

**INSTALLATION RESTORATION PROGRAM
TWIN CITIES ARMY AMMUNITION PLANT**

FISCAL YEAR 1991 ANNUAL MONITORING REPORT

**Distribution is limited to
U.S. Government Agencies only for
protection of privileged information.
Other requests for the documents
must be referred to:**

**Commander
Twin Cities Army Ammunition Plant
New Brighton, Minnesota
55112-5700**

Prepared for:

**Commander
Twin Cities Army Ammunition Plant
ATTN: SMCTC-CO
New Brighton, Minnesota 55112-5700**

**Commander
U.S. Army Toxic & Hazardous Materials Agency
ATTN: CETHA-CO
Aberdeen Proving Ground, Maryland 21010-5401**

**OCTOBER 1992
FINAL REPORT**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

77 WEST JACKSON BOULEVARD

CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

HSRM-6J

OCT 08 1992

Mr. Martin R. McCleery
Remedial Project Manager
Twin Cities Army Ammunition Plant
New Brighton, Minnesota 55112-5700

Re: Consistency Test for the Fiscal Year 1991 Annual Monitoring Report/Fiscal Year 1993 Annual Monitoring Plan for the Twin Cities Army Ammunition Plant

Dear Mr. McCleery:

Staff at the U.S. Environmental Protection Agency (EPA) and the Minnesota Pollution Control Agency (MPCA) have reviewed the subject document. You are hereby advised that, in accordance with Chapter XIV of the Federal Facility Agreement, the Fiscal Year 1991 Annual Monitoring Report/Fiscal Year 1993 Annual Monitoring Plan for the Twin Cities Army Ammunition Plant passes the Consistency Test.

If you have any questions, please contact Tom Barounis of the EPA at (312) 353-5577 or Dagmar Romano of the MPCA at (612) 296-7776.

Sincerely,

Tom Barounis
Tom Barounis
Remedial Project Manager
U.S. EPA

Tom Barounis
Dagmar Romano
Project Manager
MPCA

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**OCTOBER 1992
FINAL REPORT**

**FEDERAL CARTRIDGE COMPANY
WENCK ASSOCIATES, INC.**

**ALLIANT TECHSYSTEMS, INC.
CONESTOGA-ROVERS & ASSOCIATES, LTD.**

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Section I Introduction

This Fiscal Year 1991 Annual Monitoring Report summarizes and evaluates data from groundwater and surface water monitoring performed at the Twin Cities Army Ammunition Plant (TCAAP). Fiscal Year 1991 (FY 91) extended from October 1, 1990, through September 30, 1991. Monitoring activities were performed in accordance with the "Fiscal Year 1991 Annual Monitoring Plan," submitted in October 1990 and approved in April 1991 (see approval letter in Appendix A).

The purposes of this report are to:

1. Provide a comprehensive source for groundwater and surface water data from TCAAP monitoring activities.
2. Characterize groundwater conditions associated with known and potential contaminant source areas at TCAAP.
3. Assess the performance of Interim Remedial Action (IRA) systems for remediation of groundwater contamination at Site A, Site I, and Site K, and the TCAAP Groundwater Recovery System (TGRS).
4. Characterize surface water conditions at sampling locations both at and near TCAAP.
5. Present the Fiscal Year 1993 Annual Monitoring Plan for TCAAP.

Monitoring activities and submittal of this report are in fulfillment of the Federal Facilities Agreement (FFA) signed August 12, 1987, between the United States Army (Army), United States Environmental Protection Agency (USEPA), and Minnesota Pollution Control Agency (MPCA). Minor modifications to the FFA were enacted in February 1992 (Appendix A), but these changes did not significantly affect the work performed for FY 91. The modifications are discussed in Section III.A of this report.

This report represents the collaboration of work performed by Federal Cartridge Company (FCC) and Alliant Techsystems, Inc. On behalf of FCC, Wenck Associates, Inc. (Wenck) prepared Sections I-IX of this report. On behalf of Alliant Techsystems, Inc., Conestoga-Rovers & Associates (CRA) prepared Sections X-XII. Wenck and CRA both contributed to Sections XIII-XV. The Fiscal Year 1991 Annual Monitoring Report consists of this volume, plus a set of 28 plan sheets submitted separately.

Although the submittal of a single, comprehensive document is new, the actual content of the document is similar to the combined contents of the two separate reports prepared by Wenck and CRA for FY 90. In general, the tables, trend figures, contour maps, appendices, and discussion topics in this document are consistent with those presented in the two FY 90 annual monitoring reports. Significant exceptions are omission of tables summarizing quality assurance/quality control data, and omission of total VOC contour maps. Both of these changes were approved by MPCA staff.

Section II Background

A. SITE DESCRIPTION

The Twin Cities Army Ammunition Plant, a government-owned, contractor-operated facility, is located near Arden Hills and New Brighton, Minnesota, in the northern portion of the Minneapolis-St. Paul metropolitan area (Figure 1 and Plan Sheet 2). The facility occupies approximately a four-square mile area immediately east of U.S. Interstate Highway 35W and north of Minnesota Highway 96. Federal Cartridge Company is the contracted operator, and several other private companies, including Alliant Techsystems, Inc., conduct operations on the facility as tenants.

TCAAP was constructed in 1941 to provide small-caliber ammunition for the military needs of the United States. Production began in 1941 and since then there have been periods of activity and shutdown. TCAAP has been in standby status since 1976.

During periods of activity, solvents were utilized as part of the manufacturing process. Disposal of solvents at the TCAAP site resulted in groundwater contamination which has migrated beyond the site boundary. Groundwater contamination was first discovered in July 1981 at four of the six TCAAP production wells. Since that time, numerous on- and off-post wells have been installed to monitor and assess the movement and remediation of TCAAP groundwater contamination.

A number of known and potential contaminant source areas have been identified on the TCAAP property: Sites A, B, C, D, E, F, G, H, I, J, K, 129-3, 129-5, and 129-15. These sites are shown on Plan Sheet 3.

B. HYDROGEOLOGIC UNITS AND WELL NOMENCLATURE

On- and off-post monitoring wells have been installed in several hydrogeologic units beneath the site. These hydrogeologic units, as referred to in this report, are described below:

- Unit 1: Called the Fridley Formation, this unit consists of alluvium and lacustrine deposits above the Twin Cities Formation (Unit 2). The Unit 1 deposits are discontinuous at TCAAP, predominantly limited to the north, east, and southwest portions of the site. Groundwater in Unit 1 is also discontinuous.
- Unit 2: The Twin Cities Formation consists of glacial till and, similar to Unit 1, is discontinuous at TCAAP. Unit 2 is generally regarded as an aquitard to vertical migration of groundwater; however, sand and gravel lenses may contain water.
- Unit 3: This unit consists primarily of the Hillside Sand Formation which is continuous beneath TCAAP. Near the center of TCAAP, the Hillside Sand is overlain by the Arsenal Sand, which forms a kame. There is no distinct lithologic contact between the Hillside Sand and the Arsenal Sand, and both are considered included in Unit 3. Unit 3 ranges in thickness from 25 to 450 feet. For monitoring purposes, the Unit 3 aquifer thickness has been arbitrarily subdivided into thirds designated as upper, middle, and lower.
- Unit 4: This unit consists collectively of the Prairie du Chien and Jordan bedrock formations. For monitoring purposes, the Prairie du Chien is referred to as upper Unit 4, while the Jordan is lower Unit 4.

In order to identify the hydrogeologic unit in which each well is completed, the United States Army Toxic and Hazardous Materials Agency (USATHAMA) developed a standardized identification system for wells at TCAAP. Well designations consist of six characters, such

as 03U093. The first two characters represent the hydrogeologic unit in which the well is completed, as follows:

- 01 - Unit 1
- 03 - Unit 3
- 04 - Unit 4: Prairie du Chien
- PJ - Unit 4: Prairie du Chien and Jordan

The third character represents the relative position of the well screen or open hole within the specified hydrogeologic unit, as follows:

- U - upper portion
- M - middle portion
- L - lower portion
- J - Jordan sandstone
- F - fully penetrating Unit 3
- # - open hole (total or partial thickness)

The remaining three characters represent the well number, as follows:

- 001 thru 500 USATHAMA wells and additional wells installed by others adjacent to an existing well with the 001-500 designation.
- 501 thru 600 TCAAP wells, FCC wells, and the 502 well.
- 601 thru 800 On-post Alliant Techsystems, Inc. wells.
- 801 thru 900 Off-post Alliant Techsystems, Inc. and FCC wells.
- 901 thru 999 Off-post wells (to be determined).

Off-post wells installed by parties other than USATHAMA, TCAAP, Alliant Techsystems, Inc., or FCC are designated by their Minnesota unique number. A well designation cross reference guide is included as Appendix B, which lists all wells of concern, the USATHAMA designation or Minnesota unique number, and any other name(s) the wells may have. Well locations are illustrated on Plan Sheets 2, 3, and 4.

C. DATA MANAGEMENT

A monitoring program was initiated in January 1984 by USATHAMA to obtain water level and water quality data at TCAAP. Each year has been divided into quarters with each quarter assigned a number. Accordingly, FY 91 was comprised of Quarter 29 (October through December), Quarter 30 (January through March), Quarter 31 (April through June), and Quarter 32 (July through September). Note that the Quarter 30 monitoring event extended into early April, but this data is still designated as Quarter 30.

Data collected at TCAAP is intended to be stored in the USATHAMA Installation Restoration Data Management Information System (IRDMIS). The IRDMIS is managed by Potomac Research, Inc. (PRI) on behalf of USATHAMA.

Section III

Summary of Relevant Activities in Fiscal Year 1991

A. MODIFICATIONS TO THE FFA

As mentioned in Section I of this report, the FFA was modified in February 1992. This modification was officially incorporated as evidenced by correspondence signed by all Project Managers (see Appendix A).

Previously the FFA set forth specific monitoring and reporting requirements; however, the monitoring program has evolved since signing of the FFA. Because the program can change from year to year, it is not feasible to modify the FFA to reflect specific monitoring locations, parameters, and frequencies, or reporting requirements. Therefore, the FFA has been revised to indicate that the specifics for monitoring and reporting for each fiscal year will be outlined in that year's monitoring plan. Because the FY 91 and FY 92 Annual Monitoring Plans were already approved prior to the FFA modifications, these two plans do not address reporting requirements. Thus, this Fiscal Year 1991 Annual Monitoring Report, and next year's FY 92 report are intended to be generally consistent with Fiscal Year 1990 Annual Monitoring Report in terms of content. The Fiscal Year 1993 Annual Monitoring Plan, included as part of this document, outlines the reporting requirements for the Fiscal Year 1993 Annual Monitoring Report.

B. MODIFICATIONS TO THE MONITORING SYSTEM

Five new monitoring wells were installed in July 1991 as part of additional investigation at Site A. The well locations, designated 01U137 through 01U141, are shown on Plan Sheet 3.

The wells were installed on behalf of FCC by STS Consultants, Inc. under the direction of IT Corporation. Although not included in the FY 91 Annual Monitoring Plan, data collected from these new wells during FY 91 is included in this report.

Off-post wells 2U1 (420705) and 2U2 (420712) were abandoned during FY 91, as requested by the MPCA, using procedures in accordance with the Minnesota Department of Health Water Well Code. These wells were not part of the system for routine monitoring.

No other TCAAP wells were installed or abandoned during FY 91. The following wells were inadvertently included in the FY 91 Annual Monitoring Plan; however, they either were abandoned prior to FY 91, or they never existed.

01U536	03U532
01U538	03U533
01U610	03U534
01U675	03U536
03M505	236122 (NWRU4)
03M532	409595
03U531	409598

These wells have been removed from the FY 93 Annual Monitoring Plan.

Section IV

Data Collection and Presentation

A. GROUNDWATER LEVELS

1. Data Collection and Management

Groundwater level measurements were performed at monitoring wells in all aquifer units during FY 91 in accordance with the Fiscal Year 1991 Groundwater Level Monitoring Plan. A copy of this plan is included as Appendix C.

The Fiscal Year 1991 Groundwater Level Monitoring Plan established the monitoring responsibilities for both FCC and Alliant Techsystems, Inc. The intent was to delegate monitoring at each well to one party or the other in order to avoid duplication of effort.

Water level monitoring delegated to FCC was performed by STS Consultants, Ltd. (STS), while monitoring for Alliant Techsystems, Inc. was conducted by CRA.

For each assigned well, STS measured the depth-to-water from top of casing. Using the distance from top of casing to ground surface, STS determined the depth-to-water from ground surface. This information was then submitted to PRI for entry into the IRDMIS. The IRDMIS contains ground surface elevations measured to tenths of a foot for all wells monitored at and near TCAAP. The ground surface elevations are designated TOS: Top of Surface. The IRDMIS does not include top of casing elevations. Thus, PRI took each water level measurement from top of casing, subtracted the distance from top of casing to ground surface, and subtracted this depth below ground surface from the ground surface elevation to arrive at the groundwater elevation. Because the ground surface elevations are only recorded

to tenths of a foot, the resulting groundwater elevations are also only reported to tenths of a foot.

CRA has top of casing elevations for wells which they monitor at and near TCAAP, thus allowing measurement and reporting of groundwater elevations to hundredths of a foot. Through FY 91, CRA has managed their own groundwater level data, rather than entering the data into the IRDMIS.

For preparation of this Fiscal Year 1991 Annual Monitoring Report, Wenck received groundwater elevation data from both FCC and CRA in computer files. The FCC data was retrieved from the IRDMIS, while CRA supplied their data directly. All data was then converted into Lotus 1-2-3 format to permit preparation of the groundwater elevation data table (see Table 1). All data is reported to tenths of a foot, including CRA data which was rounded to the nearest tenth. The groundwater elevation data table presents not only the data for FY 91, but also data for every well monitored since November 1987 (Quarter 16).

To permit comparison between what monitoring was planned and what data was made available to Wenck, the Fiscal Year 1991 Groundwater Level Monitoring Plan (Appendix C) has been marked to indicate what actual FY 91 data is contained in the groundwater elevation data table (Table 1).

For missing data which was to have been collected by FCC or Alliant Techsystems, Inc., correspondence is included in Appendix C providing explanations. Appendix C also indicates that contrary to the objective, duplication of effort occurred between FCC and Alliant Techsystems, Inc. In all cases, the duplication was the result of Alliant Techsystems, Inc. monitoring on-post Unit 3 or Unit 4 wells, which were delegated to FCC. Alliant Techsystems, Inc. conducted this monitoring to assure consistency within the data set that was used in assessing the TGRS performance.

2. Groundwater Elevation Contour Maps

As indicated in the Fiscal Year 1991 Groundwater Level Monitoring Plan (Appendix C), extensive water level monitoring was performed during March 1991 (Quarter 30). Thus, the groundwater elevation data from Quarter 30 was used to prepare contour maps to illustrate groundwater flow directions.

Groundwater elevation contour maps were prepared for both the TCAAP site (on-post) and the overall study area (off-post). Individual maps were developed for upper Unit 3, lower Unit 3, and Unit 4. These maps are presented as Plan Sheets 5 through 10, and Figures 3 through 8. The figures are simply reductions of the plan sheets and are intended to provide the reader with a general illustration of the groundwater flow conditions. For detailed review of wells and data, the reader should refer to the plan sheets. The on-post groundwater elevation contour maps were prepared by CRA while the off-post contour maps were prepared by Wenck. The on-post and off-post contour maps are discussed further in Section V of this report.

Groundwater elevation contour maps were not prepared for the middle Unit 3 aquifer since there are not enough wells screened in this aquifer to justify contouring. However, the data from middle Unit 3 wells for Quarter 30 are shown on the lower Unit 3 contour maps with the data in parentheses. The middle Unit 3 elevations were not used to derive the contour lines, unless there were no nearby lower Unit 3 wells to rely upon. In general, the difference in water levels between middle Unit 3 and lower Unit 3 is insignificant.

For the same reason, wells completed in the Jordan aquifer (04J), and wells completed as open holes intersecting both the Prairie du Chien and Jordan (PJ#), were not used for preparing the upper Unit 4 groundwater elevation contours. These elevations are shown on Figure 8 and Plan Sheet 10 in parentheses for comparison.

3. Hydrographs

Figure 2 was prepared to illustrate hydrographs for six Unit 1 wells at Site A. These hydrographs are discussed further in Section IX.B of this report. Other hydrographs, at locations selected by the contractors and regulatory agencies, are presented in the appendices as supporting information for evaluation of the TGRS in Section X.

B. GROUNDWATER QUALITY

1. Data Collection and Management

Groundwater quality samples were collected at monitoring wells during FY 91 in accordance with the Fiscal Year 1991 Groundwater Quality Monitoring Plan, a copy of which is included as Appendix D. The plan established the monitoring responsibilities for both FCC and Alliant Techsystems, Inc. The intent was to delegate monitoring at each well to one of the two parties in order to avoid duplication of effort.

Appendix E summarizes the individual parameters included within each analytical category as indicated on the Groundwater Quality Monitoring Plan. Halogenated volatile organic compounds (Category 1) were the parameters of primary interest, while select wells were sampled for aromatic volatile organic compounds (Category 7), metals (Category 2), and cyanide (Category 4).

Groundwater sampling delegated to FCC was performed by STS, while monitoring for Alliant Techsystems, Inc. was conducted by CRA. All samples were analyzed by PACE, Inc.

All laboratory data for both FCC and Alliant Techsystems, Inc. monitoring was submitted to PRI for entry into the IRDMIS. After entry into the IRDMIS, FCC and CRA retrieved the

data for FY 91 and provided it to Wenck in computer files. (Note: the Alliant Techsystems, Inc. data was provided to CRA by PRI.)

All groundwater quality data received by Wenck was converted into Lotus 1-2-3 format to permit preparation of tables. Organic groundwater quality data for FY 91 is presented in Table 2, along with past data back to November 1987 (Quarter 16). Table 3 presents inorganic groundwater quality data in a similar manner. Table 4 presents PCB data for both groundwater and surface water sampling during FY 91.

To permit comparison between what monitoring was planned and what data was made available to Wenck, the Fiscal Year 1991 Groundwater Quality Monitoring Plan (Appendix D) has been marked to indicate the data which is not in the water quality data tables (Tables 2, 3, and 4). For missing data which was to have been collected by FCC, correspondence is included in Appendix C providing explanations. Alliant Techsystems, Inc. collected all the designated water quality samples as specified in the Fiscal Year 1991 Groundwater Quality Monitoring Plan.

Delegation of monitoring activities successfully achieved the objective of avoiding duplication of sampling at any wells.

This report also includes data collected by the MPCA during FY 91. Copies of the laboratory reports were obtained directly from the MPCA since this data is not entered into the IRDMIS. A summary table of the sampling performed by the MPCA during FY 91 is included in Appendix D. The summary table is marked to indicate what data is included in the water quality data tables of this report. The summary table also indicates what data has been validated. Unvalidated data is so marked in the water quality data tables.

2. Exceedances of Groundwater Action Criteria

As required by Attachment 3 of the FFA, a table has been prepared which summarizes all groundwater monitoring results from FY 91 which exceeded the action criteria set forth in revised Table 3.7A of the FFA (see Appendix A). The action criteria are only intended to indicate locations where additional work may be required. In most instances, particularly on-post, the exceedances are already being addressed by Interim Remedial Actions. The action criteria are not intended to be cleanup levels.

The exceedance summary for VOCs is included as Table 5. The groundwater action criteria are presented near the top of the table with the well locations, monitoring dates, and concentration values listed below. Further discussion of the groundwater action criteria exceedances for VOCs is provided in Section VII of this report.

The number of exceedances for inorganic parameters did not warrant preparation of a table. All of the exceedances occurred at Site A and are discussed in Section IX.

3. Groundwater Quality Contour Maps

As indicated on the Fiscal Year 1991 Groundwater Quality Monitoring Plan (Appendix D), the most extensive sampling event performed during FY 91 was in March (Quarter 30). Thus, the groundwater quality data from Quarter 30 was used to prepare contour maps to illustrate the spatial distribution of groundwater contamination.

Contour maps are provided for trichloroethene and 1,1,1-trichloroethane, as these are the principal individual contaminants on a concentration basis. Contour maps were prepared by Wenck for both the TCAAP site (on-post) and the overall study area (off-post), with individual maps for upper Unit 3, lower Unit 3, and upper Unit 4. These maps are presented as Plan Sheets 11 through 22 with reductions presented as Figures 9 through 20. The figures are simply reductions of the plan sheets and are intended to provide the reader

with a general illustration of the groundwater quality conditions. For detailed review of wells and data, the reader should refer to the plan sheets.

Contaminant concentrations for middle Unit 3 wells for Quarter 30 are shown in parentheses on the lower Unit 3 contour maps (Figures 13-16 and Plan Sheets 15-18), but the middle Unit 3 wells were not used for contouring purposes. Similarly, wells completed in the Jordan aquifer (04J) and wells completed as open holes intersecting both the Prairie du Chien and Jordan (PJ#) are shown with the data in parentheses on the upper Unit 4 maps (Figures 17-20 and Plan Sheets 19-22), but were not used to develop contour lines.

Contaminant concentrations at recovery wells are also shown in parentheses on the maps (Figures 9-20 and Plan Sheets 11-22), but were not used to prepare the contours.

Concentrations of recovery wells generally represent an average contaminant value for all groundwater being drawn to the well; hence, the concentrations do not necessarily represent a discrete location or depth.

Further discussion of the groundwater quality contour maps for on- and off-post is provided in Section VI of this report.

For Site A, concentration contour maps were developed for 1,2-dichloroethene, trichloroethene, and tetrachloroethene as these are the principal contaminants at Site A. Contour maps for Site A were prepared only for Unit 1 since this is the aquifer of primary concern. Unlike the other contour maps, the Site A contour maps were prepared using data from July 1991 (Quarter 32) to incorporate data from the five new wells installed during that month. Further discussion of the Site A groundwater quality is provided in Section IX.C of this report.

4. Groundwater Quality Cross Sections

To complement the groundwater quality contour maps, two cross sections have been prepared to illustrate the vertical distribution of groundwater contamination. One section line passes through the source area at Site G and follows the north plume off-post, extending past Gross Golf Course (well 200812). The second section line passes through the source area at Site I and traces the south plume off-post. The lines of section are illustrated on Plan Sheet 3. Geologic information and the positions of well screens and open holes were taken from well logs obtained from the MPCA, FCC, and CRA.

Plan Sheet 23 and Figure 21 present both cross sections along with contoured trichloroethene data from March 1991 (Quarter 30). Similarly, Plan Sheet 24 and Figure 22 present both cross sections with 1,1,1-trichloroethane data. The cross sections are discussed in Section VI of this report.

5. Water Quality Trend Figures

Water quality trend figures have been prepared for select wells and parameters to illustrate changes in concentrations versus time. The trend illustrations are presented as Figures 23 through 44. Appendix G also presents trichloroethene trend plots for the TGRS recovery wells.

The selected wells and parameters are the same as those presented in the Fiscal Year 1990 Annual Monitoring Report. Nearly all trends illustrate trichloroethene concentrations since this compound is the primary indicator of contamination for most of the study area. At Site 129-15 and Site A, trends for additional VOC parameters were prepared. Wells were generally selected to represent conditions near known source areas, the southwest boundary area, and off-post.

Further discussion of the water quality trend figures is included in Section VII, while discussion of the trend figures for Site A is provided in Section IX.C of this report.

C. SURFACE WATER QUALITY

Surface water monitoring during FY 91 at TCAAP consisted of performing the sampling required by the TCAAP National Pollutant Discharge Elimination System (NPDES) permit. Under the permit, the Army is required to monitor six locations, five of which are monitored by FCC (20100-20500) and one of which is monitored by Alliant Techsystems, Inc. (20201). An additional eight locations not required by the NPDES Permit are monitored by FCC. The sampling point locations are shown on Figure 59. Monitoring is performed for VOCs, PCBs, metals, radionuclides, and various inorganic parameters.

The surface water monitoring and laboratory analysis for FCC was performed by PACE, Inc. All FCC data for NPDES monitoring was submitted to PRI for entry into the IRDMIS. FCC retrieved the data from the IRDMIS and provided it to Wenck in computer files. The data was converted into Lotus 1-2-3 format and is presented as Tables 4 (PCB data), 6 (organic data), and 7 (inorganic data). Further discussion of surface water quality data collected by FCC is presented in Section VIII of this report.

Section V

Discussion of Groundwater Flow

A. UPPER UNIT 1

Unit 1 is discontinuous beneath TCAAP and is primarily a concern only at Sites A, B, C, I, J, and K. Unit 1 is generally absent in the central portion of TCAAP where glacial kame deposits (Unit 3) occur at the surface. Groundwater elevation contour maps are presented and discussed in the sections of this report regarding Sites A and K.

B. UPPER UNIT 3

Groundwater elevation contours for upper Unit 3 are shown on Figures 3 and 4 for on-post and off-post areas, respectively. Groundwater elevations determined during March 1991 allow assessment of flow directions on-post and in the area southwest of TCAAP, extending approximately one mile to near Interstate 694.

Similar to last year's interpretation, the general groundwater flow direction in Unit 3 is to the southwest. Local variations in flow direction range from west to south. Detailed discussion of pumping effects on groundwater flow conditions in the vicinity of the TGRS is discussed in Section X.

Compared to last year, off-post groundwater elevations in upper Unit 3 are slightly higher near TCAAP and slightly lower near Long Lake. Horizontal hydraulic gradients calculated from groundwater elevation contours at various off-post locations are similar to last year's and indicate a range of 0.007 to 0.004 feet per foot.

The observed overall trend of the off-post flow direction appears to show a gradual shifting from a strong westerly component near the southwest corner of TCAAP, to a more southerly component, to a more westerly component in the vicinity of Long Lake.

C. LOWER UNIT 3

Figure 5 (on-post) and 6 (off-post) present groundwater elevation contours for lower Unit 3. As noted last year, the groundwater flow direction in lower Unit 3 is similar to that of upper Unit 3. Compared to last year, off-post groundwater elevations are generally lower near Long Lake and slightly higher near TCAAP. Horizontal hydraulic gradients calculated from the groundwater elevation contours at various off-post locations indicate a range of 0.0001 to 0.004 feet per foot.

D. UPPER UNIT 4

Figures 7 (on-post) and 8 (off-post) show groundwater elevation contours for upper Unit 4. Figure 7 shows that on-post, groundwater in upper Unit 4 flows to the southwest with little variation.

The observed off-post groundwater flow pattern is, in general, similar to last year's findings with flow to the southwest. The groundwater flow direction is southward near TCAAP and gradually bends more westward towards Long Lake. Beyond Pike Lake, the flow direction continues westward with a gradual bending southward -- likely in response to pumping at New Brighton Municipal Wells #3 and #6 (206793 and 206797). Near the New Brighton wells, the flow direction continues curving southward towards the St. Anthony municipal well field.

In general, off-post groundwater elevations are lower this year compared to last year, especially in the region near Pike Lake extending to Silver Lake. Horizontal hydraulic gradients calculated for the groundwater elevation contours at various locations indicate a range of 0.0004 to 0.007 feet per foot.

E. SUMMARY

In general, groundwater elevations in Unit 3 and upper Unit 4 appear to have continued dropping in recent years. Table 1 shows that groundwater levels recorded in March 1991 are, in most cases, at their lowest elevation since November 1987 or earlier.

Groundwater flow directions on-post and off-post in upper and lower Unit 3 and upper Unit 4 all exhibit a general southwestward trend. Local variations are observed, particularly near the southwest boundary and further off-post where the groundwater flow direction varies from west to south. The off-post upper Unit 4 groundwater elevation contour map suggests that the New Brighton and St. Anthony municipal well fields influence groundwater flow further southwest from TCAAP.

Section VI

Discussion of Groundwater Quality for the Overall Study Area

The purpose of this section is to discuss the overall extent of contamination for the study area, including both on-post and off-post. The discussion is based primarily upon the groundwater quality contour maps presented as Figures 9 through 22. Discussion of specific sites or areas is provided in Section VII of this report, including trends in contaminant concentrations. Because inorganic monitoring was limited during FY 91, this entire section is devoted to groundwater quality with respect to VOCs. All statements and interpretations should be regarded as referring to VOC groundwater quality only.

A. UPPER UNIT 1

The Unit 1 aquifer is discontinuous beneath TCAAP, principally occurring beneath the northern, western, and southwestern portions of the site. Groundwater impacts are not widespread in Unit 1, but contamination is present near Sites A, I, and K. Sites B, C, and J also represent potential concerns. Because the impacts are limited to these relatively localized areas, overall groundwater quality contour maps were not prepared for Unit 1. For the purposes of this report, detail maps for Site A have been prepared to illustrate groundwater quality contours (see Plan Sheets 26 through 28). Discussion of groundwater quality for Sites A, K, and I are provided in Sections IX, XI, and XII of this report.

B. UPPER UNIT 3

1. Background Conditions

Background conditions for organic groundwater quality at TCAAP are provided by monitoring wells near the upgradient (eastern) property boundary. Upper Unit 3 wells monitored for this purpose during FY 91 consisted of 03U007 and 03U009.

The groundwater quality data in Table 2 shows that no VOC contaminants were detected at either well during FY 91, similar to previous monitoring events.

2. Contaminant Plume Characterization

a. Trichloroethene

With respect to concentration values, trichloroethene continues to be the most prevalent contaminant, both on- and off-post. Groundwater quality contour maps of trichloroethene concentrations monitored in upper Unit 3 are presented as Figures 9 (on-post) and 10 (off-post). Figure 21 presents cross sections A-A' and B-B' which illustrate trichloroethene contours roughly along the axes of the main "northern" and "southern" plumes, respectively.

Figure 9 shows that the highest on-post concentrations are at wells 03U093 and 03U317, which are close to and downgradient of Site D. Concentrations for recovery wells were not used for contouring purposes, so data for 03U317 (source recovery well #5) was not contoured. Compared to last year, well 03U093 showed a reduction in concentration of 31,400 $\mu\text{g}/\text{l}$, dropping from 40,000 $\mu\text{g}/\text{l}$ to 8,600 $\mu\text{g}/\text{l}$. The reduction at this well eliminated the 10,000- $\mu\text{g}/\text{l}$ contour that had been shown in previous years. It should be noted that a 10,000- $\mu\text{g}/\text{l}$ contour might exist at other locations near 03U093 in upper Unit 3. The general inference is that the

source area for groundwater contamination is being reduced at Site D, and that the TGRS source control wells are removing contaminated groundwater immediately downgradient of Site D.

The next highest on-post concentrations are found downgradient of Site G at wells 03U014 and 03U314 (source recovery well #42) at levels of 8,000 $\mu\text{g}/\text{l}$ and 5,800 $\mu\text{g}/\text{l}$, respectively. As 03U314 is a source recovery well, it was not used for contouring purposes. The concentration at 03U014 decreased 1,500 $\mu\text{g}/\text{l}$ since March 1990 and 9,000 $\mu\text{g}/\text{l}$ since October 1989, suggesting that the source area for groundwater contamination is being reduced at Site G.

Cross section A-A' on Figure 21 shows that a 10,000- $\mu\text{g}/\text{l}$ contour is estimated in the middle Unit 3 region beneath well 03U020. The reader should note that the cross sections bring to light the wide range of elevations that the upper, middle, and lower wells are screened at and share in common.

Similar to last year, the 1,000- $\mu\text{g}/\text{l}$ contour is inferred to connect around Sites D and G, suggesting that the plumes from the two source areas merge in the vicinity of Building 503, as shown on Figure 9. This year, the 1,000- $\mu\text{g}/\text{l}$ contour extends further beyond the TCAAP boundary. Cross section A-A' shows that the 1,000- $\mu\text{g}/\text{l}$ contour appears to diverge into upper and lower zones in the vicinity of well 03U077. This contour wraps around wells 03M806 and 03L806, perhaps due to a less permeable "clayey" zone that causes the plume to flow around it.

Significant concentration reductions at wells 03U021, 03U028, and 03U671 cause closure of the 100- $\mu\text{g}/\text{l}$ contour around Site I, unlike last year. This suggests more separation between the northern plume emanating from Sites D and G and the southern plume originating from Site I.

The southern plume downgradient of Site I is also shown on Figure 9. The downgradient extent of the plume in upper Unit 3 is defined by the 03U673 well. However, the cross section interpretation shown on B-B' (Figure 21) suggests that the 1,000- $\mu\text{g}/\text{l}$ contour was close to the upper Unit 3 level at 03U673 during the March sampling event.

Figure 9 displays the trichloroethene concentrations for Unit 3 recovery wells along the southwest boundary (03F wells); however, as previously mentioned, these values were not used for contouring.

Similar to last year, trichloroethene concentrations above the method detection limit, but less than 5 $\mu\text{g}/\text{l}$, were reported at 03U031 southeast of Site K and at various wells near the gravel pit. The 1- $\mu\text{g}/\text{l}$ contour around the gravel pit has decreased in areal extent, pulling back toward the gravel pit boundary. These detections are discussed in Section VII of this report. Wells 03U005 and 03U099 near Site H did not show detections this year compared to concentrations of 0.70 $\mu\text{g}/\text{l}$ and 1.14 $\mu\text{g}/\text{l}$, respectively, as reported last year.

Like last year, Figure 10 shows the northern plume associated with Sites D and G extending off-post in a gradual westward to southwestward arc. In general, it appears that the off-post portion of the plume has widened outward perpendicular to the general groundwater flow direction. Wells 03U811 and 03U822, which define the western edge of the plume, had reportable detections this year.

Based on results for well 409550 (1,600 $\mu\text{g}/\text{l}$) and on the interpretation of cross section A-A', the 1,000- $\mu\text{g}/\text{l}$ contour is shown to extend further off-post to near Rush Lake this year. Also, based on cross section A-A', the 100- $\mu\text{g}/\text{l}$, 10- $\mu\text{g}/\text{l}$, and 1- $\mu\text{g}/\text{l}$ contours near Long Lake are interpreted to bend back toward the southwest, even though no data is available for contouring in this area in upper Unit 3. The contours end approximately in the area shown on cross section A-A' where Unit 3 is

shown to pinch out. In addition, the overall trend of the plume matches the overall trend of the groundwater elevation contours. Compared to last year, this interpretation does not suggest that the plume has rapidly migrated, but rather that the cross sections better define the distribution of the plume.

The overall picture for trichloroethene in upper Unit 3 is that of plume reduction near source areas and gradual movement of the plume off-post.

b. 1,1,1-Trichloroethane

Groundwater quality contour maps for 1,1,1-trichloroethane in upper Unit 3 have been prepared as Figures 11 (on-post) and 12 (off-post). Similar to the trichloroethene contour maps, 1,1,1-trichloroethane contour maps indicate that Sites D and G are the principal sources for this contaminant. However, the maximum concentrations for 1,1,1-trichloroethane are lower than those for trichloroethene. In the same vein, comparison of the horizontal and vertical extent of high concentration contours and of high well concentration values for 1,1,1-trichloroethane versus trichloroethene shows that the former is less pervasive. This observation can be seen by comparing the corresponding contour maps and cross sections A-A' and B-B' for each respective compound.

Unlike the trichloroethene contour map where the 1,000- $\mu\text{g}/\text{l}$ contour merges between Sites D and G, the 1,1,1-trichloroethane map shows two separate 1,000- $\mu\text{g}/\text{l}$ areas, similar to last year's interpretation. However, this year the areal extent of the 1,000- $\mu\text{g}/\text{l}$ contour near Site G is less, due primarily to the 1,100- $\mu\text{g}/\text{l}$ reduction reported at 03U114. The 1,1,1-trichloroethane concentrations at 03U114 generally increased from 860 $\mu\text{g}/\text{l}$ in November 1987 to a maximum of 1,400 $\mu\text{g}/\text{l}$ in May 1990, and have generally decreased since to a low of 165 $\mu\text{g}/\text{l}$ in September 1991. Furthermore the 1,000- $\mu\text{g}/\text{l}$ contour is not joined due to a concentration of 930 $\mu\text{g}/\text{l}$ at 03U020; this value represents an increase from last year of about 500 $\mu\text{g}/\text{l}$. Prior to 1990, data for

this well had been greater than 1,000 $\mu\text{g}/\text{l}$, suggesting that the 1,000- $\mu\text{g}/\text{l}$ contours did merge at one time. The 1,000- $\mu\text{g}/\text{l}$ contour from Site D extends west-southwest slightly beyond wells 03U077 and 03F306, as shown on Figure 11 and on cross section A-A' (Figure 22). Similar to A-A' for trichloroethene, A-A' for 1,1,1-trichloroethane shows that near 03U077 the 1,000- $\mu\text{g}/\text{l}$ contour appears to bend around a zone defined by wells 03U806 and 03M806. This zone is likely a region of lower permeability, as suggested by the presence of the red till lens and by the contaminant concentrations. Figure 12 shows the plume extends off-post, gradually curving more southward.

Unlike this year, last year's contour map showed two separate 1,000- $\mu\text{g}/\text{l}$ contours off-post. Last year's contouring was based on the results for 409550 in conjunction with the speculation of a separate contaminant source near the Lee well (234425). The 1,000- $\mu\text{g}/\text{l}$ contour is shown joined this year based on the increased concentration at 409550 and on the interpretation of cross section A-A'; the possibility of a separate source near the Lee well now appears less likely.

The 100- $\mu\text{g}/\text{l}$ contour is shown to end at about the same location as it did last year, near 03U821. Cross section A-A' shows that upper Unit 3 well 03U821 and nearby lower Unit 3 well 03L853 are screened at about the same elevation. Even though 03U821 showed a concentration of 37 $\mu\text{g}/\text{l}$, the reference point for the 100- $\mu\text{g}/\text{l}$ contour was based on the 130 $\mu\text{g}/\text{l}$ concentration of 03L853. Furthermore, in terms of elevation with reference to wells 03M806 and 03M020, wells 03U821 and 03L853 could be viewed as middle Unit 3 wells.

The southern extent of 1,1,1-trichloroethane as defined by the 10- $\mu\text{g}/\text{l}$ and 1- $\mu\text{g}/\text{l}$ contours is based on cross section A-A' and on results for wells 03U822, 03U824, and 03U832. Similar to the off-post trichloroethene contour map, the off-post 1,1,1-trichloroethane contour map shows a slight widening of the plume and a southwestward shift near Long Lake. Again, the interpretation is that the cross

section better defines the extent of the plume, and not that the plume has suddenly migrated.

As previously mentioned, in addition to the northern plume emanating from Sites D and G, Figure 12 indicates a separate southern plume near Site I. Due to a significant concentration decrease at 03U021, this year a 10- $\mu\text{g/l}$ contour closes around Site I, which suggests further separation between the northern and southern plumes. The Site I plume appears to diminish just off-post between 03U801 and 03U673, as shown on Figure 12 and by cross section B-B' (Figure 22).

C. LOWER UNIT 3

1. Background Conditions

The lower Unit 3 well 03L007 along the upgradient TCAAP boundary was sampled during FY 91 and no VOC contamination was detected. This finding corresponds with previous sampling results for upgradient lower Unit 3 background wells.

