	
METHYLENE CHLORIDE	ug/l	ND@1.0	
N-BUTYLBENZENE	ug/l	ND@1.0	
O-XYLENE	ug/l	ND@1.0	
SEC-BUTYLBENZENE	ug/l	ND@1.0	
TERT-BUTYLBENZENE	ug/l	ND@1.0	
TETRACHLOROETHENE	ug/l	9.6	
TOLUENE	ug/l	ND@1.0	

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests

November - December 2003

Sample Location	EN-214T
Sample Description	GROUNDWATER
Sample Date	12/16/2003
Laboratory Sample I.D.	231625-2
Sample Comment Codes	X

Parameter	**Units**		
Volatile Organics			
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	
TRICHLOROETHENE	ug/l	120	D
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	
VINYL CHLORIDE	ug/l	ND@1.0	

Supplemental Groundwater Assessment
Pumping Well Chemistry - Constant-Rate Aquifer Tests

November - December 2003

Explanation of Reporting Conventions and Key to Comment Codes

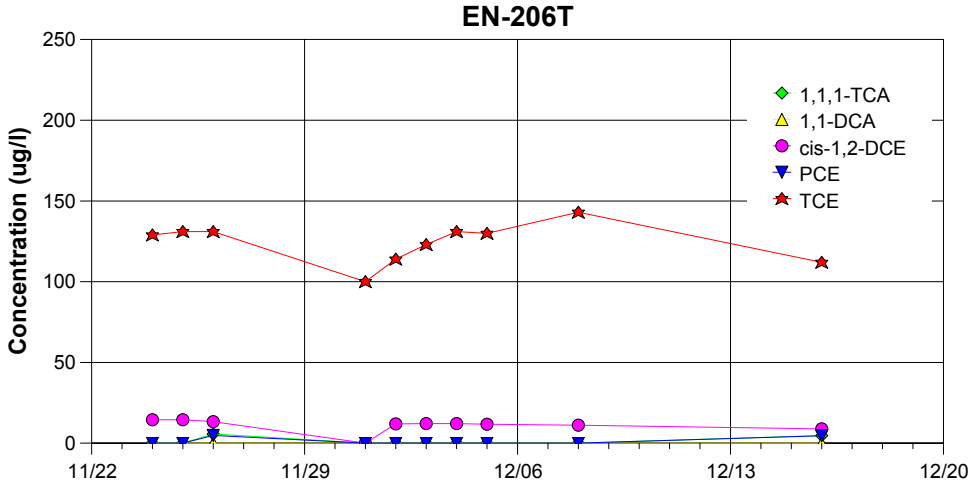
Reporting Conventions

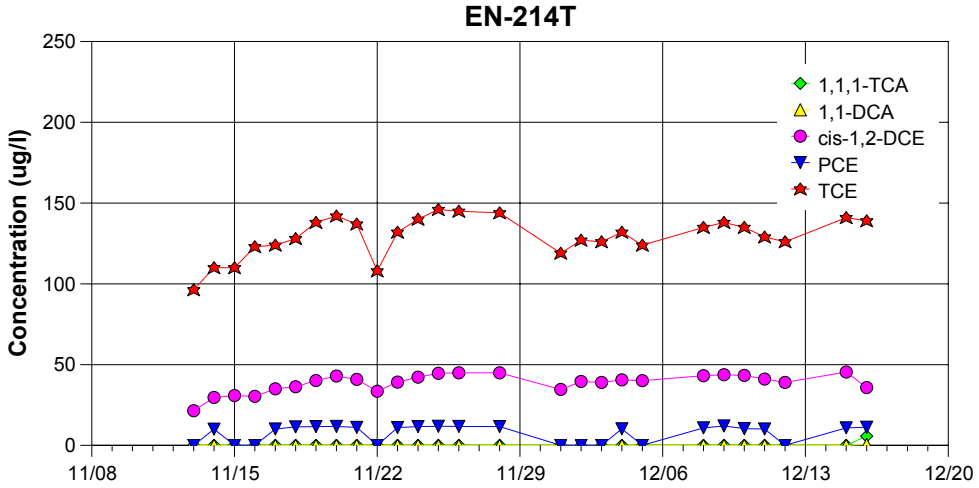
NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

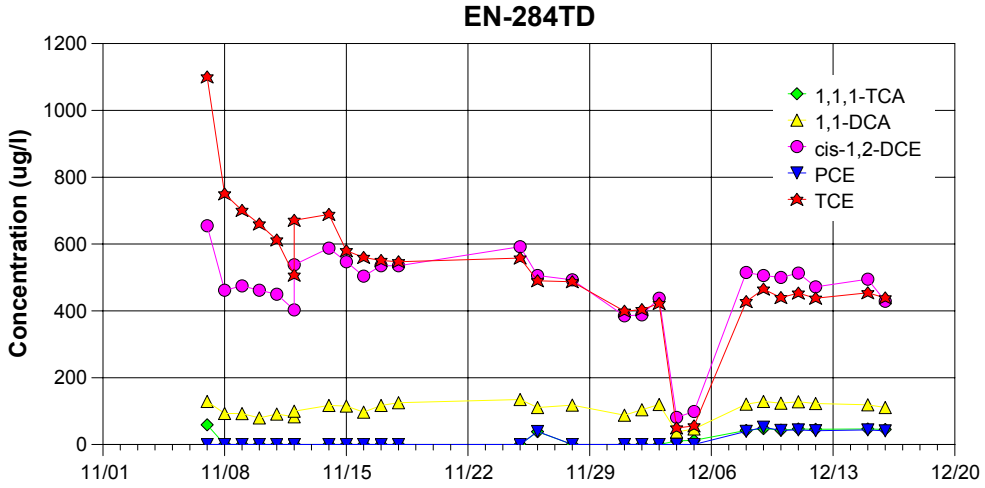
Code	Explanation
D	Compound identified at a secondary dilution factor.
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit.
X	Analytical data has not been validated by a third party.

Supplemental Groundwater Assessment

Concentration vs. Time - Aquifer Test Wells







APPENDIX C-6

Groundwater Analytical Data
for Transformation Indicator Parameters
(October and December 2003)

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples
October 2003

Sample Location		EN-018	EN-019	EN-020	EN-021	EN-206	EN-208A
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/14/2003	10/14/2003	10/14/2003	10/14/2003	10/14/2003	10/14/2003
Laboratory Sample I.D.		0309603	0309602	0309600	0309599	0309594	0309590
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,2-DICHLOROBENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,3-DICHLOROBENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,4-DICHLOROBENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,1,1-TRICHLOROETHANE	ug/l	349	54.8 J	127	10271	4.30 J	1.15 J
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,1,2-TRICHLOROETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,1-DICHLOROETHANE	ug/l	2032	189 J	392	3525 J	ND@10.0	ND@2.0
1,1-DICHLOROETHENE	ug/l	78.2 J	ND@500.0	40.6 J	1682 J	ND@10.0	ND@2.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@200.0	ND@500.0	31.5 J	ND@5000.0	ND@10.0	ND@2.0
1,2-DICHLOROETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
1,2-DICHLOROPROPANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
ACETONE	ug/l	ND@2000.0	ND@5000.0	ND@1000.0	ND@50000.0	ND@100.0	ND@20.0
BENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
BROMOBENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
BROMODICHLOROMETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
BROMOFORM	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
BROMOMETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
CARBON TETRACHLORIDE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
CHLOROBENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
CHLORODIBROMOMETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
CHLOROETHANE	ug/l	ND@200.0	ND@500.0	88.9 J	ND@5000.0	ND@10.0	ND@2.0

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples
October 2003

Sample Location		EN-018	EN-019	EN-020	EN-021	EN-206	EN-208A
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/14/2003	10/14/2003	10/14/2003	10/14/2003	10/14/2003	10/14/2003
Laboratory Sample I.D.		0309603	0309602	0309600	0309599	0309594	0309590
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
CHLOROMETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
CIS-1,2-DICHLOROETHENE	ug/l	5877	1509	1909	61717	14.5	0.45 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
DIBROMOMETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
DICHLORODIFLUOROMETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
ETHYLBENZENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
M,P-XYLENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
METHYL T-BUTYL ETHER	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
METHYLENE CHLORIDE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
O-XYLENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
TETRACHLOROETHENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	6.8 J	ND@2.0
TETRAHYDROFURAN	ug/l	ND@2000.0	ND@5000.0	ND@1000.0	ND@50000.0	ND@100.0	ND@20.0
TOLUENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
TRICHLOROETHENE	ug/l	1798	2585	40.2 J	ND@5000.0	89.6	49.6
TRICHLOROFLUOROMETHANE	ug/l	ND@200.0	ND@500.0	ND@100.0	ND@5000.0	ND@10.0	ND@2.0
VINYL CHLORIDE	ug/l	223	ND@500.0	249	2023 J	ND@10.0	ND@2.0

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples
October 2003

Sample Location		EN-214A	EN-214B	EN-283	EN-284	EN-309A	EN-309B
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/21/2003	10/21/2003	10/14/2003	10/14/2003	10/14/2003	10/14/2003
Laboratory Sample I.D.		0309782	0309783	0309595	0309596	0309593	0309592
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Base/Neutral Extractables							
1,2,3-TRICHLOROBENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
Volatile Organics							
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	1.72 J	6.3 J	1.27	33.8 J	1.33	1.74
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2.0	ND@10.0	0.17 J	ND@50.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	107	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@20.0	ND@100.0	ND@10.0	ND@500.0	ND@10.0	ND@10.0
BENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
BROMOBENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples
October 2003

Sample Location		EN-214A	EN-214B	EN-283	EN-284	EN-309A	EN-309B
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		10/21/2003	10/21/2003	10/14/2003	10/14/2003	10/14/2003	10/14/2003
Laboratory Sample I.D.		0309782	0309783	0309595	0309596	0309593	0309592
Sample Comment Codes		X	X	X	X	X	X
Parameter	**Units**						
Volatile Organics							
CHLOROFORM	ug/l	0.39 J	ND@10.0	ND@1.0	ND@50.0	0.17 J	ND@1.0
CHLOROMETHANE	ug/l	ND@2.0	ND@10.0	0.53 J	ND@50.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	1.66 J	32.8	0.32 J	569	1.24	0.28 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
O-XYLENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
TETRACHLOROETHENE	ug/l	3.83	15.2	4.75	6.8 J	12.6	6.9
TETRAHYDROFURAN	ug/l	ND@20.0	ND@100.0	ND@10.0	ND@500.0	ND@10.0	ND@10.0
TOLUENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	0.10 J	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	61.7	130	7.8	506	7.4	10.3
TRICHLOROFLUOROMETHANE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@2.0	ND@10.0	ND@1.0	ND@50.0	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples
October 2003

Sample Location		EN-309C
Sample Description		GROUNDWATER
Sample Date		10/14/2003
Laboratory Sample I.D.		0309591
Sample Comment Codes		X
Parameter	**Units**	
Base/Neutral Extractables		
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0
Volatile Organics		
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	1.33
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.20 J
1,1-DICHLOROETHENE	ug/l	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0
ACETONE	ug/l	ND@10.0
BENZENE	ug/l	ND@1.0
BROMOBENZENE	ug/l	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0
BROMOFORM	ug/l	ND@1.0
BROMOMETHANE	ug/l	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0
CHLOROETHANE	ug/l	ND@1.0

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples
October 2003

Sample Location		EN-309C
Sample Description		GROUNDWATER
Sample Date		10/14/2003
Laboratory Sample I.D.		0309591
Sample Comment Codes		X
Parameter	**Units**	
Volatile Organics		
CHLOROFORM	ug/l	0.97 J
CHLOROMETHANE	ug/l	0.42 J
CIS-1,2-DICHLOROETHENE	ug/l	0.54 J
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0
M,P-XYLENE	ug/l	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0
O-XYLENE	ug/l	ND@1.0
TETRACHLOROETHENE	ug/l	5.8
TETRAHYDROFURAN	ug/l	ND@10.0
TOLUENE	ug/l	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0
TRICHLOROETHENE	ug/l	2.66
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0
VINYL CHLORIDE	ug/l	ND@1.0

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples

October 2003

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit.
X	Analytical data has not been validated by a third party.

Supplemental Groundwater Assessment
Transformation Indicator Parameters - Monitoring Wells

Parameter	Date	10/14/03	10/14/03	10/14/03	10/14/03	10/14/03	10/14/03	10/21/03	10/21/03	10/14/03	10/14/03	10/14/03	10/14/03	10/14/03
	Well	EN-018	EN-019	EN-020	EN-021	EN-206	EN-208A	EN-214A	EN-214B	EN-283	EN-284	EN-309A	EN-309B	EN-309C
	Units													
Alkalinity, total	mg/L	256	193	269	353	325	300	639	334	507	394	1380	282	284
Ammonia as N (Undistilled)	mg/L	0.34	0.58	0.46	1.18	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
Hardness, total	mg/L	390	426	797	486	579	468	1450	812	862	1200	1310	443	463
Total Dissolved Solids	mg/L	1128	1326	2346	1067	1194	621	543	1624	406	4961	915	791	931
Chloride	mg/L	464	525	940	344	444	124	135	640	28.3	2640	253	223	302
Nitrate as Nitrogen	mg/L	1.212	0.401	2.387	0.350	4.525	6.943	5.924	4.037	0.508	4.762	7.016	5.883	5.799
Dissolved Oxygen*	mg/L	4.4	3.1	2.7	2.0	5.5	6.9	5.3	5.2	3.7	2.1	6.8	6.9	3.2
Sulfate	mg/L	47.2	67.5	72.7	4.67	37.2	25.5	18.4	60.5	26.8	181	28.4	26.2	28.6
Calcium, total	mg/L	156	156	280	185	156	132	226	224	183	434	284	138	139
Calcium, dissolved	mg/L	151	169	276	182	160	143	120	223	31.8	449	141	136	134
Iron, total	mg/L	1.212	3.338	10.4	18.1	0.738	31.2	62.8	15.7	106	1.021	37.6	1.819	0.207
Iron, ferrous*	mg/L	0.04	0.64	>3.0	>3.0	0.05	0.08	>3.0	0.31	>3.0	0.03	0.26	0.02	0.02
Magnesium, total	mg/L	16.9	17.7	34.5	16.3	25.1	25.1	66.2	38.2	38.4	60.2	68.2	24.4	25.5
Magnesium, dissolved	mg/L	16.4	18.9	35.4	16.1	24.1	26.5	17.6	32.8	2.93	59.3	24.3	23.6	25.2
Manganese, total	mg/L	1.932	0.755	1.631	0.926	0.016	0.213	2.305	1.019	2.542	0.280	1.288	0.072	0.020
Manganese, dissolved	mg/L	0.181	0.706	1.619	0.901	<0.005	0.013	0.017	0.090	0.047	0.246	<0.005	0.007	0.011
Potassium	mg/L	3.2	4.22	11.8	3.85	2.81	2.4	5.7	3.2	12.7	11.3	4.71	2.02	1.83
Sodium	mg/L	327	308	464	246	267	34.1	44.7	242	114	1810	85.4	90.4	132
Total Organic Carbon**	mg/L	8.65	2.72	19.0	24.2	1.45	1.37	1.86	2.42	4.85	2.88	3.01	1.01	1.02
Sulfide, total	mg/L	1.32	1.20	1.16	1.32	1.32	1.48	1.92	2.97	1.80	1.08	1.36	1.48	1.60
pH*	SU	7.10	7.03	6.56	6.54	6.8	6.58	7.31	7.02	7.77	6.67	6.76	6.77	7.05
Spec. Cond.*	umhos/cm	2180	2390	388	2050	2210	1050	940	2580	718	844	1600	1452	1630
Turbidity*	NTU	27.6	67.3	22.6	60.9	23.4	325	>1000	1000	>1000	28.5	>1000	74.9	21.8

* Field Measurement
** Average of four measurements

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples
Village of Endicott Water Supply and Monitoring Wells

Sample Location		EN#28	EN#5	MW-1	MW-2
Sample Description		SUPPLY WELL	SUPPLY WELL	VIL MON WELL	VIL MON WELL
Sample Date		12/17/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311951	0311948	0311938	0311949
Sample Comment Codes		X	X	X	X
Parameter	**Units**				
Base/Neutral Extractables					
1,2,3-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,4-TRICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
Volatile Organics					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	0.27 J	1.16	1.27	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2,3-TRICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	0.58 J	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ACETONE	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0
BENZENE	ug/l	ND@1.0	ND@1.0	0.75 J	ND@1.0
BROMOBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMODICHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples
Village of Endicott Water Supply and Monitoring Wells

Sample Location		EN#28	EN#5	MW-1	MW-2
Sample Description		SUPPLY WELL	SUPPLY WELL	VIL MON WELL	VIL MON WELL
Sample Date		12/17/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311951	0311948	0311938	0311949
Sample Comment Codes		X	X	X	X
Parameter	**Units**				
Volatile Organics					
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	1.25	2.67	6.3	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
M,P-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYL T-BUTYL ETHER	ug/l	ND@1.0	ND@1.0	5.9	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
O-XYLENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TETRAHYDROFURAN	ug/l	ND@10.0	ND@10.0	ND@10.0	ND@10.0
TOLUENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1.0	0.33 J	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	0.61 J
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	1.12	ND@1.0

Supplemental Groundwater Assessment
Groundwater Analytical Data - Transformation Indicator Samples

Village of Endicott Water Supply and Monitoring Wells

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit.
X	Analytical data has not been validated by a third party.

Supplemental Groundwater Assessment
Transformation Indicator Parameters - Village Wells
PRELIMINARY DATA

Parameter	Date	12/16/03	12/17/03	12/16/03	12/16/03
	Well	EN#5**	EN#28**	MW-1	MW-2
	Units				
Alkalinity, total	mg/L	250	227	466	71
Ammonia as N (Undistilled)	mg/L	0.27	0.23	8.26	0.13
Hardness, total	mg/L	360	354	768	624
Total Dissolved Solids	mg/L	492	475	1562	1138
Chloride	mg/L	99.6	NA	57	275
Nitrate as Nitrogen	mg/L	<0.014	<0.014	<0.014	5.021
Dissolved Oxygen*	mg/L	4.3	6.7	3.0	5.9
Sulfate	mg/L	32.1	29.2	14.0	47.0
Calcium, total	mg/L	102	110	232	175
Calcium, dissolved	mg/L	110	108	202	191
Iron, total	mg/L	0.722	0.640	40.8	9.394
Iron, ferrous*	mg/L	0.95	0.25	>3.0	0.09
Magnesium, total	mg/L	17.4	16.9	34.2	28.1
Magnesium, dissolved	mg/L	17.8	16.6	30.4	28.6
Manganese, total	mg/L	0.771	0.649	4.210	0.318
Manganese, dissolved	mg/L	0.79	0.71	4.915	<0.005
Potassium	mg/L	NA	NA	NA	NA
Sodium	mg/L	47.7	50.0	244	110
Total Organic Carbon	mg/L	NA	NA	NA	NA
Sulfide, total	mg/L	<0.10	<0.10	<0.10	<0.10
pH*	SU	6.80	7.07	6.07	6.81
Spec. Cond.*	umhos/cm	878	844	2490	1660
Turbidity*	NTU	1.07	17.5	398	339

* Field Measurement
** Phosphate was being injected continuously at the time of sampling; sample results from EN#5 and EN#28 reflect this activity.
NA = Data not available as of 12/30/03

APPENDIX C-7

Groundwater Analytical Data from Aquifer Test Pumping Wells
(December 16, 2003)

Supplemental Groundwater Assessment
Groundwater Analytical Data - Aquifer Test Pumping Wells
December 16, 2003 (Final Samples)

Sample Location		EN-206T	EN-214T	EN-214T	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311891	0311888	231625-2	0311884
Sample Comment Codes		X	X	X	X
Parameter	**Units**				
Alcohols, Acetates, Aldehydes, Ketones					
ISOPROPANOL	ug/l	ND@100	ND@10	NA	ND@200
METHYL BUTYL KETONE	ug/l	ND@10	ND@1	NA	ND@20
METHYL ETHYL KETONE	ug/l	ND@20	ND@2	NA	ND@40
METHYL ISOBUTYL KETONE	ug/l	ND@10	ND@1	NA	ND@20
N-BUTYL ACETATE	ug/l	ND@20	ND@2	NA	ND@40
VINYL ACETATE	ug/l	ND@20	ND@2	NA	ND@40
Base/Neutral Extractables					
1,2,3-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA
1,2,4-TRICHLOROBENZENE	ug/l	NA	NA	ND@1.0	NA
1,2,4-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA
1,2-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
1,3,5-TRIMETHYLBENZENE	ug/l	NA	NA	ND@1.0	NA
1,3-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
1,4-DICHLOROBENZENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
HEXACHLOROBUTADIENE	ug/l	NA	NA	ND@1.0	NA
NAPHTHALENE	ug/l	NA	NA	ND@1.0	NA
N-PROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA
STYRENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
Volatile Organics					
1,1,1,2-TETRACHLOROETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
1,1,1-TRICHLOROETHANE	ug/l	5 J	6	5.7	45
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
1,1,2-TRICHLOROETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
1,1-DICHLOROETHANE	ug/l	ND@10	0.6 J	0.72 J	110

Supplemental Groundwater Assessment
Groundwater Analytical Data - Aquifer Test Pumping Wells
December 16, 2003 (Final Samples)

Sample Location		EN-206T	EN-214T	EN-214T	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311891	0311888	231625-2	0311884
Sample Comment Codes		X	X	X	X
Parameter	**Units**				
Volatile Organics					
1,1-DICHLOROETHENE	ug/l	ND@10	0.4 J	0.58 J	11 J
1,1-DICHLOROPROPENE	ug/l	NA	NA	ND@1.0	NA
1,2,3-TRICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA
1,2-DIBROMOETHANE	ug/l	NA	NA	ND@1.0	NA
1,2-DICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@10	0.5 J	0.74 J	ND@20
1,2-DICHLOROETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
1,2-DICHLOROPROPANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
1,3-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA
2,2-DICHLOROPROPANE	ug/l	NA	NA	ND@1.0	NA
2-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA
4-CHLOROTOLUENE	ug/l	NA	NA	ND@1.0	NA
ACETONE	ug/l	ND@100	ND@10	NA	ND@200
BENZENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
BROMOBENZENE	ug/l	NA	NA	ND@1.0	NA
BROMOCHLOROMETHANE	ug/l	NA	NA	ND@1.0	NA
BROMODICHLOROMETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
BROMOFORM	ug/l	ND@20	ND@2	ND@1.0	ND@40
BROMOMETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
CARBON DISULFIDE	ug/l	ND@10	ND@1	NA	ND@20
CARBON TETRACHLORIDE	ug/l	ND@10	ND@1	0.81 J	ND@20
CHLOROBENZENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
CHLORODIBROMOMETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
CHLOROETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
CHLOROFORM	ug/l	ND@10	ND@1	ND@1.0	ND@20
CHLOROMETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
CIS-1,2-DICHLOROETHENE	ug/l	9 J	36 D	34	430
CIS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@2	ND@1.0	ND@40
DIBROMOMETHANE	ug/l	NA	NA	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20

Supplemental Groundwater Assessment
Groundwater Analytical Data - Aquifer Test Pumping Wells
December 16, 2003 (Final Samples)

Sample Location		EN-206T	EN-214T	EN-214T	EN-284TD
Sample Description		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
Sample Date		12/16/2003	12/16/2003	12/16/2003	12/16/2003
Laboratory Sample I.D.		0311891	0311888	231625-2	0311884
Sample Comment Codes		X	X	X	X
Parameter	**Units**				
Volatile Organics					
ETHYLBENZENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
ISOPROPYLBENZENE	ug/l	NA	NA	ND@1.0	NA
M,P-XYLENE	ug/l	ND@20	ND@2	ND@1.0	ND@40
METHYL T-BUTYL ETHER	ug/l	ND@10	ND@1	NA	ND@20
METHYLENE CHLORIDE	ug/l	ND@10	ND@1	ND@1.0	ND@20
N-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA
O-XYLENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
SEC-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA
TERT-BUTYLBENZENE	ug/l	NA	NA	ND@1.0	NA
TETRACHLOROETHENE	ug/l	5 J	11	9.6	41
TETRAHYDROFURAN	ug/l	ND@100	ND@10	NA	ND@200
TOLUENE	ug/l	ND@10	ND@1	ND@1.0	ND@20
TRANS-1,2-DICHLOROETHENE	ug/l	ND@10	0.2 J	ND@1.0	ND@20
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@20	ND@2	ND@1.0	ND@40
TRICHLOROETHENE	ug/l	110	140 D	120 D	440
TRICHLOROFLUOROMETHANE	ug/l	ND@10	ND@1	ND@1.0	ND@20
VINYL CHLORIDE	ug/l	ND@10	ND@1	ND@1.0	ND@20

Supplemental Groundwater Assessment
Groundwater Analytical Data - Aquifer Test Pumping Wells

December 16, 2003 (Final Samples)

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Code	Explanation
D	Compound identified at a secondary dilution factor.
J	Estimated value - compound meets identification criteria, but result is less than the reporting limit.
X	Analytical data has not been validated by a third party.

APPENDIX C-8

Total Organic Carbon Reports for Upper Aquifer Soil Samples

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Certificate of Analysis

July 28, 2003

Mr. Chuck Rine
Groundwater Science Corp
2601 Market Place Street
Suite 310
Harrisburg, PA 17110

Lab ID#: **239437**

Project Name: **Endicott SGA**

PO#: 02007.33.0301

This report relates only to the sample(s) as received by the laboratory. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

Qualifier Flags - These flags may follow individual results for a specific analyte

- U - Indicates that the analyte was not detected
- J - Indicates an estimated value between method detection limit and the practical quantitation limit for the analyte
- E - Indicates an estimated value outside of the calibration range of the analysis
- B - Indicates that the analyte was found in the method blank associated with the sample

A result of ND indicates that the analyte was Not Detected at the Reporting Detection Limit (RDL).

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If you have any questions in reference to this laboratory report, please contact your ALSI project coordinator or the laboratory manager listed at the bottom of this report at 717-944-5541.

Note: This document is included as part of the Analytical Report and must be retained as a permanent record thereof.

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Raymond J. Martrano
Laboratory Manager

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Certificate of Analysis

July 28, 2003

Mr. Chuck Rine
Groundwater Science Corp
2601 Market Place Street
Suite 310
Harrisburg, PA 17110

Lab ID #: **239437001**
Received: 07/08/03 13:50
Discard: 08/11/03

Page: 1 Of 1

Project Name: **Endicott SGA**

PO#: 02007.33.0301

Sample ID: **EN-217A 40-42**
Date Collected: 06/26/03 00:00

Matrix: Solid
Collected by: Mr. David Reusswig

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By
WET CHEMISTRY							
Moisture	14.7	%	0.1	SM18-2540 G	07/09/03 15:10		AL
Total Organic Carbon (TOC)	747	mg/kg	526	SW846 9060	07/21/03 08:00	07/21/03	KMW
Total Solids [1]	85.3	%	0.1	SM18-2540 G	07/09/03 15:10		AL

Comments:
No collection time is available to determine the holding time for this sample.