2. Contaminant Plume Characterization

a. Trichloroethene

Contour maps for trichloroethene concentrations in lower Unit 3 are provided as Figure 13 (on-post) and 14 (off-post). Recovery and middle Unit 3 wells are also shown on the plan sheets, but were not used for contouring purposes. Cross sections A-A' and B-B', which include horizontal and vertical trichloroethene distribution in lower Unit 3, are shown on Figure 21. It is worth noting that cross section A-A' shows the much deeper screen elevations of lower Unit 3 wells 03L014 and 03L113 located in the bedrock valley region.

Figure 13 indicates that the 1,000- $\mu\text{g}/\text{l}$ contour for the northern plume associated with Sites D and G merges in the vicinity of Building 503. Cross section A-A' suggests that a region above well 03L020 at 03M020 has a 10,000- $\mu\text{g}/\text{l}$ contour.

Although lower Unit 3 wells are not present in the vicinity of Site D, this year's contouring suggests a distinct lobe from Site D, similar to the lobe defined by 03L020 from Site G.

A separate trichloroethene plume, similar to upper Unit 3, appears downgradient of Site I. The lower Unit 3 plume is near 03L673 and is further off-post than the corresponding upper Unit 3 portion. This observation is readily reinforced by review of cross section B-B' (Figure 21).

Concentrations for the Unit 3 recovery wells along the southwest boundary on Figure 13 were not used for contouring. Similar to last year's findings, the concentrations at 03F305 through 03F308 match well with the lower Unit 3 contours, while values at 03F302 through 03F303 match more closely with those of upper Unit 3 contours; well 03F304 matches both. The above relationships appear to be functions of screened depth and thickness of the Unit 3 aquifer for each respective well. Wells 03F305 through 03F308 are located where Unit 3 extends deeper; thus, these wells are generally screened deeper than 03F302 through 03F304. It should be noted that the concentration at 03F312 does not match well with either the upper or lower Unit 3 contour maps, which is likely the result of mixing of both upper and lower Unit 3 water, along with clean water, since the extraction well is located near the edge of the plume.

On-post, the extent of contamination, as defined by the 1- $\mu\text{g}/\text{l}$ contour, is similar to last year's findings. The 1- $\mu\text{g}/\text{l}$ contour extends further north in the vicinity of 03L001 for lower Unit 3 versus upper Unit 3. Outside of the main plume, a detection of 0.52 $\mu\text{g}/\text{l}$ was reported near the gravel pit at 03L523.

Off-post, the merged plume from Sites D and G gradually curves southward towards the southeast edge of Long Lake, as shown on Figure 14. The 1,000- $\mu\text{g}/\text{l}$ contour projects beyond Rush Lake to near 03L853. With the aid of cross section A-A', this year's interpretation shows that the 100- $\mu\text{g}/\text{l}$, 10- $\mu\text{g}/\text{l}$, and 1- $\mu\text{g}/\text{l}$ contours curve southwestward ending near 409556, where Unit 3 is shown to pinch out. The overall trend of the plume is similar to the overall trend of the groundwater elevation contour maps for lower Unit 3 and upper Unit 4 (Figures 6, and 8). Similarly, the overall trend of the plume is similar to the trend of trichloroethene concentration contours for upper Unit 4 (Figure 18), which is discussed in following sections.

The 1,000- $\mu\text{g}/\text{l}$ contour for the southern Site I plume appears to be limited between 03L673 and 03L848, as shown on cross section B-B' (Figure 21) and on Figure 14. This plume also bends southward from TCAAP, but does not extend as far south as the northern plume. The two plumes are clearly shown to be separated by the results of $< 1 \mu\text{g}/\text{l}$ for 03L841, 03L859, 409557, and 03L854.

b. 1,1,1-Trichloroethane

Contour maps for 1,1,1-trichloroethane concentrations in lower Unit 3 are presented as Figures 15 (on-post) and 16 (off-post). Cross sections A-A' and B-B' with 1,1,1-trichloroethane contours are presented as Figure 22.

Similar to the contour maps for trichloroethene, the plumes from Sites D and G are merged on-post in lower Unit 3, and this year show better distinction between the two sources. Like last year, the 1,000- $\mu\text{g}/\text{l}$ contour defines the greatest impact near the southwest portion of TCAAP and extends off-post to just west of Highway 35W. The limit of the 1,1,1-trichloroethane plume, as defined by the 1- $\mu\text{g}/\text{l}$ contour, is narrower on-post than the trichloroethene plume.

Based on cross section A-A', the contours on Figure 16 suggest that the lower Unit 3 1,1,1-trichloroethane plume bends sharply between Rush Lake and Long Lake and subsequently trends southwest past Pike Lake towards well 409550 where Unit 3 appears to pinch out. This interpretation is supported by the groundwater elevation contour maps for lower Unit 3 and upper Unit 4, and the general trend of 1,1,1-trichloroethane and trichloroethene contours for upper Unit 4.

The southern plume originating from Site I does not appear to have significantly impacted lower Unit 3 on-post, as seen on Plan Sheet 17 and cross section B-B' (Figure 22). Impacts off-post are delineated as defined by the 1- $\mu\text{g/l}$ contour which extends between 03L673 and 03L848.

Other than the plumes described above, no detections of 1,1,1-trichloroethane were reported either on-post or off-post for March 1991.

D. UPPER UNIT 4

1. Background Conditions

To assess background conditions in upper Unit 4, monitoring was performed during FY 91 at 04U007 and 04U510 near the eastern TCAAP boundary. No VOC detections were reported at these wells, similar to previous sampling events.

2. Contaminant Plume Characterization

a. Trichloroethene

Contour maps for trichloroethene concentrations in upper Unit 4 are included as Figures 17 (on-post) and 18 (off-post). Figure 17 and cross section A-A' (Figure 21)

show that the maximum trichloroethene concentrations on-post in upper Unit 4 are defined by the 1,000- $\mu\text{g}/\text{l}$ contour around 04U077. The 100- $\mu\text{g}/\text{l}$ contour extends on-post around 04U020 in the vicinity of where the plumes from Sites D and G merge. Note the wide range of screened and open hole elevation intervals at which upper Unit 4 wells exist.

Similar to last year, an unusual twisting feature is created by the 10- $\mu\text{g}/\text{l}$ contour near wells 04U001, 04U713, and 04U714. Pumping at wells PJ#313 and PJ#311 may be decreasing trichloroethene concentrations near 04U713, thus causing the sharp contour.

Figures 17 and 18 and cross section B-B' (Figure 21) indicate that the southern plume emanating from Site I has only minimally impacted upper Unit 4 on-post, as evidenced by the concentration of 2.21 $\mu\text{g}/\text{l}$ at 04U003. These drawings show that the maximum concentrations of the Site I plume for upper Unit 4 are defined by the 100- $\mu\text{g}/\text{l}$ contour around 04U673, 04U845, and 234335 (Mengelkoch #1). The concentration at 04U673 decreased from 3,100 $\mu\text{g}/\text{l}$ in May 1990 to 990 $\mu\text{g}/\text{l}$ in March 1991, so a 1,000- $\mu\text{g}/\text{l}$ contour was not drawn around 04U673 this year.

Figure 18 illustrates that the northern plume originating from Sites D and G swings southward away from TCAAP and apparently bends back westward in the vicinity of Long Lake. Furthermore, as noted last year, the northern plume appears to split into two lobes in the vicinity of Long Lake as defined by the 100- $\mu\text{g}/\text{l}$ contour, which extends west around 409549, then back east around 04U849, and finally back west towards 206793. The westward shift of the plume is most likely in response to pumping at New Brighton municipal wells #3 and #6 (206793 and 206797), but the cause for the plume split is not obvious. Previous concentrations at 04U849 decreased from 460 $\mu\text{g}/\text{l}$ on December 1, 1987, to 41.4 $\mu\text{g}/\text{l}$ on August 24, 1988, to 18.10 $\mu\text{g}/\text{l}$ on April 18, 1990. This suggests that the division was not always well-defined, and furthermore, this year's concentration increased slightly to 31.80 $\mu\text{g}/\text{l}$.

The 100- $\mu\text{g}/\text{l}$ contour is interpreted to extend slightly beyond 206797 as shown on Figure 18 and cross section A-A' (Figure 21). The 10- $\mu\text{g}/\text{l}$ and 1- $\mu\text{g}/\text{l}$ contours suggest that the plume bends once more southward in the vicinity of these wells, probably in response to pumping of St. Anthony municipal wells located further south near Silver Lake Road.

Figure 18 indicates that the 1- $\mu\text{g}/\text{l}$ contour encompasses both the north and south plumes migrating southwest away from TCAAP. The 10- $\mu\text{g}/\text{l}$ contours show separation between the two plumes near TCAAP. Further south, in the vicinity of 04U832, the 10- $\mu\text{g}/\text{l}$ contours indicate a gradual merging of the two plumes, yet further south the plumes diverge once again as indicated by low concentrations at 04U846 and 409548. The low concentrations at these two wells suggest this is an area of relatively lower hydraulic conductivity in the Prairie du Chien, perhaps a less fractured zone.

Figure 18 and cross section A-A' (Figure 21) indicate evidence for a separate source of trichloroethene which is contributing to the plume south of County Road C. The available data results in a 100- $\mu\text{g}/\text{l}$ contour line around 200812 (Gross Golf Course). While it is reasonable that the 1- $\mu\text{g}/\text{l}$ contour from the TCAAP plume connects with the 1- $\mu\text{g}/\text{l}$ contour south of County Road C, the 100- $\mu\text{g}/\text{l}$ contours are separated by over 2 miles in distance. Cross section A-A' (Figure 21), which runs roughly through the axis of the plume, shows that it is unlikely that the northern 100- $\mu\text{g}/\text{l}$ contour near 206797 is connected with the 100- $\mu\text{g}/\text{l}$ contour near Gross Golf Course (200812).

b. 1,1,1-Trichloroethane

Contour maps and cross sections are presented as Figure 19 (on-post), and 20 (off-post), and 22, respectively. The shapes of the plumes are generally the same as for trichloroethene, but the 1,1,1-trichloroethane concentrations are lower.

Unlike last year when no concentrations of 1,1,1-trichloroethane were greater than 800 $\mu\text{g}/\text{l}$, this year the maximum concentration of the plume from Sites D and G is defined by a 1,000- $\mu\text{g}/\text{l}$ contour around 04U806 extending to near 04U847, as shown on Figure 20 and cross section A-A' (Figure 22). The 100- $\mu\text{g}/\text{l}$ contour extends from near Building 503 on-post to south of Interstate Highway 694 near New Brighton municipal well #3 (206793). Near Long Lake, the plume bends westward and branches into two lobes as defined by the 10- $\mu\text{g}/\text{l}$ contour. The 10- $\mu\text{g}/\text{l}$ contour extends further west-southwest past New Brighton municipal well #6 (206797).

Impacts to upper Unit 4 from the Site I plume are limited to a small area near 04U673, as defined by the 1- $\mu\text{g}/\text{l}$ contour shown on Figure 20 and cross section B-B' (Figure 22).

Similar to the trichloroethene contour map for upper Unit 4, Figure 20 and cross section A-A' (Figure 22) suggest that a separate source of 1,1,1-trichloroethane may be contributing to the plume south of County Road C. Similar to last year, it is not clear whether the 1- $\mu\text{g}/\text{l}$ contours connect as 04U882 and 04U883 showed concentrations reported at $< 1.00 \mu\text{g}/\text{l}$. The 10- $\mu\text{g}/\text{l}$ contours appear to be separated by over 2 miles.

E. VINYL CHLORIDE

Relative to the other VOC compounds, vinyl chloride has a low groundwater action criteria which justifies special discussion for this parameter. As set forth in revised Table 3.7A of the FFA, the groundwater action criteria for vinyl chloride is 0.015 $\mu\text{g}/\text{l}$. During FY 91, similar to previous years, vinyl chloride was not detected in any wells above the method detection limits, as shown in Table 2.

F. SUMMARY

The groundwater quality contour maps indicate that Sites D and G are sources for VOC contamination. The plumes from these two sites merge in the vicinity of Building 503 on-post, and continue to progress off-post as one plume. In general, the plume shows reduction in contaminant concentrations near the source areas. The reduction near the source areas indicates that remediation of the soils at Sites D and G is effectively minimizing additional impacts to groundwater.

The contour maps also show that Site I is a source area of VOC contamination; however, the magnitude and extent of the Site I plume are less than those of the plume associated with Sites D and G. The main body of the Site I plume is clearly distinguishable from the plume associated with Sites D and G.

The on-post upper Unit 3 aquifer has the highest VOC concentrations, although the intermediate depth well 03M020 showed the highest concentration of all non-recovery wells at 13,000 $\mu\text{g/l}$ trichloroethene. As the contamination moves downgradient, it is also migrating progressively deeper within the series of aquifer units. Thus, relative to lower Unit 3 and upper Unit 4, contamination in upper Unit 3 represents the highest concentrations on-post, but the lateral extent of contamination in this unit off-post is the least. Conversely, upper Unit 4 shows the least impact on-post, but the greatest impact off-post.

Contamination in upper and lower Unit 3 and upper Unit 4 trends southward as it migrates away from TCAAP. Near Long Lake, apparently in response to pumping at New Brighton municipal wells #3 and #6, the path of the plume swings back westward. Unit 3 appears to pinch out into a clay unit near 409556 and New Brighton municipal well #3. Upon encountering the relatively impermeable clay in Unit 3, the contaminants are apparently moving completely downward into the underlying Prairie du Chien (upper Unit 4). In this same area, the plume turns southward once more towards the St. Anthony municipal well field.

The data suggests trichloroethene from TCAAP may have migrated south of County Road C. However, it is not as clear whether 1,1,1-trichloroethane from TCAAP has migrated south of this road. Furthermore, the plume cross sections indicate the possibility that a separate source, unrelated to TCAAP, may be contributing to the concentrations at wells 200812, 234546, 234547, and 233221 located south of County Road C.

Section VII

Discussion of Groundwater Quality for Specific Areas

A. KNOWN OR POTENTIAL SOURCE AREAS

1. Site A

Discussion of groundwater quality data for Site A is presented in Section IX of this report.

2. Site B

Site B, located along the northern boundary of TCAAP, consists of old building foundations where waste disposal was suspected. However, historic groundwater sampling at Site B has not detected any significant groundwater contamination.

Limited sampling was performed at Site B during FY 91 as a continued check on groundwater quality. Wells 01U036, 01U037, and 03U082 at Site B were sampled during March and April 1991 for halogenated VOCs (Category 1). Well 01U036 was sampled in March and results showed a negligible detection of 1,2-dichloroethene at 0.62 $\mu\text{g}/\text{l}$; no other halogenated VOCs were detected, which is consistent with the last two sampling events. Results of the analysis for April sampling of 01U037 did not detect the presence of halogenated VOCs, which is consistent with prior results. Halogenated VOCs were not detected at 03U082 during March 1991, similar to the results of April 1988, the last time this well was sampled. The complete listing of the TCAAP organic groundwater quality data is included as Table 2.

3. Site C

Site C, located along Mounds View Road in the north-central portion of TCAAP, was documented as a potential disposal site. Historic groundwater sampling has not detected any significant contamination.

Groundwater sampling performed at Site C in FY 91 was done as a continued check on groundwater quality. Well 01U085 was sampled during March 1991 for both halogenated and aromatic VOCs (Category 1 and 7, respectively) to evaluate Unit 1 water quality. Analytical results show no halogenated or aromatic VOCs detected, which is consistent with previous analytical results shown in Table 2.

An upper Unit 3 monitoring well (03U083) was also sampled during April 1991 to monitor water quality for Category 1 and Category 7 parameters. No halogenated or aromatic VOCs were detected for this sampling event, whereas low levels of aromatic VOCs, specifically benzene at 1.25 $\mu\text{g}/\text{l}$ and toluene at 5.26 $\mu\text{g}/\text{l}$, were reported last year. Prior to 1990, sampling of 03U083 in August 1988 did not detect any aromatic or halogenated VOCs, although low levels of toluene (1.92 $\mu\text{g}/\text{l}$) were detected in 03U025, another Site C well sampled in August 1988.

4. Site D

Site D, located in the central portion of TCAAP, has contributed significant contamination to the Unit 3 and 4 aquifers due to past activities. Active remediation at Site D is being performed by an in-situ volatilization (ISV) system and a groundwater recovery system. The groundwater recovery system utilizes pumpout wells 03U316 and 03U317 located downgradient as shown on Figure 9 to capture contaminated groundwater for treatment and disposal within TCAAP.

Unit 1 and Unit 2 are not present at Site D, thereby allowing solvents disposed at Site D to migrate directly into Unit 3.

The sampling proposed for Site D in 1991 is shown in Appendix D. The analytical results of Site D sampling is included in Table 2. Plan sheets have been included which contour trichloroethene and 1,1,1-trichloroethane concentrations in upper and lower Unit 3 and upper Unit 4.

In general, upper Unit 3 remains the most contaminated aquifer near Site D with well 03U093 having the highest concentrations. Trichloroethene remains the most abundant contaminant with 8,600 $\mu\text{g}/\text{l}$ reported in well 03U093 during March 1991. The trichloroethene concentration at 03U093 reflects a significant reduction of over 31,000 $\mu\text{g}/\text{l}$ since May 1990. Similarly, the concentration at 03U018 dropped from 2,500 $\mu\text{g}/\text{l}$ in May 1990 to 240 $\mu\text{g}/\text{l}$ in March 1991. These reductions indicate that the ISV system is effectively minimizing additional contamination of the groundwater at Site D.

During 1991, contaminant concentrations in several Site D wells exceeded the groundwater action criteria specified in revised Table 3.7A of the FFA (Appendix A). Concentrations of trichloroethene exceeded the action criteria of 2.8 $\mu\text{g}/\text{l}$ at wells 03U017, 03U018, 03U093, 03U096, 03U316, 03U317, 03M017 and 03L017. Also, 1,1,1-trichloroethane concentrations at wells 03U017, 03U018, 03U093, 03U096, 03U316, 03U317, and 03M017 exceeded the groundwater action criteria of 22 $\mu\text{g}/\text{l}$. Exceedances were also observed at Site D wells for 1,1-dichloroethene; chloroform; cis-1,2-dichloroethene; 1,1,2-trichloroethane; and 1,2-dichloroethane. All of these wells are within the capture zone of the TGRS. A complete listing of groundwater action criteria exceedances is presented in Table 5.

Water quality trend figures have been prepared showing variations in trichloroethene concentrations across the site. These figures plot the concentrations of well 03U032

upgradient of Site D, well 03U093 as a source strength well, and wells 03U017, 03M017, and 03L017 as downgradient wells. The trend figures are shown as Figures 23 and 24. In general, the figures show that trichloroethene is decreasing both near the source area and also at the downgradient well nest composed of upper, middle, and lower Unit 3 wells which supports the finding that remediation efforts are successfully reducing contaminant concentrations near Site D.

5. Site E

Site E, located in the central portion of TCAAP, was used as a burning area and debris burial site (Argonne National Laboratory, 1990). Focus on groundwater sampling has been on Unit 3 since Units 1 and 2 are absent at the site.

Historically, low levels of trichloroethene and tetrachloroethene have been detected within Site E at wells 03U088 and 03U089. Trichloroethene has also been detected consistently at 03U704, along with 1,1,1-trichloroethane prior to April 1990. Aromatic VOCs have historically not been detected and have been eliminated from sampling in recent years.

During 1991, analysis for halogenated VOCs (Category 1) was performed during March at wells 03U015, 03U088, 03U089, and 03U704 to monitor the site for changes in low levels of trichloroethene and tetrachloroethene. Well 03U704 was also sampled during March 1991 to evaluate conditions near the gravel pit area. Groundwater quality based on March 1991 analytical results has not changed significantly from what has been observed in the past. Low levels of trichloroethene and tetrachloroethene were detected in the wells located near Site E (03U088, 03U089, and 03U704), while no detections were reported at downgradient well 03U015. Water quality trend Figures 25 and 26 present trichloroethene concentrations for 03U088/03U089 and 03U704, respectively. The figures show a fairly stable, low range of detections. Well 03U015, located downgradient of Site E, had detections of tetrachloroethene, trichloroethene, and 1,2-dichloroethene in August 1988, but these parameters were not detected prior to or after that event.

Well 03U704 is the only Site E well which has detected 1,1,1-trichloroethane in recent sampling with low levels reported during Quarters 23-25 (July 1989 - January 1990). However, similar to the results of sampling in April and July of 1990, March 1991 results showed no detection of 1,1,1-trichloroethane at 03U704.

Similar to last year's results, wells 03U088 and 03U089 exceeded the groundwater action criteria of 0.7 $\mu\text{g}/\text{l}$ for tetrachloroethene; March 1991 results showed values of 1.67 $\mu\text{g}/\text{l}$ and 2.12 $\mu\text{g}/\text{l}$, respectively. Unlike last year, well 03U704 also exceeded the groundwater action criteria for tetrachloroethene, but not for trichloroethene. Table 5 contains the complete list of organic groundwater quality exceedances during 1991.

6. Site F

Site F, located along Snelling Avenue in the south-central portion of TCAAP between Sites D and G, is reported to have been used for the burning of explosives and the burial of mercury crack cases, in addition to reports that waste oil was also burned at the site (Argonne National Laboratory, 1991).

Unit 3 represents the aquifer of primary concern for this location. Historically, wells in upper Unit 3 have shown significant levels of halogenated VOCs, primarily 1,1,1-trichloroethane and trichloroethene, and to a lesser extent 1,1-dichloroethene. Chloroform has also historically been detected in certain Site F wells along with sporadic detections of aromatic VOCs, specifically benzene and toluene. Cyanide has also been detected in upper Unit 3.

The VOC contamination present in Site F wells seems likely to be the result of disposal practices associated with nearby Sites D and G. Additional soil sampling and analysis

was performed at Site F during December 1990 through February 1991. The results indicated that with the exception of methylene chloride, no halogenated VOCs were detected in any of the soil samples. Methylene chloride was detected at sporadic locations and depths. Methylene chloride is a common laboratory solvent; hence, the reported detections likely represent interferences and not actual soil contamination. A "Preliminary Report of Findings, Site F Soils Investigation" was submitted to the MPCA in January 1992.

Sampling proposed for Site F in the 1991 Annual Monitoring Plan consisted of annual sampling for both halogenated and aromatic VOCs at five upper Unit 3 wells; quarterly sampling for halogenated and aromatic VOCs at two downgradient well locations; and an annual sample for cyanide (Category 4) at two wells.

Concentrations of 1,1,1-trichloroethane and trichloroethene at Site F have remained fairly constant, as reaffirmed by 1991 analytical results. Well 03L113 continued to have non-detectable levels of these two compounds; well 03U113 showed a low trichloroethene concentration of 0.82 $\mu\text{g}/\text{l}$, but 1,1,1-trichloroethane was not detected. The highest concentrations continue to be at well 03U114, which showed 1,1,1-trichloroethane concentrations between 165-300 $\mu\text{g}/\text{l}$ and trichloroethene concentrations between 55-70 during 1991.

The only detection of an aromatic VOC was at 03L113, which had a low toluene detection of 1.18 $\mu\text{g}/\text{l}$.

Chloroform has been and continues to be consistently detected in wells 03U026, 03U090, 03U092, and 03U112, with the concentrations remaining fairly constant. Chloroform values are included in Table 2.

Cyanide (Category 4) was not detected in either 03U112 or 03U121 during March 1991.

Wells 03U026, 03U090, 03U092, and 03U114 were above the groundwater action criteria established in revised Table 3.7A of the FFA (Appendix A) for trichloroethene and 1,1,1-trichloroethane. Well 03U112 exceeded action criteria for only trichloroethene, while wells 03U092 and 03U114 also exceeded action criteria for 1,1-dichloroethene. Wells 03U026, 03U090, 03U092, and 03U112 were above the action criteria set for chloroform. All of these wells are within the capture zone of the TGRS. A complete listing of groundwater exceedances, as well as the action criteria, is included in Table 5.

7. Site G

Site G, also located on Snelling Avenue just south of Site F in the south-central portion of TCAAP, has contributed significant contamination to Unit 3 and 4. Until approximately 1978 (Argonne National Laboratory, 1991), Site G was reportedly used as a dumping area for waste products, including solvents. Corrective measures, including an in-situ volatilization (ISV) system and a groundwater recovery system, have been installed and are currently operating at this location.

Halogenated VOCs, particularly 1,1,1-trichloroethane, trichloroethene, and 1,1-dichloroethene, are the primary contaminants of concern at Site G.

The Site G sampling proposed in the 1991 Annual Monitoring Plan consisted of annual sampling of wells 03U314 and 03U315 and quarterly sampling of wells 03U014, 03U020, 03U094, 03M020, and 04U020. All wells were sampled for halogenated VOCs.

It is difficult to assess the concentration trend for recent years at 03U094, located at Site G, since only limited historical data is available. However, immediately downgradient at 03U014, the trichloroethene concentration decreased from 17,000 $\mu\text{g/l}$ in October 1989 to 9,500 $\mu\text{g/l}$ in May 1990 to 8,000 $\mu\text{g/l}$ in March 1991. Decreases were also observed from May 1990 to September 1991 at 03U092 (200 to 27.20 $\mu\text{g/l}$) and 03U114 (350 to 55 $\mu\text{g/l}$).

Further downgradient from Site G, the concentrations appear to be decreasing at 03U020, 03L020, and 04U020, while concentrations at 03M020 have increased (Figure 28).

The decreases in concentrations at wells near Site G indicate that the Interim Remedial Actions are effectively reducing the source for groundwater contamination.

The 1991 groundwater quality data shows contamination above the groundwater action criteria at all Site G wells. All of these wells are within the capture zone of the TGRS. A complete listing of the groundwater action criteria and the water quality data which exceeds the action criteria is included as Table 5.

8. Site H

Site H, located in the southeast portion of TCAAP just north of Sunfish Lake, was reportedly used as a burning area for combustibles and a dumping and burning area for waste that included solvents (Argonne National Laboratory, 1991).

Historic groundwater sampling at Site H has not detected any significant contamination.

Groundwater quality monitoring for 1991 consisted of sampling upper Unit 1 wells 01U060 and 01U098 and upper Unit 3 well 03U099. Wells in the Site H area were sampled during March 1991 for both halogenated and aromatic VOCs.

No contaminant detections were observed at 01U060 or 03U099. At 01U098, the trichloroethene concentration was $<0.50 \mu\text{g/l}$ compared to $0.57 \mu\text{g/l}$ in April 1990, while 1,1,1-trichloroethane was detected for the first time at a concentration of $2.62 \mu\text{g/l}$.

9. Site I

Alliant Techsystems, Inc. has provided a discussion on groundwater quality at this site in Section XII. Figure 29 shows trichloroethene water quality trends for 03U029.

10. Site J

Site J is a buried underground sewer line located in the southwest portion of TCAAP which extends from the south side of Building 576 to a pumping station northwest of Building 105. The sewer line transported solvents, grease, and other materials that entered floor drains in Building 576 (Argonne National Laboratory, 1991).

Groundwater sampling in the Site J area has focused on Unit 1. Historic groundwater sampling at Site J has not detected any significant contamination. Of the ten Unit 1 wells used to monitor groundwater quality in the vicinity of Site J, only one well, 01U526, has ever detected contaminants.

During March 1991, a check of groundwater quality was performed by analyzing well 01U526 for halogenated VOCs (Category 1). Similar to last year, results show a low concentration of trichloroethene at 1.27 $\mu\text{g/l}$, which is consistent with previous levels. Figure 30 shows that trichloroethene concentrations for 01U526 have remained stable.

11. Site K

Alliant Techsystems, Inc. has provided a discussion on groundwater quality at this site in Section XI.

12. Site 129-3

Site 129-3, located in the central portion of TCAAP between Sites D and E, was used from 1971 until approximately 1978 to dispose of wastewater generated from lead styphnate production facilities into leaching pits located at the site (Argonne National Laboratory, 1991).

Units 1 and 2 are not present at Site 129-3; thus, the primary unit of concern is Unit 3. Low levels of trichloroethene and 1,1,1-trichloroethane have historically been detected in well 03U087, while 03U521 has shown low levels of trichloroethene.

Well 03U087 was sampled during March 1991 for halogenated VOCs (Category 1) and cyanide (Category 4) as a check on groundwater quality. The results did not show either VOCs or cyanide.

13. Site 129-5

Site 129-5, located in the east-central portion of TCAAP, was used for the burning of explosive wastes which may have included solvents (Argonne National Laboratory, 1991).

It is thought that Units 1 and 2 may be discontinuous throughout the site; therefore, the primary unit of concern is Unit 3.

In general, historic groundwater sampling has shown that no significant groundwater contamination has resulted from activities at Site 129-5. In April 1988, no halogenated VOCs were detected at 01U072, the only Unit 1 well at the site. This well has not been sampled since that time. Trichloroethene and 1,1,1-trichloroethane had been detected in Quarters 16 and 18 at well 03U111, but later sampling in Quarters 19 and 20 did not detect any halogenated VOCs. Sporadic detections of trichloroethene have been reported at 03U097 in the past.

Monitoring in 1991 consisted of sampling well 03U097 for halogenated VOCs during March. Results reveal no detections of VOCs.

14. Site 129-15

Site 129-15, located in the central portion of TCAAP north of Site F, appears to have been used as a general dump for building materials from approximately 1957 to 1978 (Argonne National Laboratory, 1991). Halogenated VOCs, particularly 1,1,1-trichloroethane and trichloroethene, are present in the four upper Unit 3 wells and the one lower Unit 3 well located in and around Site 129-15. Sporadic detections of aromatic VOCs, specifically benzene and toluene, have been observed in the wells.

During 1991, wells 03U032 and 03U124 were sampled quarterly while wells 03U016, 03U090, and 03L091 were sampled annually. All wells were sampled for halogenated and aromatic VOCs. Analytical results contained in Table 2 show continued detections of 1,1,1-trichloroethane and trichloroethene in well 03U032. Analytical results for 03U090 showed continued detections of trichloroethene; 1,1-dichloroethene; 1,2-dichloroethene; 1,1,1-trichloroethane; and chloroform. The consistent presence of 1,1,1-trichloroethane and trichloroethene was reported in well 03U124. Well 03U016, located upgradient of Site 129-15, did not detect any halogenated or aromatic VOCs in March 1991; this is only the second time this well has been sampled since November 1987. Well 03L091, which until May 1990 had historically shown no detections, returned to form, and showed no detections.

A complete listing of analytical results for the organic parameters is included in Table 2.

The groundwater concentrations observed at Site 129-15 wells during 1991 exceeded the groundwater action criteria for trichloroethene; 1,1,1-trichloroethane; and chloroform at 03U090 and trichloroethene at 03U032. All of these wells are within the capture zone of the TGRS. Figure 31 displays water quality trends of both trichloroethene and 1,1,1-

trichloroethane for 03U032 and 03U124, which show that both compounds are declining in concentration.

15. Gravel Pit

Because contamination levels of some concern were detected in wells upgradient of Site E during 1989, the gravel pit located in the north-central portion of TCAAP is discussed here as a potential source area.

Historically, wells 03U704, 03U705, and 03U707 have had very low levels of 1,1,1-trichloroethane and trichloroethene. Data results from Quarter 24 (October 1989) showed a significant increase in the levels of these compounds in wells 03U704 and 03U705, located downgradient of the gravel pit, and 03U707, located northwest of the gravel pit.

Groundwater sampling conducted in March 1991 consisted of annual sampling of wells 03U704, 03U706, 03U707, and 03L523, and quarterly sampling of well 03U705. All samples were analyzed for halogenated VOCs (Category 1).

Well 03U704, located within Site E, but downgradient of the gravel pit, continued to show low levels of trichloroethene in 1991. Concentrations of trichloroethene reported at 38 $\mu\text{g/l}$ in October 1989 have decreased to approximately the 1-3 $\mu\text{g/l}$ range. Tetrachloroethene was detected at 1.0 $\mu\text{g/l}$ in well 03U704 for the March 1991 sampling event, the first time this parameter has been detected. It should be noted that 1.0 $\mu\text{g/l}$ was the method detection limit -- additional monitoring is required to confirm the presence of tetrachloroethene.

Well 03U705, also downgradient of the gravel pit, showed trichloroethene concentrations of 2.38 $\mu\text{g/l}$, <0.50 $\mu\text{g/l}$, and 0.64 $\mu\text{g/l}$ detections during March, June, and September 1991, respectively. The highest detection at this well was 71 $\mu\text{g/l}$ in October 1989.

Well 03U706, located southwest but not directly downgradient of the gravel pit, has historically shown trichloroethene concentrations less than 5 $\mu\text{g/l}$, but showed no VOC detections for March 1991.

Well 03U707, located northwest of the gravel pit, continues to show relatively consistent levels of approximately 5 $\mu\text{g/l}$ trichloroethene -- 3.15 $\mu\text{g/l}$ for March 1991.

Well 03L523, a production well of the Arsenal Sand and Gravel Mining Company which operated the gravel pit until approximately 1986, was first sampled during April 1990 and showed 0.85 $\mu\text{g/l}$ trichloroethene. The March 1991 results showed no detections of VOCs, but 0.52 $\mu\text{g/l}$ trichloroethene was reported in September 1991. Note that 03L523, and a second production well 03L522, are planned to be abandoned in FY 92.

The action criteria established in revised Table 3.7A of the FFA for tetrachloroethene (0.70 $\mu\text{g/l}$) and trichloroethene (2.8 $\mu\text{g/l}$) were exceeded at wells 03U704 and 03U707, respectively. Revised Table 3.7A of the FFA is included in Appendix A. The organic groundwater exceedances are presented in Table 5.

B. BEDROCK VALLEY

A channel or valley exists in the bedrock beneath TCAAP and was investigated as part of the Bedrock Valley/Monitor Well Installation Survey conducted by STS Consultants in 1986.

Specifically, a northwest-southeast trending valley exists which can be marked by an axis running through monitoring well nest 005 in the southeast, to monitoring well 03L138 located slightly east of Site G and continuing past monitoring well 03L137 located within Site F.

The bedrock valley is eroded through the Prairie du Chien Dolomite and the Jordan Sandstone, thereby encountering the St. Lawrence Dolomite. The bedrock valley has been filled with Unit 3 unconsolidated deposits, as shown on cross section A-A' (Figure 21).

Wells installed into the bedrock valley include the 005 well nest (03U005, 03M005, and 03L005), well 03L081 located southeast of Site G off Federal Road, well 03L138 located east of Site G, and well 03L137 located on the western edge of Site F. These wells were sampled in March 1991 for halogenated VOCs.

Historically, the wells located in the bedrock valley have shown no detection of aromatic VOCs and only low levels of various halogenated VOCs. Well 03U005 had shown low consistent levels of trichloroethene and 1,2-dichloroethene, but only 1,2-dichloroethene at a concentration of 5.41 $\mu\text{g}/\text{l}$ was reported in March 1991. No VOCs were detected at 03M005, similar to the past two sampling events. Wells 03L005 and 03L137 have historically shown no detections, with similar results for March 1991. Well 03L138 showed trichloroethene at 1.72 $\mu\text{g}/\text{l}$ for the first time during September 1990 and March 1991 results showed 0.58 $\mu\text{g}/\text{l}$ trichloroethene. Well 03L081, sampled for the first time in May 1990, showed trichloroethene at 7.7 $\mu\text{g}/\text{l}$; this value decreased to 1.97 $\mu\text{g}/\text{l}$ for March 1991. This detection is apparent on the on-post, trichloroethene, lower unit 3 contour map included as Figure 13 which shows the 1- $\mu\text{g}/\text{l}$ contour encircling 03L081.

In general, the uncontaminated water quality history of well 03L005 provides some assurance that contamination from Sites D and G, which lie at least partially over the bedrock valley, has not migrated off-post through the bedrock valley. In addition, the groundwater flow analysis indicates that flow within the valley does not vary significantly from the general Unit 3/Unit 4 southwesterly direction. This is due to relatively similar hydraulic characteristics of the bedrock and valley fill sediments.

C. MISCELLANEOUS ON-POST WELLS

Miscellaneous wells sampled during FY 91 included 03U007, 03U009, 03L007, 04U007, and 04U510 to assess background conditions and 03U031 southeast of Site K. Groundwater quality data for the background wells is discussed in Section VI of this report; hence, this section discusses only the data for 03U031.

Well 03U031 is located in the west-central portion of TCAAP, southeast of Site K; however, this well is not considered a Site K monitoring well since it is located hydraulically sidegradient to upgradient.

Well 03U031 was sampled in March 1991, which resulted in a detection of trichloroethene at 1.20 $\mu\text{g}/\text{l}$, compared to 2.60 $\mu\text{g}/\text{l}$ in April 1990. No other Category 1 compounds were detected. Furthermore, the concentration was below the action criteria for trichloroethene of 2.8 $\mu\text{g}/\text{l}$, as set forth in revised Table 3.7A of the FFA (Appendix A).

Figure 9 shows a 1- $\mu\text{g}/\text{l}$ contour for trichloroethene encircling only well 03U031, since no detections were reported at 03U015 to the east or 03U083 to the north.

D. SOUTHWEST BOUNDARY AREA

Groundwater quality in the southwest boundary area is most easily defined by analyzing groundwater quality trends from the area. Groundwater trend figures have been created that detail changes in trichloroethene concentrations over time at various locations and aquifers in the southwest boundary area.

Figure 32 shows trichloroethene trends at well nests 001 and 714, which are located along the north edge of the northern plume. No significant trend changes are apparent for the 1991 data. The upper Unit 4 and Jordan aquifers have the highest concentrations at present.

Figure 33 shows concentrations over time at 03M003, 03L003, 04U003, and 03U672, which are located in the southeastern end of the southwest boundary area. Figure 34 shows concentrations for 03U003. The trichloroethene concentration at 03U003 increased from 3.80 $\mu\text{g}/\text{l}$ in October 1988 to 1,800 $\mu\text{g}/\text{l}$ in July 1990. Since that time, the concentration has decreased to <0.50 $\mu\text{g}/\text{l}$ in September 1991. Conversely, the concentration in 04U003 was always less than 5 $\mu\text{g}/\text{l}$ until September 1991 when it was reported to be 1,400 $\mu\text{g}/\text{l}$. This same sampling event at 04U003 also yielded detections for 1,1-dichloroethene; 1,2-dichloroethene; 1,1,1-trichloroethane; 1,1,2-trichloroethane; 1,1-dichloroethane; 1,2-dichloroethane; and chloroform. These sudden changes in concentration appear to be anomalous. Future monitoring is needed to confirm these results.

Figure 35 shows concentrations over time at well nest 802 (except 03L802) and wells 03L809 and 409550. The trichloroethene trend for 03L802 is presented as Figure 36. The 802 well nest is located in the southern portion of the southwest boundary area, while wells 03L809 and 409550 are located in the northern portion of the southwest boundary.

The highest concentration in the northern area has been in the lower Unit 3 aquifer, but the concentration in the upper Unit 3 aquifer, as illustrated by well 409550, appears to be rising to concentrations comparable to lower Unit 3. The trichloroethene concentration at 409550 increased from 78 $\mu\text{g}/\text{l}$ in May 1989 to 3,200 $\mu\text{g}/\text{l}$ in September 1991. Cross section A-A' (Figure 21) shows that 409550 and 03L809 appear to straddle a zone of lower concentrations. The lower concentrations may reflect an area of lower hydraulic conductivity as evidenced by the "red till" on cross section A-A'.

Concentrations near the southern portion of the southwest boundary over at 03L802 have decreased from 13,000 $\mu\text{g}/\text{l}$ in December 1987 to 27.40 $\mu\text{g}/\text{l}$ in September 1991 (Figure 36). Figure 35 shows a similar decrease at 03M802, while the concentrations at 04U802 have remained around 1-3 $\mu\text{g}/\text{l}$.

Figure 37 shows concentrations at the 806 well nest, located slightly off-post in the triangle area. This trend figure was prepared to evaluate water quality trends in the north plume migrating from TCAAP. Contamination in the lower Unit 3 aquifer has historically been the highest, but trichloroethene concentrations in upper Unit 4 are comparable. Concentrations in PJ#806 appear to be increasing. Cross section A-A' (Figure 21) shows the various elevation positions of the wells and their position within the path of the downward migration of the north plume. The increasing concentrations are likely the result of continued plume movement at a slower rate due to the hydraulic influence of the extraction wells. It is expected that the concentrations of VOCs will continue to fluctuate in the 806 well nest due to the area of stagnation created by the TGRS.

E. OFF-POST

Groundwater trend figures were prepared using off-post wells to evaluate changes in water quality in Unit 3 and Unit 4 at select locations.

Figure 38 shows trichloroethene concentrations at wells starting just downgradient of TCAAP (04U847), travelling southwest to the 821 well nest, and continuing to the 846 well nest and 04U844 just north of Interstate 694. Except for the 846 well nest, cross section A-A' (Figure 21) illustrates these wells and their relationship within the north plume.

Concentrations of trichloroethene in well 04U844 have increased from 310 $\mu\text{g/l}$ in May 1989 to approximately 900 $\mu\text{g/l}$ in March 1991. The other wells shown on Figure 38 do not indicate any obvious trends.

Figure 39 shows trichloroethene concentrations at middle and lower Unit 3 wells of the 848 well nest located between Interstate 35W and Round Lake to the southwest of TCAAP. Also shown on this figure are the lower Unit 3 well and upper Unit 4 well from the 832 well nest located slightly north of Interstate 694. Trichloroethene concentrations in wells 03L848 and 04U848 have been decreasing since July-October 1989. Conversely, the concentration at

03M848 has increased from 190 $\mu\text{g}/\text{l}$ in April 1990 to 700 $\mu\text{g}/\text{l}$ in September 1991. The other wells shown on Figure 39 do not show any obvious trends.

Figure 40 shows trichloroethene concentrations at 409549 northwest of Pike Lake, continuing to well 04U877 directly south of Pike Lake, continuing further south to 200812 (Gross Golf Course), and ending further downgradient at well 233221. In general concentrations in wells 233221 and 409549 appear to be declining; however, these trends are based on limited sampling data. The other wells shown on Figure 40 do not show any obvious trends.

F. SUMMARY

Monitoring data for FY 91 shows that Sites D, G, and I continue to represent the primary source areas for groundwater contamination in Unit 3 and Unit 4. However, decreases at wells 03U093 (Site D), 03U014 (Site G), and 03U029 (Site I) indicate that corrective actions are diminishing the sources of groundwater contamination.

For Unit 1, the primary sources for groundwater contamination are Sites A, I, and K. Discussion of water quality for Unit 1 at these three sites is presented in Sections IX, XI, and XII of this report.

Relative to the primary source areas mentioned above, monitoring at Sites B, C, E, F, H, J, 129-3, 129-5, and 129-15 indicates that these sites do not represent significant sources for groundwater contamination. No exceedances of TCAAP groundwater action criteria were observed during FY 91 at Sites B, C, H, J, 129-3, or 129-5. Exceedances were observed only for tetrachloroethene at Site E wells 03U088 (1.67 $\mu\text{g}/\text{l}$) and 03U089 (2.12 $\mu\text{g}/\text{l}$) compared to the action criteria of 0.70 $\mu\text{g}/\text{l}$. These detections may be related to activities at the gravel pit. Exceedances observed at Site F and Site 129-15 wells appear to be related to the plumes at Sites G and D, respectively, and not the result of activities at Sites F and 129-

15." Low levels ($< 10 \mu\text{g/l}$) of trichloroethene persist at wells located downgradient of the gravel pit.

Contamination does not appear to be migrating off TCAAP via the bedrock valley as evidenced by no detections of VOCs in well 03L005 near the southern property boundary and by the valley's lack of effect on Unit 3 and Unit 4 groundwater flow patterns.

Section VIII

Discussion of Surface Water Quality

Surface water monitoring during FY 91 consisted of sampling required per the TCAAP National Pollutant Elimination Discharge System (NPDES) permit. This data has been, and continues to be reported to the MPCA Division of Water Quality as required by the NPDES permit. The data provided by FCC is included in Tables 4, 6, and 7. See Figure 59 for a map of surface sample locations.

Points 20100, 20200, 21100, 21200, 21300, 21400, and 21600 were sampled for PCBs. During FY 91, no PCBs were detected (see Table 4).

Table 6 indicates that trichloroethene was detected in eight surface water samples: four detections at 20200; two detections at 20800; and two detections at 21000. The two detections at both 20800 and 21000 were reported in November 1990 and February 1991, with subsequent values of $<0.50 \mu\text{g/l}$ in May 1991 and August 1991. One value exceeded the surface water action criteria of $15 \mu\text{g/l}$ as set forth in Table 3.7B of the FFA. The exceedance was at 20200 on May 7, 1991 ($21.70 \mu\text{g/l}$). The trichloroethene concentration decreased below the action criteria during sampling events after the reported exceedance. Point 20200 is the outfall into Rice Creek from Buildings 103 and 114.

Table 6 shows two detections of 1,2-dichloroethene, but these did not exceed the adopted surface water action criteria of $15 \mu\text{g/l}$. The detections were reported at 20200, which is described above.

No other detections of VOCs were reported for FY 91.

Table 7 indicates that cyanide was detected February 11, 1991, at 20200 (10.20 $\mu\text{g/l}$), 20400 (9.26 $\mu\text{g/l}$), 20700 (9.26 $\mu\text{g/l}$), 20800 (10.20 $\mu\text{g/l}$), 20900 (9.26 $\mu\text{g/l}$), and 21000 (10.20 $\mu\text{g/l}$). Cyanide was also detected on May 8, 1991, at 20500 (10.60 $\mu\text{g/l}$). 20200 and 20400 are outfalls into Rice Creek near the west side of TCAAP. Point 20700 is where Rice Creek enters TCAAP near the northwest corner. Point 20900 is where Rice Creek passes under Lexington Avenue. Point 21000 is on Rice Creek southwest of TCAAP. All eight detections are greater than the surface water action criteria of 5.2 $\mu\text{g/l}$.

Chromium was detected above the action criteria of 11 $\mu\text{g/l}$ at 20400 (42.37 $\mu\text{g/l}$) on November 7, 1990. Point 20400 is described above.

Zinc concentrations above the action criteria of 47 $\mu\text{g/l}$ were reported at 20500 (170 $\mu\text{g/l}$ and 63.10 $\mu\text{g/l}$). Point 20500 is at Round Lake.

The surface water action criteria for cyanide, zinc, and chromium are "U.S. EPA water quality criteria for protection of aquatic life - chronic effects," as referenced in Table 3.7B of the FFA. The exceedances of these criteria were sporadic -- no additional action, beyond continued monitoring, is warranted at this time.

Table 7 shows that cadmium, lead, nickel, and mercury were not detected at any locations during FY 91.

Section IX

Evaluation of Site A Interim Remedial Action

A. INTRODUCTION

1. Location

Site A is located near the northern boundary of TCAAP as shown on Plan Sheet 3. Areas within Site A may have been used for the disposal of waste products, including sewer sludge, solvents, explosive-containing wastes, and mercury-contaminated cartridges (Argonne National Laboratory, 1990). Burning and/or disposal of these wastes may have begun as early as 1940 and continued until 1966 (Argonne National Laboratory, 1990).

2. Geology

The geology of the site consists of Quaternary-aged deposits which include the following units:

Fridley Formation (Unit 1)

Twin Cities Formation (Unit 2)

Hillside Sand Formation (Unit 3)

The Fridley Formation or Unit 1 is comprised of lacustrine silts to medium-grained sands which act as a shallow unconfined aquifer. This unit varies in thickness from approximately 15-30 feet in the vicinity of Site A to 60 feet in the residential area of Shoreview north of Site A (Connell, June 1988). Unit 1 is the primary aquifer of concern in the Site A area.

The Twin Cities Formation or Unit 2 consists of glacial till which acts as an aquitard (Whitman, 1986).

The Hillside Sand Formation or Unit 3 consists of poorly sorted gravels and sands of outwash origin which act as an unconfined aquifer beneath Site A.

Due to the Unit 2 aquitard present at Site A, contamination from past disposal practices is limited to the Unit 1 aquifer. The locations of the monitoring wells located in and around Site A are shown on Plan Sheet 3.

B. GROUNDWATER FLOW EVALUATION

1. Summary of 1991 Monitoring Activities

The most extensive groundwater level monitoring conducted at TCAAP by FCC is performed at Site A. During FY 91, water level readings were measured at all wells in and around Site A on at least a bimonthly basis. The groundwater elevation data obtained is presented in Table 1.

2. Flow Direction

The Unit 1 groundwater flow direction at Site A is generally west/northwest as shown on Plan Sheet 25, which depicts the specific conditions during Quarter 32 (July 1991). The contours shown in the western portion of Site A are more westerly, but are based on fewer data points than the northwesterly contours shown in the eastern portions of Site A. Upon the request of MPCA staff, the Unit 1 groundwater elevation map has been contoured without using the water level reading from the pumping well 01U350. The groundwater flow direction for 1991 data (Plan Sheet 25) is consistent with the flow direction observed in the Fiscal Year 1990 Annual Monitoring Report. Groundwater flow is to the northwest of

Site A near the pumping well on the north side of Building 308. The groundwater flow interpretation in the southwest portion of Plan Sheet 25 begins to suggest a slight change to a more westerly flow direction. This interpretation is based on a small number of data points and interpolation is performed over a large area; however, this interpretation is not unlikely as groundwater in Unit 1 appears to flow towards Rice Creek.

Rice Creek is a generally north-south trending water body which is partially shown on Plan Sheet 25. The USGS topographic map (New Brighton Quadrangle, revised 1980) indicates that the elevation of Rice Creek is approximately 875 feet above Mean Sea Level just west of Site A. This elevation matches well with the groundwater elevations and gradient observed at Site A, which supports the interpretation that groundwater in Unit 1 discharges to Rice Creek.

Implementation of the Site A Interim Remedial Action (IRA) has affected the groundwater flow pattern in a relatively small area of Site A downgradient of pumping well 01U350. The water level contour at Elevation 892 has been affected by the initiation of pumping at well 01U350. It is likely that this contour closes around the pumping well, but this cannot be confirmed without a monitoring well located between monitoring wells 01U108 and 01U117. Plan Sheet 25 shows that the Elevation 891 contour does close around wells 01U350 and 01U108. If the water level data from Quarter 20 (1988), Quarter 23 (1989), and Quarter 26 (1990) were contoured without the water level data from the pumping well, the influence due to pumping appears to have been greater in previous years (1988-1990) than the 1991 influence shown on Plan Sheet 25. This is most likely due to the well screen and pump becoming encrusted with iron bacteria and the associated decrease in performance. Maintenance work to help alleviate this problem is discussed in Section IX.D.2.

Unit 1 groundwater elevations for FY 91 indicate a difference of approximately 6 feet across the Site A area. The horizontal hydraulic gradient has remained relatively steady at Site A and during FY 91 varied from 0.014 to 0.003 feet per foot. Using the results of a pumping test performed on well 01U108, a hydraulic conductivity value of 1×10^{-4} cm/sec was

calculated for Unit 1 (Overtoom, 1988). Using this hydraulic conductivity, the maximum horizontal hydraulic gradient shown above, and an assumed porosity value of 0.35, the horizontal groundwater velocity is calculated to be approximately 0.013 feet/day or 5 feet/year. Additional aquifer testing will be performed as part of supplemental interim remedial action feasibility studies at Site A to provide additional data on the hydraulic conductivity and groundwater flow velocity.

3. Groundwater Level Trends

Groundwater levels in all Site A Unit 1 wells except for the Site A pumping well (01U350) reacted similarly during FY 91 by increasing an average of approximately 1.9 feet. Water levels generally dropped in wells from November 1990 (Quarter 29) to February 1991 (Quarter 30), when little or no precipitation was infiltrating into the unconfined aquifer. Groundwater level increases were reported in all wells from February 1990 (Quarter 30) through June 1991 (Quarter 31), when infiltration into Unit 1 recharged the aquifer. Groundwater levels generally showed a slight decrease from June 1991 (Quarter 31) to August 1991 (Quarter 32).

Groundwater hydrographs for 01U038, 01U039, 01U067, 01U108, 01U115 and 01U350 show water level fluctuations that have occurred over the Site A area. The hydrographs are included as Figure 2.

The Unit 1 wells in general had exhibited declining groundwater levels since 1987, which was the result of at least two years of below-average precipitation in the Minneapolis-St. Paul metropolitan area. Groundwater levels recorded in August 1991 (Quarter 32) are slightly above levels recorded in the wells in November 1987 (Quarter 16).

4. Additional Factors Affecting Flow

The discharge of treated water from the IRA into a drainage ditch along the north side of Building 308 was evaluated to determine its effect, if any, on groundwater flow. The groundwater discharge location and extent of surface flow is shown on Plan Sheet 25. This was investigated because of the potential that water discharged into the ditch could infiltrate and cause mounding which might result in a northerly direction of flow. Plan Sheet 25 indicates that water levels recorded in 01U117 and 01U125 do not show an increase in water level elevations attributable to groundwater mounding from the Site A IRA discharge.

C. GROUNDWATER QUALITY EVALUATION

1. Summary of 1991 Monitoring Activities

During FY 91, five Unit 1 monitoring wells were installed at Site A as described in Section III.B of this report. These wells (01U137-01U141) have provided effective points for better defining the contaminant plume.

Groundwater sampling at Site A during 1991 consisted of a comprehensive sampling event conducted during Quarter 30 (March 1991). Another comprehensive sampling event was conducted in Quarter 32 (July 1991), which included five newly installed Unit 1 monitoring wells. The intensive sampling performed during comprehensive events allows for the preparation of groundwater quality contour maps to delineate the extent of contamination.

In addition, monitoring wells 01U108 and 01U902, along with pumping well 01U350, were sampled monthly during FY 91 to evaluate water quality at critical locations and to observe operating conditions related to the Site A IRA.

All wells sampled at Site A in 1991 were analyzed for Category 1, while selected wells were analyzed for Category 7. These categories are the halogenated and aromatic VOCs, respectively. In addition to sampling for VOCs, metals analysis (Category 2) was performed monthly at pumping well 01U350 and during Quarter 30 (March 1991) at monitoring well 01U902.

2. Contaminant Plume Definition

Contaminant plume contour maps were prepared for Site A using the Quarter 32 (July 1991) comprehensive sampling results. Groundwater quality data collected since Quarter 16 (Fall 1987) for organic and inorganic parameters is included as Tables 2 and 3, respectively.

Attachment 2 of the Federal Facility Agreement (FFA) details that isoconcentration maps be prepared for trichloroethene; 1,1,1-trichloroethane; and 1,1-dichloroethene at Site A. In reviewing the organic water quality data for Site A, it is observed that 1,1,1-trichloroethane and 1,1-dichloroethene are largely undetected at Site A. In their place, contour maps were developed for tetrachloroethene, trichloroethene, and 1,2-dichloroethene, which are present in the groundwater at Site A.

a. 1,2-Dichloroethene

1,2-Dichloroethene concentrations reported for the July 1991 comprehensive sampling event were used to create an isoconcentration map which is included as Plan Sheet 26. Water quality trends for 1,2-dichloroethene at selected Site A wells are presented as Figures 41 and 44.

1,2-Dichloroethene was detected in 11 of the 20 wells sampled during July 1991 with the highest concentration present at monitoring well 01U102, as shown on Plan Sheet 26.

Monitoring well 01U102 appears to be the source strength well for contamination which may have originated from disposal pits 6 through 8. The northwest edge of the 100- $\mu\text{g}/\text{l}$ contour around monitoring well 01U102 is estimated between 01U102 and 01U139. It may be important from a final remediation standpoint (due to the groundwater action criteria discussed later) to provide better definition of the leading edge of the 100- $\mu\text{g}/\text{l}$ contour. A monitoring well installed approximately 200 feet downgradient of 01U102 would provide this definition.

Although not sampled during Quarter 32, low concentrations of 1,2-dichloroethene have consistently been detected west of well 01U102 at 01U135, but because of the long span between the two wells, the 1- $\mu\text{g}/\text{l}$ contour has been shown as a dashed contour line. The exact location of the 1- $\mu\text{g}/\text{l}$ contour in relation to wells 01U135 and 01U039 is somewhat uncertain. The 1- $\mu\text{g}/\text{l}$ contour was drawn near well 01U135 due to consistent low-level detections and the value at 01U039 was not used for contouring purposes. Although the location of the 1- $\mu\text{g}/\text{l}$ contour in the southwest portion of the plume may not be critical to the final remediation scenario, a monitoring well on the north side of Building 308 midway between monitoring wells 01U135 and 01U138 would help define the contour's exact location.

Monitoring well 01U108 appears to be the source strength well for disposal pits 2 and 5 as shown on Plan Sheet 26. Contamination which may have originated from disposal pits 1 and 4 also may be contributing to the north plume.

The depiction of two plumes, each emanating from separate disposal pit areas, is supported by 01U125, which has historically never detected 1,2-dichloroethene. If the final remediation scenario requires that the separation of the two plumes be verified, a monitoring well installed in the vicinity of disposal pit 3 would be recommended.

The low concentrations in wells 01U115 and 01U116 create two separate 10- $\mu\text{g}/\text{l}$ contours near the source strength well 01U108 and downgradient near 01U902. This point will be discussed further in the next section on recovery system operation evaluation.

The July 1991 1,2-dichloroethene concentration map included as Plan Sheet 26 includes January 1991 data from select residential wells located north of Site A. These results when combined with the July 1991 data suggest that detectable concentrations of 1,2-dichloroethene extend past the Martin and Gamradt wells. One to two wells are therefore recommended to define the west edge of the plume.

Concentrations have historically increased at well 01U102 and have been above the groundwater action criteria since Quarter 24 (October 1989). 1,2-dichloroethene concentrations at 01U108 and 01U350 continue to decrease, and have been below the 1,2-dichloroethene groundwater action criteria of 70 $\mu\text{g}/\text{l}$ since Quarter 26 (April 1990) at 01U108 and since Quarter 20 (November 1988) at 01U350. Recent 1,2-dichloroethene concentrations at 01U117 (downgradient of 01U350) appear to show an increasing trend with exceedance of the groundwater action criteria for the first time during FY 91 (Quarter 30). The apparent increasing concentration at 01U117 will be discussed further in the next section on recovery system operation evaluation. During FY 91, the groundwater action criteria for 1,2-dichloroethene was exceeded at monitoring wells 01U102, 01U117, and 01U902. A complete listing of the groundwater exceedances at Site A is included in Table 5.

b. Trichloroethene

Trichloroethene concentrations reported for the July 1991 comprehensive sampling event have been used to create an isoconcentration map which is included as Plan Sheet 27. Water quality trends for trichloroethene at selected Site A wells are included as Figures 42 and 44.

In general, the initiation of pumping seems to be responsible for the decreased concentrations of trichloroethene in monitoring well 01U108, which appears to be the source strength well near disposal pits 2 and 5, as shown on Plan Sheet 27.

Trichloroethene concentrations at 01U108 appear to have peaked in Quarter 19 (August 1988) at 750 $\mu\text{g}/\text{l}$ and have generally decreased, as shown on Figure 44.

Monitoring well 01U102 appears to be a source strength well downgradient of disposal pits 6 through 8, as shown on Plan Sheet 27. Trichloroethene concentrations at 01U102 also appear to be decreasing after a peak of 300 $\mu\text{g}/\text{l}$ in Quarter 27 (April 1990). The maximum trichloroethene concentration at Site A has periodically shifted between wells 01U102 and 01U108. During July 1991, the highest concentration was observed at 01U108.

The fact that trichloroethene has historically never been detected at 01U125 supports the interpretation of two plumes originating from different source areas.

Trichloroethene concentrations continue to be detected in the off-site area to the northwest of Site A. A slight increase in the trichloroethene concentrations during FY 91 was observed at 01U902. Continued detections at the Martin well indicate that trichloroethene also extends past the Martin well. Pumping at the Martin well and at the Gamradt well, which also contained trichloroethene during January 1991 sampling, may be affecting the shape of the plume's leading edge. The recommendation for one to two additional wells to define the downgradient edge of the plume (discussed regarding 1,2-dichloroethene) is even more critical with relation to trichloroethene, since concentrations exceeding the groundwater action criteria currently exist off the TCAAP property at 01U902.

A total of nine wells in and around Site A exceeded the 2.8 $\mu\text{g}/\text{l}$ trichloroethene criteria during FY 91 with a listing of this data included in Table 5.

c. Tetrachloroethene

Tetrachloroethene concentrations obtained reported for the July 1991 comprehensive sampling event were used to create an isoconcentration map which is included as Plan Sheet 28. Water quality trends for tetrachloroethene at selected Site A wells are presented as Figures 43 and 44.

As shown on Figure 43 and in Table 2, the tetrachloroethene concentrations at 01U102 fluctuated between 83.00 and 170.00 $\mu\text{g/l}$ during FY 91. The data suggests an overall decline in concentrations since July 1990. Figure 43 shows that the tetrachloroethene concentrations at 01U350 remained approximately the same in FY 91 compared to the past 2½ years, although there was a little more variability to the data (between <1.00 and 38.60 $\mu\text{g/l}$). The concentrations at 01U126 and 01U117 decreased to below detection limits during FY 91 compared to consistent detections previously. Figure 44 indicates that the tetrachloroethene concentrations at 01U108 remained relatively consistent during FY 91 compared to FY 90 with values ranging from 70.09 to 240.00 $\mu\text{g/l}$.

Tetrachloroethene contamination in Unit 1 was detected at five of the 20 locations sampled during July 1991. The highest tetrachloroethene concentrations detected during July 1991 were reported at 01U108, which appears to be the source strength well from disposal sites 2 through 5, as shown on Plan Sheet 28. Pumping at Site A appears to be responsible for an initial decrease of tetrachloroethene in wells 01U108 and 01U350, but since approximately 1989, tetrachloroethene concentrations appear to have remained approximately the same. Monitoring well 01U125, which has historically not shown tetrachloroethene, also supports the interpretation that contaminants are migrating from Site A from two separate disposal areas.

Sporadic detections of tetrachloroethene have been reported at monitoring well 01U902 on the north side of 01U902. The detections appear to be related to the TCAAP plumes.

Tetrachloroethene concentrations in Site A Unit 1 wells have been above the 0.7 $\mu\text{g}/\text{l}$ groundwater action criteria level set forth in revised Table 3.7A of the FFA. The typical method detection limit is 1.0 $\mu\text{g}/\text{l}$ for tetrachloroethene; hence, any detection of tetrachloroethene exceeds the action criteria. Tetrachloroethene exceedances were reported at six of the 20 wells sampled in July 1991. A listing of all groundwater action criteria exceedances is presented as Table 5.

d. Aromatic VOCs

Analysis for benzene, toluene, and total xylenes (Category 7) during FY 91 resulted in detection of benzene at four Site A wells: 01U102, 01U139, 01U140, and 01U902. Consistent detections were reported at 01U102, but the concentration decreased from 41 $\mu\text{g}/\text{l}$ in March 1991 to 5.9 $\mu\text{g}/\text{l}$ in September 1991. Downgradient of 01U102, benzene concentrations of 0.4 $\mu\text{g}/\text{l}$ and 4.9 $\mu\text{g}/\text{l}$ were reported by the MPCA for wells 01U139 and 01U140 in July 1991. Further downgradient, benzene concentrations of 0.56 to 0.87 $\mu\text{g}/\text{l}$ were reported at 01U902 between March and June 1991, but the concentration was <0.41 $\mu\text{g}/\text{l}$ in both August and September 1991. Collectively, all of these detections suggest that the same area near 01U102 may be contributing benzene to the groundwater. No detections of aromatic VOCs were reported during FY 91 for wells near the source area associated with 01U108 and 01U350.

e. Metals

Two metals exceeded the groundwater action criteria at Site A. Well 01U108 exceeded the copper action criteria of 1.0 $\mu\text{g}/\text{l}$ with a detection of 1.8 $\mu\text{g}/\text{l}$ during Quarter 30. Well 01U350 exceeded the lead action criteria of 5.0 $\mu\text{g}/\text{l}$ with a

detection of 8.46 $\mu\text{g/l}$ in Quarter 32. The Army is presently evaluating whether metals contamination represents a concern at Site A.

D. RECOVERY SYSTEM OPERATION EVALUATION

Since September 13, 1988, FCC has operated and maintained an IRA groundwater recovery and treatment system at Site A. The Site A IRA is being evaluated in accordance with Attachment 2 of the FFA.

A Record of Decision prepared by the Department of the Army dated June 29, 1988, details the justification of a groundwater removal and treatment system at Site A (Walker, 1988).

1. System Description

The groundwater recovery and treatment system consists of a pumping well, sediment filters, carbon filters, a heated building, and discharge to an outfall drainage ditch.

The pumping well (01U350) is 6 inches in diameter and is located just north of Building 308 as shown on Plan Sheet 25. The well is approximately 29 feet deep and encounters the following sediments:

silty sand	0-9 feet below ground surface (BGS)
medium to coarse sand	9-18 feet BGS
clayey silt	18-22 feet BGS
silty sand	22-24 feet BGS
silty clay	24-29 feet BGS

The sediments shown above from 0-24 feet BGS comprises Unit 1 and the silty clay encountered from 24-29 feet BGS is Unit 2. The pumping well has a 15-foot long, 10-slot

(0.010 inch) stainless steel screen installed approximately 14-29 feet below ground surface. A 1/2-horsepower submersible pump rated at 10 gallons per minute (gpm) is installed in the well at approximately 25-28 feet BGS, although current operating conditions only allow for a pumping rate of approximately 3-4 gpm.

Recovered groundwater is transferred to a 10-foot by 10-foot heated treatment building adjacent to well 01U350 as shown on Plan Sheet 25. The treatment building contains four sediment filters operating in two parallel paths. The first-stage sediment filters use 25-micron filters to remove fine-grained particulates. The second-stage filters use 5-micron filters which further remove fine-grained particulates prior to the water travelling into carbon vessels. The water is pumped through two 350-gallon Calgon Carbon Corporation Disposorb granular activated carbon vessels operated in series with each containing 1,000 pounds of granular activated carbon (Connell, April 1988). The carbon used in each vessel is Filtrasorb 300, with an effective size of 0.8-1.0 mm (Connell, April 1988). The treated water is discharged to an east-to-west trending drainage ditch on the north side of Building 308, as shown on Plan Sheet 25. The ditch is graded to allow water to travel west towards Mounds View Road, and then south to eventually cross under Mounds View Road via a culvert and west to Rice Creek. The discharge drainage path is also shown on Plan Sheet 25. Since start-up of the system, water has infiltrated into Unit 1 within a short distance from the discharge point. Presently the water flows approximately 100 feet west from the discharge point before being completely infiltrated.

2. System Maintenance

A high amount of maintenance has been routinely performed on the system to ensure continuous operation. Due to high levels of fine particulates and iron bacteria, replacement of the 25-micron sediment filter was occurring daily while the 5-micron sediment filter was being replaced twice weekly. A recommendation in the Fiscal Year 1990 Annual Monitoring Report was to perform periodic well shocking to control the growth of iron bacteria. Starting April 17, 1991, FCC has performed weekly shocking of the well by pouring 500

gallons of chlorinated water (100 ppm chlorine concentration) into the well. The pumping well (01U350) remains inactive for 2½-3 hours before pumping is resumed. Since initiating well shocking, the 25-micron filter is replaced twice a week and the 5-micron filter once a week. This has also reduced fluctuations in the flow rate from the pumping well, which allows the system to maintain a consistent 3-4 gpm flow rate.

Due to the well pump becoming fouled and malfunctioning in 1989, the pump is now removed from the well for cleaning and inspection every six months. Pump inspection and cleaning and jetting of the well screen took place on November 13, 1990 and February 6 and April 1, 1991.

3. Treatment Volumes and Efficiency

During FY 91, the groundwater treatment system operating at Site A treated over 1,540,000 gallons of water, as shown in Table 8 (Fuller, 1991). Since implementation of the groundwater treatment system on September 13, 1988, more than 5,100,000 gallons of water have been treated.

The required treatment level of the Site A IRA was established in the Site A Record of Decision (ROD) at five $\mu\text{g}/\text{l}$ for trichloroethene (Walker, 1988). This treatment level was documented in the ROD to meet all state and federal applicable or relevant and appropriate requirements (ARARs).

Verifying that the Site A IRA meets the required treatment level is achieved by performing monthly sampling of the influent and effluent of the treatment system. Influent of the system during FY 91 averaged approximately 14 $\mu\text{g}/\text{l}$ for trichloroethene, 27 $\mu\text{g}/\text{l}$ for tetrachloroethene, and 18 $\mu\text{g}/\text{l}$ for 1,2-dichloroethene. The effluent has never been observed to be above the detection limit for any of the volatile organic compounds analyzed for. The detection limits for the influent and effluent sampling during FY 91 were 0.5 $\mu\text{g}/\text{l}$ for 1,2-dichloroethene and trichloroethene, and 1.0 $\mu\text{g}/\text{l}$ for tetrachloroethene.

4. Contaminant Quantities Recovered

Concentrations of VOCs have decreased sharply in well 01U350 since initiating pumping in 1988. From September 13, 1988, through FY 91 (September 17, 1991), tetrachloroethene concentrations have dropped from 620 $\mu\text{g/l}$ to $<1.00 \mu\text{g/l}$; trichloroethene has dropped from 380 $\mu\text{g/l}$ to 29.40 $\mu\text{g/l}$; and 1,2-dichloroethene has dropped from 540 $\mu\text{g/l}$ to 13.90 $\mu\text{g/l}$. Data showing the monthly concentrations of the contaminants discussed above is shown for well 01U350 in Table 2.

Based on the measurements of the three VOCs shown in Table 8, the mass of contaminants removed from start-up through the end of FY 91 is 3.18 pounds. This mass removal rate is not surprising considering the low contaminant concentrations observed in the pumpout well and the relatively low pumping rate. (Note: Table 8 represents raw data from the laboratory prior to any adjustments which are made while entering the data into the IRDMIS. Hence, minor discrepancies may exist between Table 2 and Table 8, since Table 2 data was retrieved from the IRDMIS.)

5. Capture Zone Evaluation

A system evaluation of Site A was first performed in detail for the Site A 90-Day Performance Report, which evaluated the system based on data obtained from September through December 1988 (Jacques and Schwarz, 1989). The conclusion of that report was that "... the pump is located in the plume but is not effective in attaining the goal of removing contaminants."

The effectiveness of the Site A IRA system is being evaluated in this FY 91 Annual Monitoring Report based on the following information:

1. Site A groundwater elevation map (Plan Sheet 25);
2. Groundwater hydrographs for selected Site A wells (Figure 2);

3. Site A tetrachloroethene, trichloroethene, and 1,2-dichloroethene plume definition maps (Plan Sheets 26 through 28); and
4. Groundwater quality trends for tetrachloroethene, trichloroethene, and 1,2-dichloroethene at selected wells (Figures 41 through 44).

The groundwater elevation map shows a deflection in the 892-contour line as shown on Plan Sheet 25, indicating capture zone influences near the pumping well (01U350). The downgradient extent of the capture zone could be better defined if a monitoring point located between wells 01U108 and 01U117 were installed to verify that the 892 contour closes around the pumping location. The capture zone in July 1991, as defined by the contour lines, appears to be comparable to the capture zone defined in the FY 90 Annual Monitoring Report. The capture zone defined in FY 90 and FY 91 is less extensive than the capture zone defined in 1988 and 1989.

Based on the groundwater elevation map and the groundwater hydrographs, it appears the amount of drawdown in the pumping well is at the same level as in 1990. The pumping well during FY 91 consistently had 6 to 11 feet of standing water above the pump which was not being removed to maximize drawdown. The pumping well currently operates continuously at approximately 3-4 gpm, yet the pump is rated to 10 gpm. Overall system efficiency could be increased significantly if pumping could draw down the 6 to 11 feet of water above the pump. Another limiting factor to increasing pumping is pressure buildup in the carbon canisters, which appears to be the result of iron bacteria growth in the carbon. This bacteria buildup would also need to be addressed before an increase in pumping could occur.

The isoconcentration map of 1,2-dichloroethene (Plan Sheet 26) does show decreased capture effects relative to FY 90 in the vicinity of 01U117. The concentrations of 1,2-dichloroethene and trichloroethene in monitoring well 01U117, downgradient of the pumping well, increased during FY 91, which suggests that the decreased capture zone is allowing some migration of contaminants from the source area. If steps are not taken to increase the existing capture

zone to minimize the migration of contaminants, concentrations at 01U115 and 01U116 further downgradient are expected to rise.

The isoconcentration maps for trichloroethene (Plan Sheet 27) and tetrachloroethene (Plan Sheet 28) do not show noticeable effects from pumping.

The groundwater quality trends (Figures 41 through 44) do show decreasing concentrations both in the pumping well and 01U108, but concentrations in monitoring well 01U108 continue to remain higher. Figure 44 shows that since August 1988 (approximately the inception of pumping at 01U350), the contaminant concentrations at 01U108 have decreased from the 700-1,000 $\mu\text{g/l}$ range to the 10-150 $\mu\text{g/l}$ range.

In summary, the water level contours and recent increases in VOC concentrations at 01U117 suggest that the recovery well at Site A may not be preventing all contamination from migrating from disposal pits 1 through 5. In addition, the present capture zone does not extend to the north TCAAP boundary or beyond. Hence, contamination already beyond the capture zone will continue to migrate away from TCAAP. Furthermore, the existing pumping is not affecting the migration of contaminants in the vicinity of well 01U102, which appears to represent a separate plume from disposal pits 6 through 8. The Army is presently evaluating additional interim remedial actions for Site A.

E. RECOMMENDATIONS

Based upon the evaluation of Site A and the Interim Remedial Action system, the following recommendations are presented for consideration.

Well Abandonment

It is recommended that well 03L529 be abandoned using procedures in accordance with Minnesota Rules Chapter 4725, Minnesota Water Well Construction Code. Well 03L529 is located south of Site A. The well, sometimes referred to as the "nursery well," was a production well of a nursery which leased property from TCAAP. It currently consists of a 1-foot riser pipe with a locking cap.

The well is located in an area which does not presently have contamination in the lower Unit 3 aquifer. Because of its unknown construction, and the fact that water quality data would be of limited use, no sampling of this well has been done since at least Quarter 16. Hence, it is recommended that this well be properly abandoned.

Section X

Evaluation of TGRS Interim Remedial Action

In June 1986, the Groundwater Remediation Program Plan (GRPP) was developed for the Twin Cities Army Ammunition Plant (TCAAP). Figure 1 presents the Site location map for TCAAP. The GRPP involves the development of a groundwater remediation system for Volatile Organic Compound (VOC) plumes at TCAAP and represents the first phase of the Honeywell/Army remediation efforts at TCAAP. The second phase of the Honeywell/Army remediation was the construction of the Boundary Groundwater Recovery System (BGRS) completed in April 1987. Subsequent phases involve expansion of the remediation system to complete groundwater remediation on and off TCAAP. The scope of the Phase III efforts was based on the operational performance of the BGRS during Phase II and is designated the TCAAP Groundwater Recovery System (TGRS).

On August 12, 1987, a Federal Facility Agreement (FFA) between the U.S. Army, USEPA and MPCA was signed which formalized the TCAAP remedial program (the FFA became effective on December 31, 1987).

In September 1987 a Record of Decision (ROD) was prepared by the USEPA in order to implement the Interim Response Action Plan (IRAP) for TCAAP. The ROD provides specific criteria for the BGRS and TGRS. Following extensive interagency negotiations on the FFA and the ROD, the BGRS was started on October 19, 1987.

In accordance with Section 3.7.2 of attachment 2 of the FFA, this section of the report serves as the Annual Monitoring Report and presents the monitoring results from the third year of operation of the TGRS which began operation as an expansion of the BGRS on

January 31, 1989. This report documents all performance and monitoring data collected from October 1990 through September 1991.

The Phase I BGRS consisted of six Unit 3 extraction wells which were connected by forcemain to an air stripping treatment facility. It was intended that the TGRS would be completed following an assessment of the performance of the initial six wells.

Following the initial 90 day operation of the BGRS, the IRA-BGRS Performance Assessment Report (PAR) was prepared. The PAR assessed the hydraulic and treatment performance of the BGRS. The PAR presented an extensive database collected during the initial 90 day period of BGRS operation and prior pertinent data. The PAR also included a summary of the geology, hydrogeology and remediation history for TCAAP. The PAR was subsequently approved by the MPCA and EPA. The conclusions of the PAR included:

1. The BGRS captured groundwater in the Unit 3 (Hillside Sand) aquifer across a continuous width of 3,400 feet at the southwest TCAAP boundary and this capture widens to 4,900 feet at Sites D and G and provides for complete capture between extraction wells at the TCAAP boundary. Since it was intended that the BGRS would be expanded, there were no capture criteria for Phase I contained in the ROD.
2. The BGRS captured a portion of the Unit 4 (Prairie du Chien/Jordan) Aquifer groundwater based on drawdowns observed in the Unit 4 in response to pumping. This portion was not quantified.
3. The BGRS captured a portion of the Unit 4 VOC plume.
4. The Unit 3 VOC plumes were substantially captured by the operation of the BGRS. However, to the north of the system, a portion of the Unit 3 plume was outside of the BGRS capture zone.

5. During the 90 day assessment period, the BGRS treatment system extracted between 17.0 lbs./day and 28.6 lbs./day of VOCs with an average of 23.2 lbs/day.
6. Treated effluent exhibited trichloroethene concentrations consistently below 5 $\mu\text{g}/\text{l}$ and below the contaminant specific requirements of the ROD for all other VOCs.
7. Effluent concentrations for metals, cyanide, PCB, radon, radionuclides, base/neutral compounds and pesticides were all below contaminant specific requirements of the ROD.
8. Phosphorus and orthophosphate analytical data indicated that discharge to Rice Creek would not significantly change the phosphorus concentrations in Rice Creek. Phosphorus loading in Rice Creek would increase from 0.22 percent to 1.3 percent over ambient levels.
9. The source control well (SC-1) at Building 502 (Site I) provided substantial capture of VOCs from Site I and meets the objectives of the FFA.
10. Recharge at the Arsenal Sand and Gravel Pit performs as designed and is acceptable as a water management option for treated water discharge.
11. Air emissions from the BGRS treatment system met the contaminant specific requirements of the ROD. VOCs were not detected upwind or downwind of the BGRS.