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1 - This sample was received at the laboratory after the holding time for total solids had expired. AGM 7/15/03

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Laboratory Manager

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Harrisburg, PA 17110

Lab ID #: **239437002**
Received: 07/08/03 13:50
Discard: 08/11/03

Page: 1 Of 1

Project Name: **Endicott SGA**

PO#: 02007.33.0301

Sample ID: **EN-308 32-34**
Date Collected: 06/18/03 00:00

Matrix: Solid
Collected by: Mr. David Reusswig

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By
WET CHEMISTRY							
Moisture	20.1	%	0.1	SM18-2540 G	07/09/03 15:10		AL
Total Organic Carbon (TOC) [1]	759	mg/kg	593	SW846 9060	07/21/03 08:00	07/21/03	KMW
Total Solids [2]	79.9	%	0.1	SM18-2540 G	07/09/03 15:10		AL

Comments:

No collection time is available to determine the holding time for this sample.

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1 - Analyte was analyzed past the 28 day holding time.
2 - This sample was received at the laboratory after the holding time for total solids had expired. AGM 7/15/03

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Laboratory Manager

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Groundwater Science Corp
2601 Market Place Street
Suite 310
Harrisburg, PA 17110

Lab ID #: **239437003**
Received: 07/08/03 13:50
Discard: 08/11/03

Page: 1 Of 1

Project Name: **Endicott SGA**

PO#: 02007.33.0301

Sample ID: **EN-306B 40-42**
Date Collected: 07/02/03 00:00

Matrix: Solid
Collected by: Mr. David Reusswig

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By
WET CHEMISTRY							
Moisture	21.0	%	0.1	SM18-2540 G	07/09/03 15:10		AL
Total Organic Carbon (TOC)	ND	mg/kg	553	SW846 9060	07/21/03 08:00	07/21/03	KMW
Total Solids	79.0	%	0.1	SM18-2540 G	07/09/03 15:10		AL

Comments:

No collection time is available to determine the holding time for this sample.

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Groundwater Science Corp
2601 Market Place Street
Suite 310
Harrisburg, PA 17110

Lab ID #: **239437004**
Received: 07/08/03 13:50
Discard: 08/11/03

Page: 1 Of 1

Project Name: **Endicott SGA**

PO#: 02007.33.0301

Sample ID: **EN-213A 38-40**
Date Collected: 06/27/03 00:00

Matrix: Solid
Collected by: Mr. David Reusswig

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By
WET CHEMISTRY							
Moisture	12.2	%	0.1	SM18-2540 G	07/09/03 15:10		AL
Total Organic Carbon (TOC)	ND	mg/kg	1090	SW846 9060	07/21/03 08:00	07/21/03	KMW
Total Solids [1]	87.8	%	0.1	SM18-2540 G	07/09/03 15:10		AL

Comments:
No collection time is available to determine the holding time for this sample.

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July 28, 2003

Mr. Chuck Rine
Groundwater Science Corp
2601 Market Place Street
Suite 310
Harrisburg, PA 17110

Lab ID #: 239437005
Received: 07/08/03 13:50
Discard: 08/11/03

Page: 1 Of 1

Project Name: **Endicott SGA**

PO#: 02007.33.0301

Sample ID: **EN-309 26-28**
Date Collected: 06/19/03 00:00

Matrix: Solid
Collected by: Mr. David Reusswig

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By
WET CHEMISTRY							
Moisture	11.7	%	0.1	SM18-2540 G	07/09/03 15:10		AL
Total Organic Carbon (TOC) [1]	1600	mg/kg	513	SW846 9060	07/21/03 08:00	07/21/03	KMW
Total Solids [2]	88.3	%	0.1	SM18-2540 G	07/09/03 15:10		AL

Comments:

No collection time is available to determine the holding time for this sample.

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1 - Analyte was analyzed past the 28 day holding time.
2 - This sample was received at the laboratory after the holding time for total solids had expired. AGM 7/15/03

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Certificate of Analysis

July 28, 2003

Mr. Chuck Rine
Groundwater Science Corp
2601 Market Place Street
Suite 310
Harrisburg, PA 17110

Lab ID #: **239437006**
Received: 07/08/03 13:50
Discard: 08/11/03

Page: 1 Of 1

Project Name: **Endicott SGA**

PO#: 02007.33.0301

Sample ID: **EN-208A 36-37**
Date Collected: 07/01/03 00:00

Matrix: Solid
Collected by: Mr. David Reusswig

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By
WET CHEMISTRY							
Moisture	11.0	%	0.1	SM18-2540 G	07/09/03 15:10		AL
Total Organic Carbon (TOC)	ND	mg/kg	513	SW846 9060	07/21/03 08:00	07/21/03	KMW
Total Solids [1]	89.0	%	0.1	SM18-2540 G	07/09/03 15:10		AL

Comments:

No collection time is available to determine the holding time for this sample.

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Certificate of Analysis

July 28, 2003

Mr. Chuck Rine
Groundwater Science Corp
2601 Market Place Street
Suite 310
Harrisburg, PA 17110

Lab ID #: **239437007**
Received: 07/08/03 13:50
Discard: 08/11/03

Page: 1 Of 1

Project Name: **Endicott SGA**

PO#: 02007.33.0301

Sample ID: **EN-208A 38-40**
Date Collected: 07/01/03 00:00

Matrix: Solid
Collected by: Mr. David Reusswig

Analysis Parameter	Result	Units	RDL	Method	Completed	Prep Date	By
WET CHEMISTRY							
Moisture	22.3	%	0.1	SM18-2540 G	07/09/03 15:10		AL
Total Organic Carbon (TOC)	1020	mg/kg	578	SW846 9060	07/21/03 08:00	07/21/03	KMW
Total Solids [1]	77.7	%	0.1	SM18-2540 G	07/09/03 15:10		AL

Comments:

No collection time is available to determine the holding time for this sample.

RECEIVED
JUL 30 2003
Groundwater Sciences

1 - This sample was received at the laboratory after the holding time for total solids had expired. AGM 7/15/03

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Laboratory Manager

ANALYTICAL LABORATORY SERVICES, INC.
Environmental + Industrial Hygiene + Food Science

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Middletown, PA 17057
TEL: 717-944-5541
FAX: 717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Please print. See back of COC for directions

COC #: 239437

Sample Date: See below

Client Name: Groundwater Sciences
Address: 2601 Market Place St, #310
Harrisburg, PA 17110
Contact: Chuck Rine
Phone #: 717-901-8188
Project Name/#: Enducott SGA/02007.33.030
Quote/PO #:
TAT: Normal ☒ *Rush ☐ *Rush TAT subject to approval and surcharges
Date Required:
Approved by:
Fax Results? (Y) or N #: 657-1611

ANALYSES REQUESTED: Total Organic Carbon

RECEIVING INFO (Lab use only)
COOLER TEMP:
COC SEAL INTACT: Y or N
SHIPPING CARRIER:
SHIPPING NO:

					Glass												Container Type
					none												Preservative
SAMPLE DESCRIPTION/LOCATION		G/C *	TIME 00:00	MATRIX **	NO. OF CONTAINERS PER ANALYSIS REQUESTED												COMMENTS/FIELD DATA
1	EN-217A 40-42	G		SO	1												6/26
2	EN-308 32-34	G		SO	1												6/18
3	EN-306B 40-42	G		SO	1												7/2
4	EN-213A 38-40	G		SO	1												6/27
5	EN-309 26-28	G		SO	1												6/19
6	EN-208A 36-37	G		SO	1												7/1
7	EN-208A 38-40	G		SO	1												7/1
8																	
9																	
10																	
11																	JK 7/9/03
12																	

DO times 7/8 7/8 7/8

Print Name and Company	Signature	Date/Time
Sampled by: David Reusswig / GSC	NA	
Received by: Charles Rine / GSC	Charles A Rine	7-8-03
Relinquished by:		
Received by: C Kendio Ansl	(3)	7-8-03 1350
Relinquished by:		
Received by:		

Remarks: Analysis need to determine organic carbon fraction (f_{oc}) for sorption calculation in VOC transport analysis

METHOD PROTOCOL: SW846 ☐ CFR136 ☐
DRINKING WATER ☐ OTHER:
REPORTING REQUIREMENTS: PADEP ☐
OTHER: PWSID:

Key: SO-Soil; SD-Solid; DW-Drinking Water; WW-Wastewater; GW-Groundwater; SL-Sludge; OL-Oil

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APPENDIX C-9

Natural Oxidant Demand Report
for Soil Samples from North Street Wells

CARUS CHEMICAL COMPANY
Technology and Quality
Remediation Report

25 November 2003

Customer: Groundwater Sciences Corp.
2601 Market Place, Suite 310
Harrisburg, PA 17110

Cc: B. Kelley
P. Vella
L. Warren

Attention: Brenda Veronda

Keywords: $KMnO_4$
Soil
Remediation

Chemist: Kelly Frasco

Tech # 9443

Subject: CAIROX® Potassium Permanganate Soil Demands

Summary

The average soil natural oxidant demand (NOD) for the low potassium permanganate ($KMnO_4$) dose at 48 hours was determined to be 1.1 g/kg. The average NOD for the medium $KMnO_4$ dose at 48 hours was determined to be 2.3 g/kg. The average NOD for the high $KMnO_4$ dose at 48 hours was determined to be 2.9 g/kg. Based on the soil demands, in-situ chemical oxidation with $KMnO_4$ is recommended for this site.

Background

Eight soil samples were received from Groundwater Sciences Corporation on November 20, 2003 from the IBM-Endico site located in Endicott, NY. The samples were identified as EN 419A, EN 419S, EN 420A, EN 420S, EN 421A, EN 421S, EN 422A and EN 422S. The customer requested the natural oxidant demand be determined on the samples. The measurement of the natural oxidant demand is used to estimate the concentration of $KMnO_4$ that will be consumed by the natural reducing agents in the soil during a given time period.

Experimental

To determine the natural oxidant demand of the soil, the volatile contaminants are removed prior to adding permanganate by drying the soil sample in an evaporation oven (103° C) for approximately 24 hours. A reaction vessel for each soil sample was then filled with 9 grams of soil and diluted to 90 mls with deionized water for a low, medium, and high concentration of $KMnO_4$. At the start of each experimental run, 10 mls of concentrated oxidant solution was introduced into the reaction vessels. The reaction vessels were placed on a rotating apparatus to ensure uniform mixing at a constant speed. Residual permanganate (MnO_4^-) was determined at 48 hours.

Results

The $KMnO_4$ demand is the amount of permanganate consumed in a given amount of time. It should be noted that in a soil or groundwater sample, the oxidation of any compound by permanganate is dependent on the initial dose of permanganate and the reaction time available. As the permanganate dose is increased, the reaction rate and oxidant consumption may also increase. Some compounds that are not typically oxidized by permanganate under low doses can become reactive with permanganate at higher concentrations. Therefore, increasing the permanganate dose to extreme excess could be disadvantageous to a remediation project (e.g., inefficient chemical usage, higher costs, etc.).

The 48-hour NOD results of the soil for the low (3.2 g/kg), medium (15.8 g/kg) and high (29.0 g/kg) oxidant doses can be seen in Table 1 below.

Table 1: Soil 48-Hour NOD for the Low, Medium, and High $KMnO_4$ Doses

Dose	Low (g/kg)	Medium (g/kg)	High (g/kg)
EN 419A	0.9	2.1	2.9
EN 419S	1.0	2.2	2.6
EN 420A	0.9	2.4	3.0
EN 420S	1.1	2.2	2.7
EN 421A	1.6	3.2	3.8
EN 421S	1.3	2.2	2.5
EN 422A	1.1	2.3	3.6
EN 422S	1.1	2.0	2.3
Average	1.1	2.3	2.9

Conclusions

For this application the amount of $KMnO_4$ needed will be dependent on the reaction time allowed. Both soil samples had a moderate demand with the average 48-hour demand for the high $KMnO_4$ dose was 2.9 g/kg. Generally, remediation sites with a soil oxidant demand of less than 35.0 g/kg at 48 hours for the high permanganate dose is favorable for in-situ chemical oxidation with $KMnO_4$ (see Table 2 for additional information). Based on these demand values in-situ chemical oxidation with $KMnO_4$ is recommended for this site. A pilot study is recommended to confirm laboratory results and determine the parameters for a full-scale trial.

Table 2: Correlation of Soil Oxidant Demand Results

NOD (g/kg)	**Rank**	**Comment**
<15	Low	ISCO with MnO_4 is recommended, NOD contribution to MnO_4 demand is low
15-35	Moderate	ISCO with MnO4 is recommended
35-50	Moderately High	ISCO with MnO_4 is recommended but NOD will contribute significantly to MnO_4 demand. Pilot test may help define these demands.
>50	High	Pilot testing is highly recommended to determine effective NOD at the site.