The PAR made recommendations for expansion of the BGRS into the TGRS in order to meet the Phase II remediation criteria established in the ROD. These modifications were completed and the expanded system began operation on January 31, 1989. The expansions to the system consist of:

1. Four Unit 4 and two additional Unit 3 extraction wells for a total of 12 extraction wells located along the southwest boundary of TCAAP,
2. Two additional pairs of Unit 3 source control extraction wells located immediately downgradient of Sites D and G for a total of five source control extraction wells,
3. An expanded treatment facility designed to accommodate additional flow from the TGRS. This includes a fourth stripping tower and associated appurtenances, and
4. 4400 feet of forcemain to connect the additional extraction wells.

The 1988 BGRS Annual Assessment Report and Monitoring Plan was completed in May 1989 and was approved by the MPCA on August 9, 1989. This report presented the monitoring and performance data from the first year of BGRS operation (October 1987 to October 1988). The Annual Assessment Report concluded the following:

1. The BGRS produced a continuous zone of hydraulic capture that is approximately 3400 feet in width at the TCAAP boundary under operating conditions. The capture extends through the entire thickness of the Unit 3 aquifer and an undefined portion of the Unit 4 aquifer.
2. The Unit 3 VOC plume was substantially captured by the BGRS. There exists a portion of the VOC plume outside of capture to the North. This portion of the plume is being addressed by the TGRS.
3. An undefined portion of the Unit 4 VOC plume was captured. Capture in the Unit 4 is being addressed under the TGRS expansions to the system.
4. The VOC plumes at TCAAP showed little variation in configuration and relationship to capture from quarter to quarter during the 1988 operational year.

5. The VOC compounds Benzene, Toluene, 1,2-Dichloropropane, Xylenes, and 1,1,2 Trichlorotrifluoroethane were never detected in the influent above contaminant specific requirements. These compounds have typically not been considered Target compounds at TCAAP.
6. The Arsenal Sand and Gravel Pit was found suitable to accommodate the treated water discharge under the conditions of the operational year.
7. The operational problems that resulted in a number of system shut downs during the year were addressed through physical improvements to the system and through the reinstatement of an operation and maintenance contractor.
8. In general, the hydraulic and treatment performance conclusions presented in the PAR continued to be supported by the BGRS data base.

In addition, the 1988 Annual Monitoring Report recommended modifications to the Monitoring Plan based on the experience gained during the first year of BGRS operation. Briefly, the Monitoring Plan recommendations were:

1. Reduce the frequency of the groundwater level monitoring to one comprehensive round per year and monitor key locations during the remaining three quarters.
2. Reduce the frequency of groundwater sampling to one comprehensive round per year and monitor key locations (including PD2U3 and 03M005) during the remaining three quarters.
3. Increase the scope of the monitoring activities to address the expanded TGRS system.

4. Eliminate the non-target VOCs, listed in conclusion No. 5 above, from the influent/effluent sampling program and monitor for the same VOC compounds as for the monitoring wells.
5. Conduct analysis for metals from all extraction wells and the treatment system effluent on a quarterly basis in an effort to determine the source of the anomalous metals concentrations identified in the BGRS effluent.
6. Monitor the system effluent for Priority Pollutant Compounds on an annual basis to address the potential for the presence of non-target compounds at TCAAP.
7. Continue to monitor water levels and discharge rates with respect to the Arsenal Sand and Gravel Pit to assess its long term suitability to accommodate TGRS discharge.

The 1989 Annual Monitoring Report presented the following conclusions based on detailed performance assessment of the expanded TGRS:

1. The TGRS develops a continuous zone of capture that is approximately 4,500 feet wide at the TCAAP boundary. The zone of capture widens to approximately 8,300 feet upgradient of the boundary. This zone of capture was demonstrated at average system pumping rates of 2,400 to 2,700 gpm.
2. Hydraulic capture in the Unit 3 extends beyond the 5 $\mu\text{g}/\text{l}$ trichloroethene contour at the TCAAP boundary. This meets the VOC capture criteria in the EPA ROD.
3. Hydraulic capture in the Unit 4 extends beyond the 5 $\mu\text{g}/\text{l}$ trichloroethene contour at the TCAAP boundary. This meets the VOC capture criteria in the EPA ROD.
4. The TGRS extracted and treated 19,510 pounds of VOCs in 1989.

5. The VOC plumes showed little variation in configuration since 1988. This is consistent with previous conclusions that significant plume variations occur slowly at TCAAP.
6. All effluent metals sampling results were below the contaminant specific requirements.
7. Effluent VOC concentrations were below Contaminant Specific Requirements for all but one sampling event. In this round the criteria was slightly exceeded with a trichloroethene concentration of 6.1 $\mu\text{g/l}$. However, the duplicate analysis yielded 2.7 $\mu\text{g/l}$.
8. The effluent priority pollutant scan indicated no parameters above the contaminant specific requirements. Base/neutral extractable organics, pesticides, PCBs and VOCs were not detected in the effluent.
9. Phosphorus sampling data exhibited a more consistent pattern than previous data. In particular, the orthophosphate data exhibited a consistent average concentration within a narrow confidence interval.

The 1989 Annual Monitoring Report was wider in scope than the 1990 report, this report, or future annual monitoring reports for the TGRS. The 1989 report was a performance assessment report and not just a monitoring report. This is because the 1989 report represented the first year of operation of the expanded TGRS. Thus a more detailed and exhaustive performance assessment was appropriate and possible. The exhaustive assessment was possible as there were data available from non-pumping conditions for detailed comparison with pumping condition. In 1990, the system continued to operate at an essentially steady state condition, so, no new comparisons to ambient conditions are necessary or possible.

A. OBJECTIVES

This section of the report presents the October 1990 through September 1991 operation of the completed TGRS. The schedule for reporting was changed from the calendar year to the fiscal year (FY) (October through September) to facilitate meeting reporting schedules in the FFA/ROD. The fiscal year corresponds to the operational year since the BGRS was started in October 1987. The focus of this document is to report the FY 1991 performance of the TGRS in comparison to the groundwater capture and treatment criteria contained in the EPA ROD. Table 9 presents the capture and treatment criteria contained in the ROD. As discussed in the ROD, capture and treatment criteria may be changed by USEPA in the future. Future objectives will address the criteria established at that time.

The two specific objectives of this report are:

1. Chemical/Hydraulic Capture Delineation

The first objective is the delineation of the hydraulic zone of capture induced by the TGRS. Hydraulic capture will be compared to the Phase II chemical capture criteria presented in the EPA ROD. Capture is illustrated in Section X.D, with equipotential maps of the aquifer drawn from field data. Confidence that equipotential maps accurately represent the aquifer performance of the TGRS was gained during the exhaustive performance assessment in the 1989 Annual Monitoring Report.

In Section X.E, the hydraulic zone of capture is compared to the VOC isoconcentration maps to determine if the criteria have been met. The observed performance data forms the core of the capture delineation.

2. Treatment System Performance Assessment

The second objective is to report the treatment performance of the TGRS with regard to the treatment criteria presented in the ROD. This objective is met through the presentation of extensive analytical data and operational data collected at the Site. These data allow calculations of the mass of VOCs removed and the removal efficiency.

System operational data are presented to demonstrate the mechanical performance of the system. This includes a quantification of down time and discussion of remedies implemented as a result of down time.

B. SYSTEM DESIGN APPROACH SUMMARY

1. BGRS Pumping Tests

The initial six BGRS extraction wells (B1 through B6) were installed and pumping tests conducted prior to start up of the BGRS. These pumping tests were documented in the BGRS Extraction Well Pumping Test Report. Both step drawdown tests and constant rate tests were performed. Table 10 presents a summary of the transmissivities calculated from these pumping tests. Storativities were not calculated since the aquifer is unconfined or weakly confined along the TCAAP boundary and pumping did not extend a sufficient period of time to characterize the delayed yield response for the aquifer.

As Table 10 shows, the transmissivities exhibit reasonable consistency along the entire TCAAP boundary. At the time of the BGRS Extraction Well Pumping Test Report, it was believed that these values reflected the Unit 3 alone and largely ignored the interconnection of the Unit 3 and Unit 4 aquifers. What was unusual was that the Unit 3 thickness varied by a factor greater than 2 along the southwest TCAAP boundary. This thickness variation

was not reflected in the pumping test results. It would be expected that the transmissivities would vary more or less directly with the thickness of the unit.

Subsequent to the BGRS Pumping Test Report it has been recognized that the entire Unit 3 and Unit 4 aquifers respond as a single, thick aquifer with vertical variation in hydraulic conductivities. This is based on observation of drawdown across the entire Unit 3/Unit 4 thickness in response to pumping either Unit 3 or Unit 4. Thus, it is not surprising that the transmissivities remain constant along the entire boundary since, although the Unit 3 varies substantially in thickness, the combined Unit 3 and Unit 4 thickness remains relatively constant.

2. TGRS Design

The PAR recommended the installation of one additional Unit 3 extraction well and four Unit 4 extraction wells. The PAR proposed pumping rates for these new wells and also proposed to increase the pumping rate of B1 to 350 gpm.

The PAR also recommended two pairs of extraction wells downgradient of Sites D and G to provide source control of these Sites and to enhance VOC mass removal.

In the PAR it was recommended to conduct a pumping test on Unit 4 extraction well B9 to refine the final design of the TGRS. It was also agreed, after submission of the PAR, that a second Unit 3 extraction well (B11) would be installed southeast of B1, rather than increasing the pumping rate at B1. The pumping test on well B9 was conducted in August 1988 and formed the basis of the final design of the TGRS. These pumping tests were utilized to determine the pumping rate required to achieve the necessary zone of capture for the TGRS. This rate was determined to be 2,450 gpm. During the detailed design of the TGRS, the system was designed based on hydraulic capacity to operate at a maximum theoretical rate of 2,900 gpm. The additional pumpage was included to provide a safety margin for the calculations and to allow for operational fluctuations in system performance.

In November 1989, the Aquifer Characterization Study was prepared as a supplement to the Honeywell Off TCAAP study, Phase III. This report presents a detailed evaluation of four pumping tests conducted on and off TCAAP and correlates these with TGRS performance. From these analyses, the groundwater flux in the Unit 3 and Unit 4 across the southwest TCAAP boundary was calculated. The Aquifer Characterization Report includes an analysis of the B9 pumping test. The results of the B9 pumping test are also included in the 1989 Annual Monitoring Report.

To summarize, the B9 test indicated the following aquifer parameters along the southwest TCAAP boundary:

<u>Unit</u>	<u>Transmissivity (ft²/day)</u>	<u>Thickness (ft)</u>	<u>Hydraulic Conductivity (ft/day)</u>
Hillside Sand (Unit 3)	21,424	156	137
Prairie du Chien (Unit 4)	3,160	37	85
Jordan Sandstone (Unit 4)	4,140	90	46
Bulk Transmissivity	28,724	283	-

The bulk transmissivity from the Unit 4 B9 test matches the typical results from the B1 through B6 Unit 3 tests. This match strongly supports the conclusion that the Unit 3 and Unit 4 respond as a single thick aquifer and that transmissivities along the boundary are consistent.

C. TGRS ENGINEERING CONTROLS

The overall design of the TGRS was developed with respect to the following guidelines:

- maximum anticipated extraction rate from the various extraction wells;
- maximum anticipated flow rates through the various legs of the forcemain;

- maximum anticipated throughput in the treatment center;
- multiple discharge points;
- appropriate sizing to handle changes in flow rates;
- match equipment and structure sizes appropriately;
- flexibility to be able to operate with portions of the system shut down;
- long term operational life;
- automatic operation requiring a daily system check, emergency response as required and regularly scheduled maintenance.

The operation of the TGRS involves the following processes in series: groundwater extraction, transmission of extracted groundwater to the treatment plant, groundwater treatment, transmission of treated water to an end-use, and treated water discharge.

Each process is operated continuously (i.e. there is not batch movement of water from process to process). System oversight consists of a daily inspection of operations and key components with periodic maintenance and emergency response as needed. Operations, therefore, are extensively automated with continuous system monitoring and supervision provided by a programmable logic controller (PLC).

The following presents an overview of the entire TGRS mode of operation. Detailed explanation of system operation and design are contained in the Final Engineering Report and the TGRS Operation and Maintenance Manual. The Final Engineering Report and TGRS Operation and Maintenance Manual were issued in January 1991.

1. Summary of Operation

Groundwater is extracted from 12 wells along the southwest boundary of TCAAP (B1 through B12) and five wells downgradient of interior source areas on TCAAP (SC1 through SC5). Submersible pumps in the extraction wells discharge into a common pressurized

forcemain which carries the water to the treatment system. The treatment system is located adjacent to Building 116. The TGRS layout is presented in Figure 45.

Flow into the treatment plant from the forcemain is split and directed to the top of two air stripping towers (Towers 1 and 2). The water is distributed over polypropylene packing and flows downward by gravity, through the tower packing. Air is forced upward through the packing by the tower blowers thereby volatilizing organic compounds from the towers. The air discharges through moisture eliminators and exhausts out the top of the towers.

The primary treated water drains into two concrete wet wells beneath Towers 1 and 2. The wet wells are connected by a sluice gate which provides combined or parallel operation of Towers 1 and 2. Wet Well Pumps 1 and 2 (WWP#1 and WWP#2) transfer the water from wet well 1 and wet well 2, respectively, to the top inlet of Tower 4 and Tower 3, respectively, for final treatment. The water is again distributed over packing with continuous counter current air flow and the water flows downward through the tower packing into the third wet well.

Wet Well Pumps 3 and 4 (WWP#3 and WWP#4) transfer the treated water from wet well 3 to a pressurized, 16-inch diameter discharge forcemain and on to one or more of the discharge outlets.

The TGRS is designed with three options for treated water discharge: recharge at the Arsenal Sand and Gravel Pit, discharge to Rice Creek and TCAAP plant use at the elevated water tower. Currently, the Arsenal Sand and Gravel Pit option is utilized for the majority of treated water. The TCAAP uses 142,000 to 232,000 gallons per work day depending on the time of year.

2. System Operating Specifications

In general, the influent and effluent water flow rates at the treatment plant are designed to be equal, thereby providing continuous operation of all processes and equipment. The following is a summary of the system design parameters:

- Groundwater extraction from the 17 TGRS extraction wells has been designed to provide a theoretical hydraulic capacity of 2,900 gpm and a sustained daily average capacity of 2,730 gpm to the treatment plant. The average rate of 2,730 gpm is the practical hydraulic capacity of the current system configuration and is not used in the determination of the required zone of capture. Refer to Table 11 for individual design flow rates.
- The influent to the treatment plant is divided between Towers 1 and 2, each receiving up to a maximum of 1,450 gpm.
- Turbines 1 and 2 (located in wet wells 1 and 2) transfer water to Towers 4 and 3, respectively. Each pump and tower handles up to a maximum of 1,450 gpm.
- Turbines 3 and 4 (located in wet well 3) discharge treated water to an end use at a combined rate of up to a maximum of 2,900 gpm.
- Air blowers provide air to the towers. The blowers for Towers 1 and 2 provide 6,000 - 7,000 cfm each. The blowers for Towers 3 and 4 provide 9,000 - 14,000 cfm each.
- Level controls within the wet wells communicate with the PLC according to changing water levels. A complete and balanced operation should provide continuing water levels above the low level switches and below the high level

indicator switches. However, given the probability of unbalanced flows for any number of reasons (i.e. changing hydraulic heads, maintenance, repairs, temporary malfunctions), the PLC has provisions within its program to cycle-off the extraction well pumps according to high levels occurring in the wet wells; and in turn, cycle-off the wet well turbine pumps according to low level occurring within these wet wells. The system operates such that the wet wells cycle off rather than the extraction well field. The rationale behind this is that there is a relatively small number of motors, starters and electrically controlled valves associated with the wet wells when compared with the well field. This also provides for more continuous and complete hydraulic capture within the aquifer units. The well field will cycle if necessary, however, starting with the least contaminated extraction well, B3, and followed by the other extraction wells in a predetermined sequence. The programmed shut down sequence is presented in Table 12.

In summary, the priority of operation is as follows:

1. maintain constant operation of all extraction wells and air stripping towers;
2. maintain the desired flow rates at individual wells as presented in Table 11;
3. maintain treatment center WWP#1 and WWP#2 pumping rate equal to or slightly above the combined flow of the extraction well field;
4. maintain treatment center WWP#3 and WWP#4 pumping rate equal to or slightly above WWP #1 and #2; and
5. provide water to the elevated water storage tower.

3. **1991 Operational Performance**

a. **Overall System Performance**

FY 1991 was the third year of operation of the expanded TGRS system. During October 1990 through September 1991 the system treated 1,374,479,000 gallons of water (Meters #1 and #2). The monthly and annual volume of water pumped is presented in Tables 13 and 14. Table 13 presents the pumphouse metered monthly flow volumes of each extraction well. Table 14 presents the combined pumphouse metered flow volume (extraction wells) and the flow volumes metered at various stages in the treatment center.

b. **Monthly Flow Reports**

Each month a Monthly Flow Report is prepared. The report contains the month's meter totalizer readings and the calculated flow volumes. Flow volumes are presented on a daily basis and totaled to provide a monthly flow volume. A compilation of 1991 Monthly Flow Reports is presented in Appendix H.1. During 1991, Meters #1 and #2 were used to measure total flow volumes used in monthly reports because they are considered to be the most accurate and representative of actual flow. Daily variation at individual wells is primarily due to differences in time of day when meter readings were taken.

c. **Extraction Well Down Time and System Down Time**

The down time for extraction wells is presented in Table 15. In 1991, SC1 operated as a subsystem to the TGRS. The only down time for SC1 was when the treatment system was down.

Treatment center and extraction well down time has resulted chiefly from the areas of TCAAP electrical service failures, system modifications, trouble shooting and repairs, and preventive maintenance.

d. Description of Down Time Areas

TCAAP Electrical System Failures: All electrical power to the TGRS is provided by the TCAAP electrical system. The TCAAP system suffered numerous failures and underwent a major system modification. Downtime from power outages and electrical maintenance was 475% greater than the next largest source of downtime repairs. A significant amount of repair work and several modifications were performed on the TCAAP electrical system.

System Modifications: There were eight system modifications made during the year. They were as follows:

- Phase monitors were installed in all pumphouses and the treatment center motor control center. The purpose of the units is to protect TGRS electrical motors during TCAAP power failures.
- A different style of pipe support was installed under treatment center electric check valve #3. The new support reduces strain on the forcemain system.
- The liner in electric check valve #3 was chrome plated. The purpose of this was to reduce or eliminate valve sticking.
- The air flow meter for tower #3 was replaced with higher flow range meter designed to measure a higher flow range.

- Treatment center flow meters #5 and #6 were replaced with electronic flow meters. Meter #5 had exhibited mechanical difficulties and its ability to measure flow volumes was severely diminished.
- The interiors of pumphouses were insulated and painted. This has reduced the heating load and potential for freezing related problems.
- The TGRS and SC-1 systems were modified to allow the TGRS to control SC-1. Data lines were installed between SC-1 and B11. Additional switching was installed inside both the SC-1 and TGRS control panels and the PLC program was revised to accommodate control of SC-1. Should the TGRS treatment center shut down SC-1 will also.

A detailed list of system events is presented in Appendix H.3. This list contains a more detailed explanation of down time, malfunctions, system events and the date of occurrence. An abridged compilation of downtime days, by categories, is presented in Table 16.

e. **1991 Operating Performance**

The TGRS successfully captured and treated over 1,374,479,000 gallons of contaminated water from October 1990 through September 1991. The system pumped 109 percent of the quantity of water necessary to achieve capture, based on the 1989 assessment. This is based on demonstrated capture at 2,400 gpm in 1989. The TGRS was operational over 97 percent of the time, including all causes of downtime. The system was operational 99 percent of the time when downtime from TCAAP power failures are excluded. This is an increase over the 1990 operating year in which the system operated 98 percent of the time. The increase in operating reliability can be attributed in part to the following.

Preventive Maintenance - During 1991 the monthly, six-month and annual preventive maintenance (PM) procedures were performed based on an expanded program which allowed the operations staff to identify and repair or replace equipment to avoid a downtime failure. When required, further repair work was scheduled rather than waiting for the failure to occur. A broad range of system specific information has been collected during this year's PMs which has been used to refine the content and frequency of PM procedures.

Electrical Inspection and Temperature Survey - A system wide electrical inspection and infrared temperature survey was performed to identify loose connections and overheating components. Component overheating often precedes equipment failure.

Verification of Flow Meters - As part of the annual PM, flow meters in the pumphouses and the treatment center were interchanged. Flow volume measurements before and after interchanging the meters were compared to verify consistency of measurement. All meters operated acceptably. Treatment center meters M5 and M6 were not interchanged due to the difficulty of access and cost involved. M5 and M6 are used for process measurement only.

Daily Tracking of Flow Rates - Pumphouse and treatment center meter readings were recorded in the course of the daily inspection. On a daily basis meter readings were entered into the computer, and flow rates were calculated and reviewed by the operations staff. Early detection of changes in flow rate have been critical in identifying failing equipment. By early detection the equipment was maintained or the repair scheduled before a downtime failure occurred.

Pumphouse Flow Tests and Motor Amperage Readings - Pumphouse lift systems were tested to determine the present flow capacity and motor amperage draw. Test flow capacity was compared to the original flow capacity and amperage draw. Decreases in flow capacity and changes in current draw alerted the system operations staff to

inspect suspect equipment and maintenance or schedule repairs before a downtime failure occurred.

D. HYDRAULIC PERFORMANCE

The zone of hydraulic capture for the TGRS in 1991 was determined through a straightforward contouring of the February 1991 (Quarter 30) water level data. Contours were constructed manually. Appendix F.1 contains the water level database for the monitoring wells. Past site experience and discussions with MPCA and EPA determined that manually constructed contours are appropriate at TCAAP due to the complexities of the flow field and the resulting need for hydrogeological expertise in interpreting the flow field. Confidence in the groundwater contours was gained during the detailed analysis presented in the 1989 Annual Monitoring Report. This included pumping test analysis, drawdown analysis and vertical gradient analysis.

Figures 3, 5, and 7 present the groundwater contours for the upper Unit 3, the lower Unit 3 and the upper Unit 4, respectively. These figures are also presented full size as Plan Sheets 5, 7 and 9. These three figures present the potentiometric contours from three vertical portions of the aquifer. For each level, the horizontal extent of capture is nearly identical. This strong similarity between the upper Unit 3, the lower Unit 3 and the upper Unit 4 contour patterns illustrates the capture is vertically continuous across the aquifer at TCAAP. This is as expected since the Unit 3 and Unit 4 are hydraulically continuous and act as a single, thick aquifer. This continuity was discussed thoroughly in the 1989 Annual Monitoring Report.

Inspection of these figures indicates a broad area of very low horizontal gradients immediately southwest of the TGRS, this area is indicative of a stagnation zone downgradient of the TGRS. In the southern portion of the TGRS there are insufficient wells to accurately contour the upper Unit 4 capture in this part of the Site. The flat gradients indicate there is

capture of bedrock groundwater by the Unit 3 extraction wells. Contaminants are not currently in the upper Unit 4 in this area, therefore the upper Unit 4 is not of concern for remediation in this area of the Site.

The flow field is quite similar to that presented in the 1990 Annual Monitoring Report. This is as expected since the groundwater extraction system has been operating at an essentially steady rate throughout the year. Past investigation had not indicated significant changes in the ambient flow pattern during nonpumping conditions at TCAAP. It follows that under constant pumping, capture would remain constant.

Appendix F.2 contains selected hydrographs from wells throughout TCAAP. Review of the hydrographs indicates that background changes in water level were generally less than one foot over the year.

1. Vertical Gradients

Table 17 presents the historical vertical gradient summary. This table reveals that there was little significant change in vertical gradients over the last year. The gradient between T2M3 and T2L3 was downward in February 1990 but returned to upward over the remainder of the year. Historically, the vertical gradient between the two wells has fluctuated, probably in response to short-term pumping fluctuations at B1 and B2. The upward gradient between wells 03L078 and 03U078 increased in magnitude from 0.005 in 1990 to 0.013 in September 1991. This is consistent with nearby Unit 3 pumping. The vertical gradient between wells 03U711 and 04U711 varied from upward to downward during the year. This well nest is roughly equidistant from B4 (Unit 3) and B8 (Unit 4), suggesting the gradient fluctuations indicate competing zones of influence at well nest 711.

The remaining vertical gradients were relatively constant through the year. The consistency in vertical gradients is as expected since the groundwater extraction system has operated at an essentially steady state condition during Fiscal Year 1991. The slight changes discussed

above probably reflect short term pumping fluctuations during the year and do not affect the interpretation of the TGRS.

2. Arsenal Sand and Gravel Pit Discharge Water Balance

The water elevation in the Arsenal Sand and Gravel Pit changed little from 1989 to 1991. In 1989, measurements were between 863.68 feet AMSL and 866.05 feet AMSL. In May 1990 the elevation was 864.62. In February 1991, the water elevation was 865.22. These stable water levels in the Gravel Pit illustrate water is not accumulating in the Pit. The Gravel Pit is easily accommodating the TGRS discharge as designed. There was no decrease in performance of the Gravel Pit in 1991.

E. CHEMICAL PERFORMANCE ASSESSMENT

1. VOC Plumes

Plan Sheets 11, 15 and 19 present the trichloroethene contours for the upper Unit 3, lower Unit 3, and upper Unit 4 aquifers based on the March 1991 sampling data. These plans are also included here as Figures 9, 13, and 17. Plan Sheets 13, 17 and 21 present the 1,1,1-trichloroethane (111TCE) contours for the upper Unit 3, lower Unit 3 and upper Unit 4 respectively. These plans are also presented as Figure 11, Figure 15 and Figure 19. Figures 32 through Figure 37 present trichloroethene versus time plots for several selected monitoring wells.

As these plans indicate, the VOC plumes at TCAAP exhibit similar configurations to those identified in the 1988 through 1990 Annual Monitoring Reports. Well nest 001 defines the northern extent of the plumes and well nest PD2U3 defines the southern limit of the plumes. In 1991 well 03U003, near well B11, showed a decrease in VOC concentration over the previous year. This appears to reflect the changes in the flow field induced by the extraction

wells as discussed below. Groundwater quality data for the monitoring wells is presented in Table 2.

Well B11 was added to the TGRS design, at the request of EPA and MPCA, to assure sufficient capture at the south TCAAP boundary. Shortly after the start up of the TGRS the VOC concentration at 03U003 began to increase. This observation was part of the decision to reduce the pumping rate at B11 from 250 gpm to 100 gpm and move the excess pumpage to well B10. This decision was made because it appeared the high pumping rate at B11 was causing the plume to widen to the south resulting in the concentrations increase at 03U003. The 1989 AMR discusses this modification. The concentration decrease at well 03U003 in 1991 appears to be the result of the reduced pumping at B11. In September 1991 well 04U003 showed a sharp increase in concentration from historical data consistently less than 5 $\mu\text{g}/\text{l}$ to 1,400 $\mu\text{g}/\text{l}$. This result appears anomalous and future monitoring is needed to confirm whether this result is valid.

The zone of capture created by the TGRS extends beyond the 5 $\mu\text{g}/\text{l}$ TRCLE contour along the entire southwest TCAAP boundary.

The Honeywell Off TCAAP Phase III Plume Definition Report presents a discussion of the historical plume development at TCAAP. The current plume configuration at TCAAP remains consistent with the observations and conclusions contained in the Plume Definition Report and with the data presented in the 1989 Annual Monitoring Report.

2. Extracted Groundwater Quality

As discussed in Section X.C.3, the TGRS extracted and treated 1.4 billion gallons of water from October 1990 through September 1991. Based on the monthly influent VOC concentration (see Section X.E.3) and the monthly flow totals measured at meters #1 and #2 (see Section X.C.3), the TGRS removed a total of 26,760 pounds of VOCs from October 1990 through September 1991.

Table 18 summarizes the individual VOC mass contribution of each extraction well and the entire system. The percent contributions for each well are based on the average flows from each well and the quarterly VOC results from each well. To calculate the number of pounds of VOCs for each well the flows and concentrations were normalized to the treatment center flows and concentrations to correct for variance between flow meters in the well houses and for consistency between quarterly VOC concentrations at the wells and monthly VOC concentrations in the influent. It was assumed that the monthly sampling of the treatment system provides a better estimate of mass removal than the quarterly individual extraction well sampling. Therefore the total mass removed is based on the monthly TGRS influent sampling.

VOC samples were collected quarterly from the 17 extraction wells that comprise the TGRS. Table 19 presents a summary of these sampling results. Variations in detection limits from round to round are the result of varying sample dilutions performed by the laboratory. Dilutions are required due to high concentrations of some analytes.

The predominant VOCs in boundary wells B1, B2 and B3 are trichloroethene, followed by 1,2-dichloroethene. This profile is consistent with the expected profile for wells located within the south plume, emanating from the Building 502 vicinity.

It appears that the 111TCE to trichloroethene ratio has increased at well B3, with the two compounds exhibiting approximately the same concentration. This trend was first observed near the end of the 1990 operational year, and indicates the effect of the mixing of the contaminants from the north and south plumes due to the effect of pumping on the flow field.

The remaining boundary extraction wells (B4 through B10, B12) exhibit trichloroethene as the primary VOC followed by 111TCE. This profile is consistent with wells located in the north plume which emanate from source areas D and G.

The source control wells (SC1 through SC5) exhibit similar relationships to their respective source areas. At SC1, located adjacent to Building 502, the secondary VOC is 1,2-dichloroethene. While at SC2 through SC5, the secondary VOC is 111TCE.

Appendix G.1 presents trichloroethene versus time graphs for each extraction well.

VOC mass removal rates are summarized for each extraction well on Table 18. The mass removal rates are based on average pumping rates over each monitoring interval. As Table 18 illustrates, the greatest degrees of mass removal are achieved by wells B1, B4, B5, B6, SC2 and SC5, which are located in the centers of the plumes. These six wells each recovered over 1,000 lbs of VOCs and accounted for 90 percent of the VOC mass removed by TGRS. The source control wells, SC1 through SC5, together accounted for 46 percent of the VOC mass removed while accounting for only 12 percent of the water pumped by the system. This illustrates the efficiency of extraction from near the source areas. Extraction well SC4 is removing significantly less VOC mass than the other source control extraction wells. It appears that SC4 draws relatively low concentration water from between Source Areas D and G. This suggests that the VOC plume near Source Area D is much narrower than indicated by the monitoring well network.

3. Groundwater Treatment

a. VOCs

Influent and effluent water were sampled on a monthly basis during 1991. Table 20 presents a summary of the influent and effluent data. The ranges of concentrations presented reflect normal variations of system operation, analytical variability, and expected differences within the aquifers as the system extracts contaminated groundwater from a large geographical area. TGRS influent is labeled TGRSI and effluent is labeled TGRSE in Appendix G.2. Figure 46 presents a graph of influent trichloroethene versus time. This graph is cumulative and includes previously

reported BGRS data. The average 1991 influent trichloroethene concentration was 1,661 $\mu\text{g/l}$. Comparison of influent and effluent trichloroethene indicates an average removal efficiency of 99.9 percent.

Figure 46 also includes a summary of the effluent trichloroethene concentration versus time. As indicated, effluent has remained below 5 $\mu\text{g/l}$ for all sampling events in 1991. A review of the 1991 database indicates that the effluent has remained below the Contaminant Specific Requirements for all other VOC compounds in the ROD.

b. Priority Pollutant Scan

Appendix G.2 includes the results of the annual effluent priority pollutant scan conducted in May 1990. Semi-volatile compounds, base/neutral extractable compounds, pesticides, and PCB were not detected. However, as indicated in Appendix G.2, a number of the data were qualified as "R" (unusable) during the QA/QC validation assessment. These compounds are not expected to be present in TGRS effluent. The priority pollutant scan is conducted as a precautionary measure since some of these chemicals have been identified in TCAAP soils. These compounds potentially could be present in groundwater. Past priority pollutant sampling has not identified these compounds in TGRS effluent.

No metals were identified in the priority pollutant scan above the contaminant specific requirements in the ROD with the exception of barium at 1,810 $\mu\text{g/l}$ on October 15, 1990. Barium was below the contaminant specific requirement in all previous and subsequent samples. The concentration is also below the current federal MCL of 2,000 $\mu\text{g/l}$.

c. Metals

In addition to the priority pollutant scan, metals samples were collected monthly from the system effluent. Metals, specifically lead and cadmium have been sporadically detected above contaminant specific requirements in the effluent and a few monitoring wells. Regular metals sampling of the effluent was also conducted in 1991 to monitor this occurrence.

The 1991 effluent metals analyses did not exhibit any metals exceeding the contaminant specific requirements in the ROD. Table 21 presents the effluent metals summary. In particular, lead remained well below the containment specific requirement of 20 $\mu\text{g}/\text{l}$ as well as below the MCL of 50 $\mu\text{g}/\text{l}$. Lead was detected once in TGRS effluent at 1.51 $\mu\text{g}/\text{l}$. Cadmium was not detected in TGRS effluent in 1991. In some instances on Table 21, lead is reported as < 100 $\mu\text{g}/\text{l}$. These represent sample dilutions for other analytes and are accompanied by undiluted analyses on the same date, which achieve necessary detection limits.

d. Total Phosphorus and Ortho Phosphate

Table 22 summarizes the extraction well and effluent phosphorus and ortho phosphate analytical data. During 1991 the effluent was analyzed for total phosphorus and ortho phosphate monthly in accordance with the Monitoring Plan. Total phosphorus and ortho phosphate are monitored to address nutrient loading for surface water discharge. The TGRS design can accommodate surface water discharge via Rice Creek. Currently, however, this option is not under consideration.

These data indicate that the aquifers at TCAAP exhibit variable phosphorus concentrations. It is expected that varying flow rates will affect effluent concentrations but the long term mean will be relatively stable. In particular, the

ortho phosphate results have exhibited a reasonable consistency between 1987 and 1991.

4. **Air Emissions**

The air stripping towers remove VOCs with an efficiency of 99.9 percent (see Section X.E.3.a). Thus, the air emissions are essentially equal to the VOC mass removal rates presented in Table 18. Air emissions therefore averaged 73.3 lbs/day based on the VOC mass removal rates. The total emissions from October 1990 through September 1991 were 26,760 lbs.

Section XI

Evaluation of Site K Interim Remedial Action

A. BACKGROUND

Volatile Organic Compound (VOC) contamination was identified in the storm sewer at Building 103, Twin Cities Army Ammunition Plant (TCAAP) in 1983. Following an initial assessment in 1983, a Remedial Investigation/Feasibility Study (RI/FS) was conducted in 1984. The RI/FS activities were designed to define the extent of VOC contamination in the vicinity of the southern portion of Building 103 in the area where contamination was originally identified and to determine whether or not there was a resultant impact on other areas at TCAAP or on the regional groundwater. The RI/FS showed that the VOC contamination was found in the Unit 1 or perched aquifer in the southern part of Building 103. The Unit 1 was underlain by a low permeability clay till (Unit 2) which serves as an aquitard to restrict vertical groundwater flow from reaching the deeper Unit 3 regional aquifer. Based on the water levels in the vicinity of Building 103, the Unit 1 groundwater flows to the west towards Rice Creek.

The findings of the RI/FS and some supplementary investigations concluded that:

- 1) VOCs identified in the storm sewer are the result of infiltration of perched groundwater containing VOCs beneath Building 103.
- 2) The limits of the VOC plume in the perched groundwater have been defined to be beneath and immediately northwest of the southern part of Building 103.

- 3) Unit 1 groundwater outside of the immediate Building 103 area and Unit 3 groundwater downgradient of Building 103 have not been impacted by Building 103 activities. Additional studies are being conducted as part of the TCAAP OU-2 Feasibility Study to evaluate whether any contamination is present in the northern part of Building 103.

B. REMEDIAL PROGRAM

Based on the findings of the investigatory activities, a remedial program was designed to prevent infiltration of contaminated Unit 1 groundwater into the storm sewer and to capture and treat the contaminated groundwater originating at Building 103.

The VOC remediation program at Building 103 consisted of grouting the joints in the storm sewer to prevent Unit 1 groundwater infiltration and installation of a groundwater collection and treatment system. The sewer joint grouting was completed in February 1985.

The groundwater extraction and treatment system at Building 103 began operation in August 1986. Groundwater is collected using 410 feet of drainage tile sloped to a central manhole. The collected groundwater is pumped to an air stripping system where it is treated to remove VOCs and is discharged under an NPDES permit to the storm sewer. The treatment system was designed to accommodate up to 30 gallons per minute of extracted groundwater and to treat the contaminated water at an air to water ratio of 50:1 based on 200 cubic feet per minute of air. The air stripping tower is approximately 22 feet tall with 19 feet of one inch Yaeger Tri-pack packing. During FY 1991 the system collected and treated approximately 6.2 million gallons of water and removed approximately 17.5 pounds of VOCs.

C. MONITORING

A monitoring program was established to:

- Meet NPDES permit monitoring requirements,
- Measure the effectiveness of VOC removal,
- Measure the mass of VOCs removed,
- Monitor the progress of remediation in the aquifer, and
- Determine the zone of capture for the collection system.

As is the case with most groundwater extraction and treatment systems, the most effective way to measure short term performance is to evaluate hydraulic capture. Groundwater monitoring is conducted to evaluate the long term trends to determine whether or not the aquifer quality is actually improving. Accordingly, the Building 103 monitoring program concentrates on hydraulic performance and NPDES compliance.

1. Treatment System

In accordance with the Site K IRA monitoring requirements specified in Table 31, the treatment system influent and effluent were sampled on a monthly basis for the target VOCs listed in Table 23. In addition, effluent was monitored for orthophosphate and total phosphorus on a monthly basis and for target metals on a quarterly basis.

2. Groundwater Monitoring

Water levels are collected quarterly from the monitoring wells and bundle piezometers in the vicinity of the groundwater collection and treatment system. Groundwater samples have been collected quarterly from specific wells on a historic basis. In 1991, samples were collected in accordance with the Monitoring Plan. The comprehensive monitoring well sampling was

conducted in March 1991. Figure 47 and Figure 48 present the sampling and water level monitoring locations. Figure 47 also includes the cross section alignment.

D. SITE HYDROGEOLOGY

As determined in the RI/FS, the impacted groundwater is within the Unit 1. Unit 1 is a medium to fine-grained sand with clayey silt lenses. Underlying the Unit 1 is the Unit 2 (a low permeability aquitard) consisting of a gray till. There is no apparent impact of Unit 1 VOC concentrations on the Unit 3 groundwater at the Site. Unit 3 monitoring in the vicinity of Building 103 is conducted as part of the TCAAP annual monitoring program.