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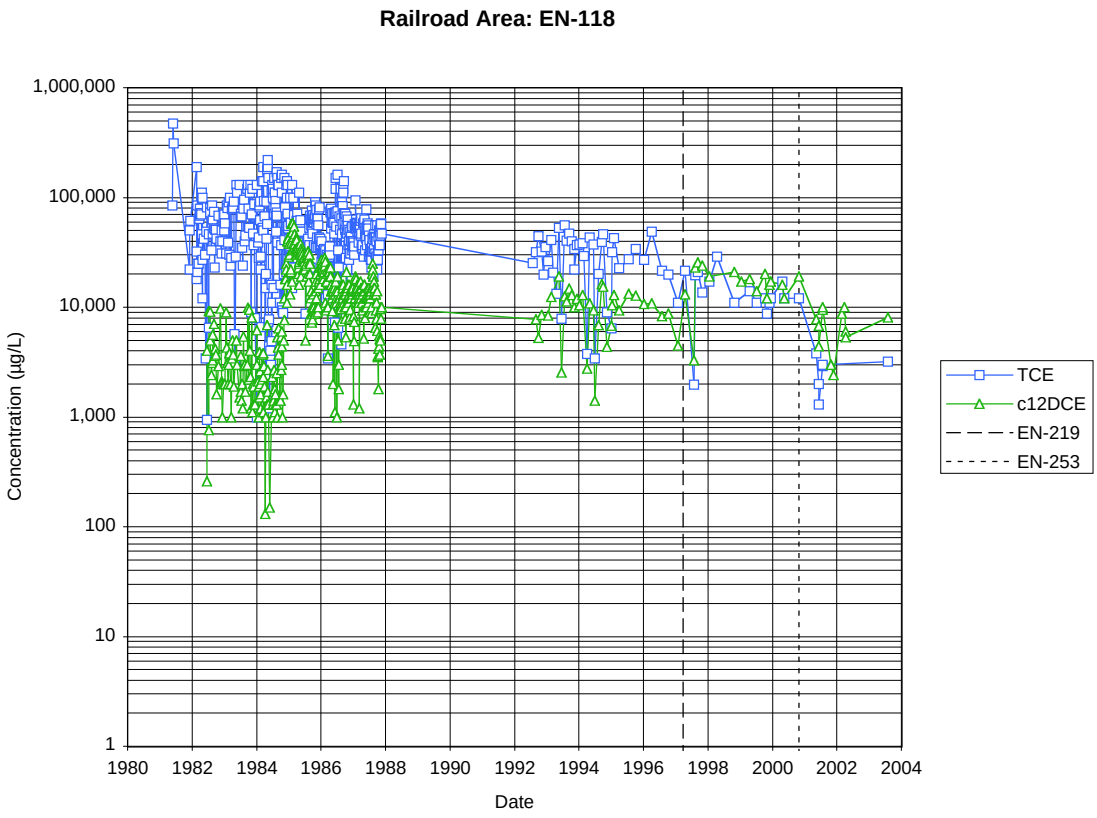
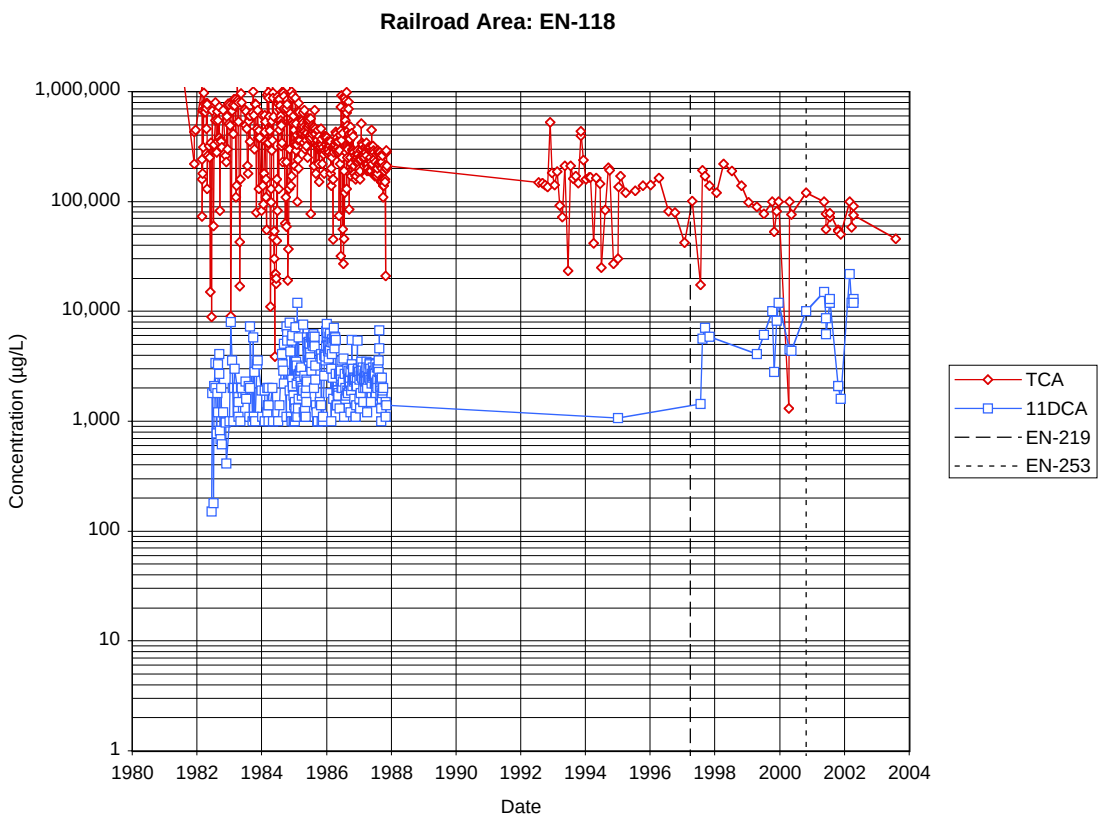
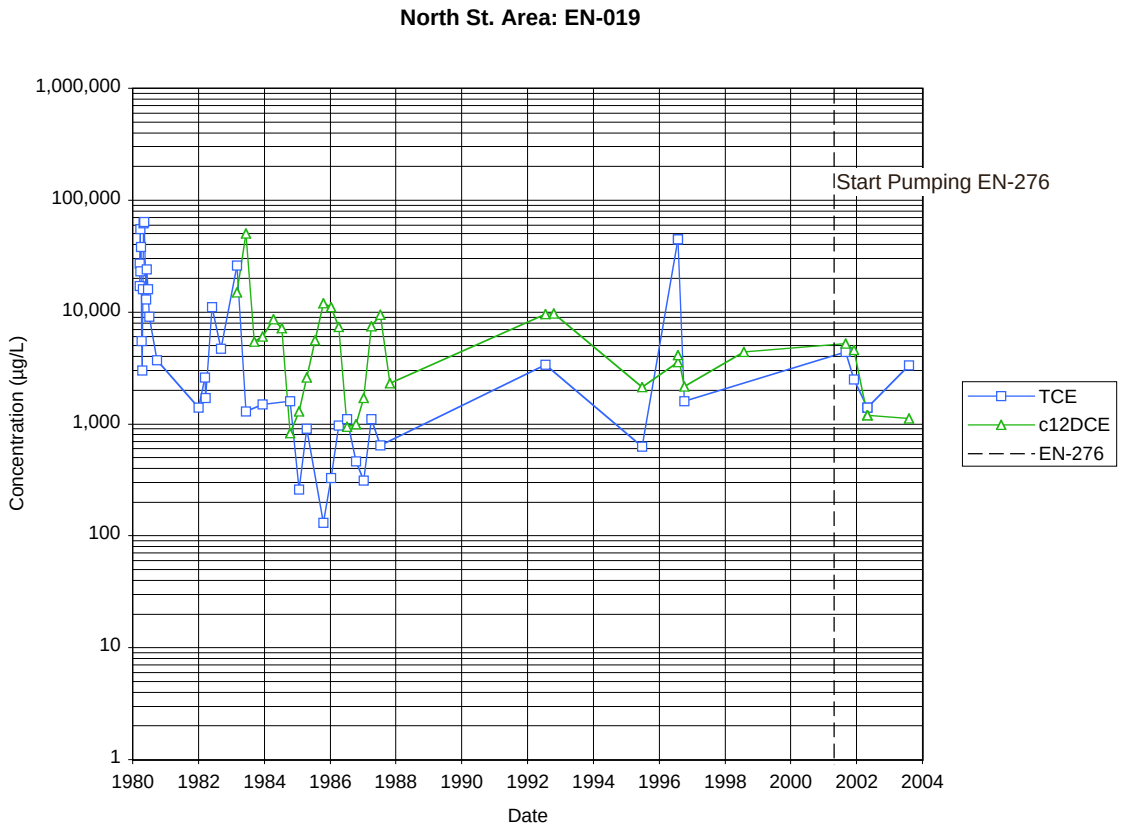
APPENDIX C-10

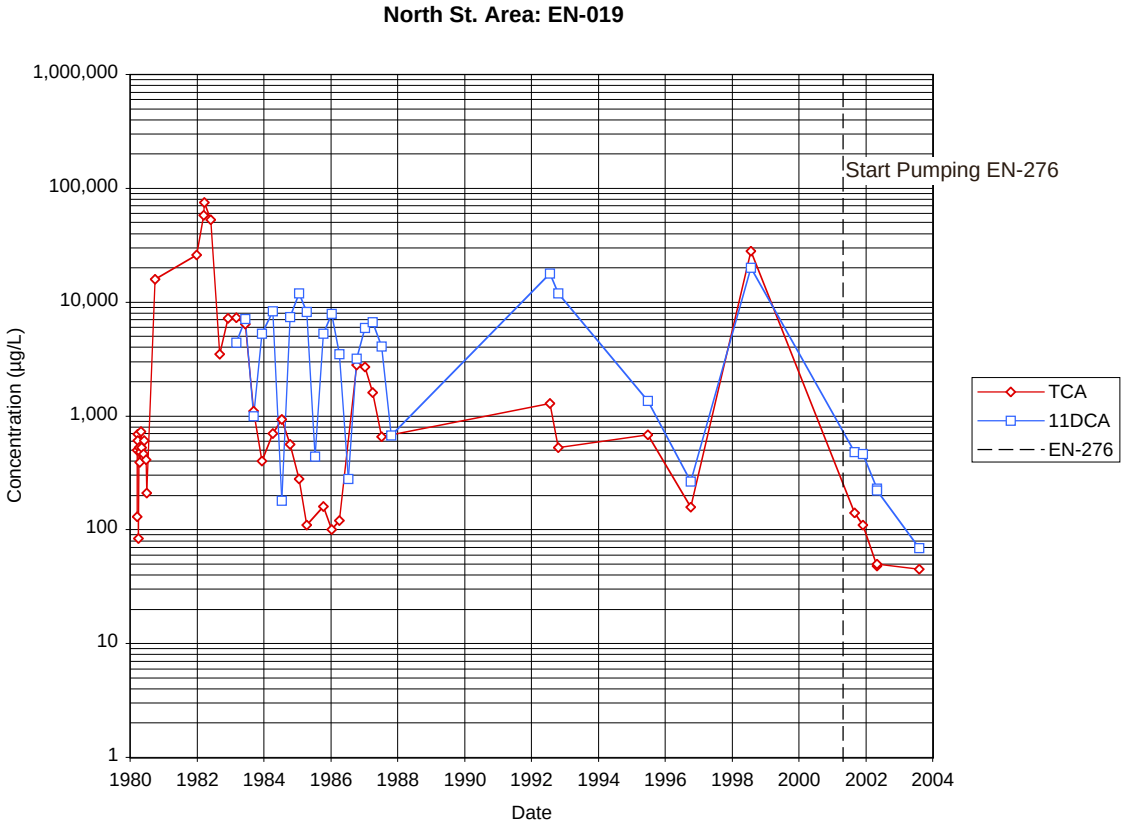
Time versus Concentration Graphs (as noted in the text)



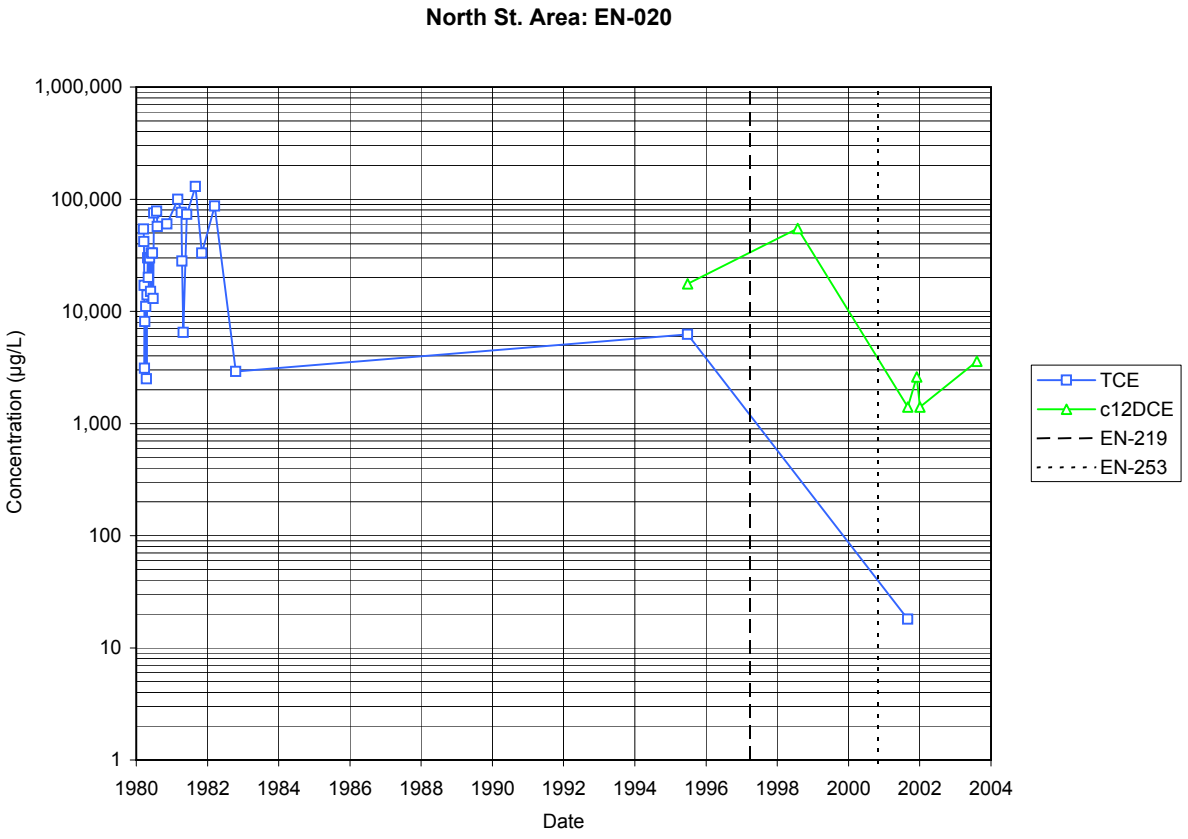


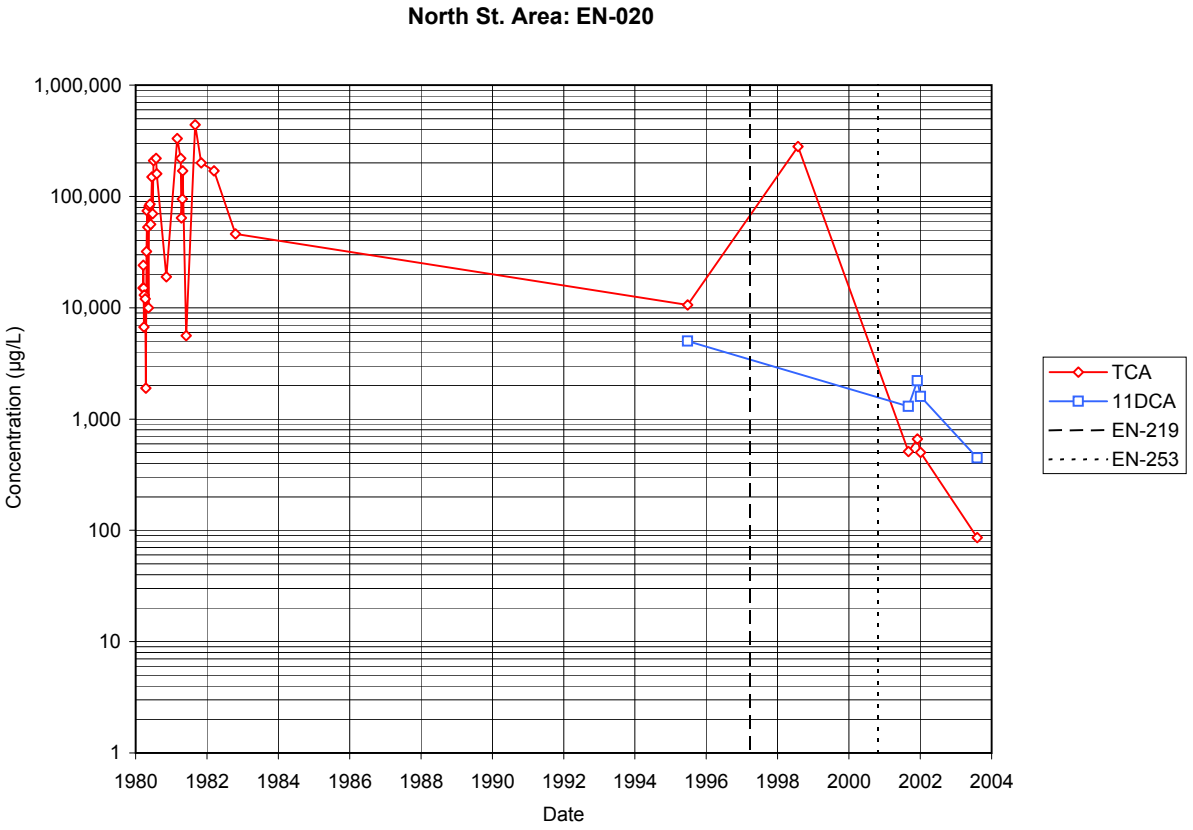
Temporal monitoring of concentrations in well EN-118.



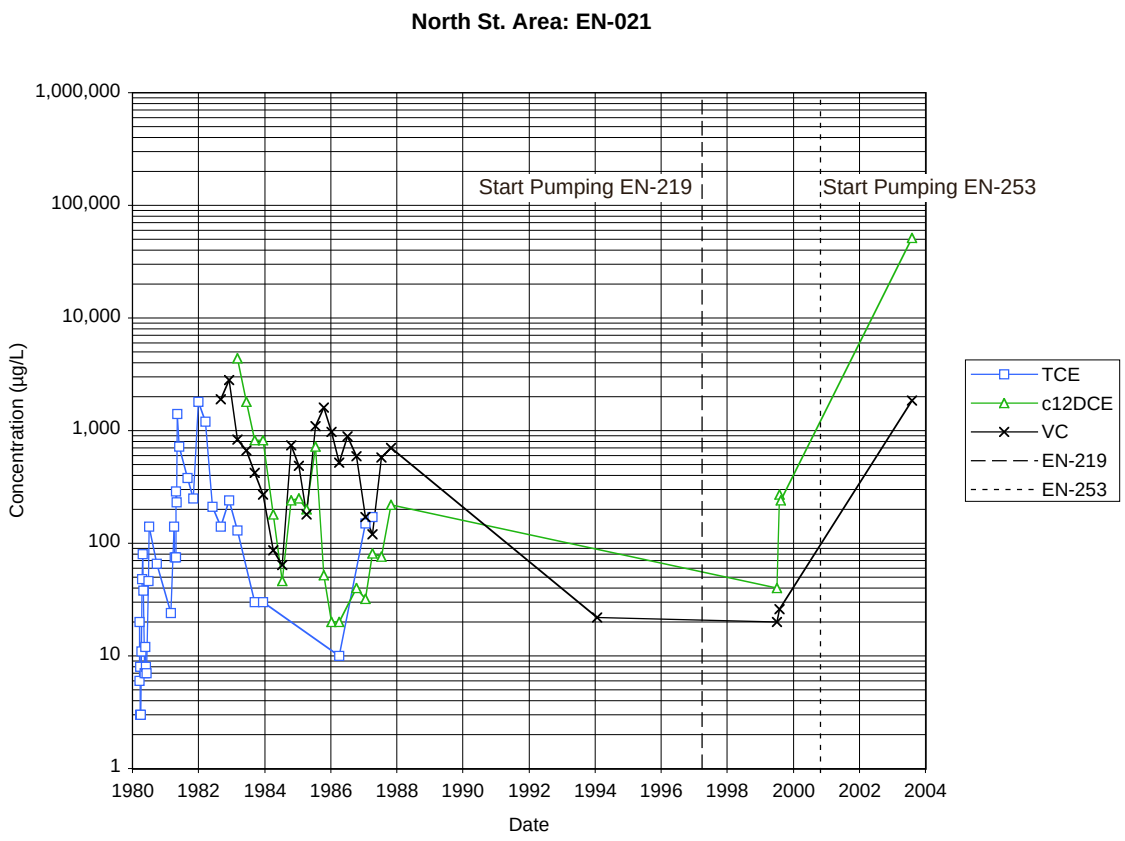


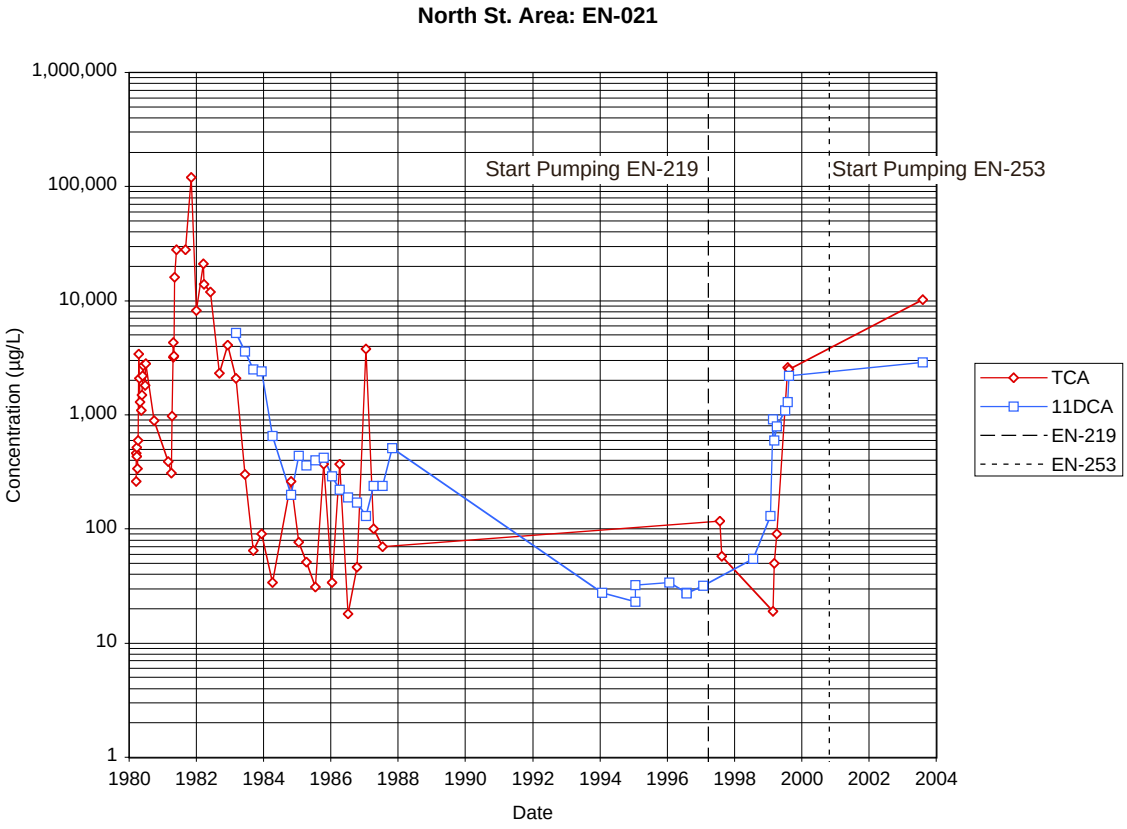
Temporal monitoring of concentrations in well EN-019.



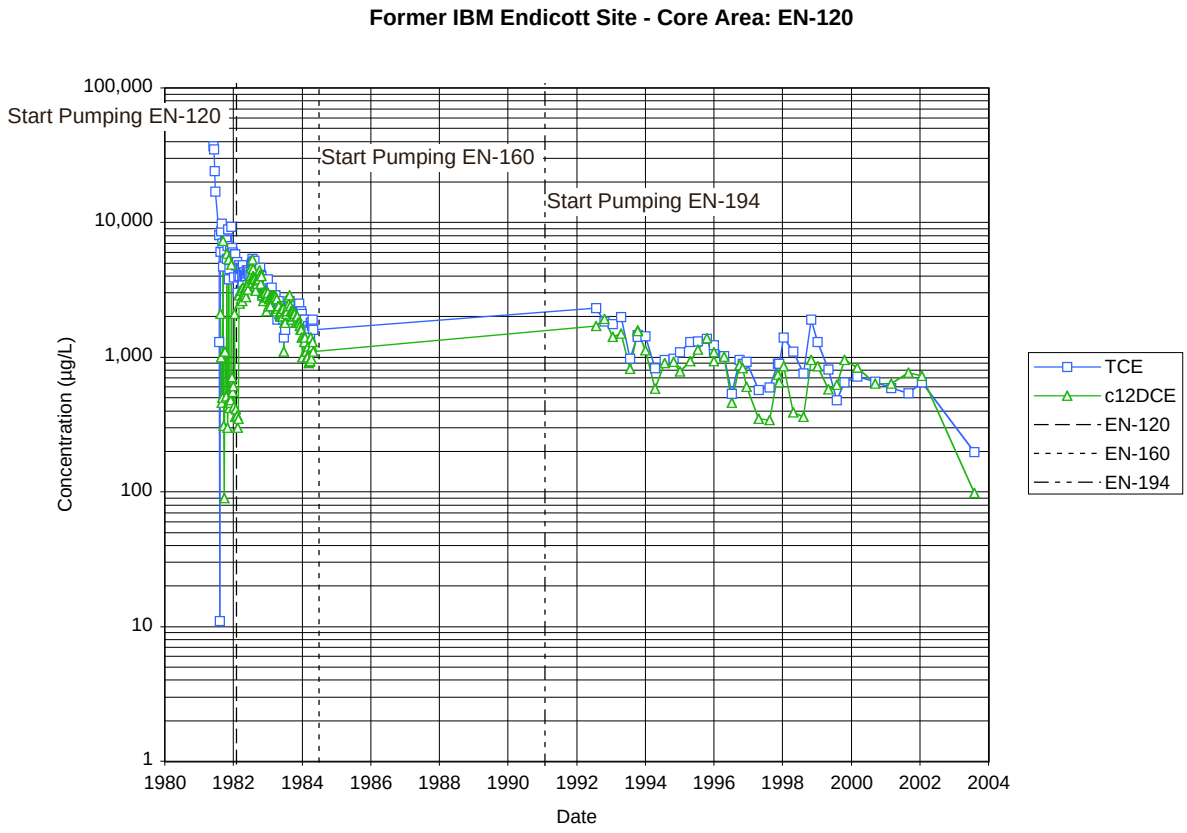


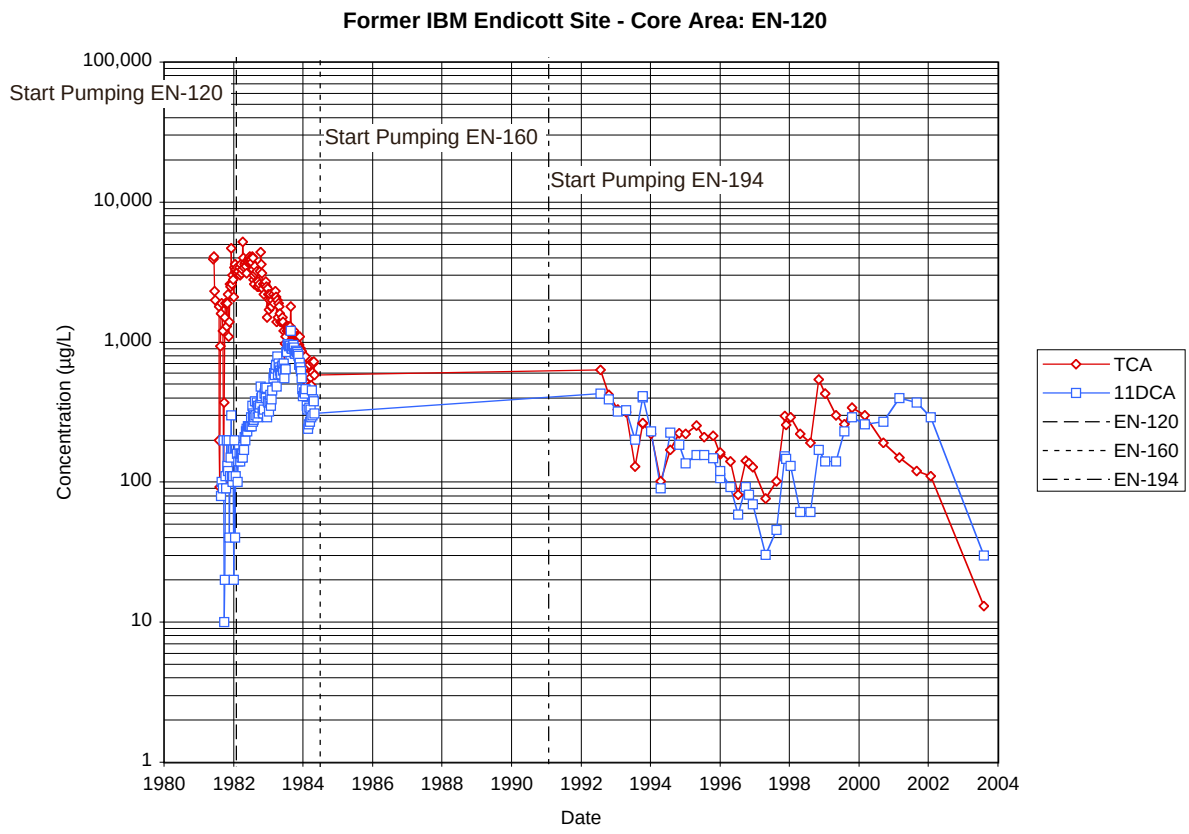
Temporal Monitoring of concentrations in well EN-020.