Perched groundwater flow in the Unit 1 at Building 103 is generally west toward Rice Creek.

E. PERFORMANCE

The groundwater collection system continues to provide excellent capture of the Unit 1 groundwater, upgradient of the trench and beneath Building 103, as designed. Water level data is presented in Table 25. Well 01U111 monitors the suspected source area. The flow from 01U111 is directly toward the drain tile groundwater collection trench as indicated by the groundwater contours. Figures 49 through 52 present plan views of the groundwater contours from the three quarters of the groundwater level sampling. Monitoring wells downgradient of the extraction trench show consistently higher water levels than those near and upgradient of the trench. This demonstrates that the horizontal hydraulic gradient has been reversed toward the extraction trench due to system operations. The monitoring network provides sufficient coverage for detailed capture monitoring.

Vertical capture was also effective as illustrated in Figures 53 through 56. As seen in the figures, groundwater from both up-gradient and down-gradient of the trench is captured and

collected. Of particular note is the formation of an upward gradient at nest BP3. BP3 is the closest bundle piezometer to the collection trench. BP3 monitors and illustrates the vertical effectiveness of the extraction system. The upward gradient beneath the trench indicates that groundwater does not migrate below the trench. BP3 also exhibits water levels consistently lower than all four monitoring points at bundle piezometer BP4. This demonstrates the complete reversal of the horizontal gradient toward the extraction trench. The monitoring coverage provided by the bundle piezometers demonstrates complete vertical and horizontal hydraulic capture.

Figure 57 presents the trichloroethene data from the March 1991 annual sampling event. Comparison of Figure 57 to the groundwater contour maps indicates that the VOC plume is hydraulically contained by the treatment system. Table 26 presents the monitoring well sampling data. The plume was originally defined based on data from all the monitoring wells. The current monitoring well network is used to confirm the plume contours and measure progress of remediation. Thus, the monitoring well network is limited to key wells. For this reason, concentration contours were not drawn on this figure.

Influent and effluent analytical results are presented in Table 27. Historically, the higher concentrations in the influent have corresponded to higher pumping rates. Table 28 presents the effluent priority pollutant scan results.

In October and November 1990, elevated VOC concentrations were observed in the system effluent.

Previously, on June 8, 1990, Alliant requested the MPCA to allow them to perform periodic operational checks on the influent and/or effluent VOC concentrations, using the Alliant Techsystems Inc. Laboratory. The MPCA approved this request in their letter dated July 6, 1990.

The Building 103 groundwater treatment system was sampled by Alliant Techsystems personnel on October 3, November 13 and December 5, 1990 to determine influent and effluent trichloroethene concentrations.

The samples were analyzed on a Hewlett Packard 5880 gas chromatograph utilizing a purge and trap, and an electron capture detector. The minimum detection limit is 1 $\mu\text{g/l}$.

The results, in $\mu\text{g/l}$ were as follows:

	<u>Influent</u>	<u>Effluent</u>
10/03/90	137	14
11/13/90	144	ND
12/05/90	137	ND

As seen from the above October 3, 1990 analytical results, the operational check for trichloroethene indicated a removal efficiency reduction. Based on this data, the treatment system was shut-down on October 3 to investigate this situation. It was found the tower packing contained a building up of iron oxide precipitate. The tower packing was removed and replaced with clean packing, whereupon the treatment system reinitiated operation on October 5, 1990.

The reduction in VOC removal efficiency was particularly surprising since the tower packing had been changed approximately one month previously. However, due to the October 3, operational check for trichloroethene, the problem was identified and corrected before receipt of the commercial laboratory analysis on October 30, 1990.

Since the VOC removal efficiencies declined over a one month period in September the tower packing was again changed on October 31, 1990 to ensure the permitted VOC removal efficiencies were obtained. This was confirmed based on the Alliant laboratory's

trichloroethene analysis on November 13 as previously cited. However, the commercial laboratory analytical results for November 1990, which was sampled on November 2 indicated a reduction in the VOC removal efficiencies. This conflicts with November 13, 1990 Alliant laboratory's trichloroethene analysis and the fact the tower packing had been completely replaced less than one week before the commercial laboratory sample had been collected. Therefore, an investigation was conducted to determine why the commercial laboratory results indicated reduction in the VOC removal efficiencies. It was discovered that based on the commercial laboratory quality control data, that analysis could only be qualified as estimated, indicating the analytical results should only be used for qualitative purposes. In addition, it is important to note that the December 1990 commercial laboratory analytical results revealed the treatment system was operating well within the permitted VOC removal efficiencies. Since no operation changes were made in November or December, 1990 to improve the VOC removal efficiencies it appears the November 1990 analytical results are laboratory errors.

The August 1991 effluent sample exhibited trichloroethene concentrations of 12 $\mu\text{g/l}$ and 14 $\mu\text{g/l}$. These values appear to reflect a loss of stripper efficiency between tower packing change outs. The September 1991 effluent samples were again non-detect. Because of the iron fouling which is occurring on the packing, Alliant Techsystems has instituted an internal testing program and a schedule to change packing every two to three months.

F. CONCLUSIONS

The Building 103 groundwater remediation system is effective in attaining capture of VOC contaminated groundwater in the Unit 1 at Building 103.

Section XII

Evaluation of Site I Interim Remedial Action

Four Unit 1 monitoring wells were sampled at Site I (Building 502) during 1991. These wells are 01U064, 01U639, 01U640 and 01U636. Figure 58 shows these well locations. Samples from 01U636 and 01U640 were analyzed for EPA Method 608 PCBs. All four wells were analyzed for EPA Method 601 VOCs. Table 29 presents the results of these analyses.

The VOCs present at the well are consistent with past data which identified VOCs in the Unit 1 at Site I. The Unit 1 aquifer at Site I is discontinuous and does not flow off site.

No PCBs were detected in groundwater. PCB contaminated soils east of Building 502 were excavated in 1986. These soils are currently stored in a storage building built as part of the PCB IRA at Building 502.

PCBs are monitored in groundwater as part of the long term monitoring of the PCB removal activities. The lack of PCBs over the last five years suggests that residual PCBs which remain in the excavated area are immobile and not a threat to the Unit 1 groundwater.

It is concluded that the PCBs potentially present in the Site I soils have not entered the Unit 1 groundwater.

Section XIII Conclusions

Based upon the results of monitoring performed at TCAAP, the following conclusions are offered:

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1. Groundwater in upper Unit 3, lower Unit 3, and upper Unit 4 generally flows to the southwest both beneath TCAAP and off-post. Local variations are evident, particularly in areas affected by pumping wells. Off-post, both the New Brighton and St. Anthony municipal well fields appear to influence groundwater flow directions, especially in upper Unit 4.
2. As expected, VOCs remain undetected at background monitoring locations near the eastern property boundary of TCAAP.
3. Monitoring at Sites B, C, E, F, H, J, 129-3, 129-5, and 129-15 indicates that these sites are less significant sources for groundwater contamination.
4. As noted last year, Sites D, G, and I appear to represent the most significant sources of VOC contamination at TCAAP. The plumes from Sites D and G merge on-post and continue off-post as a single plume. On-post there is clear separation of this plume and the plume emanating from Site I. Concentrations for VOCs are generally lower in the Site I plume than in the plume from Sites D and G.

5. Interim Remedial Actions at Sites D, G, and I are effectively reducing the source areas, thereby minimizing additional impacts to groundwater. The effectiveness is demonstrated by decreasing concentrations in monitoring wells at and immediately downgradient of Sites D, G, and I.
6. Based upon new cross sections prepared for this report, the off-post extent of contamination in Unit 3 has been expanded. Contamination in upper Unit 3 is interpreted to extend near the southwest corner of Long Lake, while contamination in lower Unit 3 is interpreted to project beyond Pike Lake and Interstate 694, where Unit 3 pinches out. The expanded areal extent of contamination in Unit 3 near Long Lake and Pike Lake is a function of a new interpretation, and does not imply that sudden migration of the plume has occurred.
7. Increasing concentrations at wells 03U811 and 03U822 (from not detected to 1-10 $\mu\text{g}/\text{l}$) indicates that the plume is gradually increasing in extent along the western edge.
8. While it is possible that VOC contamination has migrated from TCAAP beyond County Road C to the south, the data and cross section A-A' indicate the possibility that a separate source is contributing to the higher VOC concentrations reported at 200812 (Gross Golf Course), 234546 (Honeywell), and 233221 (Reuben Meats). The off-post isoconcentration maps indicate that the 100- $\mu\text{g}/\text{l}$ contours for trichloroethene and 10- $\mu\text{g}/\text{l}$ contours for 1,1,1-trichloroethane are separated by approximately 2 miles.
9. Surface water monitoring in FY 91 indicated sporadic exceedances of various surface water criteria, but no consistent detections were apparent.
10. Based upon data from five new Site A wells, it appears that there are two source areas, with potentially a third, contributing to groundwater contamination at Site A. Two plumes are evident in the vicinity of wells 01U102 and 01U108, but the plumes merge together downgradient near the TCAAP property boundary.

11. The existing recovery well near 01U108 at Site A appears to be effectively capturing VOC contamination in the immediate vicinity of the well, but the capture zone does not extend to the TCAAP boundary or beyond. Hence, contamination which was already beyond the capture zone when the IRA was implemented will continue to move downgradient. Furthermore, the existing recovery well does not appear to be decreasing VOC concentrations in the area of 01U102.

CRA

1. The TGRS develops a continuous zone of capture that is approximately 5,000 feet wide at the TCAAP boundary. The zone of capture widens to over 7,000 feet upgradient of the boundary. Data from nested wells at three levels within the aquifer demonstrate that this extent of capture is also vertically continuous. This zone of capture was demonstrated at an average system pumping rate of approximately 2,700 gpm.
2. Hydraulic capture in the Unit 3 extends beyond the 5 $\mu\text{g/l}$ trichloroethene contour at the TCAAP boundary. This meets the VOC capture criteria in the EPA ROD.
3. Hydraulic capture in the Unit 4 extends beyond the 5 $\mu\text{g/l}$ trichloroethene contour at the TCAAP boundary. This meets the VOC capture criteria in the EPA ROD.
4. The TGRS extracted and treated 26,760 pounds of VOCs from October 1990 through September 1991.
5. The VOC plumes showed little variation in configuration since 1988. This is consistent with previous conclusions that significant plume variations occur slowly at TCAAP. Along the southern boundary of TCAAP well 03U003 decreased in trichloroethene concentration from 1,400 $\mu\text{g/l}$ to 30.3 $\mu\text{g/l}$ during 1991.

6. All effluent metals sampling results were at or below the Contaminant Specific Requirements.
7. Effluent VOC concentrations were below Contaminant Specific Requirements for all sampling events.
8. The effluent priority pollutant scan indicated no parameters above the Contaminant Specific Requirements specified in the ROD.

Section XIV

Fiscal Year 1993 Annual Monitoring Plan

A. FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

The Fiscal Year 1993 Groundwater Quality Monitoring Plan is included as Table 30. As compared with the approved Fiscal Year 1992 Groundwater Quality Monitoring Plan, the principal change is omission of the December and June water quality monitoring events. One comprehensive round of sampling will be performed in March as in past years to enable preparation of comprehensive contour maps. To provide additional confidence at more critical locations, select wells will also be sampled in September. Historical data for this project indicates that groundwater quality changes occur over years, not months, and henceforth, sampling three or four times per year is not justified. All monthly and quarterly influent and effluent monitoring for Site A, Site K, and TGRS will remain unchanged (Table 31). The following specific changes have been made for FY 93:

Notes: ● = Review of historical data showed that parameter(s) and/or frequency for sampling was not warranted.

Site	Well I.D.	Quarter(s)	Sampling Change	Rationale for Change
A	01U039	38	Dropped Category 7	●
	01U102	40	Dropped Category 7	●
	01U108	38-40	Dropped Category 7	●
	01U115	38-40	Dropped Category 7	●

Site	Well I.D.	Quarter(s)	Sampling Change	Rationale for Change
A (cont.)	01U116	38	Dropped Category 7	●
	01U117	39-40	Added Category 1	Increased Category 1 frequency of downgradient well
	01U120	38	Dropped Category 7	●
	01U125	38	Dropped Category 7	●
	01U126	38	Dropped Category 7	●
	01U127	38	Dropped Category 7	●
	01U135	38	Dropped Category 7	●
	01U136	38	Dropped Category 7	●
	01U137	38	Added Category 1	Well added to Sampling Plan
	01U138	38	Added Category 1	Well added to Sampling Plan
	01U139	38 40	Added Category 1 and 7 Added Category 1	Well added to Sampling Plan
	01U140	38 40	Added Category 1 and 7 Added Category 1	Well added to Sampling Plan
	01U141	38	Added Category 1	Well added to Sampling Plan
	01U350	38-40	Dropped Category 7	●
	01U901	38 40	Dropped Category 7 Added Category 1	● Increased Category 1 frequency of downgradient well
	01U902	38 39-40	Dropped Category 2 Dropped Category 7	● ●
B	03U082	38	Dropped Category 1	Will do again in FY 94 as a check
E	03U023	38	Dropped Category 7	●
	03U088	38	Dropped Category 1	●; Nearby well 03U089 will continue to be sampled
F	03U019	38	Dropped Category 7	●
	03U026	38	Dropped Category 7	●

Site	Well I.D.	Quarter(s)	Sampling Change	Rationale for Change
F (cont.)	03U092	38 39-40	Dropped Category 7 Dropped Category 1 and 7	●;Reduced Category 1 frequency as Site F is not a major source area
	03U112	38	Dropped Category 7	●
	03U113	38	Dropped Category 7	●
	03U114	38 39-40	Dropped Category 7 Dropped Category 1 and 7	●;Reduced Category 1 frequency as Site F is not a major source area
	03U121	38	Dropped Category 7	●
	03L113	38	Dropped Category 7	●
H	01U060	38	Dropped Category 1 and 7	●;Nearby well 01U098 will continue to be sampled
	01U098	38	Dropped Category 7	●
	03U099	38	Dropped Category 7	●
K	01U128	38	Added Category 1	To check west of Site K
129-15	03U016	38	Dropped Category 7	●
	03U032	38 39-40	Dropped Category 7 Dropped Category 1 and 7	● ●;Reduced Category 1 frequency as Site F is not a major source area
	03U090	38	Dropped Category 7	●
	03U124	38 39-40	Dropped Category 7 Dropped Category 1 and 7	● ●;Reduced Category 1 frequency as Site F is not a major source area
	03L091	38	Dropped Category 7	●
Gravel Pit	03L523	38	Dropped Category 1	Well to be abandoned
Bedrock Valley	03L137	38	Dropped Category 1	Have adequate control via other wells

Site	Well I.D.	Quarter(s)	Sampling Change	Rationale for Change
Misc. Wells	03U007	38	Dropped Category 1	Will do again in FY 94
	03U009	38	Dropped Category 1	Will do again in FY 94
	03L007	38	Dropped Category 1	Will do again in FY 94
	04U007	38	Dropped Category 1	Will do again in FY 94
	04U510	38	Dropped Category 1	Will do again in FY 94
Off-Post (Upper Hillside Formation)	03U822	38	Dropped Category 7	•
	409595	38	Dropped from Plan	Well has been Abandoned
	409598	39	Dropped from Plan	Well has been Abandoned
Off-Post (Middle Hillside Formation)	03M843	38 39-40	Dropped Category 7 Dropped Category 1 and 7	• •;Reduced Category 1 frequency as adequate control is provided with other wells
	03M848	38 39-40	Dropped Category 7 Dropped Category 1 and 7	• •;Reduced Category 1 frequency as adequate control is provided with other wells
Off-Post (Lower Hillside Formation)	03L861	38	Dropped Category 7	•
	409546	38	Dropped Categorie 7	•
Off-Post (Prairie du Chien Formation)	04U821	39-40	Dropped Category 1	•
	04U854	38	Added Category 1	To help define extent of southern plume
	04U847	39	Dropped Category 1	•
	04U871	38	Dropped Categorie 7	•
	04U872	38	Dropped Category 7	•
	04U875	38	Dropped Category 7	•

Site	Well I.D.	Quarter(s)	Sampling Change	Rationale for Change
Off-Post (Prairie du Chien Formation) (continued)	04U879	38	Dropped Category 7	•
	04U881	38	Dropped Category 7	•
	048883	38	Dropped Category 7	•
	0812	38-40	Dropped Category 7	•
		39	Dropped Category 1	•
	206787	38	Dropped Category 7	•
	409548	38	Dropped Category 7	•
	409549	39-40	Dropped Category 1	
	409555	38	Added Category 1	To help define edge of plume

B. FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

The Fiscal Year 1993 Groundwater Level Monitoring Plan is included as Table 32. As compared with the approved Fiscal Year 1992 Groundwater Level Monitoring Plan, the principal change is omission of the December and June water level monitoring events. However, the level of on-post monitoring has been increased for the September event to provide two comprehensive events (March and September). Historical data for this project indicates that seasonal groundwater level changes are not significant, and henceforth, monitoring three or four times per year is not justified. The FY 93 plan provides an increased overall level of hydraulic interpretation of the TCAAP groundwater flow patterns.

C. FISCAL YEAR 1993 SURFACE WATER MONITORING PLAN

The surface water monitoring plan actually consists of the National Pollutant Discharge Elimination System (NPDES) sampling. The surface water sampling locations are shown in Figure 59 while the NPDES Monitoring Plan is included as Table 33.

D. FISCAL YEAR 1993 REPORTING

1. Quarterly Reports

After completion of both the March and September 1993 monitoring events, a quarterly report will be prepared for submittal to the MPCA and USEPA. The quarterly reports will be submitted to the Project Managers at least 15 days prior to the next quarterly sampling. The quarterly reports will consist of the following:

- Laboratory analytical reports;
- Laboratory cover letters to data sets;
- Bi-monthly USATHAMA QC reports;
- Army evaluation (completeness check):
- Chain of custodies;
- Field notes; and
- Groundwater level table.

2. Annual Report

By February 15, 1994, an annual report will be submitted to the MPCA and USEPA Project Managers which documents the results of monitoring during FY 93. The format for the Fiscal Year 1993 Monitoring Report will be the same as this report in regard to discussion topics, tables, figures, appendices, and plan sheets. In addition, the report will include

Minnesota Department of Natural Resources pumping records for high capacity wells near TCAAP, especially the New Brighton and St. Anthony municipal wells. This data will be included as an appendix for reference purposes, but no discussion will necessarily be presented.

Section XV

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TABLES

Table 1

TCAAP Groundwater Elevation Data

Notes:

- (1) TOS = Top of Surface which represents the ground surface elevation in feet above mean sea level (MSL). The TOS elevations were retrieved from the USATHAMA IRDMS.
- (2) Qtr = Quarter. Under this heading, F = FCC and A = Alliant Techsystems, Inc.

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01L811	908.0	14-Dec-87	16 F	894.8	01L823	880.4	30-Aug-88	19 F	871.4
01L811	908.0	27-Jan-88	17 F	894.2	01L823	880.4	22-Nov-88	20 F	871.4
01L811	908.0	30-Aug-88	19 F	893.5	01L823	880.4	03-Nov-89	24 F	871.1
01L811	908.0	22-Nov-88	20 F	893.1	01L823	880.4	03-May-90	26 F	869.9
01L811	908.0	06-Aug-89	23 F	893.7	01L823	880.4	01-Apr-91	30 F	872.4
01L811	908.0	03-Nov-89	24 F	893.2					
01L811	908.0	05-May-90	26 F	893.7	01U003	943.0	14-Dec-87	16 F	933.8
01L811	908.0	01-Apr-91	30 F	893.6	01U003	943.0	26-Jan-88	17 F	933.7
					01U003	943.0	14-Apr-88	18 F	935.9
01L813	817.7	14-Dec-87	16 F	815.4	01U003	943.0	27-Apr-89	22 F	930.2
01L813	817.7	27-Jan-88	17 F	815.1	01U003	943.0	05-Aug-89	23 F	930.8
01L813	817.7	13-Apr-88	18 F	815.7	01U003	943.0	01-Apr-91	30 F	936.1
01L813	817.7	30-Aug-88	19 F	813.6					
01L813	817.7	22-Nov-88	20 F	814.5	01U004	951.0	14-Dec-87	16 F	940.7
01L813	817.7	06-Aug-89	23 F	811.9	01U004	951.0	27-Jan-88	17 F	939.2
01L813	817.7	03-Nov-89	24 F	814.3	01U004	951.0	14-Apr-88	18 F	941.8
01L813	817.7	03-May-90	26 F	814.4	01U004	951.0	30-Aug-88	19 F	940.1
01L813	817.7	01-Apr-91	30 F	816.1	01U004	951.0	22-Nov-88	20 F	940.7
					01U004	951.0	27-Apr-89	22 F	937.9
01L816	900.9	14-Dec-87	16 F	869.8	01U004	951.0	05-Aug-89	23 F	942.2
01L816	900.9	27-Jan-88	17 F	869.8	01U004	951.0	03-Nov-89	24 F	938.7
01L816	900.9	13-Apr-88	18 F	870.0					
01L816	900.9	30-Aug-88	19 F	869.0	01U011	899.9	14-Dec-87	16 F	892.0
01L816	900.9	03-Nov-89	24 F	867.2	01U011	899.9	26-Jan-88	17 F	891.1
01L816	900.9	03-May-90	26 F	869.2	01U011	899.9	13-Apr-88	18 F	892.0
01L816	900.9	01-Apr-91	30 F	867.6	01U011	899.9	30-Aug-88	19 F	890.2
					01U011	899.9	22-Nov-88	20 F	890.1
01L821	877.4	14-Dec-87	16 F	871.7	01U011	899.9	05-Aug-89	23 F	890.5
01L821	877.4	26-Jan-88	17 F	871.4	01U011	899.9	04-Nov-89	24 F	889.7
01L821	877.4	13-Apr-88	18 F	872.0	01U011	899.9	27-Apr-90	26 F	889.4
01L821	877.4	30-Aug-88	19 F	870.3	01U011	899.9	01-Apr-91	30 F	892.7
01L821	877.4	22-Nov-88	20 F	868.4					
01L821	877.4	03-Nov-89	24 F	870.7	01U012	880.3	14-Dec-87	16 F	875.2
01L821	877.4	03-May-90	26 F	870.4	01U012	880.3	27-Jan-88	17 F	875.0
01L821	877.4	01-Apr-91	30 F	872.4	01U012	880.3	13-Apr-88	18 F	875.4
					01U012	880.3	30-Aug-88	19 F	874.5
01L822	875.9	14-Dec-87	16 F	867.9	01U012	880.3	22-Nov-88	20 F	874.8
01L822	875.9	26-Jan-88	17 F	867.5	01U012	880.3	05-Aug-89	23 F	875.0
01L822	875.9	13-Apr-88	18 F	868.2	01U012	880.3	02-Nov-89	24 F	874.6
01L822	875.9	30-Aug-88	19 F	866.5	01U012	880.3	27-Apr-90	26 F	875.6
01L822	875.9	22-Nov-88	20 F	867.7	01U012	880.3	01-Apr-91	30 F	876.7
01L822	875.9	03-Nov-89	24 F	867.0					
01L822	875.9	03-May-90	26 F	865.7	01U022	897.7	14-Dec-87	16 F	894.3
01L822	875.9	01-Apr-91	30 F	868.9	01U022	897.7	27-Jan-88	17 F	893.2
					01U022	897.7	13-Apr-88	18 F	895.2
01L823	880.4	14-Dec-87	16 F	872.4					
01L823	880.4	26-Jan-88	17 F	871.9					
01L823	880.4	13-Apr-88	18 F	872.3					

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U022	897.7	05-Aug-89	23 F	890.8	01U036	901.0	14-Dec-87	16 F	895.0
01U022	897.7	02-Nov-89	24 F	891.0	01U036	901.0	26-Jan-88	17 F	893.9
01U022	897.7	23-Jan-90	25 F	891.1	01U036	901.0	13-Apr-88	18 F	894.0
01U022	897.7	20-Feb-90	25 F	891.0	01U036	901.0	30-Aug-88	19 F	892.8
01U022	897.7	20-Mar-90	25 F	893.6	01U036	901.0	22-Nov-88	20 F	892.3
01U022	897.7	16-Apr-90	26 F	893.9	01U036	901.0	24-Apr-89	22 F	891.3
01U022	897.7	22-May-90	26 F	895.3	01U036	901.0	05-Aug-89	23 F	892.7
01U022	897.7	19-Jun-90	26 F	896.1	01U036	901.0	02-Nov-89	24 F	891.6
01U022	897.7	17-Jul-90	27 F	893.5	01U036	901.0	23-Jan-90	25 F	890.8
01U022	897.7	21-Aug-90	27 F	893.6	01U036	901.0	20-Feb-90	25 F	890.5
01U022	897.7	18-Sep-90	28 F	895.1	01U036	901.0	20-Mar-90	25 F	891.0
01U022	897.7	02-Nov-90	29 F	893.7	01U036	901.0	16-Apr-90	26 F	891.2
01U022	897.7	18-Dec-90	29 F	893.7	01U036	901.0	22-May-90	26 F	892.9
01U022	897.7	19-Feb-91	30 F	890.9	01U036	901.0	19-Jun-90	26 F	895.2
01U022	897.7	19-Mar-91	30 F	895.2	01U036	901.0	17-Jul-90	27 F	894.8
01U022	897.7	16-Apr-91	31 F	896.1	01U036	901.0	21-Aug-90	27 F	894.8
01U022	897.7	18-Jun-91	31 F	893.7	01U036	901.0	18-Sep-90	28 F	895.5
01U022	897.7	18-Jun-91	31 F	893.7	01U036	901.0	02-Nov-90	29 F	894.1
01U022	897.7	19-Aug-91	32 F	893.3	01U036	901.0	18-Dec-90	29 F	894.6
01U033	887.5	14-Dec-87	16 F	885.3	01U036	901.0	19-Feb-91	30 F	893.9
01U033	887.5	26-Jan-88	17 F	885.7	01U036	901.0	01-Apr-91	30 F	892.9
01U033	887.5	13-Apr-88	18 F	885.4	01U036	901.0	16-Apr-91	31 F	895.5
01U033	887.5	30-Aug-88	19 F	883.4	01U036	901.0	18-Jun-91	31 F	897.3
01U033	887.5	22-Nov-88	20 F	884.8	01U036	901.0	18-Jun-91	31 F	897.1
01U033	887.5	05-Aug-89	23 F	884.2	01U036	901.0	19-Aug-91	32 F	896.5
01U033	887.5	02-Nov-89	24 F	884.1	01U037	898.7	14-Dec-87	16 F	892.3
01U033	887.5	27-Apr-90	26 F	885.9	01U037	898.7	26-Jan-88	17 F	891.8
01U033	887.5	01-Apr-91	30 F	886.5	01U037	898.7	30-Aug-88	19 F	890.6
01U034	900.5	14-Dec-87	16 F	896.2	01U037	898.7	22-Nov-88	20 F	890.0
01U034	900.5	26-Jan-88	17 F	894.7	01U037	898.7	24-Apr-89	22 F	888.7
01U034	900.5	30-Aug-88	19 F	894.3	01U037	898.7	05-Aug-89	23 F	890.4
01U034	900.5	22-Nov-88	20 F	894.2	01U037	898.7	02-Nov-89	24 F	889.5
01U034	900.5	05-Aug-89	23 F	894.2	01U037	898.7	23-Jan-90	25 F	888.7
01U034	900.5	02-Nov-89	24 F	893.0	01U037	898.7	20-Feb-90	25 F	888.5
01U034	900.5	27-Apr-90	26 F	893.4	01U037	898.7	20-Mar-90	25 F	889.0
01U034	900.5	01-Apr-91	30 F	896.5	01U037	898.7	16-Apr-90	26 F	889.1
01U035	899.5	14-Dec-87	16 F	895.3	01U037	898.7	22-May-90	26 F	889.9
01U035	899.5	26-Jan-88	17 F	894.1	01U037	898.7	19-Jun-90	26 F	895.0
01U035	899.5	13-Apr-88	18 F	894.5	01U037	898.7	17-Jul-90	27 F	892.1
01U035	899.5	30-Aug-88	19 F	893.3	01U037	898.7	21-Aug-90	27 F	892.1
01U035	899.5	22-Nov-88	20 F	892.8	01U037	898.7	18-Sep-90	28 F	892.9
01U035	899.5	05-Aug-89	23 F	893.1	01U037	898.7	02-Nov-90	29 F	892.0
01U035	899.5	02-Nov-89	24 F	892.1	01U037	898.7	18-Dec-90	29 F	891.6
01U035	899.5	27-Apr-90	26 F	892.5	01U037	898.7	19-Feb-91	30 F	890.9
01U035	899.5	01-Apr-91	30 F	895.0	01U037	898.7	19-Mar-91	30 F	890.9
					01U037	898.7	16-Apr-91	31 F	893.2

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TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U037	898.7	18-Jun-91	31 F	895.2	01U039	897.5	18-Dec-90	29 F	883.6
01U037	898.7	18-Jun-91	31 F	895.2	01U039	897.5	19-Feb-91	30 F	882.9
01U037	898.7	30-Jul-91	32 F	895.0	01U039	897.5	19-Mar-91	30 F	882.7
01U037	898.7	19-Aug-91	32 F	894.1	01U039	897.5	16-Apr-91	31 F	882.9
01U038	900.3	14-Dec-87	16 F	891.7	01U039	897.5	18-Jun-91	31 F	885.9
01U038	900.3	26-Jan-88	17 F	891.3	01U039	897.5	18-Jun-91	31 F	885.8
01U038	900.3	13-Apr-88	18 F	891.6	01U039	897.5	30-Jul-91	32 F	886.1
01U038	900.3	30-Aug-88	19 F	890.0	01U039	897.5	19-Aug-91	32 F	886.1
01U038	900.3	22-Nov-88	20 F	889.3	01U040	892.9	14-Dec-87	16 F	882.9
01U038	900.3	24-Apr-89	22 F	888.2	01U040	892.9	27-Jan-88	17 F	882.1
01U038	900.3	05-Aug-89	23 F	889.7	01U040	892.9	30-Aug-88	19 F	881.2
01U038	900.3	02-Nov-89	24 F	888.8	01U040	892.9	22-Nov-88	20 F	880.5
01U038	900.3	23-Jan-90	25 F	888.2	01U040	892.9	24-Apr-89	22 F	879.1
01U038	900.3	20-Feb-90	25 F	887.9	01U040	892.9	05-Aug-89	23 F	881.7
01U038	900.3	20-Mar-90	25 F	888.5	01U040	892.9	02-Nov-89	24 F	880.7
01U038	900.3	16-Apr-90	26 F	888.4	01U040	892.9	23-Jan-90	25 F	879.9
01U038	900.3	22-May-90	26 F	889.0	01U040	892.9	20-Feb-90	25 F	879.7
01U038	900.3	19-Jun-90	26 F	890.3	01U040	892.9	20-Mar-90	25 F	880.0
01U038	900.3	17-Jul-90	27 F	891.0	01U040	892.9	16-Apr-90	26 F	880.0
01U038	900.3	21-Aug-90	27 F	891.1	01U040	892.9	22-May-90	26 F	881.3
01U038	900.3	18-Sep-90	28 F	891.9	01U040	892.9	19-Jun-90	26 F	882.9
01U038	900.3	02-Nov-90	29 F	891.3	01U040	892.9	17-Jul-90	27 F	883.5
01U038	900.3	18-Dec-90	29 F	891.0	01U040	892.9	21-Aug-90	27 F	883.6
01U038	900.3	19-Feb-91	30 F	890.2	01U040	892.9	18-Sep-90	28 F	884.1
01U038	900.3	19-Mar-91	30 F	890.6	01U040	892.9	02-Nov-90	29 F	883.2
01U038	900.3	16-Apr-91	31 F	892.2	01U040	892.9	18-Dec-90	29 F	865.6
01U038	900.3	18-Jun-91	31 F	894.3	01U040	892.9	19-Feb-91	30 F	881.6
01U038	900.3	18-Jun-91	31 F	894.3	01U040	892.9	19-Mar-91	30 F	881.9
01U038	900.3	30-Jul-91	32 F	894.4	01U040	892.9	16-Apr-91	31 F	883.1
01U038	900.3	19-Aug-91	32 F	893.0	01U040	892.9	18-Jun-91	31 F	886.1
01U039	897.5	14-Dec-87	16 F	884.0	01U040	892.9	18-Jun-91	31 F	886.1
01U039	897.5	30-Aug-88	19 F	882.4	01U040	892.9	30-Jul-91	32 F	885.3
01U039	897.5	22-Nov-88	20 F	881.9	01U040	892.9	19-Aug-91	32 F	886.9
01U039	897.5	24-Apr-89	22 F	879.6	01U041	898.4	14-Dec-87	16 F	891.1
01U039	897.5	05-Aug-89	23 F	882.8	01U041	898.4	27-Jan-88	17 F	890.6
01U039	897.5	02-Nov-89	24 F	882.0	01U041	898.4	13-Apr-88	18 F	891.9
01U039	897.5	23-Jan-90	25 F	881.4	01U041	898.4	30-Aug-88	19 F	888.9
01U039	897.5	20-Feb-90	25 F	881.2	01U041	898.4	22-Nov-88	20 F	888.8
01U039	897.5	20-Mar-90	25 F	881.1	01U041	898.4	24-Apr-89	22 F	889.6
01U039	897.5	16-Apr-90	26 F	881.1	01U041	898.4	05-Aug-89	23 F	889.8
01U039	897.5	22-May-90	26 F	881.4	01U041	898.4	02-Nov-89	24 F	889.1
01U039	897.5	19-Jun-90	26 F	882.2	01U041	898.4	23-Jan-90	25 F	Dry
01U039	897.5	17-Jul-90	27 F	883.2	01U041	898.4	20-Feb-90	25 F	Dry
01U039	897.5	21-Aug-90	27 F	883.2	01U041	898.4	20-Mar-90	25 F	892.0
01U039	897.5	18-Sep-90	28 F	884.4	01U041	898.4	16-Apr-90	26 F	890.7
01U039	897.5	02-Nov-90	29 F	884.0	01U041	898.4	22-May-90	26 F	892.3

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U041	898.4	19-Jun-90	26 F	892.5	01U046	881.9	22-Nov-88	20 F	879.5
01U041	898.4	17-Jul-90	27 F	891.7	01U046	881.9	05-Aug-89	23 F	878.9
01U041	898.4	21-Aug-90	27 F	891.7	01U046	881.9	02-Nov-89	24 F	879.2
01U041	898.4	18-Sep-90	28 F	892.2	01U046	881.9	27-Apr-90	26 F	879.8
01U041	898.4	02-Nov-90	29 F	891.2	01U046	881.9	01-Apr-91	30 F	880.2
01U041	898.4	18-Dec-90	29 F	888.2					
01U041	898.4	19-Feb-91	30 F	890.5	01U047	880.0	14-Dec-87	16 F	875.3
01U041	898.4	19-Mar-91	30 F	895.1	01U047	880.0	27-Jan-88	17 F	875.0
01U041	898.4	16-Apr-91	31 F	893.3	01U047	880.0	13-Apr-88	18 F	875.9
01U041	898.4	18-Jun-91	31 F	893.5	01U047	880.0	30-Aug-88	19 F	874.3
01U041	898.4	18-Jun-91	31 F	893.5	01U047	880.0	22-Nov-88	20 F	874.8
01U041	898.4	30-Jul-91	32 F	894.6	01U047	880.0	27-Apr-89	22 F	870.0
01U041	898.4	19-Aug-91	32 F	890.9	01U047	880.0	05-Aug-89	23 F	874.7
					01U047	880.0	02-Nov-89	24 F	874.4
01U043	890.8	14-Dec-87	16 F	882.8	01U047	880.0	06-Mar-91	30 A	875.3
01U043	890.8	27-Jan-88	17 F	882.2	01U047	880.0	04-Jun-91	31 A	877.7
01U043	890.8	14-Apr-88	18 F	884.1	01U047	880.0	03-Sep-91	32 A	876.2
01U043	890.8	30-Aug-88	19 F	881.0					
01U043	890.8	22-Nov-88	20 F	881.6	01U048	885.0	14-Dec-87	16 F	875.2
01U043	890.8	05-Aug-89	23 F	882.3	01U048	885.0	27-Jan-88	17 F	874.9
01U043	890.8	02-Nov-89	24 F	881.3	01U048	885.0	13-Apr-88	18 F	877.5
01U043	890.8	27-Apr-90	26 F	883.0	01U048	885.0	30-Aug-88	19 F	874.7
01U043	890.8	01-Apr-91	30 F	886.1	01U048	885.0	22-Nov-88	20 F	874.9
					01U048	885.0	27-Apr-89	22 F	873.3
01U044	892.4	14-Dec-87	16 F	878.4	01U048	885.0	05-Aug-89	23 F	875.3
01U044	892.4	27-Jan-88	17 F	878.0	01U048	885.0	02-Nov-89	24 F	874.8
01U044	892.4	13-Apr-88	18 F	878.2	01U048	885.0	06-Mar-91	30 A	875.0
01U044	892.4	30-Aug-88	19 F	880.7	01U048	885.0	04-Jun-91	31 A	877.8
01U044	892.4	22-Nov-88	20 F	877.3	01U048	885.0	03-Sep-91	32 A	876.3
01U044	892.4	05-Aug-89	23 F	877.5					
01U044	892.4	02-Nov-89	24 F	877.6	01U050	893.0	14-Dec-87	16 F	885.6
01U044	892.4	27-Apr-90	26 F	877.1	01U050	893.0	27-Jan-88	17 F	885.3
01U044	892.4	01-Apr-91	30 F	878.4	01U050	893.0	13-Apr-88	18 F	887.1
					01U050	893.0	30-Aug-88	19 F	885.8
01U045	886.5	14-Dec-87	16 F	880.3	01U050	893.0	22-Nov-88	20 F	887.0
01U045	886.5	26-Jan-88	17 F	880.3	01U050	893.0	05-Aug-89	23 F	888.9
01U045	886.5	13-Apr-88	18 F	881.3	01U050	893.0	02-Nov-89	24 F	886.5
01U045	886.5	30-Aug-88	19 F	879.4	01U050	893.0	27-Apr-90	26 F	886.2
01U045	886.5	22-Nov-88	20 F	880.0	01U050	893.0	01-Apr-91	30 F	889.0
01U045	886.5	05-Aug-89	23 F	879.5					
01U045	886.5	02-Nov-89	24 F	879.4	01U051	901.4	14-Dec-87	16 F	889.2
01U045	886.5	27-Apr-90	26 F	881.8	01U051	901.4	27-Jan-88	17 F	888.8
01U045	886.5	13-Mar-91	30 F	881.9	01U051	901.4	13-Apr-88	18 F	889.0
					01U051	901.4	30-Aug-88	19 F	888.9
01U046	881.9	14-Dec-87	16 F	879.6	01U051	901.4	22-Nov-88	20 F	889.2
01U046	881.9	26-Jan-88	17 F	879.6	01U051	901.4	05-Aug-89	23 F	889.6
01U046	881.9	13-Apr-88	18 F	879.7	01U051	901.4	02-Nov-89	24 F	888.7
01U046	881.9	30-Aug-88	19 F	878.9	01U051	901.4	27-Apr-90	26 F	888.0
					01U051	901.4	01-Apr-91	30 F	889.4