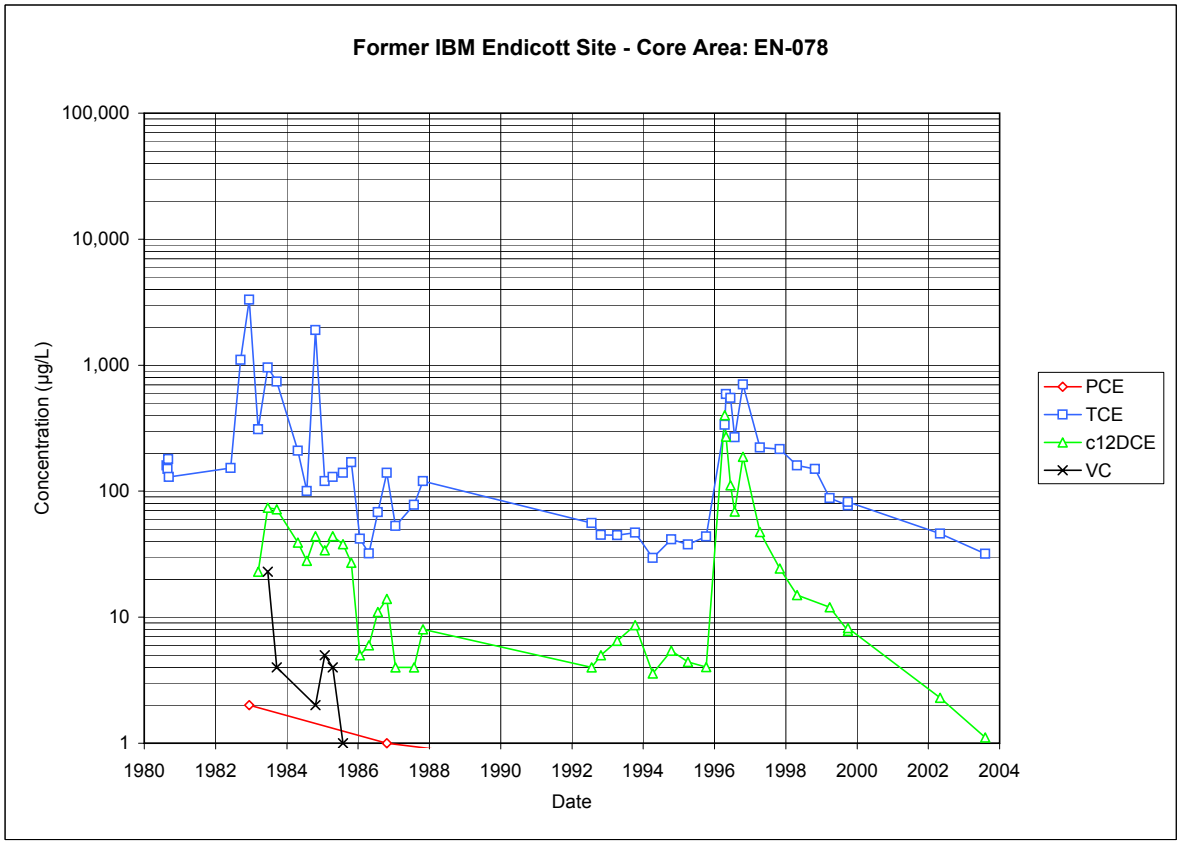


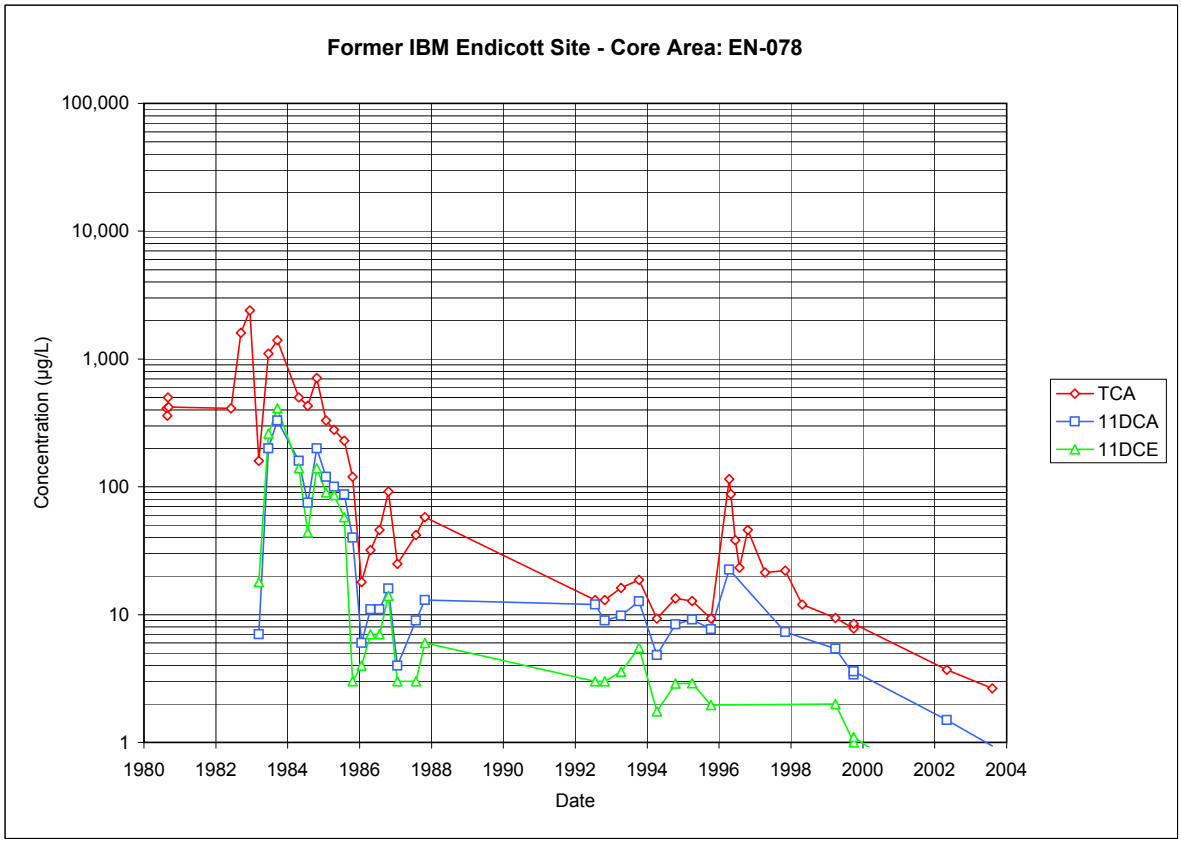
Temporal monitoring of concentrations in well EN-021.