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TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U052	887.0	14-Dec-87	16 F	876.2	01U062	912.0	09-May-89	22 F	904.7
01U052	887.0	27-Jan-88	17 F	876.0	01U062	912.0	06-Aug-89	23 F	906.8
01U052	887.0	13-Apr-88	18 F	877.1	01U062	912.0	02-Nov-89	24 F	905.1
01U052	887.0	30-Aug-88	19 F	875.7	01U062	912.0	27-Apr-90	26 F	906.5
01U052	887.0	22-Nov-88	20 F	876.0	01U062	912.0	01-Apr-91	30 F	906.9
01U052	887.0	27-Apr-89	22 F	874.6					
01U052	887.0	03-Aug-89	23 F	876.8	01U063	892.8	14-Dec-87	16 F	881.9
01U052	887.0	02-Nov-89	24 F	875.8	01U063	892.8	27-Jan-88	17 F	880.7
01U052	887.0	06-Mar-91	30 A	876.0	01U063	892.8	13-Apr-88	18 F	882.5
01U052	887.0	04-Jun-91	31 A	878.9	01U063	892.8	30-Aug-88	19 F	879.9
01U052	887.0	03-Sep-91	32 A	877.8	01U063	892.8	22-Nov-88	20 F	879.3
					01U063	892.8	06-Aug-89	23 F	880.7
01U053	915.0	14-Dec-87	16 F	906.9	01U063	892.8	02-Nov-89	24 F	879.6
01U053	915.0	27-Jan-88	17 F	905.8	01U063	892.8	27-Apr-90	26 F	880.0
01U053	915.0	13-Apr-88	18 F	907.0	01U063	892.8	01-Apr-91	30 F	882.6
01U053	915.0	30-Aug-88	19 F	906.6					
01U053	915.0	22-Nov-88	20 F	906.9	01U064	961.0	14-Dec-87	16 F	946.8
01U053	915.0	04-Aug-89	23 F	906.9	01U064	961.0	27-Jan-88	17 F	946.6
01U053	915.0	02-Nov-89	24 F	906.4	01U064	961.0	14-Apr-88	18 F	946.6
01U053	915.0	27-Apr-90	26 F	907.5	01U064	961.0	30-Aug-88	19 F	946.4
01U053	915.0	01-Apr-91	30 F	909.8	01U064	961.0	22-Nov-88	20 F	946.1
					01U064	961.0	12-May-89	22 F	943.9
01U054	943.0	14-Dec-87	16 F	934.2	01U064	961.0	06-Aug-89	23 F	945.9
01U054	943.0	27-Jan-88	17 F	932.1	01U064	961.0	02-Nov-89	24 F	945.2
01U054	943.0	13-Apr-88	18 F	935.2	01U064	961.0	22-Mar-90	30 A	943.2
01U054	943.0	30-Aug-88	19 F	932.6	01U064	961.0	11-Sep-90	32 A	944.1
01U054	943.0	22-Nov-88	20 F	934.6					
01U054	943.0	27-Apr-89	22 F	932.1	01U065	884.0	14-Dec-87	16 F	874.9
01U054	943.0	06-Aug-89	23 F	934.4	01U065	884.0	27-Jan-88	17 F	874.6
01U054	943.0	02-Nov-89	24 F	931.3	01U065	884.0	14-Apr-88	18 F	875.2
01U054	943.0	27-Apr-90	26 F	935.6	01U065	884.0	30-Aug-88	19 F	874.4
01U054	943.0	01-Apr-91	30 F	936.6	01U065	884.0	22-Nov-88	20 F	874.4
					01U065	884.0	28-Apr-89	22 F	873.4
01U060	949.2	14-Dec-87	16 F	935.5	01U065	884.0	06-Aug-89	23 F	875.2
01U060	949.2	27-Jan-88	17 F	935.4	01U065	884.0	02-Nov-89	24 F	874.4
01U060	949.2	13-Apr-88	18 F	935.8	01U065	884.0	06-Mar-91	30 A	874.9
01U060	949.2	30-Aug-88	19 F	934.7	01U065	884.0	04-Jun-91	31 A	876.7
01U060	949.2	22-Nov-88	20 F	934.7	01U065	884.0	03-Sep-91	32 A	875.9
01U060	949.2	06-Aug-89	23 F	935.6					
01U060	949.2	02-Nov-89	24 F	934.8	01U067	897.3	14-Dec-87	16 F	892.8
01U060	949.2	26-Apr-90	26 F	935.6	01U067	897.3	28-Jan-88	17 F	891.9
01U060	949.2	25-Mar-91	30 F	935.4	01U067	897.3	13-Apr-88	18 F	893.6
					01U067	897.3	30-Aug-88	19 F	890.2
01U062	912.0	14-Dec-87	16 F	906.3	01U067	897.3	22-Nov-88	20 F	889.5
01U062	912.0	27-Jan-88	17 F	905.3	01U067	897.3	24-Apr-89	22 F	889.4
01U062	912.0	13-Apr-88	18 F	906.5	01U067	897.3	05-Aug-89	23 F	890.5
01U062	912.0	30-Aug-88	19 F	904.9	01U067	897.3	02-Nov-89	24 F	889.5
01U062	912.0	22-Nov-88	20 F	906.0	01U067	897.3	23-Jan-90	25 F	888.9

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U067	897.3	20-Feb-90	25 F	888.7	01U100	905.7	14-Dec-87	16 F	899.1
01U067	897.3	20-Mar-90	25 F	891.1	01U100	905.7	27-Jan-88	17 F	898.1
01U067	897.3	16-Apr-90	26 F	890.8	01U100	905.7	13-Apr-88	18 F	901.1
01U067	897.3	22-May-90	26 F	891.8	01U100	905.7	27-Apr-90	26 F	899.4
01U067	897.3	19-Jun-90	26 F	892.4	01U100	905.7	01-Apr-91	30 F	903.1
01U067	897.3	17-Jul-90	27 F	891.6					
01U067	897.3	21-Aug-90	27 F	891.7	01U101	907.2	14-Dec-87	16 F	898.0
01U067	897.3	18-Sep-90	28 F	892.1	01U101	907.2	27-Jan-88	17 F	897.4
01U067	897.3	02-Nov-90	29 F	891.5	01U101	907.2	13-Apr-88	18 F	899.1
01U067	897.3	18-Dec-90	29 F	891.4	01U101	907.2	30-Aug-88	19 F	893.7
01U067	897.3	19-Feb-91	30 F	890.8	01U101	907.2	22-Nov-88	20 F	893.5
01U067	897.3	19-Mar-91	30 F	892.1	01U101	907.2	24-Apr-89	22 F	895.0
01U067	897.3	16-Apr-91	31 F	895.8	01U101	907.2	05-Aug-89	23 F	894.2
01U067	897.3	18-Jun-91	31 F	893.7	01U101	907.2	02-Nov-89	24 F	892.5
01U067	897.3	18-Jun-91	31 F	893.7	01U101	907.2	23-Jan-90	25 F	891.8
01U067	897.3	30-Jul-91	32 F	896.1	01U101	907.2	20-Feb-90	25 F	891.4
01U067	897.3	19-Aug-91	32 F	893.0	01U101	907.2	20-Mar-90	25 F	891.6
					01U101	907.2	16-Apr-90	26 F	892.5
01U072	908.7	14-Dec-87	16 F	902.3	01U101	907.2	26-Apr-90	26 F	893.7
01U072	908.7	27-Jan-88	17 F	900.7	01U101	907.2	22-May-90	26 F	896.5
01U072	908.7	13-Apr-88	18 F	904.2	01U101	907.2	19-Jun-90	26 F	900.4
01U072	908.7	30-Aug-88	19 F	897.5	01U101	907.2	17-Jul-90	27 F	898.1
01U072	908.7	22-Nov-88	20 F	897.8	01U101	907.2	21-Aug-90	26 F	898.2
01U072	908.7	05-Aug-89	23 F	899.1	01U101	907.2	18-Sep-90	28 F	900.0
01U072	908.7	02-Nov-89	24 F	896.0	01U101	907.2	02-Nov-90	29 F	897.5
01U072	908.7	03-May-90	26 F	896.5	01U101	907.2	18-Dec-90	29 F	897.3
01U072	908.7	01-Apr-91	30 F	901.5	01U101	907.2	19-Feb-91	30 F	896.9
					01U101	907.2	19-Mar-91	30 F	898.2
01U085	888.7	14-Dec-87	16 F	882.4	01U101	907.2	16-Apr-91	31 F	901.5
01U085	888.7	26-Jan-88	17 F	882.9	01U101	907.2	18-Jun-91	31 F	899.8
01U085	888.7	13-Apr-88	18 F	883.4	01U101	907.2	18-Jun-91	31 F	899.8
01U085	888.7	30-Aug-88	19 F	880.2	01U101	907.2	19-Aug-91	32 F	896.0
01U085	888.7	22-Nov-88	20 F	880.6					
01U085	888.7	05-Aug-89	23 F	880.7	01U102	905.5	14-Dec-87	16 F	890.3
01U085	888.7	02-Nov-89	24 F	879.7	01U102	905.5	26-Jan-88	17 F	889.8
01U085	888.7	18-Apr-90	26 F	881.6	01U102	905.5	13-Apr-88	18 F	888.9
01U085	888.7	13-Mar-91	30 F	882.8	01U102	905.5	30-Aug-88	19 F	888.5
					01U102	905.5	22-Nov-88	20 F	887.7
01U098	955.0	14-Dec-87	16 F	937.1	01U102	905.5	24-Apr-89	22 F	885.2
01U098	955.0	26-Jan-88	17 F	936.2	01U102	905.5	05-Aug-89	23 F	888.2
01U098	955.0	13-Apr-88	18 F	941.7	01U102	905.5	02-Nov-89	24 F	887.4
01U098	955.0	30-Aug-88	19 F	935.5	01U102	905.5	23-Jan-90	25 F	886.7
01U098	955.0	22-Nov-88	20 F	933.5	01U102	905.5	20-Feb-90	25 F	886.5
01U098	955.0	05-Aug-89	23 F	938.9	01U102	905.5	20-Mar-90	25 F	886.6
01U098	955.0	02-Nov-89	24 F	934.5	01U102	905.5	16-Apr-90	26 F	886.5
01U098	955.0	26-Apr-90	26 F	941.7	01U102	905.5	22-May-90	26 F	886.6
01U098	955.0	25-Mar-91	30 F	942.0	01U102	905.5	19-Jun-90	26 F	887.7
					01U102	905.5	17-Jul-90	27 F	888.9

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U102	905.5	21-Aug-90	27 F	889.0	01U104	899.6	02-Nov-89	24 F	889.5
01U102	905.5	18-Sep-90	28 F	890.6	01U104	899.6	23-Jan-90	25 F	889.0
01U102	905.5	02-Nov-90	29 F	889.8	01U104	899.6	20-Feb-90	25 F	887.4
01U102	905.5	18-Dec-90	29 F	889.4	01U104	899.6	20-Mar-90	25 F	889.4
01U102	905.5	19-Feb-91	30 F	888.6	01U104	899.6	16-Apr-90	26 F	891.4
01U102	905.5	19-Mar-91	30 F	888.6	01U104	899.6	22-May-90	26 F	890.0
01U102	905.5	16-Apr-91	31 F	889.1	01U104	899.6	19-Jun-90	26 F	891.3
01U102	905.5	05-Jun-91	31 F	892.9	01U104	899.6	17-Jul-90	27 F	891.7
01U102	905.5	18-Jun-91	31 F	893.2	01U104	899.6	21-Aug-90	27 F	891.8
01U102	905.5	18-Jun-91	31 F	893.3	01U104	899.6	18-Sep-90	28 F	892.6
01U102	905.5	30-Jul-91	32 F	892.5	01U104	899.6	02-Nov-90	29 F	892.0
01U102	905.5	19-Aug-91	32 F	892.4	01U104	899.6	18-Dec-90	29 F	891.6
01U102	905.5	03-Sep-91	32 F	892.1	01U104	899.6	19-Feb-91	30 F	890.9
					01U104	899.6	19-Mar-91	30 F	891.5
01U103	904.5	14-Dec-87	16 F	890.8	01U104	899.6	16-Apr-91	31 F	893.7
01U103	904.5	26-Jan-88	17 F	890.2	01U104	899.6	18-Jun-91	31 F	895.0
01U103	904.5	13-Apr-88	18 F	890.1	01U104	899.6	18-Jun-91	31 F	895.1
01U103	904.5	30-Aug-88	19 F	889.1	01U104	899.6	30-Jul-91	32 F	895.8
01U103	904.5	22-Nov-88	20 F	887.6	01U104	899.6	19-Aug-91	32 F	893.6
01U103	904.5	24-Apr-89	22 F	885.6					
01U103	904.5	05-Aug-89	23 F	888.2	01U105	901.9	14-Dec-87	16 F	894.3
01U103	904.5	02-Nov-89	24 F	887.4	01U105	901.9	26-Jan-88	17 F	893.7
01U103	904.5	23-Jan-90	25 F	886.9	01U105	901.9	13-Apr-88	18 F	893.7
01U103	904.5	20-Feb-90	25 F	886.7	01U105	901.9	30-Aug-88	19 F	892.1
01U103	904.5	20-Mar-90	25 F	887.1	01U105	901.9	22-Nov-88	20 F	891.6
01U103	904.5	16-Apr-90	26 F	886.9	01U105	901.9	24-Apr-89	22 F	889.7
01U103	904.5	22-May-90	26 F	887.2	01U105	901.9	05-Aug-89	23 F	892.0
01U103	904.5	19-Jun-90	26 F	888.5	01U105	901.9	02-Nov-89	24 F	891.1
01U103	904.5	17-Jul-90	27 F	889.7	01U105	901.9	23-Jan-90	25 F	890.5
01U103	904.5	21-Aug-90	27 F	889.7	01U105	901.9	20-Feb-90	25 F	891.6
01U103	904.5	18-Sep-90	28 F	890.8	01U105	901.9	20-Mar-90	25 F	890.8
01U103	904.5	02-Nov-90	29 F	890.1	01U105	901.9	16-Apr-90	26 F	890.9
01U103	904.5	18-Dec-90	29 F	889.6	01U105	901.9	22-May-90	26 F	891.7
01U103	904.5	19-Feb-91	30 F	888.9	01U105	901.9	19-Jun-90	26 F	893.7
01U103	904.5	19-Mar-91	30 F	889.0	01U105	901.9	17-Jul-90	27 F	893.8
01U103	904.5	16-Apr-91	31 F	890.1	01U105	901.9	21-Aug-90	27 F	893.8
01U103	904.5	18-Jun-91	31 F	893.5	01U105	901.9	18-Sep-90	28 F	894.6
01U103	904.5	18-Jun-91	31 F	893.6	01U105	901.9	02-Nov-90	29 F	893.1
01U103	904.5	30-Jul-91	32 F	892.6	01U105	901.9	18-Dec-90	29 F	891.7
01U103	904.5	19-Aug-91	32 F	892.5	01U105	901.9	19-Feb-91	30 F	891.0
					01U105	901.9	19-Mar-91	30 F	892.9
01U104	899.6	14-Dec-87	16 F	892.8	01U105	901.9	16-Apr-91	31 F	895.0
01U104	899.6	26-Jan-88	17 F	892.2	01U105	901.9	18-Jun-91	31 F	896.2
01U104	899.6	13-Apr-88	18 F	892.9	01U105	901.9	18-Jun-91	31 F	896.9
01U104	899.6	30-Aug-88	19 F	890.5	01U105	901.9	30-Jul-91	32 F	896.9
01U104	899.6	22-Nov-88	20 F	890.0	01U105	901.9	19-Aug-91	32 F	894.9
01U104	899.6	24-Apr-89	22 F	888.5					
01U104	899.6	05-Aug-89	23 F	890.2	01U106	897.1	14-Dec-87	16 F	890.7

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U106	897.1	26-Jan-88	17 F	889.9	01U107	899.8	16-Apr-91	31 F	891.7
01U106	897.1	13-Apr-88	18 F	889.4	01U107	899.8	18-Jun-91	31 F	894.6
01U106	897.1	30-Aug-88	19 F	888.9	01U107	899.8	18-Jun-91	31 F	894.7
01U106	897.1	22-Nov-88	20 F	887.9	01U107	899.8	30-Jul-91	32 F	893.8
01U106	897.1	24-Apr-89	22 F	885.9	01U107	899.8	19-Aug-91	32 F	893.3
01U106	897.1	05-Aug-89	23 F	888.4					
01U106	897.1	02-Nov-89	24 F	887.6	01U108	904.3	14-Dec-87	16 F	890.4
01U106	897.1	23-Jan-90	25 F	886.9	01U108	904.3	26-Jan-88	17 F	890.0
01U106	897.1	20-Feb-90	25 F	886.6	01U108	904.3	13-Apr-88	18 F	889.7
01U106	897.1	20-Mar-90	25 F	888.2	01U108	904.3	30-Aug-88	19 F	888.8
01U106	897.1	16-Apr-90	26 F	887.1	01U108	904.3	22-Nov-88	20 F	885.9
01U106	897.1	22-May-90	26 F	887.2	01U108	904.3	24-Apr-89	22 F	885.4
01U106	897.1	19-Jun-90	26 F	888.4	01U108	904.3	05-Aug-89	23 F	886.7
01U106	897.1	17-Jul-90	27 F	889.5	01U108	904.3	02-Nov-89	24 F	886.0
01U106	897.1	21-Aug-90	27 F	889.5	01U108	904.3	23-Jan-90	25 F	885.9
01U106	897.1	18-Sep-90	28 F	890.5	01U108	904.3	20-Feb-90	25 F	885.7
01U106	897.1	02-Nov-90	29 F	890.2	01U108	904.3	20-Mar-90	25 F	885.8
01U106	897.1	18-Dec-90	29 F	889.8	01U108	904.3	16-Apr-90	26 F	885.8
01U106	897.1	19-Feb-91	30 F	889.3	01U108	904.3	22-May-90	26 F	886.3
01U106	897.1	19-Mar-91	30 F	889.5	01U108	904.3	19-Jun-90	26 F	887.5
01U106	897.1	16-Apr-91	31 F	890.7	01U108	904.3	17-Jul-90	27 F	888.9
01U106	897.1	18-Jun-91	31 F	893.6	01U108	904.3	21-Aug-90	27 F	889.0
01U106	897.1	18-Jun-91	31 F	893.8	01U108	904.3	18-Sep-90	28 F	889.8
01U106	897.1	30-Jul-91	32 F	892.8	01U108	904.3	02-Nov-90	29 F	890.7
01U106	897.1	19-Aug-91	32 F	892.6	01U108	904.3	18-Dec-90	29 F	886.4
					01U108	904.3	19-Feb-91	30 F	887.8
01U107	899.8	14-Dec-87	16 F	891.3	01U108	904.3	19-Mar-91	30 F	888.3
01U107	899.8	26-Jan-88	17 F	890.7	01U108	904.3	16-Apr-91	31 F	888.8
01U107	899.8	13-Apr-88	18 F	890.9	01U108	904.3	04-Jun-91	31 F	889.9
01U107	899.8	30-Aug-88	19 F	889.6	01U108	904.3	18-Jun-91	31 F	892.3
01U107	899.8	22-Nov-88	20 F	888.7	01U108	904.3	18-Jun-91	31 F	892.2
01U107	899.8	24-Apr-89	22 F	887.5	01U108	904.3	30-Jul-91	32 F	891.0
01U107	899.8	05-Aug-89	23 F	889.5	01U108	904.3	19-Aug-91	32 F	891.2
01U107	899.8	02-Nov-89	24 F	888.3	01U108	904.3	03-Sep-91	32 F	890.8
01U107	899.8	23-Jan-90	25 F	887.6					
01U107	899.8	20-Feb-90	25 F	887.7	01U109	903.4	14-Dec-87	16 F	894.2
01U107	899.8	20-Mar-90	25 F	887.9	01U109	903.4	26-Jan-88	17 F	893.2
01U107	899.8	16-Apr-90	26 F	887.7	01U109	903.4	13-Apr-88	18 F	895.4
01U107	899.8	26-Apr-90	26 F	887.6	01U109	903.4	30-Aug-88	19 F	891.1
01U107	899.8	22-May-90	26 F	887.9	01U109	903.4	22-Nov-88	20 F	891.2
01U107	899.8	19-Jun-90	26 F	889.1	01U109	903.4	05-Aug-89	23 F	891.4
01U107	899.8	17-Jul-90	27 F	890.3	01U109	903.4	23-Jan-90	25 F	Dry
01U107	899.8	21-Aug-90	27 F	890.4	01U109	903.4	20-Feb-90	25 F	Dry
01U107	899.8	18-Sep-90	28 F	892.1	01U109	903.4	20-Mar-90	25 F	891.3
01U107	899.8	02-Nov-90	29 F	890.9	01U109	903.4	16-Apr-90	26 F	891.1
01U107	899.8	18-Dec-90	29 F	890.4	01U109	903.4	22-May-90	26 F	892.3
01U107	899.8	19-Feb-91	30 F	889.9	01U109	903.4	19-Jun-90	26 F	900.5
01U107	899.8	19-Mar-91	30 F	889.9	01U109	903.4	17-Jul-90	27 F	893.0

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U109	903.4	21-Aug-90	27 F	893.0	01U115	900.6	20-Feb-90	25 F	884.6
01U109	903.4	18-Sep-90	28 F	895.5	01U115	900.6	20-Mar-90	25 F	884.5
01U109	903.4	02-Nov-90	29 F	899.3	01U115	900.6	16-Apr-90	26 F	884.5
01U109	903.4	18-Dec-90	29 F	892.7	01U115	900.6	22-May-90	26 F	884.7
01U109	903.4	19-Feb-91	30 F	891.9	01U115	900.6	19-Jun-90	26 F	885.7
01U109	903.4	19-Mar-91	30 F	893.3	01U115	900.6	17-Jul-90	27 F	886.7
01U109	903.4	16-Apr-91	31 F	895.9	01U115	900.6	21-Aug-90	27 F	886.8
01U109	903.4	18-Jun-91	31 F	895.4	01U115	900.6	18-Sep-90	28 F	888.2
01U109	903.4	18-Jun-91	31 F	895.6	01U115	900.6	02-Nov-90	29 F	887.9
01U109	903.4	30-Jul-91	32 F	897.1	01U115	900.6	18-Dec-90	29 F	887.5
01U109	903.4	19-Aug-91	32 F	894.3	01U115	900.6	19-Feb-91	30 F	886.9
					01U115	900.6	19-Mar-91	30 F	886.5
01U110	897.6	14-Dec-87	16 F	894.2	01U115	900.6	16-Apr-91	31 F	886.7
01U110	897.6	26-Jan-88	17 F	893.2	01U115	900.6	05-Jun-91	31 F	889.5
01U110	897.6	13-Apr-88	18 F	892.4	01U115	900.6	18-Jun-91	31 F	890.1
01U110	897.6	30-Aug-88	19 F	891.2	01U115	900.6	18-Jun-91	31 F	890.1
01U110	897.6	22-Nov-88	20 F	891.4	01U115	900.6	30-Jul-91	32 F	890.3
01U110	897.6	24-Apr-89	22 F	890.2	01U115	900.6	19-Aug-91	32 F	890.2
01U110	897.6	06-Aug-89	23 F	891.5	01U115	900.6	03-Sep-91	32 F	889.8
01U110	897.6	02-Nov-89	24 F	890.4					
01U110	897.6	23-Jan-90	25 F	890.0	01U116	903.0	14-Dec-87	16 F	888.4
01U110	897.6	20-Feb-90	25 F	889.8	01U116	903.0	26-Jan-88	17 F	887.8
01U110	897.6	20-Mar-90	25 F	891.0	01U116	903.0	14-Apr-88	18 F	887.2
01U110	897.6	16-Apr-90	26 F	890.8	01U116	903.0	30-Aug-88	19 F	886.7
01U110	897.6	22-May-90	26 F	892.3	01U116	903.0	22-Nov-88	20 F	886.1
01U110	897.6	19-Jun-90	26 F	887.8	01U116	903.0	24-Apr-89	22 F	886.0
01U110	897.6	17-Jul-90	27 F	893.4	01U116	903.0	05-Aug-89	23 F	886.8
01U110	897.6	21-Aug-90	27 F	893.4	01U116	903.0	02-Nov-89	24 F	885.8
01U110	897.6	18-Sep-90	28 F	893.8	01U116	903.0	23-Jan-90	25 F	885.2
01U110	897.6	02-Nov-90	29 F	887.0	01U116	903.0	20-Feb-90	25 F	884.9
01U110	897.6	18-Dec-90	29 F	893.1	01U116	903.0	20-Mar-90	25 F	884.8
01U110	897.6	19-Feb-91	30 F	892.2	01U116	903.0	16-Apr-90	26 F	884.8
01U110	897.6	19-Mar-91	30 F	893.2	01U116	903.0	22-May-90	26 F	885.0
01U110	897.6	16-Apr-91	31 F	896.2	01U116	903.0	19-Jun-90	26 F	886.0
01U110	897.6	18-Jun-91	31 F	896.1	01U116	903.0	17-Jul-90	27 F	887.0
01U110	897.6	18-Jun-91	31 F	896.0	01U116	903.0	21-Aug-90	27 F	887.1
01U110	897.6	30-Jul-91	32 F	897.2	01U116	903.0	18-Sep-90	28 F	888.5
01U110	897.6	19-Aug-91	32 F	894.9	01U116	903.0	02-Nov-90	29 F	888.1
					01U116	903.0	18-Dec-90	29 F	887.7
01U115	900.6	14-Dec-87	16 F	888.1	01U116	903.0	19-Feb-91	30 F	887.1
01U115	900.6	26-Jan-88	17 F	887.6	01U116	903.0	19-Mar-91	30 F	886.7
01U115	900.6	13-Apr-88	18 F	886.9	01U116	903.0	16-Apr-91	31 F	887.1
01U115	900.6	30-Aug-88	19 F	886.4	01U116	903.0	18-Jun-91	31 F	890.4
01U115	900.6	22-Nov-88	20 F	885.7	01U116	903.0	18-Jun-91	31 F	890.4
01U115	900.6	24-Apr-89	22 F	883.6	01U116	903.0	30-Jul-91	32 F	890.5
01U115	900.6	05-Aug-89	23 F	886.6	01U116	903.0	19-Aug-91	32 F	890.4
01U115	900.6	02-Nov-89	24 F	885.7					
01U115	900.6	23-Jan-90	25 F	884.9	01U117	903.2	14-Dec-87	16 F	888.9

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U117	903.2	26-Jan-88	17 F	888.8	01U118	902.2	19-Mar-91	30 F	887.9
01U117	903.2	13-Apr-88	18 F	887.7	01U118	902.2	16-Apr-91	31 F	888.4
01U117	903.2	30-Aug-88	19 F	887.3	01U118	902.2	18-Jun-91	31 F	893.0
01U117	903.2	22-Nov-88	20 F	886.7	01U118	902.2	18-Jun-91	31 F	893.0
01U117	903.2	24-Apr-89	22 F	884.7	01U118	902.2	30-Jul-91	32 F	891.2
01U117	903.2	05-Aug-89	23 F	887.3	01U118	902.2	19-Aug-91	32 F	891.8
01U117	903.2	02-Nov-89	24 F	886.5					
01U117	903.2	23-Jan-90	25 F	885.6	01U119	898.5	14-Dec-87	16 F	892.3
01U117	903.2	20-Feb-90	25 F	885.4	01U119	898.5	27-Jan-88	17 F	891.7
01U117	903.2	20-Mar-90	25 F	885.3	01U119	898.5	13-Apr-88	18 F	892.3
01U117	903.2	16-Apr-90	26 F	885.3	01U119	898.5	30-Aug-88	19 F	890.1
01U117	903.2	27-Apr-90	26 F	885.3	01U119	898.5	22-Nov-88	20 F	889.4
01U117	903.2	22-May-90	26 F	885.6	01U119	898.5	24-Apr-89	22 F	888.3
01U117	903.2	19-Jun-90	26 F	886.6	01U119	898.5	05-Aug-89	23 F	889.8
01U117	903.2	17-Jul-90	27 F	887.6	01U119	898.5	02-Nov-89	24 F	888.9
01U117	903.2	21-Aug-90	27 F	887.7	01U119	898.5	23-Jan-90	25 F	888.4
01U117	903.2	18-Sep-90	28 F	889.1	01U119	898.5	20-Feb-90	25 F	888.2
01U117	903.2	02-Nov-90	29 F	888.6	01U119	898.5	20-Mar-90	25 F	888.8
01U117	903.2	18-Dec-90	29 F	888.2	01U119	898.5	16-Apr-90	26 F	888.7
01U117	903.2	19-Feb-91	30 F	887.4	01U119	898.5	27-Apr-90	26 F	888.7
01U117	903.2	19-Mar-91	30 F	887.2	01U119	898.5	22-May-90	26 F	889.3
01U117	903.2	16-Apr-91	31 F	887.7	01U119	898.5	19-Jun-90	26 F	890.8
01U117	903.2	18-Jun-91	31 F	891.1	01U119	898.5	17-Jul-90	27 F	891.2
01U117	903.2	18-Jun-91	31 F	891.1	01U119	898.5	21-Aug-90	27 F	891.3
01U117	903.2	30-Jul-91	32 F	891.0	01U119	898.5	18-Sep-90	28 F	892.2
01U117	903.2	19-Aug-91	32 F	890.9	01U119	898.5	02-Nov-90	29 F	891.5
					01U119	898.5	18-Dec-90	29 F	891.1
01U118	902.2	14-Dec-87	16 F	889.6	01U119	898.5	19-Feb-91	30 F	890.4
01U118	902.2	27-Jan-88	17 F	889.0	01U119	898.5	19-Mar-91	30 F	890.9
01U118	902.2	13-Apr-88	18 F	887.3	01U119	898.5	16-Apr-91	31 F	893.1
01U118	902.2	30-Aug-88	19 F	887.3	01U119	898.5	18-Jun-91	31 F	894.8
01U118	902.2	22-Nov-88	20 F	887.1	01U119	898.5	18-Jun-91	31 F	894.8
01U118	902.2	24-Apr-89	22 F	884.6	01U119	898.5	30-Jul-91	32 F	895.3
01U118	902.2	05-Aug-89	23 F	887.8	01U119	898.5	19-Aug-91	32 F	893.5
01U118	902.2	02-Nov-89	24 F	886.9					
01U118	902.2	23-Jan-90	25 F	886.1	01U120	902.3	14-Dec-87	16 F	890.1
01U118	902.2	20-Feb-90	25 F	885.9	01U120	902.3	26-Jan-88	17 F	889.4
01U118	902.2	20-Mar-90	25 F	885.7	01U120	902.3	13-Apr-88	18 F	888.6
01U118	902.2	16-Apr-90	26 F	885.6	01U120	902.3	30-Aug-88	19 F	888.4
01U118	902.2	27-Apr-90	26 F	885.6	01U120	902.3	22-Nov-88	20 F	887.6
01U118	902.2	22-May-90	26 F	885.6	01U120	902.3	24-Apr-89	22 F	885.7
01U118	902.2	19-Jun-90	26 F	886.6	01U120	902.3	05-Aug-89	23 F	888.1
01U118	902.2	17-Jul-90	27 F	888.0	01U120	902.3	02-Nov-89	24 F	887.3
01U118	902.2	21-Aug-90	27 F	888.0	01U120	902.3	23-Jan-90	25 F	886.6
01U118	902.2	18-Sep-90	28 F	889.1	01U120	902.3	20-Feb-90	25 F	886.3
01U118	902.2	02-Nov-90	29 F	889.4	01U120	902.3	20-Mar-90	25 F	886.4
01U118	902.2	18-Dec-90	29 F	888.9	01U120	902.3	16-Apr-90	26 F	886.5
01U118	902.2	19-Feb-91	30 F	888.2	01U120	902.3	27-Apr-90	26 F	886.5

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U120	902.3	22-May-90	26 F	886.9	01U125	901.0	18-Jun-91	31 F	891.1
01U120	902.3	19-Jun-90	26 F	888.1	01U125	901.0	18-Jun-91	31 F	890.5
01U120	902.3	17-Jul-90	27 F	889.1	01U125	901.0	30-Jul-91	32 F	890.5
01U120	902.3	21-Aug-90	27 F	889.1	01U125	901.0	19-Aug-91	32 F	890.6
01U120	902.3	18-Sep-90	28 F	890.3					
01U120	902.3	02-Nov-90	29 F	889.5	01U126	903.4	14-Dec-87	16 F	889.3
01U120	902.3	18-Dec-90	29 F	889.2	01U126	903.4	26-Jan-88	17 F	888.7
01U120	902.3	19-Feb-91	30 F	889.5	01U126	903.4	13-Apr-88	18 F	887.7
01U120	902.3	19-Mar-91	30 F	888.4	01U126	903.4	30-Aug-88	19 F	887.6
01U120	902.3	16-Apr-91	31 F	889.2	01U126	903.4	22-Nov-88	20 F	887.1
01U120	902.3	18-Jun-91	31 F	892.5	01U126	903.4	24-Apr-89	22 F	884.6
01U120	902.3	18-Jun-91	31 F	892.4	01U126	903.4	05-Aug-89	23 F	887.6
01U120	902.3	30-Jul-91	32 F	891.9	01U126	903.4	02-Nov-89	24 F	886.7
01U120	902.3	19-Aug-91	32 F	891.7	01U126	903.4	23-Jan-90	25 F	886.1
					01U126	903.4	20-Feb-90	25 F	886.0
01U122	901.0	14-Dec-87	16 F	897.5	01U126	903.4	20-Mar-90	25 F	886.0
01U122	901.0	26-Jan-88	17 F	895.9	01U126	903.4	16-Apr-90	26 F	885.9
01U122	901.0	13-Apr-88	18 F	898.3	01U126	903.4	01-May-90	26 F	885.9
01U122	901.0	30-Aug-88	19 F	893.8	01U126	903.4	22-May-90	26 F	886.2
01U122	901.0	22-Nov-88	20 F	894.9	01U126	903.4	19-Jun-90	26 F	887.2
01U122	901.0	05-Aug-89	23 F	894.6	01U126	903.4	17-Jul-90	27 F	888.4
01U122	901.0	02-Nov-89	24 F	893.7	01U126	903.4	21-Aug-90	27 F	888.4
01U122	901.0	27-Apr-90	26 F	898.0	01U126	903.4	18-Sep-90	28 F	889.8
01U122	901.0	01-Apr-91	30 F	899.7	01U126	903.4	02-Nov-90	29 F	889.0
					01U126	903.4	18-Dec-90	29 F	888.7
01U125	901.0	14-Dec-87	16 F	888.4	01U126	903.4	19-Feb-91	30 F	888.1
01U125	901.0	26-Jan-88	17 F	887.8	01U126	903.4	19-Mar-91	30 F	887.8
01U125	901.0	13-Apr-88	18 F	887.1	01U126	903.4	16-Apr-91	31 F	888.4
01U125	901.0	30-Aug-88	19 F	886.7	01U126	903.4	18-Jun-91	31 F	892.0
01U125	901.0	22-Nov-88	20 F	886.1	01U126	903.4	18-Jun-91	31 F	892.0
01U125	901.0	24-Apr-89	22 F	884.0	01U126	903.4	30-Jul-91	32 F	891.8
01U125	901.0	05-Aug-89	23 F	887.2	01U126	903.4	19-Aug-91	32 F	891.6
01U125	901.0	02-Nov-89	24 F	886.2					
01U125	901.0	23-Jan-90	25 F	885.2	01U127	903.1	14-Dec-87	16 F	890.2
01U125	901.0	20-Feb-90	25 F	884.9	01U127	903.1	26-Jan-88	17 F	889.7
01U125	901.0	20-Mar-90	25 F	884.7	01U127	903.1	13-Apr-88	18 F	889.0
01U125	901.0	16-Apr-90	26 F	884.6	01U127	903.1	30-Aug-88	19 F	888.7
01U125	901.0	01-May-90	26 F	884.5	01U127	903.1	22-Nov-88	20 F	887.6
01U125	901.0	22-May-90	26 F	884.7	01U127	903.1	24-Apr-89	22 F	885.4
01U125	901.0	19-Jun-90	26 F	885.8	01U127	903.1	05-Aug-89	23 F	888.1
01U125	901.0	17-Jul-90	27 F	884.9	01U127	903.1	02-Nov-89	24 F	887.4
01U125	901.0	21-Aug-90	27 F	884.9	01U127	903.1	23-Jan-90	25 F	886.8
01U125	901.0	18-Sep-90	28 F	888.5	01U127	903.1	20-Feb-90	25 F	886.5
01U125	901.0	02-Nov-90	29 F	888.1	01U127	903.1	20-Mar-90	25 F	886.6
01U125	901.0	18-Dec-90	29 F	887.7	01U127	903.1	16-Apr-90	26 F	886.6
01U125	901.0	19-Feb-91	30 F	888.1	01U127	903.1	01-May-90	26 F	886.6
01U125	901.0	19-Mar-91	30 F	886.7	01U127	903.1	22-May-90	26 F	887.0
01U125	901.0	16-Apr-91	31 F	886.7	01U127	903.1	19-Jun-90	26 F	888.1