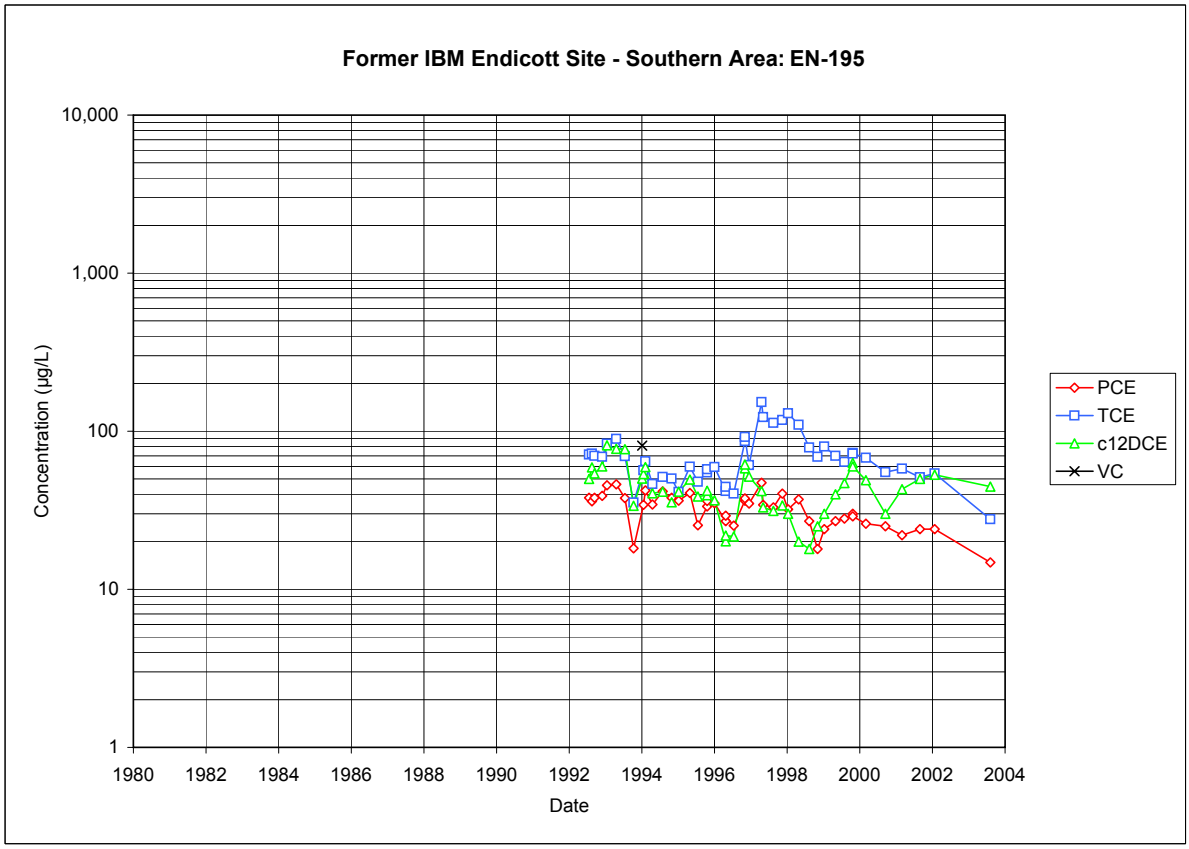


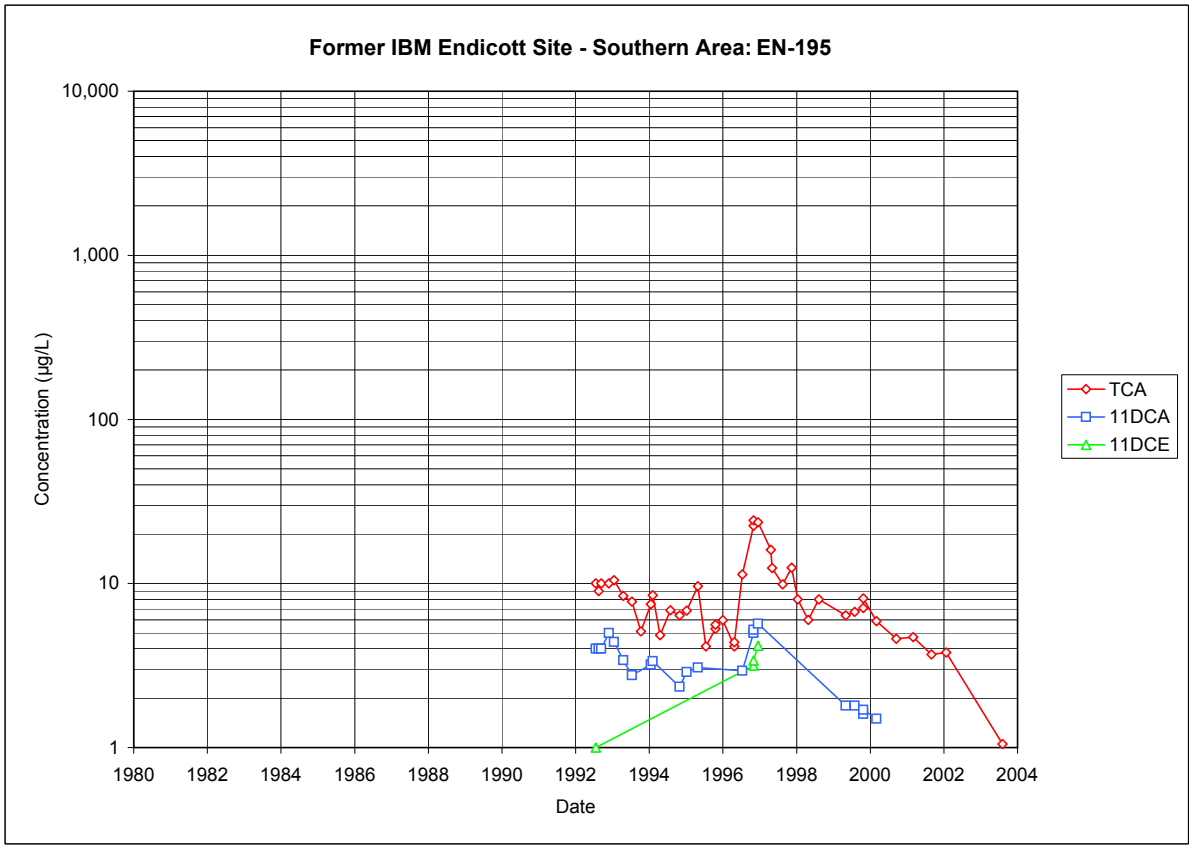


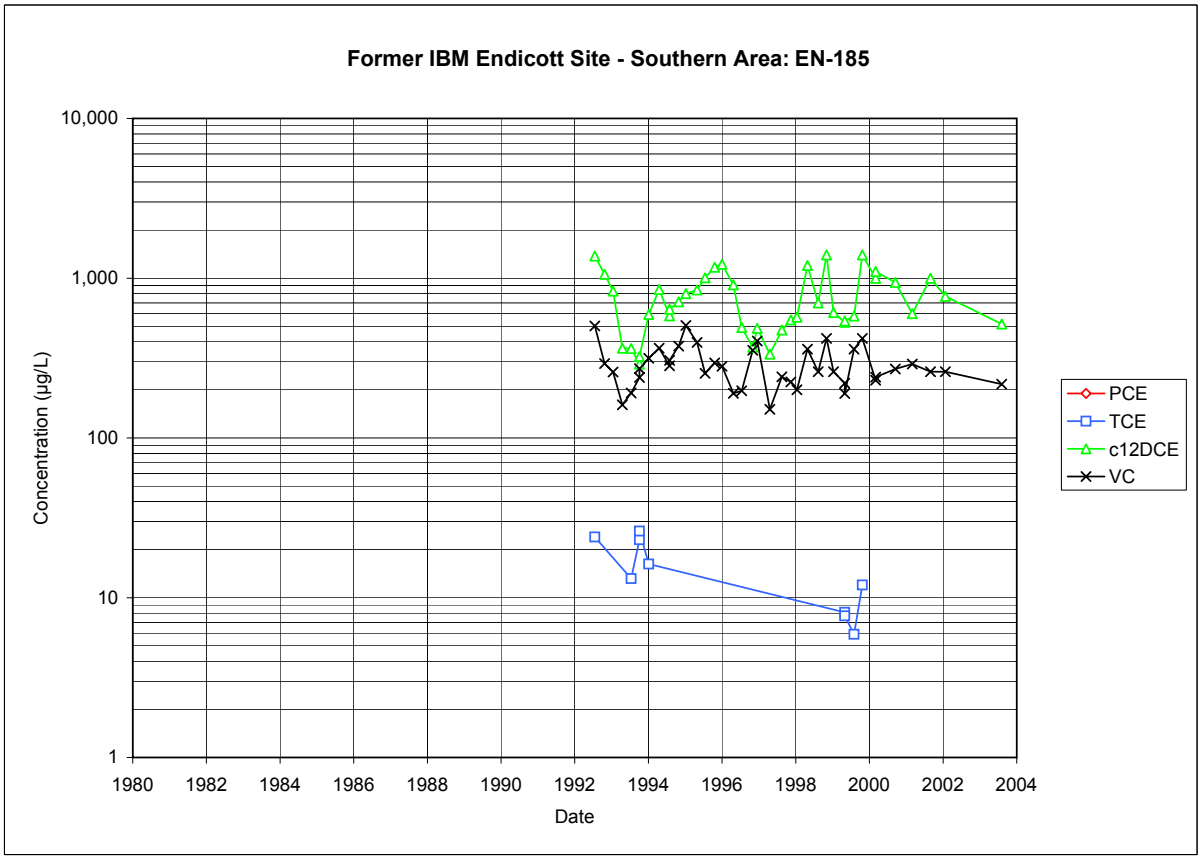
Temporal monitoring of concentrations in well EN-120.

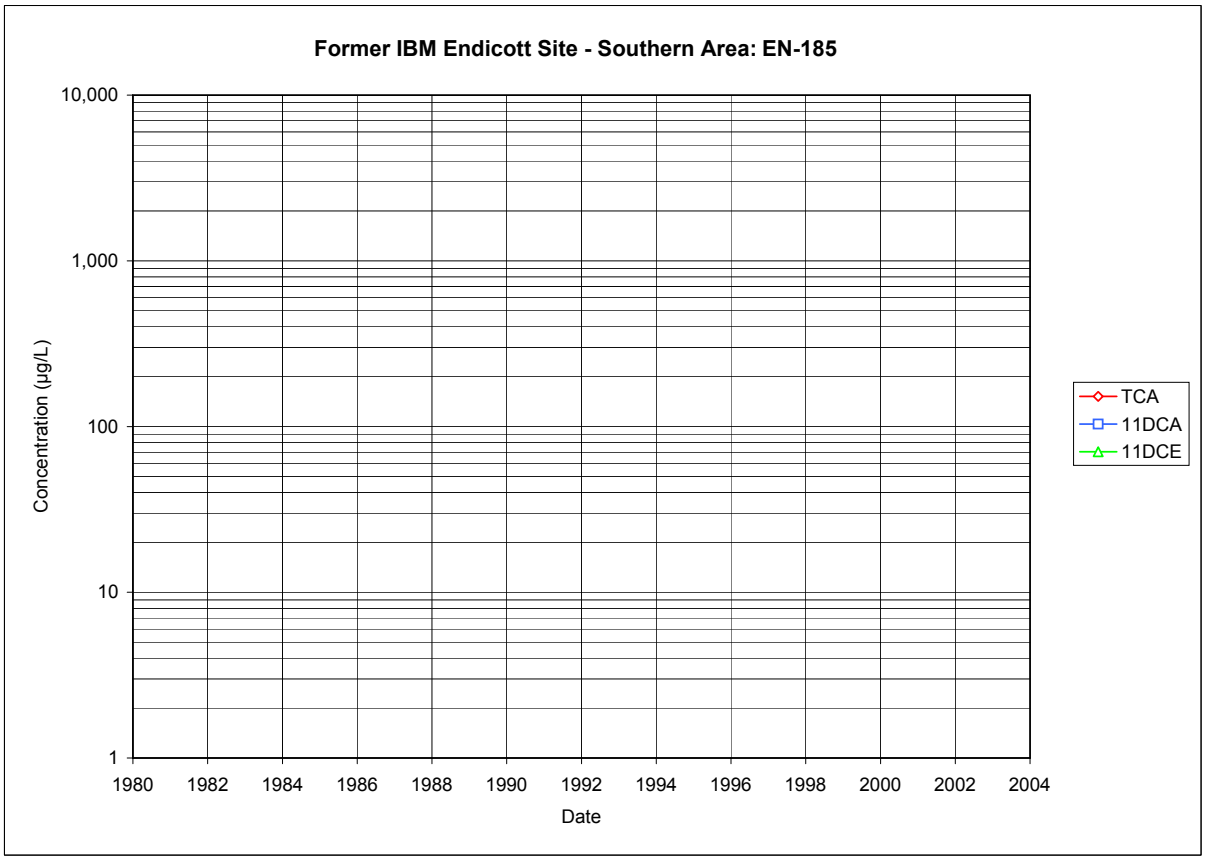

Former IBM Endicott Site - Core Area: EN-078
Concentration (µg/L)
100,000
10,000
1,000
100
10
1
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
Date
PCE
TCE
c12DCE
VC

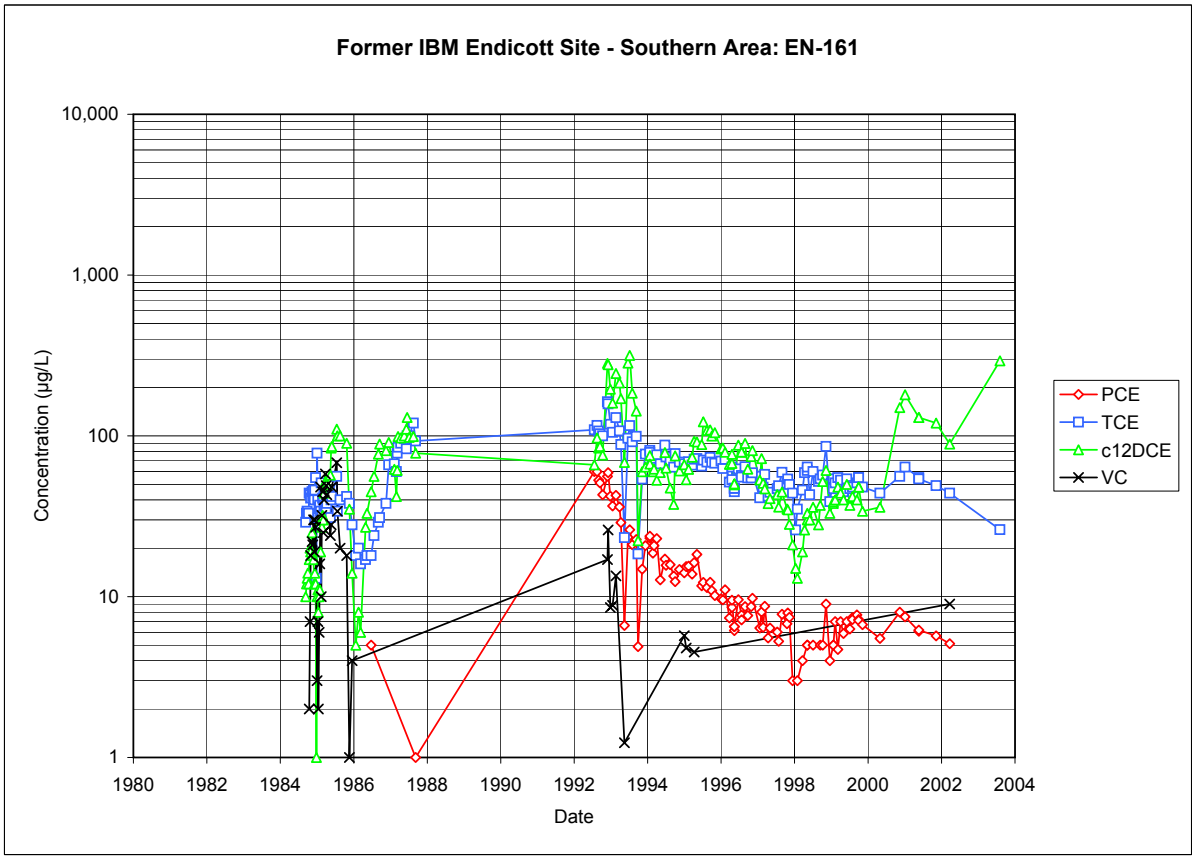

Former IBM Endicott Site - Core Area: EN-078
Concentration (µg/L)
100,000
10,000
1,000
100
10
1
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
Date
TCA
11DCA
11DCE

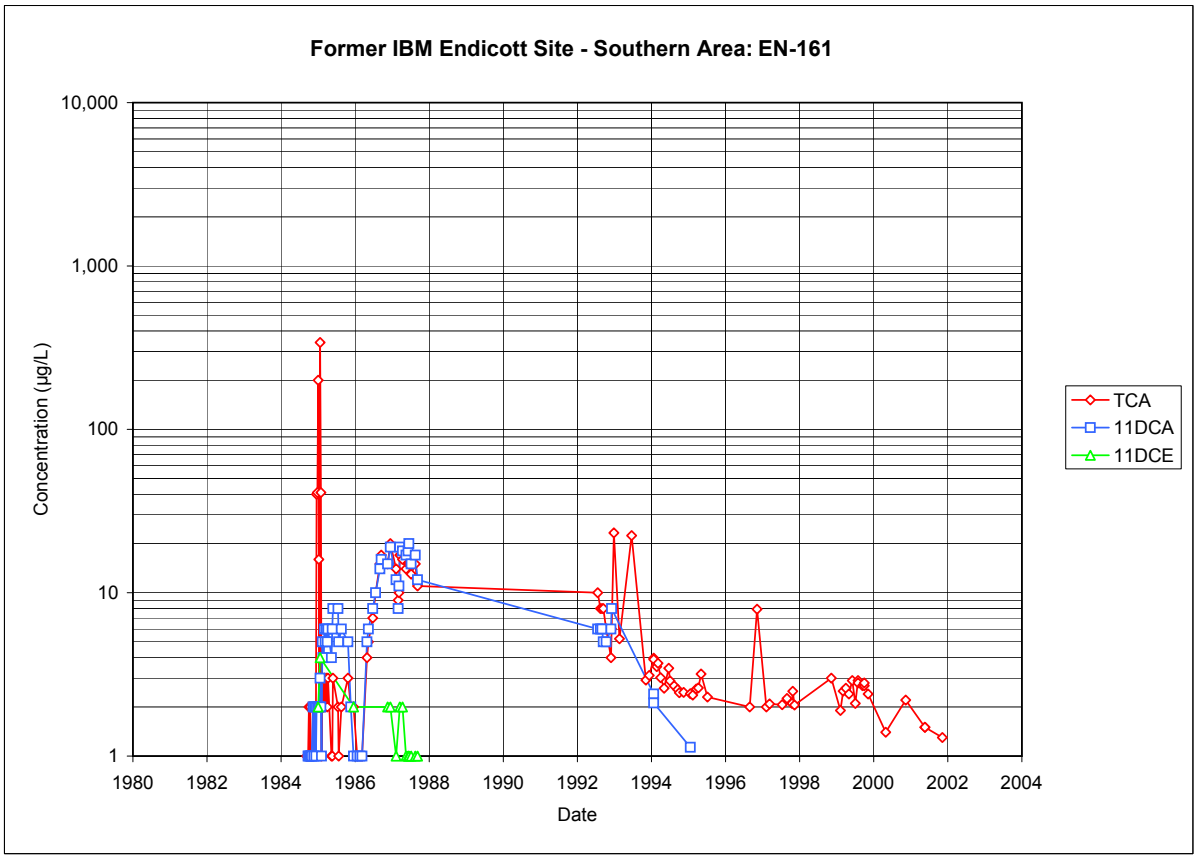

Former IBM Endicott Site - Southern Area: EN-195
10,000
1,000
100
10
1
Concentration (µg/L)
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
Date
PCE
TCE
c12DCE
VC