TABLE 1
TCAAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U127	903.1	17-Jul-90	27 F	889.4	01U133	900.8	21-Aug-90	27 F	890.5
01U127	903.1	21-Aug-90	27 F	889.5	01U133	900.8	18-Sep-90	28 F	891.4
01U127	903.1	18-Sep-90	28 F	890.5	01U133	900.8	02-Nov-90	29 F	890.8
01U127	903.1	02-Nov-90	29 F	889.7	01U133	900.8	18-Dec-90	29 F	884.9
01U127	903.1	18-Dec-90	29 F	887.2	01U133	900.8	19-Feb-91	30 F	884.3
01U127	903.1	19-Feb-91	30 F	886.7	01U133	900.8	19-Mar-91	30 F	889.8
01U127	903.1	19-Mar-91	30 F	888.6	01U133	900.8	16-Apr-91	31 F	891.1
01U127	903.1	16-Apr-91	31 F	889.3	01U133	900.8	18-Jun-91	31 F	894.1
01U127	903.1	18-Jun-91	31 F	893.0	01U133	900.8	18-Jun-91	31 F	894.1
01U127	903.1	18-Jun-91	31 F	893.1	01U133	900.8	30-Jul-91	32 F	893.8
01U127	903.1	30-Jul-91	32 F	892.1	01U133	900.8	19-Aug-91	32 F	892.7
01U127	903.1	19-Aug-91	32 F	892.0					
01U128	880.9	14-Dec-87	16 F	873.2	01U135	900.0	22-Nov-88	20 F	881.2
01U128	880.9	27-Jan-88	17 F	872.7	01U135	900.0	25-Apr-89	22 F	877.4
01U128	880.9	13-Apr-88	18 F	874.0	01U135	900.0	05-Aug-89	23 F	882.1
01U128	880.9	30-Aug-88	19 F	872.3	01U135	900.0	02-Nov-89	24 F	881.3
01U128	880.9	22-Nov-88	20 F	873.0	01U135	900.0	20-Apr-90	26 F	880.5
01U128	880.9	03-Aug-89	23 F	873.1	01U135	900.0	13-Mar-91	30 F	882.0
01U128	880.9	02-Nov-89	24 F	872.5	01U136	899.0	22-Nov-88	20 F	877.9
01U128	883.3	06-Mar-91	30 F	872.4	01U136	899.0	25-Apr-89	22 F	875.9
01U128	883.3	04-Jun-91	31 F	876.0	01U136	899.0	05-Aug-89	23 F	878.5
01U128	883.3	03-Sep-91	32 F	873.8	01U136	899.0	02-Nov-89	24 F	878.0
					01U136	899.0	20-Apr-90	26 F	877.9
01U130	889.1	14-Dec-87	16 F	880.7	01U136	899.0	13-Mar-91	30 F	878.6
01U130	889.1	27-Jan-88	17 F	880.4					
01U130	889.1	13-Apr-88	18 F	880.9	01U137	900.9	29-Jul-91	32 F	891.7
01U130	889.1	30-Aug-88	19 F	880.8					
01U130	889.1	22-Nov-88	20 F	880.9	01U138	904.6	29-Jul-91	32 F	890.2
01U130	889.1	06-Aug-89	23 F	881.5					
01U130	889.1	02-Nov-89	24 F	880.6	01U139	901.4	29-Jul-91	32 F	889.5
01U130	889.1	01-Apr-91	30 F	881.7					
					01U140	899.0	29-Jul-91	32 F	887.9
01U133	900.8	14-Dec-87	16 F	891.2					
01U133	900.8	26-Jan-88	17 F	890.8	01U141	898.0	29-Jul-91	32 F	889.8
01U133	900.8	13-Apr-88	18 F	891.0					
01U133	900.8	30-Aug-88	19 F	889.5	01U350	903.7	22-Nov-88	20 F	879.3
01U133	900.8	22-Nov-88	20 F	887.7	01U350	903.7	24-Apr-89	22 F	878.5
01U133	900.8	24-Apr-89	22 F	886.7	01U350	903.7	05-Aug-89	23 F	880.8
01U133	900.8	02-Nov-89	24 F	888.4	01U350	903.7	02-Nov-89	24 F	878.2
01U133	900.8	23-Jan-90	25 F	887.7	01U350	903.7	23-Jan-90	25 F	877.7
01U133	900.8	20-Feb-90	25 F	887.5	01U350	903.7	20-Feb-90	25 F	879.1
01U133	900.8	20-Mar-90	25 F	887.8	01U350	903.7	20-Mar-90	25 F	876.8
01U133	900.8	16-Apr-90	26 F	887.8	01U350	903.7	16-Apr-90	26 F	877.6
01U133	900.8	26-Apr-90	26 F	887.9	01U350	903.7	03-May-90	26 F	877.6
01U133	900.8	22-May-90	26 F	888.3	01U350	903.7	22-May-90	26 F	880.5
01U133	900.8	19-Jun-90	26 F	889.6	01U350	903.7	19-Jun-90	26 F	882.6
01U133	900.8	17-Jul-90	27 F	890.5	01U350	903.7	17-Jul-90	27 F	886.0

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U350	903.7	21-Aug-90	27 F	886.1	01U527	912.1	05-Aug-89	23 F	908.3
01U350	903.7	18-Sep-90	28 F	886.1	01U527	912.1	02-Nov-89	24 F	908.2
01U350	903.7	02-Nov-90	29 F	886.1	01U527	912.1	03-May-90	26 F	909.5
01U350	903.7	18-Dec-90	29 F	885.9	01U527	912.1	01-Apr-91	30 F	909.0
01U350	903.7	19-Feb-91	30 F	885.5					
01U350	903.7	19-Mar-91	30 F	886.9	01U601	889.2	15-Dec-87	16 F	883.8
01U350	903.7	16-Apr-91	31 F	886.2	01U601	889.2	27-Jan-88	17 F	883.4
01U350	903.7	04-Jun-91	31 F	891.0	01U601	889.2	14-Apr-88	18 F	884.0
01U350	903.7	18-Jun-91	31 F	890.0	01U601	889.2	30-Aug-88	19 F	883.7
01U350	903.7	18-Jun-91	31 F	889.9	01U601	889.2	06-Dec-88	20 A	883.8
01U350	903.7	30-Jul-91	32 F	884.8	01U601	889.2	29-Mar-89	21 A	884.1
01U350	903.7	19-Aug-91	32 F	888.5	01U601	889.2	07-Jun-89	22 A	883.9
01U350	903.7	03-Sep-91	32 F	889.7	01U601	889.2	04-Aug-89	23 F	883.9
					01U601	889.2	08-Sep-89	23 A	883.9
01U524	909.8	14-Dec-87	16 F	906.8	01U601	889.2	03-Nov-89	24 F	883.5
01U524	909.8	27-Jan-88	17 F	904.9	01U601	889.2	03-Jan-90	25 A	882.9
01U524	909.8	13-Apr-88	18 F	906.8	01U601	889.2	07-May-90	26 A	883.7
01U524	909.8	30-Aug-88	19 F	904.8	01U601	889.2	03-Jul-90	27 A	884.2
01U524	909.8	22-Nov-88	20 F	906.0	01U601	889.2	02-Oct-90	29 A	883.9
01U524	909.8	05-Aug-89	23 F	904.7	01U601	889.2	06-Mar-91	30 A	883.3
01U524	909.8	02-Nov-89	24 F	905.1	01U601	889.2	04-Jun-91	31 A	885.1
01U524	909.8	30-Apr-90	26 F	907.7	01U601	889.2	03-Sep-91	32 A	884.0
01U524	909.8	01-Apr-91	30 F	907.3					
					01U602	890.0	04-Aug-89	23 F	879.8
01U525	941.0	14-Dec-87	16 F	932.4	01U602	890.0	06-Mar-91	30 A	883.5
01U525	941.0	13-Apr-88	18 F	935.4	01U602	890.0	04-Jun-91	31 A	884.1
01U525	941.0	30-Aug-88	19 F	932.7	01U602	890.0	03-Sep-91	32 A	883.6
01U525	941.0	23-Nov-88	20 F	933.0					
01U525	941.0	27-Apr-89	22 F	931.2	01U603	885.0	15-Dec-87	16 F	876.8
01U525	941.0	30-Apr-90	26 F	936.4	01U603	885.0	27-Jan-88	17 F	875.9
01U525	941.0	01-Apr-91	30 F	936.3	01U603	885.0	14-Apr-88	18 F	875.1
					01U603	885.0	30-Aug-88	19 F	875.3
01U526	939.0	15-Dec-87	16 F	929.8	01U603	885.0	06-Dec-88	20 A	876.1
01U526	939.0	27-Jan-88	17 F	928.9	01U603	885.0	29-Mar-89	21 A	875.9
01U526	939.0	13-Apr-88	18 F	930.2	01U603	885.0	07-Jun-89	22 A	877.4
01U526	939.0	30-Aug-88	19 F	929.1	01U603	885.0	04-Aug-89	23 F	876.9
01U526	939.0	23-Nov-88	20 F	929.4	01U603	885.0	08-Sep-89	23 A	878.2
01U526	939.0	09-May-89	22 F	928.7	01U603	885.0	03-Nov-89	24 F	875.9
01U526	939.0	05-Aug-89	23 F	929.8	01U603	885.0	03-Jan-90	25 A	876.4
01U526	939.0	02-Nov-89	24 F	929.0	01U603	885.0	07-May-90	26 A	877.6
01U526	939.0	20-Apr-90	26 F	930.0	01U603	885.0	03-Jul-90	27 A	878.6
01U526	939.0	13-Mar-91	30 F	929.4	01U603	885.0	02-Oct-90	29 A	877.9
					01U603	885.0	06-Mar-91	30 A	876.4
01U527	912.1	14-Dec-87	16 F	908.9	01U603	885.0	04-Jun-91	31 A	879.1
01U527	912.1	27-Jan-88	17 F	905.8	01U603	885.0	03-Sep-91	32 A	877.5
01U527	912.1	13-Apr-88	18 F	908.2					
01U527	912.1	30-Aug-88	19 F	907.9	01U604	885.6	15-Dec-87	16 F	877.6
01U527	912.1	23-Nov-88	20 F	908.9	01U604	885.6	27-Jan-88	17 F	875.8

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U604	885.6	14-Apr-88	18 F	875.1	01U607	888.6	04-Jun-91	31 A	886.3
01U604	885.6	30-Aug-88	19 F	875.4	01U607	888.6	03-Sep-91	32 A	884.8
01U604	885.6	06-Dec-88	20 A	875.2					
01U604	885.6	29-Mar-89	21 A	874.5	01U608	889.8	06-Mar-91	30 A	883.3
01U604	885.6	07-Jun-89	22 A	876.1	01U608	889.8	04-Jun-91	31 A	884.2
01U604	885.6	04-Aug-89	23 F	876.8	01U608	889.8	03-Sep-91	32 A	883.5
01U604	885.6	08-Sep-89	23 A	877.1					
01U604	885.6	03-Nov-89	24 F	877.3	01U609	889.9	15-Dec-87	16 F	882.9
01U604	885.6	03-Jan-90	25 A	876.2	01U609	889.9	27-Jan-88	17 F	882.7
01U604	885.6	07-May-90	26 A	876.4	01U609	889.9	14-Apr-88	18 F	883.1
01U604	885.6	03-Jul-90	27 A	877.3	01U609	889.9	30-Aug-88	19 F	883.0
01U604	885.6	02-Oct-90	29 A	877.0	01U609	889.9	22-Nov-88	20 F	883.0
01U604	885.6	06-Mar-91	30 A	876.3	01U609	889.9	06-Dec-88	20 A	883.0
01U604	885.6	04-Jun-91	31 A	878.0	01U609	889.9	29-Mar-89	21 A	882.7
01U604	885.6	03-Sep-91	32 A	876.5	01U609	889.9	07-Jun-89	22 A	883.2
					01U609	889.9	04-Aug-89	23 F	879.6
01U605	885.0	15-Dec-87	16 F	876.2	01U609	889.9	08-Sep-89	23 A	883.2
01U605	885.0	14-Apr-88	18 F	876.7	01U609	889.9	03-Nov-89	24 F	878.6
01U605	885.0	30-Aug-88	19 F	876.3	01U609	889.9	03-Jan-90	25 A	882.4
01U605	885.0	06-Dec-88	20 A	876.0	01U609	889.9	03-Jul-90	27 A	883.4
01U605	885.0	29-Mar-89	21 A	Dry	01U609	889.9	02-Oct-90	29 A	883.4
01U605	885.0	07-Jun-89	22 A	877.5	01U609	889.9	06-Mar-91	30 A	882.5
01U605	885.0	04-Aug-89	23 F	877.3	01U609	889.9	04-Jun-91	31 A	883.9
01U605	885.0	08-Sep-89	23 A	877.0	01U609	889.9	03-Sep-91	32 A	883.6
01U605	885.0	03-Nov-89	24 F	876.0					
01U605	885.0	03-Jan-90	25 A	Dry	01U611	889.7	14-Apr-88	18 F	883.4
01U605	885.0	07-May-90	26 A	876.5	01U611	889.7	30-Aug-88	19 F	883.3
01U605	885.0	03-Jul-90	27 A	878.6	01U611	889.7	22-Nov-88	20 F	883.4
01U605	885.0	02-Oct-90	29 A	877.7	01U611	889.7	06-Dec-88	20 A	883.4
01U605	885.0	06-Mar-91	30 A	DRY	01U611	889.7	29-Mar-89	21 A	882.5
01U605	885.0	04-Jun-91	31 A	879.1	01U611	889.7	04-Aug-89	23 F	879.3
01U605	885.0	03-Sep-91	32 A	877.8	01U611	889.7	03-Nov-89	24 F	878.8
					01U611	889.7	03-Jan-90	25 A	889.4
01U607	888.6	15-Dec-87	16 F	884.3	01U611	889.7	07-May-90	26 A	883.3
01U607	888.6	14-Apr-88	18 F	885.2	01U611	889.7	03-Jul-90	27 A	883.9
01U607	888.6	30-Aug-88	19 F	884.6	01U611	889.7	02-Oct-90	29 A	883.5
01U607	888.6	22-Nov-88	20 F	885.5	01U611	889.7	06-Mar-91	30 A	883.0
01U607	888.6	06-Dec-88	20 A	885.2	01U611	889.7	04-Jun-91	31 A	884.5
01U607	888.6	29-Mar-89	21 A	887.0	01U611	889.7	03-Sep-91	32 A	883.7
01U607	888.6	07-Jun-89	22 A	884.7					
01U607	888.6	04-Aug-89	23 F	885.8	01U612	885.9	15-Dec-87	16 F	878.0
01U607	888.6	08-Sep-89	23 A	885.9	01U612	885.9	27-Jan-88	17 F	877.0
01U607	888.6	03-Nov-89	24 F	883.5	01U612	885.9	14-Apr-88	18 F	876.8
01U607	888.6	03-Jan-90	25 A	882.3	01U612	885.9	30-Aug-88	19 F	876.5
01U607	888.6	07-May-90	26 A	885.3	01U612	885.9	22-Nov-88	20 F	876.5
01U607	888.6	03-Jul-90	27 A	885.3	01U612	885.9	06-Dec-88	20 A	877.0
01U607	888.6	02-Oct-90	29 A	884.1	01U612	885.9	29-Mar-89	21 A	Dry
01U607	888.6	06-Mar-91	30 A	883.6	01U612	885.9	04-Aug-89	23 F	877.1

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U612	885.9	08-Sep-89	23 A	877.3	01U616	888.5	30-Aug-88	19 F	879.2
01U612	885.9	03-Jan-90	25 A	Dry	01U616	888.5	22-Nov-88	20 F	878.6
01U612	885.9	07-May-90	26 A	877.3	01U616	888.5	06-Dec-88	20 A	878.7
01U612	885.9	03-Jul-90	27 A	877.7	01U616	888.5	29-Mar-89	21 A	876.7
01U612	885.9	02-Oct-90	29 A	DRY	01U616	888.5	07-Jun-89	22 A	878.2
01U612	885.9	06-Mar-91	30 A	877.2	01U616	888.5	04-Aug-89	23 F	880.4
01U612	885.9	04-Jun-91	31 A	878.3	01U616	888.5	08-Sep-89	23 A	879.2
01U612	885.9	03-Sep-91	32 A	877.3	01U616	888.5	03-Nov-89	24 F	879.3
					01U616	888.5	03-Jan-90	25 A	878.6
01U613	888.8	15-Dec-87	16 F	883.5	01U616	888.5	07-May-90	26 A	878.8
01U613	888.8	27-Jan-88	17 F	883.7	01U616	888.5	03-Jul-90	27 A	880.5
01U613	888.8	14-Apr-88	18 F	883.8	01U616	888.5	02-Oct-90	29 A	881.1
01U613	888.8	30-Aug-88	19 F	884.0	01U616	888.5	06-Mar-91	30 A	878.5
01U613	888.8	22-Nov-88	20 F	884.3	01U616	888.5	04-Jun-91	31 A	881.6
01U613	888.8	29-Mar-89	21 A	885.3	01U616	888.5	03-Sep-91	32 A	880.4
01U613	888.8	04-Aug-89	23 F	884.6					
01U613	888.8	08-Sep-89	23 A	884.5	01U617	885.2	15-Dec-87	16 F	877.5
01U613	888.8	03-Nov-89	24 F	882.8	01U617	885.2	27-Jan-88	17 F	875.2
01U613	888.8	03-Jan-90	25 A	881.8	01U617	885.2	14-Apr-88	18 F	875.0
01U613	888.8	07-May-90	26 A	883.7	01U617	885.2	30-Aug-88	19 F	875.3
01U613	888.8	03-Jul-90	27 A	884.2	01U617	885.2	22-Nov-88	20 F	875.2
01U613	888.8	02-Oct-90	29 A	883.2	01U617	885.2	06-Dec-88	20 A	875.2
01U613	888.8	06-Mar-91	30 A	882.5	01U617	885.2	29-Mar-89	21 A	874.7
01U613	888.8	04-Jun-91	31 A	884.7	01U617	885.2	07-Jun-89	22 A	876.0
01U613	888.8	03-Sep-91	32 A	884.5	01U617	885.2	04-Aug-89	23 F	876.5
					01U617	885.2	08-Sep-89	23 A	877.1
01U615	889.5	15-Dec-87	16 F	881.4	01U617	885.2	03-Nov-89	24 F	875.9
01U615	889.5	27-Jan-88	17 F	878.3	01U617	885.2	03-Jan-90	25 A	875.2
01U615	889.5	14-Apr-88	18 F	878.0	01U617	885.2	07-May-90	26 A	875.6
01U615	889.5	30-Aug-88	19 F	878.3	01U617	885.2	03-Jul-90	27 A	877.2
01U615	889.5	22-Nov-88	20 F	878.2	01U617	885.2	02-Oct-90	29 A	877.2
01U615	889.5	06-Dec-88	20 A	874.5	01U617	885.2	06-Mar-91	30 A	875.4
01U615	889.5	29-Mar-89	21 A	874.3	01U617	885.2	04-Jun-91	31 A	878.2
01U615	889.5	07-Jun-89	22 A	875.0	01U617	885.2	03-Sep-91	32 A	876.8
01U615	889.5	04-Aug-89	23 F	879.5					
01U615	889.5	08-Sep-89	23 A	876.6	01U618	888.8	15-Dec-87	16 F	878.8
01U615	889.5	03-Nov-89	24 F	879.1	01U618	888.8	27-Jan-88	17 F	877.6
01U615	889.5	03-Jan-90	25 A	874.6	01U618	888.8	14-Apr-88	18 F	877.2
01U615	889.5	07-May-90	26 A	874.8	01U618	888.8	30-Aug-88	19 F	877.9
01U615	889.5	03-Jul-90	27 A	876.2	01U618	888.8	22-Nov-88	20 F	877.3
01U615	889.5	02-Oct-90	29 A	876.6	01U618	888.8	06-Dec-88	20 A	877.3
01U615	889.5	06-Mar-91	30 A	874.7	01U618	888.8	29-Mar-89	21 A	877.1
01U615	889.5	04-Jun-91	31 A	877.5	01U618	888.8	07-Jun-89	22 A	878.6
01U615	889.5	03-Sep-91	32 A	876.0	01U618	888.8	04-Aug-89	23 F	879.2
					01U618	888.8	08-Sep-89	23 A	879.7
01U616	888.5	15-Dec-87	16 F	880.2	01U618	888.8	03-Nov-89	24 F	877.9
01U616	888.5	27-Jan-88	17 F	879.3	01U618	888.8	03-Jan-90	25 A	877.1
01U616	888.5	14-Apr-88	18 F	878.5	01U618	888.8	07-May-90	26 A	877.4

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U618	888.8	03-Jul-90	27 A	879.4	01U621	884.6	06-Dec-88	20 A	876.0
01U618	888.8	02-Oct-90	29 A	879.7	01U621	884.6	29-Mar-89	21 A	875.4
01U618	888.8	06-Mar-91	30 A	877.0	01U621	884.6	07-Jun-89	22 A	877.0
01U618	888.8	04-Jun-91	31 A	880.8	01U621	884.6	04-Aug-89	23 F	877.5
01U618	888.8	03-Sep-91	32 A	880.9	01U621	884.6	08-Sep-89	23 A	877.0
01U619	888.2	15-Dec-87	16 F	881.1	01U621	884.6	03-Nov-89	24 F	876.7
01U619	888.2	27-Jan-88	17 F	880.8	01U621	884.6	03-Jan-90	25 A	875.8
01U619	888.2	14-Apr-88	18 F	881.4	01U621	884.6	07-May-90	26 A	846.4
01U619	888.2	30-Aug-88	19 F	881.7	01U621	884.6	03-Jul-90	27 A	878.2
01U619	888.2	23-Nov-88	20 F	881.5	01U621	884.6	02-Oct-90	29 A	878.2
01U619	888.2	06-Dec-88	20 A	881.5	01U621	884.6	06-Mar-91	30 A	876.0
01U619	888.2	29-Mar-89	21 A	881.5	01U621	884.6	04-Jun-91	31 A	879.3
01U619	888.2	07-Jun-89	22 A	882.2	01U621	884.6	03-Sep-91	32 A	877.8
01U619	888.2	04-Aug-89	23 F	881.8	01U622	889.8	06-Mar-91	30 A	DRY
01U619	888.2	08-Sep-89	23 A	882.1	01U622	889.8	04-Jun-91	31 A	882.6
01U619	888.2	03-Nov-89	24 F	881.1	01U622	889.8	03-Sep-91	32 A	882.6
01U619	888.2	03-Jan-90	25 A	880.4	01U623	889.8	15-Dec-87	16 F	877.7
01U619	888.2	07-May-90	26 A	881.1	01U623	889.8	27-Jan-88	17 F	877.6
01U619	888.2	03-Jul-90	27 A	882.3	01U623	889.8	14-Apr-88	18 F	876.1
01U619	888.2	02-Oct-90	29 A	882.1	01U623	889.8	30-Aug-88	19 F	876.3
01U619	888.2	06-Mar-91	30 A	880.5	01U623	889.8	23-Nov-88	20 F	876.3
01U619	888.2	04-Jun-91	31 A	883.6	01U623	889.8	06-Dec-88	20 A	875.8
01U619	888.2	03-Sep-91	32 A	882.0	01U623	889.8	29-Mar-89	21 A	875.6
01U620	887.3	15-Dec-87	16 F	878.3	01U623	889.8	07-Jun-89	22 A	876.3
01U620	887.3	27-Jan-88	17 F	876.4	01U623	889.8	08-Sep-89	23 A	877.0
01U620	887.3	14-Apr-88	18 F	876.0	01U623	889.8	03-Nov-89	24 F	879.7
01U620	887.3	30-Aug-88	19 F	876.6	01U623	889.8	03-Jan-90	25 A	876.0
01U620	887.3	06-Dec-88	20 A	876.2	01U623	889.8	07-May-90	26 A	875.9
01U620	887.3	29-Mar-89	21 A	875.8	01U623	889.8	03-Jul-90	27 A	876.7
01U620	887.3	07-Jun-89	22 A	877.3	01U623	889.8	02-Oct-90	29 A	877.6
01U620	887.3	04-Aug-89	23 F	878.0	01U623	889.8	06-Mar-91	30 A	875.9
01U620	887.3	08-Sep-89	23 A	878.6	01U623	889.8	04-Jun-91	31 A	876.9
01U620	887.3	03-Nov-89	24 F	877.0	01U623	889.8	03-Sep-91	32 A	877.2
01U620	887.3	03-Jan-90	25 A	876.1	01U624A	878.3	06-Dec-88	20 A	Dry
01U620	887.3	07-May-90	26 A	876.3	01U624A	878.3	29-Mar-89	21 A	Dry
01U620	887.3	03-Jul-90	27 A	878.2	01U624A	878.3	07-Jun-89	22 A	Dry
01U620	887.3	02-Oct-90	29 A	878.6	01U624A	878.3	08-Sep-89	23 A	878.3
01U620	887.3	06-Mar-91	30 A	876.0	01U624A	878.3	21-Nov-89	24 A	Dry
01U620	887.3	04-Jun-91	31 A	879.6	01U624A	878.3	03-Jan-90	25 A	Dry
01U620	887.3	03-Sep-91	32 A	876.1	01U624A	878.3	07-May-90	26 A	Dry
01U621	884.6	15-Dec-87	16 F	877.9	01U624A	878.3	03-Jul-90	27 A	877.8
01U621	884.6	27-Jan-88	17 F	876.1	01U624A	878.3	02-Oct-90	29 A	878.3
01U621	884.6	14-Apr-88	18 F	875.9	01U624A	878.3	06-Mar-91	30 A	DRY
01U621	884.6	30-Aug-88	19 F	876.2	01U624A	878.3	04-Jun-91	31 A	879.1
01U621	884.6	23-Nov-88	20 F	876.0	01U624A	878.3	03-Sep-91	32 A	877.6

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U624B	878.3	28-Jan-88	17 F	867.8	01U624D	878.3	21-Nov-89	24 A	876.5
01U624B	878.3	14-Apr-88	18 F	867.3	01U624D	878.3	03-Jan-90	25 A	875.8
01U624B	878.3	30-Aug-88	19 F	867.9	01U624D	878.3	07-May-90	26 A	876.1
01U624B	878.3	23-Nov-88	20 F	869.4	01U624D	878.3	03-Jul-90	27 A	877.8
01U624B	878.3	06-Dec-88	20 A	875.9	01U624D	878.3	02-Oct-90	29 A	878.2
01U624B	878.3	29-Mar-89	21 A	875.5	01U624D	878.3	06-Mar-91	30 A	875.8
01U624B	878.3	07-Jun-89	22 A	876.8	01U624D	878.3	04-Jun-91	31 A	879.0
01U624B	878.3	04-Aug-89	23 F	869.2	01U624D	878.3	03-Sep-91	32 A	877.6
01U624B	878.3	08-Sep-89	23 A	878.2					
01U624B	878.3	03-Nov-89	24 F	868.3	01U625A	878.0	28-Jan-88	17 F	867.5
01U624B	878.3	21-Nov-89	24 A	876.5	01U625A	878.0	14-Apr-88	18 F	867.3
01U624B	878.3	03-Jan-90	25 A	875.8	01U625A	878.0	30-Aug-88	19 F	867.6
01U624B	878.3	07-May-90	26 A	876.0	01U625A	878.0	23-Nov-88	20 F	869.0
01U624B	878.3	03-Jul-90	27 A	877.8	01U625A	878.0	06-Dec-88	20 A	876.6
01U624B	878.3	02-Oct-90	29 A	878.2	01U625A	878.0	29-Mar-89	21 A	875.5
01U624B	878.3	06-Mar-91	30 A	875.8	01U625A	878.0	07-Jun-89	22 A	876.5
01U624B	878.3	04-Jun-91	31 A	879.1	01U625A	878.0	04-Aug-89	23 F	868.9
01U624B	878.3	03-Sep-91	32 A	877.6	01U625A	878.0	08-Sep-89	23 A	878.0
					01U625A	878.0	03-Nov-89	24 F	868.4
01U624C	878.3	28-Jan-88	17 F	867.7	01U625A	878.0	21-Nov-89	24 A	877.3
01U624C	878.3	14-Apr-88	18 F	867.3	01U625A	878.0	03-Jan-90	25 A	876.7
01U624C	878.3	30-Aug-88	19 F	867.9	01U625A	878.0	07-May-90	26 A	876.9
01U624C	878.3	23-Nov-88	20 F	868.9	01U625A	878.0	03-Jul-90	27 A	878.4
01U624C	878.3	06-Dec-88	20 A	875.9	01U625A	878.0	02-Oct-90	29 A	878.8
01U624C	878.3	29-Mar-89	21 A	875.5	01U625A	878.0	06-Mar-91	30 A	876.7
01U624C	878.3	07-Jun-89	22 A	876.8	01U625A	878.0	04-Jun-91	31 A	879.7
01U624C	878.3	04-Aug-89	23 F	869.2	01U625A	878.0	03-Sep-91	32 A	878.2
01U624C	878.3	08-Sep-89	23 A	878.2					
01U624C	878.3	03-Nov-89	24 F	868.3	01U625B	878.0	28-Jan-88	17 F	867.4
01U624C	878.3	21-Nov-89	24 A	876.5	01U625B	878.0	14-Apr-88	18 F	867.2
01U624C	878.3	03-Jan-90	25 A	875.8	01U625B	878.0	30-Aug-88	19 F	867.6
01U624C	878.3	07-May-90	26 A	876.0	01U625B	878.0	23-Nov-88	20 F	868.6
01U624C	878.3	03-Jul-90	27 A	877.8	01U625B	878.0	06-Dec-88	20 A	876.6
01U624C	878.3	02-Oct-90	29 A	878.2	01U625B	878.0	29-Mar-89	21 A	874.8
01U624C	878.3	06-Mar-91	30 A	875.8	01U625B	878.0	07-Jun-89	22 A	875.7
01U624C	878.3	04-Jun-91	31 A	879.0	01U625B	878.0	04-Aug-89	23 F	868.9
01U624C	878.3	03-Sep-91	32 A	877.6	01U625B	878.0	08-Sep-89	23 A	877.3
					01U625B	878.0	03-Nov-89	24 F	868.4
01U624D	878.3	28-Jan-88	17 F	867.8	01U625B	878.0	21-Nov-89	24 A	877.3
01U624D	878.3	14-Apr-88	18 F	867.3	01U625B	878.0	03-Jan-90	25 A	876.6
01U624D	878.3	30-Aug-88	19 F	867.9	01U625B	878.0	07-May-90	26 A	876.8
01U624D	878.3	23-Nov-88	20 F	869.3	01U625B	878.0	03-Jul-90	27 A	878.4
01U624D	878.3	06-Dec-88	20 A	875.9	01U625B	878.0	02-Oct-90	29 A	878.8
01U624D	878.3	29-Mar-89	21 A	875.5	01U625B	878.0	06-Mar-91	30 A	876.7
01U624D	878.3	07-Jun-89	22 A	876.9	01U625B	878.0	04-Jun-91	31 A	879.7
01U624D	878.3	04-Aug-89	23 F	869.2	01U625B	878.0	03-Sep-91	32 A	878.2
01U624D	878.3	08-Sep-89	23 A	878.2					
01U624D	878.3	03-Nov-89	24 F	868.3	01U625C	878.0	28-Jan-88	17 F	867.4

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U625C	878.0	14-Apr-88	18 F	867.3	01U626A	877.1	03-Jan-90	25 A	876.8
01U625C	878.0	30-Aug-88	19 F	867.6	01U626A	877.1	07-May-90	26 A	877.2
01U625C	878.0	23-Nov-88	20 F	868.6	01U626A	877.1	03-Jul-90	27 A	878.0
01U625C	878.0	06-Dec-88	20 A	876.6	01U626A	877.1	02-Oct-90	29 A	878.1
01U625C	878.0	29-Mar-89	21 A	874.7	01U626A	877.1	06-Mar-91	30 A	877.1
01U625C	878.0	07-Jun-89	22 A	875.7	01U626A	877.1	04-Jun-91	31 A	879.0
01U625C	878.0	04-Aug-89	23 F	868.9	01U626A	877.1	03-Sep-91	32 A	877.6
01U625C	878.0	08-Sep-89	23 A	878.0					
01U625C	878.0	03-Nov-89	24 F	868.4	01U626B	877.1	27-Jan-88	17 F	866.0
01U625C	878.0	21-Nov-89	24 A	877.3	01U626B	877.1	14-Apr-88	18 F	865.9
01U625C	878.0	03-Jan-90	25 A	876.6	01U626B	877.1	30-Aug-88	19 F	866.2
01U625C	878.0	07-May-90	26 A	876.8	01U626B	877.1	23-Nov-88	20 F	866.8
01U625C	878.0	03-Jul-90	27 A	878.4	01U626B	877.1	06-Dec-88	20 A	875.7
01U625C	878.0	02-Oct-90	29 A	878.8	01U626B	877.1	29-Mar-89	21 A	874.4
01U625C	878.0	06-Mar-91	30 A	876.7	01U626B	877.1	07-Jun-89	22 A	875.3
01U625C	878.0	04-Jun-91	31 A	879.7	01U626B	877.1	04-Aug-89	23 F	867.6
01U625C	878.0	03-Sep-91	32 A	878.2	01U626B	877.1	08-Sep-89	23 A	876.9
					01U626B	877.1	03-Nov-89	24 F	867.2
01U625D	878.0	28-Jan-88	17 F	867.4	01U626B	877.1	21-Nov-89	24 A	876.6
01U625D	878.0	14-Apr-88	18 F	867.2	01U626B	877.1	03-Jan-90	25 A	875.9
01U625D	878.0	30-Aug-88	19 F	867.6	01U626B	877.1	07-May-90	26 A	876.1
01U625D	878.0	23-Nov-88	20 F	868.6	01U626B	877.1	03-Jul-90	27 A	877.7
01U625D	878.0	06-Dec-88	20 A	876.6	01U626B	877.1	02-Oct-90	29 A	877.9
01U625D	878.0	29-Mar-89	21 A	874.8	01U626B	877.1	06-Mar-91	30 A	876.1
01U625D	878.0	07-Jun-89	22 A	875.7	01U626B	877.1	04-Jun-91	31 A	879.0
01U625D	878.0	04-Aug-89	23 F	868.9	01U626B	877.1	03-Sep-91	32 A	877.4
01U625D	878.0	08-Sep-89	23 A	877.3					
01U625D	878.0	03-Nov-89	24 F	868.4	01U626C	877.1	27-Jan-88	17 F	866.1
01U625D	878.0	21-Nov-89	24 A	877.3	01U626C	877.1	14-Apr-88	18 F	866.0
01U625D	878.0	03-Jan-90	25 A	876.6	01U626C	877.1	30-Aug-88	19 F	866.3
01U625D	878.0	07-May-90	26 A	876.8	01U626C	877.1	23-Nov-88	20 F	866.8
01U625D	878.0	03-Jul-90	27 A	878.4	01U626C	877.1	06-Dec-88	20 A	875.8
01U625D	878.0	02-Oct-90	29 A	878.8	01U626C	877.1	29-Mar-89	21 A	874.5
01U625D	878.0	06-Mar-91	30 A	876.7	01U626C	877.1	07-Jun-89	22 A	875.4
01U625D	878.0	04-Jun-91	31 A	879.7	01U626C	877.1	04-Aug-89	23 F	867.7
01U625D	878.0	03-Sep-91	32 A	878.2	01U626C	877.1	08-Sep-89	23 A	877.0
					01U626C	877.1	03-Nov-89	24 F	867.2
01U626A	877.1	27-Jan-88	17 F	866.4	01U626C	877.1	21-Nov-89	24 A	876.7
01U626A	877.1	14-Apr-88	18 F	865.9	01U626C	877.1	03-Jan-90	25 A	875.9
01U626A	877.1	30-Aug-88	19 F	866.2	01U626C	877.1	07-May-90	26 A	876.1
01U626A	877.1	23-Nov-88	20 F	867.5	01U626C	877.1	03-Jul-90	27 A	877.7
01U626A	877.1	06-Dec-88	20 A	875.6	01U626C	877.1	02-Oct-90	29 A	878.0
01U626A	877.1	29-Mar-89	21 A	874.2	01U626C	877.1	06-Mar-91	30 A	876.1
01U626A	877.1	07-Jun-89	22 A	875.6	01U626C	877.1	04-Jun-91	31 A	879.0
01U626A	877.1	04-Aug-89	23 F	868.1	01U626C	877.1	03-Sep-91	32 A	877.5
01U626A	877.1	08-Sep-89	23 A	877.0					
01U626A	877.1	03-Nov-89	24 F	867.7	01U626D	877.1	27-Jan-88	17 F	866.2
01U626A	877.1	21-Nov-89	24 A	877.0	01U626D	877.1	14-Apr-88	18 F	866.1

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TCAAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U626D	877.1	30-Aug-88	19 F	866.3	01U627B	877.1	03-Jul-90	27 A	878.1
01U626D	877.1	23-Nov-88	20 F	867.4	01U627B	877.1	02-Oct-90	29 A	878.3
01U626D	877.1	06-Dec-88	20 A	875.9	01U627B	877.1	06-Mar-91	30 A	876.4
01U626D	877.1	29-Mar-89	21 A	874.5	01U627B	877.1	04-Jun-91	31 A	879.3
01U626D	877.1	07-Jun-89	22 A	875.4	01U627B	877.1	03-Sep-91	32 A	877.8
01U626D	877.1	04-Aug-89	23 F	867.7					
01U626D	877.1	08-Sep-89	23 A	877.0	01U627C	877.1	27-Jan-88	17 F	867.0
01U626D	877.1	03-Nov-89	24 F	867.3	01U627C	877.1	14-Apr-88	18 F	866.8
01U626D	877.1	21-Nov-89	24 A	876.7	01U627C	877.1	30-Aug-88	19 F	867.1
01U626D	877.1	03-Jan-90	25 A	876.0	01U627C	877.1	23-Nov-88	20 F	868.5
01U626D	877.1	07-May-90	26 A	876.2	01U627C	877.1	06-Dec-88	20 A	876.0
01U626D	877.1	03-Jul-90	27 A	877.8	01U627C	877.1	29-Mar-89	21 A	874.7
01U626D	877.1	02-Oct-90	29 A	878.1	01U627C	877.1	07-Jun-89	22 A	875.6
01U626D	877.1	06-Mar-91	30 A	876.1	01U627C	877.1	04-Aug-89	23 F	868.4
01U626D	877.1	04-Jun-91	31 A	879.1	01U627C	877.1	08-Sep-89	23 A	877.1
01U626D	877.1	03-Sep-91	32 A	877.5	01U627C	877.1	03-Nov-89	24 F	867.9
					01U627C	877.1	21-Nov-89	24 A	876.9
01U627A	877.1	27-Jan-88	17 F	868.0	01U627C	877.1	03-Jan-90	25 A	876.1
01U627A	877.1	14-Apr-88	18 F	867.6	01U627C	877.1	07-May-90	26 A	876.4
01U627A	877.1	30-Aug-88	19 F	867.8	01U627C	877.1	03-Jul-90	27 A	878.0
01U627A	877.1	23-Nov-88	20 F	868.7	01U627C	877.1	02-Oct-90	29 A	878.2
01U627A	877.1	06-Dec-88	20 A	876.6	01U627C	877.1	06-Mar-91	30 A	876.3
01U627A	877.1	29-Mar-89	21 A	874.7	01U627C	877.1	04-Jun-91	31 A	879.2
01U627A	877.1	07-Jun-89	22 A	876.8	01U627C	877.1	03-Sep-91	32 A	877.7
01U627A	877.1	04-Aug-89	23 F	869.8					
01U627A	877.1	08-Sep-89	23 A	877.8	01U627D	877.1	27-Jan-88	17 F	867.0
01U627A	877.1	03-Nov-89	24 F	869.2	01U627D	877.1	14-Apr-88	18 F	866.8
01U627A	877.1	21-Nov-89	24 A	878.1	01U627D	877.1	30-Aug-88	19 F	867.1
01U627A	877.1	03-Jan-90	25 A	878.4	01U627D	877.1	23-Nov-88	20 F	867.4
01U627A	877.1	07-May-90	26 A	878.7	01U627D	877.1	06-Dec-88	20 A	876.1
01U627A	877.1	03-Jul-90	27 A	879.0	01U627D	877.1	29-Mar-89	21 A	874.6
01U627A	877.1	02-Oct-90	29 A	878.9	01U627D	877.1	07-Jun-89	22 A	875.7
01U627A	877.1	06-Mar-91	30 A	878.8	01U627D	877.1	04-Aug-89	23 F	868.4
01U627A	877.1	04-Jun-91	31 A	879.7	01U627D	877.1	08-Sep-89	23 A	877.1
01U627A	877.1	03-Sep-91	32 A	878.6	01U627D	877.1	03-Nov-89	24 F	867.9
					01U627D	877.1	21-Nov-89	24 A	876.8
01U627B	877.1	27-Jan-88	17 F	867.0	01U627D	877.1	03-Jan-90	25 A	876.2
01U627B	877.1	14-Apr-88	18 F	866.9	01U627D	877.1	07-May-90	26 A	876.4
01U627B	877.1	30-Aug-88	19 F	867.1	01U627D	877.1	03-Jul-90	27 A	878.0
01U627B	877.1	23-Nov-88	20 F	868.7	01U627D	877.1	02-Oct-90	29 A	878.2
01U627B	877.1	06-Dec-88	20 A	876.1	01U627D	877.1	06-Mar-91	30 A	876.3
01U627B	877.1	29-Mar-89	21 A	874.7	01U627D	877.1	04-Jun-91	31 A	879.2
01U627B	877.1	07-Jun-89	22 A	875.7	01U627D	877.1	03-Sep-91	32 A	877.7
01U627B	877.1	04-Aug-89	23 F	868.5					
01U627B	877.1	08-Sep-89	23 A	877.2	01U628A	877.8	27-Jan-88	17 F	868.1
01U627B	877.1	03-Nov-89	24 F	867.9	01U628A	877.8	14-Apr-88	18 F	868.0
01U627B	877.1	21-Nov-89	24 A	877.0	01U628A	877.8	30-Aug-88	19 F	868.2
01U627B	877.1	03-Jan-90	25 A	876.2	01U628A	877.8	23-Nov-88	20 F	869.2
01U627B	877.1	07-May-90	26 A	876.5	01U628A	877.8	06-Dec-88	20 A	875.9