Former IBM Endicott Site - Southern Area: EN-195
10,000
1,000
100
10
1
Concentration (µg/L)
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
Date
TCA
11DCA
11DCE


Former IBM Endicott Site - Southern Area: EN-185
10,000
1,000
100
10
1
Concentration (µg/L)
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
Date
PCE
TCE
c12DCE
VC


Former IBM Endicott Site - Southern Area: EN-185
10,000
1,000
100
10
1
Concentration (µg/L)
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
Date
TCA
11DCA
11DCE


Former IBM Endicott Site - Southern Area: EN-161
10,000
1,000
100
10
1
Concentration (µg/L)
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
Date
PCE
TCE
c12DCE
VC


Former IBM Endicott Site - Southern Area: EN-161
10,000
1,000
100
10
1
Concentration (µg/L)
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
Date
TCA
11DCA
11DCE

APPENDIX C-11

Storm Sewer Chemistry Data (1992-2002)

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		07/23/1992	08/20/1992	10/02/1992	10/30/1992	11/20/1992	12/22/1992
Laboratory Sample I.D.		920724B4	920822B4	921002B4	921102B3	921122A1	921223C6
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@5	ND@1	ND@1
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@2	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@5	ND@5	ND@5	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	1	1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@10	ND@2	ND@5	ND@1	ND@5	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	2	2	1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		07/23/1992	08/20/1992	10/02/1992	10/30/1992	11/20/1992	12/22/1992
Laboratory Sample I.D.		920724B4	920822B4	921002B4	921102B3	921122A1	921223C6
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	ND@1	ND@1	2	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@5	ND@2	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		01/19/1993	03/02/1993	05/20/1993	08/12/1993	11/11/1993	02/23/1994
Laboratory Sample I.D.		930122B3	930303B4	930521B4	930816B3	931116A2	940224A2
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	1.4	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	1.3	ND@1	5.0	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		01/19/1993	03/02/1993	05/20/1993	08/12/1993	11/11/1993	02/23/1994
Laboratory Sample I.D.		930122B3	930303B4	930521B4	930816B3	931116A2	940224A2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	1.4	ND@2	ND@2	ND@2	ND@2	ND@2
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	1.6	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHENE	ug/l	ND@1	ND@1	1.8	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	ND@1	2.1	13	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		05/16/1994	08/22/1994	11/23/1994	02/20/1995	05/18/1995	08/21/1995
Laboratory Sample I.D.		940518B3	940822D7	941202C5_801	950221A1_801	950519C5_801	950822A1_801
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	2.2	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		05/16/1994	08/22/1994	11/23/1994	02/20/1995	05/18/1995	08/21/1995
Laboratory Sample I.D.		940518B3	940822D7	941202C5_801	950221A1_801	950519C5_801	950822A1_801
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	1.0	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHENE	ug/l	11	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		11/10/1995	03/05/1996	05/20/1996	08/27/1996	11/18/1996	03/05/1997
Laboratory Sample I.D.		951113C6_802	960306C6_802	960522A2_802	960909A2_802	961125A1_801	970309A1_801
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		11/10/1995	03/05/1996	05/20/1996	08/27/1996	11/18/1996	03/05/1997
Laboratory Sample I.D.		951113C6_802	960306C6_802	960522A2_802	960909A2_802	961125A1_801	970309A1_801
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	REPLICATE	STORM WATER
Sample Date		06/17/1997	09/17/1997	11/19/1997	02/26/1998	04/24/1998	04/24/1998
Laboratory Sample I.D.		970619B3_801	970924C6_802	971121B4_802	VA3433	VA3590	VA3590
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	NA	NA	NA
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	REPLICATE	STORM WATER
Sample Date		06/17/1997	09/17/1997	11/19/1997	02/26/1998	04/24/1998	04/24/1998
Laboratory Sample I.D.		970619B3_801	970924C6_802	971121B4_802	VA3433	VA3590	VA3590
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		08/31/1998	11/09/1998	02/25/1999	05/25/1999	08/24/1999	11/17/1999
Laboratory Sample I.D.		VA3879	VA4017	35888	39041	42128	45608
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
2-CHLOROETHYLVINYL ETHER	ug/l	NA	NA	NA	NA	NA	NA
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	1.7	ND@1.0
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		08/31/1998	11/09/1998	02/25/1999	05/25/1999	08/24/1999	11/17/1999
Laboratory Sample I.D.		VA3879	VA4017	35888	39041	42128	45608
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
O-XYLENE	ug/l	NA	NA	ND@1.0	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		05/05/2000	09/27/2000	04/04/2001	10/03/2001	04/10/2002
Laboratory Sample I.D.		50771	56209	62928	70106	76624
Sample Comment Codes						
Parameter	**Units**					
Base/Neutral Extractables						
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	ug/l	NA	NA	NA	NA	NA
2-CHLOROETHYLVINYL ETHER	ug/l	NA	NA	NA	NA	NA
Volatile Organics						
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	NA	NA	NA	NA	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA	NA
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	NA	NA	NA	NA	NA
BROMOMETHANE	ug/l	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	NA	NA	NA	NA	NA
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA
DIBROMOMETHANE	ug/l	NA	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	NA	NA	NA	NA	NA

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Sample Location		SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW	SO ST ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		05/05/2000	09/27/2000	04/04/2001	10/03/2001	04/10/2002
Laboratory Sample I.D.		50771	56209	62928	70106	76624
Sample Comment Codes						
Parameter	**Units**					
Volatile Organics						
M,P-XYLENE	ug/l	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
O-XYLENE	ug/l	NA	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	NA	NA	NA	NA	NA
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	NA	NA	NA	NA	NA
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	NA	NA	NA	NA	NA
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
XYLENE, TOTAL	ug/l	ND@1.0	ND@2.0	ND@2.0	ND@2.0	ND@2.0

Tannery Sewer Analytical Data
(South Street Storm Sewer)
1992 - 2002

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Endicott, New York

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		07/22/1992	08/20/1992	10/02/1992	10/30/1992	11/20/1992	12/22/1992
Laboratory Sample I.D.		920724B4	920822A1	921002B4	921102B3	921122A1	921223C6
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	1	ND@1	2	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@5	ND@2	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@5	ND@5	ND@5	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@10	ND@2	ND@5	ND@1	ND@5	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@2	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		07/22/1992	08/20/1992	10/02/1992	10/30/1992	11/20/1992	12/22/1992
Laboratory Sample I.D.		920724B4	920822A1	921002B4	921102B3	921122A1	921223C6
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	1	ND@1	3	ND@1	ND@1	1.9
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@2	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@5	ND@2	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		01/19/1993	03/02/1993	05/20/1993	08/12/1993	11/11/1993	02/23/1994
Laboratory Sample I.D.		930122B3	930303B4	930524A1	930816B3	931116A2	940224A2
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	1.9	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	1.3	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		01/19/1993	03/02/1993	05/20/1993	08/12/1993	11/11/1993	02/23/1994
Laboratory Sample I.D.		930122B3	930303B4	930524A1	930816B3	931116A2	940224A2
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@2	ND@2	ND@2	ND@2	ND@2
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	ND@1	2.2	6.8	1.3	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		05/16/1994	08/22/1994	11/23/1994	02/20/1995	05/18/1995	08/21/1995
Laboratory Sample I.D.		940518B3	940822D7	941202C5_801	950221A1_801	950522D8_802	950822A1_801
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		05/16/1994	08/22/1994	11/23/1994	02/20/1995	05/18/1995	08/21/1995
Laboratory Sample I.D.		940518B3	940822D7	941202C5_801	950221A1_801	950522D8_802	950822A1_801
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@2	ND@2	ND@2	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	1.1	1.3	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		11/10/1995	03/04/1996	05/20/1996	08/27/1996	11/18/1996	03/05/1997
Laboratory Sample I.D.		951113C6_802	960305A2_802	960522A2_802	960909A2_802	961125A1_801	970309A1_801
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	1.3	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	1.3
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		11/10/1995	03/04/1996	05/20/1996	08/27/1996	11/18/1996	03/05/1997
Laboratory Sample I.D.		951113C6_802	960305A2_802	960522A2_802	960909A2_802	961125A1_801	970309A1_801
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	1.3	2.7
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		06/17/1997	09/17/1997	11/19/1997	02/26/1998	04/24/1998	08/31/1998
Laboratory Sample I.D.		970619B3_801	970924C6_802	971121B4_802	VA3431	VA3587	VA3879
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
2-CHLOROETHYLVINYL ETHER	ug/l	ND@1	ND@1	ND@1	NA	NA	NA
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
BROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROFORM	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CHLOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DIBROMOMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
ETHYLBENZENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		06/17/1997	09/17/1997	11/19/1997	02/26/1998	04/24/1998	08/31/1998
Laboratory Sample I.D.		970619B3_801	970924C6_802	971121B4_802	VA3431	VA3587	VA3879
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
METHYLENE CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
O-XYLENE	ug/l	ND@1	ND@1	ND@1	ND@1	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TOLUENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
TRICHLOROETHENE	ug/l	1.5	1.4	1.5	ND@1	ND@1	ND@1
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
VINYL CHLORIDE	ug/l	ND@1	ND@1	ND@1	ND@1	ND@1	ND@1
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	NA

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		11/09/1998	02/26/1999	05/21/1999	08/24/1999	11/17/1999	05/05/2000
Laboratory Sample I.D.		VA4019	35922	38793	42128	45608	50795
Sample Comment Codes							
Parameter	**Units**						
Base/Neutral Extractables							
1,2-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,4-DICHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
2-CHLOROETHYLVINYL ETHER	ug/l	NA	NA	NA	NA	NA	NA
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,1-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
1,2-DICHLOROPROPANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
BROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
CARBON TETRACHLORIDE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
CHLOROBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
CHLOROETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
CIS-1,2-DICHLOROETHENE	ug/l	ND@1	1.1	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
DIBROMOMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		11/09/1998	02/26/1999	05/21/1999	08/24/1999	11/17/1999	05/05/2000
Laboratory Sample I.D.		VA4019	35922	38793	42128	45608	50795
Sample Comment Codes							
Parameter	**Units**						
Volatile Organics							
M,P-XYLENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
METHYLENE CHLORIDE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
O-XYLENE	ug/l	NA	ND@1.0	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
TRICHLOROETHENE	ug/l	ND@1	1.8	ND@1.0	1.8	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	NA
VINYL CHLORIDE	ug/l	ND@1	ND@1.0	ND@1.0	ND@1.0	ND@1.0	ND@1.0
XYLENE, TOTAL	ug/l	NA	NA	NA	NA	NA	ND@1.0

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		09/27/2000	04/04/2001	10/03/2001	04/10/2002
Laboratory Sample I.D.		56209	62928	70030	76624
Sample Comment Codes					
Parameter	**Units**				
Base/Neutral Extractables					
1,2-DICHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,3-DICHLOROBENZENE	ug/l	NA	NA	NA	NA
1,4-DICHLOROBENZENE	ug/l	NA	NA	NA	NA
2-CHLOROETHYLVINYL ETHER	ug/l	NA	NA	NA	NA
Volatile Organics					
1,1,1-TRICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	NA	NA	NA	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1,2-TRICHLOROETHANE	ug/l	NA	NA	NA	NA
1,1-DICHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,1-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
1,2-DICHLOROETHANE	ug/l	NA	NA	NA	NA
1,2-DICHLOROPROPANE	ug/l	NA	NA	NA	NA
BENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
BROMOFORM	ug/l	NA	NA	NA	NA
BROMOMETHANE	ug/l	NA	NA	NA	NA
CARBON TETRACHLORIDE	ug/l	NA	NA	NA	NA
CHLOROBENZENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLORODIBROMOMETHANE	ug/l	NA	NA	NA	NA
CHLOROETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROFORM	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CHLOROMETHANE	ug/l	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
CIS-1,3-DICHLOROPROPENE	ug/l	NA	NA	NA	NA
DIBROMOMETHANE	ug/l	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
ETHYLBENZENE	ug/l	NA	NA	NA	NA

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Sample Location		RV VW ST SEW	RV VW ST SEW	RV VW ST SEW	RV VW ST SEW
Sample Description		STORM WATER	STORM WATER	STORM WATER	STORM WATER
Sample Date		09/27/2000	04/04/2001	10/03/2001	04/10/2002
Laboratory Sample I.D.		56209	62928	70030	76624
Sample Comment Codes					
Parameter	**Units**				
Volatile Organics					
M,P-XYLENE	ug/l	NA	NA	NA	NA
METHYLENE CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
O-XYLENE	ug/l	NA	NA	NA	NA
TETRACHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TOLUENE	ug/l	NA	NA	NA	NA
TRANS-1,2-DICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRANS-1,3-DICHLOROPROPENE	ug/l	NA	NA	NA	NA
TRICHLOROETHENE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
TRICHLOROFLUOROMETHANE	ug/l	NA	NA	NA	NA
VINYL CHLORIDE	ug/l	ND@1.0	ND@1.0	ND@1.0	ND@1.0
XYLENE, TOTAL	ug/l	ND@2.0	ND@2.0	ND@2.0	ND@2.0

Delaware Avenue Storm Sewer Analytical Data
(Riverview Storm Sewer)
1992 - 2002

Explanation of Reporting Conventions and Key to Comment Codes

Reporting Conventions

NA	Not Analyzed
ND@X	Not Detected at Detection Limit X

Endicott, New York