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U628A	877.8	29-Mar-89	21 A	875.1	01U628D	877.8	27-Jan-88	17 F	867.6
01U628A	877.8	07-Jun-89	22 A	877.0	01U628D	877.8	14-Apr-88	18 F	867.4
01U628A	877.8	04-Aug-89	23 F	868.5	01U628D	877.8	30-Aug-88	19 F	867.6
01U628A	877.8	08-Sep-89	23 A	877.7	01U628D	877.8	23-Nov-88	20 F	868.8
01U628A	877.8	03-Nov-89	24 F	868.6	01U628D	877.8	06-Dec-88	20 A	875.7
01U628A	877.8	21-Nov-89	24 A	876.1	01U628D	877.8	29-Mar-89	21 A	875.2
01U628A	877.8	03-Jan-90	25 A	875.7	01U628D	877.8	07-Jun-89	22 A	876.6
01U628A	877.8	07-May-90	26 A	876.5	01U628D	877.8	04-Aug-89	23 F	868.9
01U628A	877.8	03-Jul-90	27 A	878.2	01U628D	877.8	08-Sep-89	23 A	877.7
01U628A	877.8	06-Mar-91	30 A	875.8	01U628D	877.8	03-Nov-89	24 F	868.2
01U628A	877.8	04-Jun-91	31 A	878.9	01U628D	877.8	21-Nov-89	24 A	876.2
01U628A	877.8	03-Sep-91	32 A	877.6	01U628D	877.8	03-Jan-90	25 A	875.7
01U628B	877.8	27-Jan-88	17 F	867.9	01U628D	877.8	07-May-90	26 A	876.1
01U628B	877.8	14-Apr-88	18 F	867.7	01U628D	877.8	03-Jul-90	27 A	877.8
01U628B	877.8	30-Aug-88	19 F	867.9	01U628D	877.8	06-Mar-91	30 A	875.9
01U628B	877.8	23-Nov-88	20 F	868.3	01U628D	877.8	04-Jun-91	31 A	878.8
01U628B	877.8	06-Dec-88	20 A	876.0	01U628D	877.8	03-Sep-91	32 A	877.3
01U628B	877.8	29-Mar-89	21 A	875.3	01U634	958.0	15-Dec-87	16 F	951.2
01U628B	877.8	07-Jun-89	22 A	877.0	01U634	958.0	14-Apr-88	18 F	951.3
01U628B	877.8	04-Aug-89	23 F	869.2	01U634	958.0	23-Nov-88	20 F	953.3
01U628B	877.8	08-Sep-89	23 A	877.9	01U634	958.0	12-May-89	22 F	950.2
01U628B	877.8	03-Nov-89	24 F	868.4	01U634	958.0	04-Aug-89	23 F	951.9
01U628B	877.8	21-Nov-89	24 A	876.4	01U636	953.0	14-Dec-87	16 F	939.6
01U628B	877.8	03-Jan-90	25 A	875.9	01U636	953.0	14-Apr-88	18 F	940.0
01U628B	877.8	07-May-90	26 A	876.6	01U636	953.0	30-Aug-88	19 F	939.6
01U628B	877.8	03-Jul-90	27 A	878.2	01U636	953.0	23-Nov-88	20 F	939.6
01U628B	877.8	06-Mar-91	30 A	876.0	01U636	953.0	12-May-89	22 F	941.1
01U628B	877.8	04-Jun-91	31 A	879.0	01U636	953.0	04-Aug-89	23 F	940.4
01U628B	877.8	03-Sep-91	32 A	877.7	01U636	953.0	22-Mar-90	30 A	944.5
01U628C	877.8	27-Jan-88	17 F	867.6	01U636	953.0	11-Sep-90	32 A	944.2
01U628C	877.8	14-Apr-88	18 F	867.4	01U639	958.0	14-Dec-87	16 F	948.5
01U628C	877.8	30-Aug-88	19 F	867.6	01U639	958.0	14-Apr-88	18 F	950.8
01U628C	877.8	23-Nov-88	20 F	868.5	01U639	958.0	23-Nov-88	20 F	952.9
01U628C	877.8	06-Dec-88	20 A	875.7	01U639	958.0	12-May-89	22 F	950.1
01U628C	877.8	29-Mar-89	21 A	875.2	01U639	958.0	22-Mar-90	30 A	952.6
01U628C	877.8	07-Jun-89	22 A	876.6	01U639	958.0	11-Sep-90	32 A	953.0
01U628C	877.8	04-Aug-89	23 F	868.9	01U640	958.0	30-Aug-88	19 F	950.3
01U628C	877.8	08-Sep-89	23 A	877.7	01U640	958.0	23-Nov-88	20 F	950.3
01U628C	877.8	03-Nov-89	24 F	868.2	01U640	958.0	12-May-89	22 F	947.0
01U628C	877.8	21-Nov-89	24 A	876.3	01U640	958.0	04-Aug-89	23 F	950.8
01U628C	877.8	03-Jan-90	25 A	875.7	01U640	958.0	22-Mar-90	30 A	949.5
01U628C	877.8	07-May-90	26 A	876.1	01U640	958.0	11-Sep-90	32 A	950.0
01U628C	877.8	03-Jul-90	27 A	877.8	01U642	958.6	15-Dec-87	16 F	954.4
01U628C	877.8	06-Mar-91	30 A	875.9	01U642	958.6	27-Jan-88	17 F	952.0
01U628C	877.8	04-Jun-91	31 A	878.8					
01U628C	877.8	03-Sep-91	32 A	877.3					

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U642	958.6	14-Apr-88	18 F	954.0	01U808	908.4	14-Dec-87	16 F	891.5
01U642	958.6	30-Aug-88	19 F	953.8	01U808	908.4	26-Jan-88	17 F	891.9
01U642	958.6	23-Nov-88	20 F	955.0	01U808	908.4	13-Apr-88	18 F	891.2
01U642	958.6	04-Aug-89	23 F	951.2	01U808	908.4	30-Aug-88	19 F	890.9
					01U808	908.4	23-Nov-88	20 F	891.0
01U652	957.0	15-Dec-87	16 F	947.9	01U808	908.4	03-Aug-89	23 F	891.3
01U652	957.0	27-Jan-88	17 F	947.3	01U808	908.4	03-Nov-89	24 F	891.0
01U652	957.0	14-Apr-88	18 F	946.2	01U808	908.4	05-Sep-91	32 F	891.6
01U652	957.0	30-Aug-88	19 F	947.4					
01U652	957.0	23-Nov-88	20 F	947.6	01U813	870.3	14-Dec-87	16 F	868.6
01U652	957.0	12-May-89	22 F	943.1	01U813	870.3	13-Apr-88	18 F	868.7
01U652	957.0	04-Aug-89	23 F	947.2	01U813	870.3	30-Aug-88	19 F	866.0
01U652	957.0	03-Nov-89	24 F	947.6	01U813	870.3	23-Nov-88	20 F	867.1
					01U813	870.3	06-Aug-89	23 F	868.1
01U666	959.0	12-May-89	22 F	948.9	01U813	870.3	03-Nov-89	24 F	867.5
01U667	959.4	15-Dec-87	16 F	946.3	01U901	902.0	06-Aug-89	23 F	882.2
01U667	959.4	27-Jan-88	17 F	945.9	01U901	902.0	02-Nov-89	24 F	881.5
01U667	959.4	14-Apr-88	18 F	949.0	01U901	902.0	20-Feb-90	25 F	880.9
01U667	959.4	30-Aug-88	19 F	946.5	01U901	902.0	20-Mar-90	25 F	880.8
01U667	959.4	23-Nov-88	20 F	946.1	01U901	902.0	16-Apr-90	26 F	880.5
					01U901	902.0	30-Apr-90	26 F	880.9
01U668	959.4	04-Aug-89	23 F	949.2	01U901	902.0	22-May-90	26 F	881.2
01U668	959.4	03-Nov-89	24 F	949.9	01U901	902.0	19-Jun-90	26 F	881.7
					01U901	902.0	17-Jul-90	27 F	882.5
01U803	898.2	14-Dec-87	16 F	893.0	01U901	902.0	21-Aug-90	27 F	884.3
01U803	898.2	26-Jan-88	17 F	891.8	01U901	902.0	18-Sep-90	28 F	883.6
01U803	898.2	30-Aug-88	19 F	892.1	01U901	902.0	02-Nov-90	29 F	883.4
01U803	898.2	23-Nov-88	20 F	893.0	01U901	902.0	18-Dec-90	29 F	883.0
01U803	898.2	03-Aug-89	23 F	893.0	01U901	902.0	19-Feb-91	30 F	882.3
01U803	898.2	03-Nov-89	24 F	891.4	01U901	902.0	19-Mar-91	30 F	882.2
01U803	898.2	05-Sep-91	32 F	893.0	01U901	902.0	16-Apr-91	31 F	882.5
					01U901	902.0	18-Jun-91	31 F	884.8
01U805	905.3	14-Dec-87	16 F	901.0	01U901	902.0	18-Jun-91	31 F	884.8
01U805	905.3	26-Jan-88	17 F	899.5	01U901	902.0	30-Jul-91	32 F	885.3
01U805	905.3	13-Apr-88	18 F	901.3	01U901	902.0	19-Aug-91	32 F	885.2
01U805	905.3	30-Aug-88	19 F	899.3					
01U805	905.3	23-Nov-88	20 F	899.4	01U902	901.0	06-Aug-89	23 F	884.4
01U805	905.3	03-Aug-89	23 F	900.4	01U902	901.0	02-Nov-89	24 F	883.6
01U805	905.3	03-Nov-89	24 F	897.1	01U902	901.0	20-Feb-90	25 F	882.7
01U805	905.3	05-Sep-91	32 F	899.8	01U902	901.0	20-Mar-90	25 F	882.5
					01U902	901.0	16-Apr-90	26 F	882.5
01U806	909.8	14-Dec-87	16 F	902.9	01U902	901.0	22-May-90	26 F	882.7
01U806	909.8	27-Jan-88	17 F	901.6	01U902	901.0	19-Jun-90	26 F	883.5
01U806	909.8	13-Apr-88	18 F	901.6	01U902	901.0	17-Jul-90	27 F	884.5
01U806	909.8	30-Aug-88	19 F	901.6	01U902	901.0	21-Aug-90	27 F	885.4
01U806	909.8	03-Aug-89	23 F	902.2	01U902	901.0	18-Sep-90	28 F	885.9
01U806	909.8	03-Nov-89	24 F	901.0	01U902	901.0	02-Nov-90	29 F	885.5
01U806	909.8	05-Sep-91	32 F	903.3					

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U902	901.0	18-Dec-90	29 F	885.3	03F303	922.1	02-May-88	18 A	831.3
01U902	901.0	19-Feb-91	30 F	884.6	03F303	922.1	20-May-88	18 A	829.7
01U902	901.0	19-Mar-91	30 F	884.3	03F303	922.1	23-Jun-88	18 A	836.4
01U902	901.0	16-Apr-91	31 F	884.5	03F303	922.1	27-Jul-88	19 A	825.6
01U902	901.0	05-Jun-91	31 F	886.7	03F303	922.1	30-Aug-88	19 F	852.9
01U902	901.0	18-Jun-91	31 F	887.5	03F303	922.1	01-Sep-88	19 A	847.7
01U902	901.0	18-Jun-91	31 F	887.4	03F303	922.1	21-Sep-88	19 A	847.2
01U902	901.0	30-Jul-91	32 F	888.0	03F303	922.1	14-Oct-88	20 A	828.0
01U902	901.0	19-Aug-91	32 F	887.8	03F303	922.1	02-Dec-88	20 A	849.0
01U902	901.0	03-Sep-91	32 F	887.5	03F303	922.1	13-Jan-89	21 A	828.3
03F302	927.2	24-Nov-87	16 A	850.6	03F303	922.1	31-Mar-89	21 A	827.6
03F302	927.2	30-Nov-87	16 A	844.8	03F303	922.1	07-Jul-89	23 A	829.6
03F302	927.2	14-Dec-87	16 A	844.4	03F303	922.1	04-Aug-89	23 F	828.6
03F302	927.2	15-Dec-87	16 F	844.4	03F303	922.1	05-Oct-89	24 A	828.4
03F302	927.2	11-Jan-88	17 A	844.6	03F303	922.1	02-Nov-89	24 F	828.9
03F302	927.2	28-Jan-88	17 F	837.3	03F303	922.1	21-Dec-89	24 A	830.5
03F302	927.2	14-Apr-88	18 F	865.6	03F303	922.1	11-Jan-90	25 A	828.7
03F302	927.2	02-May-88	18 A	844.8	03F303	922.1	16-May-90	26 A	821.3
03F302	927.2	20-May-88	18 A	844.3	03F303	922.1	16-Jul-90	27 A	821.0
03F302	927.2	23-Jun-88	18 A	843.7	03F303	922.1	28-Feb-91	30 A	820.5
03F302	927.2	27-Jul-88	19 A	842.5	03F303	922.1	03-Jun-91	31 A	817.7
03F302	927.2	30-Aug-88	19 F	860.5	03F303	922.1	03-Sep-91	32 A	810.8
03F302	927.2	01-Sep-88	19 A	840.1	03F303	922.1	27-Sep-91	32 A	806.5
03F302	927.2	21-Sep-88	19 A	847.8	03F304	917.1	24-Nov-87	16 A	848.5
03F302	927.2	14-Oct-88	20 A	840.7	03F304	917.1	30-Nov-87	16 A	849.8
03F302	927.2	25-Nov-88	20 F	863.4	03F304	917.1	14-Dec-87	16 A	848.6
03F302	927.2	02-Dec-88	20 A	849.2	03F304	917.1	15-Dec-87	16 F	848.6
03F302	927.2	13-Jan-89	21 A	839.9	03F304	917.1	11-Jan-88	17 A	848.8
03F302	927.2	31-Mar-89	21 A	848.7	03F304	917.1	28-Jan-88	17 F	849.2
03F302	927.2	07-Jul-89	23 A	837.9	03F304	917.1	14-Apr-88	18 F	856.8
03F302	927.2	04-Aug-89	23 F	837.2	03F304	917.1	02-May-88	18 A	849.1
03F302	927.2	05-Oct-89	24 A	837.1	03F304	917.1	20-May-88	18 A	848.5
03F302	927.2	02-Nov-89	24 F	836.3	03F304	917.1	23-Jun-88	18 A	847.7
03F302	927.2	11-Jan-90	25 A	855.3	03F304	917.1	27-Jul-88	19 A	846.5
03F302	927.2	16-May-90	26 A	836.7	03F304	917.1	30-Aug-88	19 F	851.9
03F302	927.2	16-Jul-90	27 A	835.9	03F304	917.1	01-Sep-88	19 A	847.6
03F302	927.2	28-Feb-91	30 A	836.5	03F304	917.1	21-Sep-88	19 A	847.5
03F302	927.2	03-Jun-91	31 A	835.0	03F304	917.1	14-Oct-88	20 A	846.7
03F302	927.2	03-Sep-91	32 A	835.3	03F304	917.1	25-Nov-88	20 F	851.6
03F302	927.2	27-Sep-91	32 A	835.3	03F304	917.1	02-Dec-88	20 A	848.5
03F303	922.1	24-Nov-87	16 A	829.8	03F304	917.1	13-Jan-89	21 A	847.7
03F303	922.1	30-Nov-87	16 A	829.8	03F304	917.1	31-Mar-89	21 A	842.6
03F303	922.1	14-Dec-87	16 A	830.8	03F304	917.1	07-Jul-89	23 A	841.0
03F303	922.1	15-Dec-87	16 F	830.8	03F304	917.1	04-Aug-89	23 F	841.1
03F303	922.1	28-Jan-88	17 F	847.4	03F304	917.1	05-Oct-89	24 A	840.5
03F303	922.1	14-Apr-88	18 F	857.8	03F304	917.1	02-Nov-89	24 F	840.6
					03F304	917.1	21-Dec-89	24 A	840.1

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
01U902	901.0	18-Dec-90	29 F	885.3	03F303	922.1	02-May-88	18 A	831.3
01U902	901.0	19-Feb-91	30 F	884.6	03F303	922.1	20-May-88	18 A	829.7
01U902	901.0	19-Mar-91	30 F	884.3	03F303	922.1	23-Jun-88	18 A	836.4
01U902	901.0	16-Apr-91	31 F	884.5	03F303	922.1	27-Jul-88	19 A	825.6
01U902	901.0	05-Jun-91	31 F	886.7	03F303	922.1	30-Aug-88	19 F	852.9
01U902	901.0	18-Jun-91	31 F	887.5	03F303	922.1	01-Sep-88	19 A	847.7
01U902	901.0	18-Jun-91	31 F	887.4	03F303	922.1	21-Sep-88	19 A	847.2
01U902	901.0	30-Jul-91	32 F	888.0	03F303	922.1	14-Oct-88	20 A	828.0
01U902	901.0	19-Aug-91	32 F	887.8	03F303	922.1	02-Dec-88	20 A	849.0
01U902	901.0	03-Sep-91	32 F	887.5	03F303	922.1	13-Jan-89	21 A	828.3
					03F303	922.1	31-Mar-89	21 A	827.6
03F302	927.2	24-Nov-87	16 A	850.6	03F303	922.1	07-Jul-89	23 A	829.6
03F302	927.2	30-Nov-87	16 A	844.8	03F303	922.1	04-Aug-89	23 F	828.6
03F302	927.2	14-Dec-87	16 A	844.4	03F303	922.1	05-Oct-89	24 A	828.4
03F302	927.2	15-Dec-87	16 F	844.4	03F303	922.1	02-Nov-89	24 F	828.9
03F302	927.2	11-Jan-88	17 A	844.6	03F303	922.1	21-Dec-89	24 A	830.5
03F302	927.2	28-Jan-88	17 F	837.3	03F303	922.1	11-Jan-90	25 A	828.7
03F302	927.2	14-Apr-88	18 F	865.6	03F303	922.1	16-May-90	26 A	821.3
03F302	927.2	02-May-88	18 A	844.8	03F303	922.1	16-Jul-90	27 A	821.0
03F302	927.2	20-May-88	18 A	844.3	03F303	922.1	28-Feb-91	30 A	820.5
03F302	927.2	23-Jun-88	18 A	843.7	03F303	922.1	03-Jun-91	31 A	817.7
03F302	927.2	27-Jul-88	19 A	842.5	03F303	922.1	03-Sep-91	32 A	810.8
03F302	927.2	30-Aug-88	19 F	860.5	03F303	922.1	27-Sep-91	32 A	806.5
03F302	927.2	01-Sep-88	19 A	840.1					
03F302	927.2	21-Sep-88	19 A	847.8	03F304	917.1	24-Nov-87	16 A	848.5
03F302	927.2	14-Oct-88	20 A	840.7	03F304	917.1	30-Nov-87	16 A	849.8
03F302	927.2	25-Nov-88	20 F	863.4	03F304	917.1	14-Dec-87	16 A	848.6
03F302	927.2	02-Dec-88	20 A	849.2	03F304	917.1	15-Dec-87	16 F	848.6
03F302	927.2	13-Jan-89	21 A	839.9	03F304	917.1	11-Jan-88	17 A	848.8
03F302	927.2	31-Mar-89	21 A	848.7	03F304	917.1	28-Jan-88	17 F	849.2
03F302	927.2	07-Jul-89	23 A	837.9	03F304	917.1	14-Apr-88	18 F	856.8
03F302	927.2	04-Aug-89	23 F	837.2	03F304	917.1	02-May-88	18 A	849.1
03F302	927.2	05-Oct-89	24 A	837.1	03F304	917.1	20-May-88	18 A	848.5
03F302	927.2	02-Nov-89	24 F	836.3	03F304	917.1	23-Jun-88	18 A	847.7
03F302	927.2	11-Jan-90	25 A	855.3	03F304	917.1	27-Jul-88	19 A	846.5
03F302	927.2	16-May-90	26 A	836.7	03F304	917.1	30-Aug-88	19 F	851.9
03F302	927.2	16-Jul-90	27 A	835.9	03F304	917.1	01-Sep-88	19 A	847.6
03F302	927.2	28-Feb-91	30 A	836.5	03F304	917.1	21-Sep-88	19 A	847.5
03F302	927.2	03-Jun-91	31 A	835.0	03F304	917.1	14-Oct-88	20 A	846.7
03F302	927.2	03-Sep-91	32 A	835.3	03F304	917.1	25-Nov-88	20 F	851.6
03F302	927.2	27-Sep-91	32 A	835.3	03F304	917.1	02-Dec-88	20 A	848.5
					03F304	917.1	13-Jan-89	21 A	847.7
03F303	922.1	24-Nov-87	16 A	829.8	03F304	917.1	31-Mar-89	21 A	842.6
03F303	922.1	30-Nov-87	16 A	829.8	03F304	917.1	07-Jul-89	23 A	841.0
03F303	922.1	14-Dec-87	16 A	830.8	03F304	917.1	04-Aug-89	23 F	841.1
03F303	922.1	15-Dec-87	16 F	830.8	03F304	917.1	05-Oct-89	24 A	840.5
03F303	922.1	28-Jan-88	17 F	847.4	03F304	917.1	02-Nov-89	24 F	840.6
03F303	922.1	14-Apr-88	18 F	857.8	03F304	917.1	21-Dec-89	24 A	840.1

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03F304	917.1	11-Jan-90	25 A	840.0	03F306	916.2	25-Nov-88	20 F	858.7
03F304	917.1	16-May-90	26 A	840.2	03F306	916.2	07-Jul-89	23 A	834.5
03F304	917.1	16-Jul-90	27 A	839.7	03F306	916.2	04-Aug-89	23 F	834.4
03F304	917.1	28-Feb-91	30 A	840.5	03F306	916.2	05-Oct-89	24 A	833.1
03F304	917.1	03-Jun-91	31 A	840.0	03F306	916.2	02-Nov-89	24 F	833.5
03F304	917.1	03-Sep-91	32 A	839.7	03F306	916.2	21-Dec-89	24 A	832.5
03F304	917.1	27-Sep-91	32 A	840.1	03F306	916.2	11-Jan-90	25 A	832.8
					03F306	916.2	16-May-90	26 A	832.8
03F305	912.7	24-Nov-87	16 A	844.5	03F306	916.2	16-Jul-90	27 A	832.3
03F305	912.7	30-Nov-87	16 A	844.8	03F306	916.2	28-Feb-91	30 A	833.6
03F305	912.7	14-Dec-87	16 A	844.7	03F306	916.2	03-Jun-91	31 A	832.2
03F305	912.7	15-Dec-87	16 F	844.7	03F306	916.2	03-Sep-91	32 A	831.9
03F305	912.7	11-Jan-88	17 A	844.9	03F306	916.2	27-Sep-91	32 A	832.1
03F305	912.7	28-Jan-88	17 F	844.2					
03F305	912.7	14-Apr-88	18 F	848.3	03F307	912.6	24-Nov-87	16 A	823.7
03F305	912.7	02-May-88	18 A	844.7	03F307	912.6	30-Nov-87	16 A	824.1
03F305	912.7	23-Jun-88	18 A	848.8	03F307	912.6	14-Dec-87	16 A	823.3
03F305	912.7	27-Jul-88	19 A	847.8	03F307	912.6	15-Dec-87	16 F	823.3
03F305	912.7	30-Aug-88	19 F	843.4	03F307	912.6	11-Jan-88	17 A	823.5
03F305	912.7	01-Sep-88	19 A	847.3	03F307	912.6	28-Jan-88	17 F	830.2
03F305	912.7	21-Sep-88	19 A	847.1	03F307	912.6	14-Apr-88	18 F	839.4
03F305	912.7	14-Oct-88	20 A	841.0	03F307	912.6	02-May-88	18 A	824.4
03F305	912.7	02-Dec-88	20 A	848.2	03F307	912.6	20-May-88	18 A	823.2
03F305	912.7	13-Jan-89	21 A	841.7	03F307	912.6	23-Jun-88	18 A	824.6
03F305	912.7	31-Mar-89	21 A	837.5	03F307	912.6	27-Jul-88	19 A	847.0
03F305	912.7	07-Jul-89	23 A	836.3	03F307	912.6	30-Aug-88	19 F	833.9
03F305	912.7	04-Aug-89	23 F	836.5	03F307	912.6	21-Sep-88	19 A	822.2
03F305	912.7	05-Oct-89	24 A	836.2	03F307	912.6	25-Nov-88	20 F	860.6
03F305	912.7	02-Nov-89	24 F	836.9	03F307	912.6	31-Mar-89	21 A	830.8
03F305	912.7	21-Dec-89	24 A	834.5	03F307	912.6	07-Jul-89	23 A	829.3
03F305	912.7	11-Jan-90	25 A	834.3	03F307	912.6	04-Aug-89	23 F	829.5
03F305	912.7	16-May-90	26 A	835.4	03F307	912.6	05-Oct-89	24 A	828.9
03F305	912.7	16-Jul-90	27 A	835.1	03F307	912.6	02-Nov-89	24 F	829.3
03F305	912.7	28-Feb-91	30 A	835.7	03F307	912.6	21-Dec-89	24 A	828.5
03F305	912.7	03-Jun-91	31 A	836.0	03F307	912.6	11-Jan-90	25 A	828.5
03F305	912.7	03-Sep-91	32 A	835.4	03F307	912.6	16-May-90	26 A	827.9
03F305	912.7	27-Sep-91	32 A	835.5	03F307	912.6	16-Jul-90	27 A	828.4
					03F307	912.6	28-Feb-91	30 A	828.5
03F306	916.2	15-Dec-87	16 F	841.7	03F307	912.6	03-Jun-91	31 A	828.6
03F306	916.2	28-Jan-88	17 F	824.9	03F307	912.6	27-Sep-91	32 A	828.1
03F306	916.2	14-Apr-88	18 F	847.7					
03F306	916.2	02-May-88	18 A	841.9	03F308	900.6	02-Dec-88	20 A	846.1
03F306	916.2	20-May-88	18 A	841.2	03F308	900.6	13-Jan-89	21 A	847.1
03F306	916.2	23-Jun-88	18 A	839.3	03F308	900.6	31-Mar-89	21 A	836.1
03F306	916.2	27-Jul-88	19 A	847.6	03F308	900.6	07-Jul-89	23 A	834.4
03F306	916.2	30-Aug-88	19 F	842.1	03F308	900.6	05-Oct-89	24 A	834.0
03F306	916.2	01-Sep-88	19 A	848.5	03F308	900.6	21-Dec-89	24 A	833.7
03F306	916.2	21-Sep-88	19 A	838.2	03F308	900.6	11-Jan-90	25 A	833.5

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03F308	900.6	16-May-90	26 A	832.9	03L001	888.4	28-Feb-91	30 A	842.0
03F308	900.6	16-Jul-90	27 A	831.5	03L001	888.4	03-Jun-91	31 A	841.8
03F308	900.6	28-Feb-91	30 A	832.2	03L001	888.4	03-Sep-91	32 A	840.8
03F308	900.6	03-Jun-91	31 A	827.5	03L001	888.4	27-Sep-91	32 A	841.4
03F308	900.6	27-Sep-91	32 A	824.5					
03F312	942.1	02-Dec-88	20 A	851.6	03L002	919.5	17-Nov-87	16 A	850.7
03F312	942.1	13-Jan-89	21 A	850.9	03L002	919.5	24-Nov-87	16 A	850.3
03F312	942.1	31-Mar-89	21 A	838.0	03L002	919.5	30-Nov-87	16 A	850.7
03F312	942.1	07-Jul-89	23 A	835.3	03L002	919.5	14-Dec-87	16 A	850.4
03F312	942.1	05-Oct-89	24 A	835.1	03L002	919.5	11-Jan-88	17 A	850.7
03F312	942.1	21-Dec-89	24 A	828.7	03L002	919.5	13-Apr-88	18 F	853.1
03F312	942.1	11-Jan-90	25 A	838.6	03L002	919.5	02-May-88	18 A	851.0
03F312	942.1	16-May-90	26 A	839.4	03L002	919.5	20-May-88	18 A	850.4
03F312	942.1	16-Jul-90	27 A	838.8	03L002	919.5	23-Jun-88	18 A	849.4
03F312	942.1	28-Feb-91	30 A	839.0	03L002	919.5	27-Jul-88	19 A	848.4
03F312	942.1	03-Jun-91	31 A	839.4	03L002	919.5	30-Aug-88	19 F	847.9
03F312	942.1	03-Sep-91	32 A	838.9	03L002	919.5	01-Sep-88	19 A	847.9
03F312	942.1	27-Sep-91	32 A	839.0	03L002	919.5	21-Sep-88	19 A	847.6
					03L002	919.5	14-Oct-88	20 A	847.0
03L001	888.4	17-Nov-87	16 A	849.8	03L002	919.5	23-Nov-88	20 F	848.5
03L001	888.4	24-Nov-87	16 A	849.4	03L002	919.5	02-Dec-88	20 A	848.7
03L001	888.4	30-Nov-87	16 A	849.8	03L002	919.5	13-Jan-89	21 A	848.1
03L001	888.4	14-Dec-87	16 F	849.6	03L002	919.5	31-Mar-89	21 A	844.5
03L001	888.4	14-Dec-87	16 A	849.5	03L002	919.5	07-Jul-89	23 A	843.0
03L001	888.4	11-Jan-88	17 A	849.8	03L002	919.5	05-Aug-89	23 F	842.9
03L001	888.4	27-Jan-88	17 F	849.5	03L002	919.5	05-Oct-89	24 A	842.5
03L001	888.4	13-Apr-88	18 F	850.5	03L002	919.5	02-Nov-89	24 F	842.9
03L001	888.4	02-May-88	18 A	849.6	03L002	919.5	21-Dec-89	24 A	841.9
03L001	888.4	20-May-88	18 A	849.0	03L002	919.5	11-Jan-90	25 A	841.8
03L001	888.4	23-Jun-88	18 A	846.5	03L002	919.5	16-May-90	26 A	841.9
03L001	888.4	27-Jul-88	19 A	845.3	03L002	919.5	16-Jul-90	27 A	841.7
03L001	888.4	30-Aug-88	19 F	845.4	03L002	919.5	28-Feb-91	30 A	842.3
03L001	888.4	01-Sep-88	19 A	845.0	03L002	919.5	03-Jun-91	31 A	842.2
03L001	888.4	21-Sep-88	19 A	845.1	03L002	919.5	03-Sep-91	32 A	841.6
03L001	888.4	14-Oct-88	20 A	845.6	03L002	919.5	27-Sep-91	32 A	841.9
03L001	888.4	23-Nov-88	20 F	846.6					
03L001	888.4	02-Dec-88	20 A	846.6	03L003	943.2	17-Nov-87	16 A	852.3
03L001	888.4	13-Jan-89	21 A	846.7	03L003	943.2	24-Nov-87	16 A	852.2
03L001	888.4	31-Mar-89	21 A	843.8	03L003	943.2	30-Nov-87	16 A	852.2
03L001	888.4	07-Jul-89	23 A	841.5	03L003	943.2	14-Dec-87	16 F	852.1
03L001	888.4	05-Aug-89	23 F	841.4	03L003	943.2	14-Dec-87	16 A	852.0
03L001	888.4	05-Oct-89	24 A	841.3	03L003	943.2	11-Jan-88	17 A	852.2
03L001	888.4	02-Nov-89	24 F	841.4	03L003	943.2	26-Jan-88	17 F	852.2
03L001	888.4	21-Dec-89	24 A	841.2	03L003	943.2	14-Apr-88	18 F	853.9
03L001	888.4	11-Jan-90	25 A	841.2	03L003	943.2	02-May-88	18 A	852.8
03L001	888.4	16-May-90	26 A	841.4	03L003	943.2	20-May-88	18 A	852.2
03L001	888.4	16-Jul-90	27 A	841.1	03L003	943.2	23-Jun-88	18 A	851.5
					03L003	943.2	27-Jul-88	19 A	850.1

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L003	943.2	30-Aug-88	19 F	849.1					
03L003	943.2	01-Sep-88	19 A	848.8	03L005	971.5	30-Nov-87	16 A	854.6
03L003	943.2	21-Sep-88	19 A	848.6	03L005	971.5	14-Dec-87	16 A	854.4
03L003	943.2	14-Oct-88	20 A	848.3	03L005	971.5	14-Dec-87	16 F	857.2
03L003	943.2	02-Dec-88	20 A	849.5	03L005	971.5	26-Jan-88	17 F	857.3
03L003	943.2	13-Jan-89	21 A	849.0	03L005	971.5	14-Apr-88	18 F	857.6
03L003	943.2	31-Mar-89	21 A	845.2	03L005	971.5	02-May-88	18 A	854.8
03L003	943.2	07-Jul-89	23 A	843.7	03L005	971.5	20-May-88	18 A	854.4
03L003	943.2	05-Aug-89	23 F	843.9	03L005	971.5	23-Jun-88	18 A	852.7
03L003	943.2	05-Oct-89	24 A	843.0	03L005	971.5	27-Jul-88	19 A	851.7
03L003	943.2	02-Nov-89	24 F	843.9	03L005	971.5	30-Aug-88	19 F	853.6
03L003	943.2	21-Dec-89	24 A	843.7	03L005	971.5	01-Sep-88	19 A	850.7
03L003	943.2	11-Jan-90	25 A	843.1	03L005	971.5	21-Sep-88	19 A	850.4
03L003	943.2	16-May-90	26 A	843.2	03L005	971.5	14-Oct-88	20 A	850.0
03L003	943.2	16-Jul-90	27 A	842.9	03L005	971.5	23-Nov-88	20 F	853.1
03L003	943.2	28-Feb-91	30 A	843.6	03L005	971.5	02-Dec-88	20 A	850.1
03L003	943.2	03-Jun-91	31 A	843.3	03L005	971.5	13-Jan-89	21 A	850.6
03L003	943.2	03-Sep-91	32 A	842.9	03L005	971.5	31-Mar-89	21 A	849.4
03L003	943.2	27-Sep-91	32 A	843.1	03L005	971.5	05-Aug-89	23 F	851.0
					03L005	971.5	05-Oct-89	24 A	847.5
03L004	950.7	17-Nov-87	16 A	855.7	03L005	971.5	03-Nov-89	24 F	850.4
03L004	950.7	24-Nov-87	16 A	855.4	03L005	971.5	21-Dec-89	24 A	846.9
03L004	950.7	30-Nov-87	16 A	855.6	03L005	971.5	11-Jan-90	25 A	846.9
03L004	950.7	14-Dec-87	16 F	855.4	03L005	971.5	24-Apr-90	26 F	849.9
03L004	950.7	14-Dec-87	16 A	855.3	03L005	971.5	16-May-90	26 A	846.7
03L004	950.7	11-Jan-88	17 A	855.7	03L005	971.5	28-Feb-91	30 A	847.7
03L004	950.7	26-Jan-88	17 F	855.6	03L005	971.5	29-Mar-91	30 F	849.9
03L004	950.7	14-Apr-88	18 F	856.3	03L005	971.5	27-Sep-91	32 A	847.2
03L004	950.7	02-May-88	18 A	855.9					
03L004	950.7	20-May-88	18 A	855.5	03L007	901.7	24-Nov-87	16 A	859.1
03L004	950.7	23-Jun-88	18 A	854.5	03L007	901.7	14-Dec-87	16 A	859.4
03L004	950.7	27-Jul-88	19 A	853.1	03L007	901.7	14-Dec-87	16 F	859.3
03L004	950.7	30-Aug-88	19 F	852.2	03L007	901.7	11-Jan-88	17 A	859.8
03L004	950.7	01-Sep-88	19 A	851.9	03L007	901.7	26-Jan-88	17 F	859.5
03L004	950.7	21-Sep-88	19 A	851.6	03L007	901.7	13-Apr-88	18 F	859.9
03L004	950.7	14-Oct-88	20 A	851.5	03L007	901.7	02-May-88	18 A	859.3
03L004	950.7	23-Nov-88	20 F	851.7	03L007	901.7	20-May-88	18 A	859.0
03L004	950.7	02-Dec-88	20 A	851.8	03L007	901.7	23-Jun-88	18 A	856.6
03L004	950.7	13-Jan-89	21 A	852.1	03L007	901.7	27-Jul-88	19 A	855.2
03L004	950.7	31-Mar-89	21 A	850.7	03L007	901.7	30-Aug-88	19 F	854.9
03L004	950.7	05-Aug-89	23 F	849.6	03L007	901.7	01-Sep-88	19 A	855.0
03L004	950.7	05-Oct-89	24 A	848.4	03L007	901.7	21-Sep-88	19 A	854.5
03L004	950.7	04-Nov-89	24 F	848.4	03L007	901.7	14-Oct-88	20 A	854.9
03L004	950.7	21-Dec-89	24 A	848.1	03L007	901.7	23-Nov-88	20 F	855.4
03L004	950.7	11-Jan-90	25 A	847.9	03L007	901.7	02-Dec-88	20 A	855.5
03L004	950.7	16-May-90	26 A	847.8	03L007	901.7	13-Jan-89	21 A	855.7
03L004	950.7	28-Feb-91	30 A	848.4	03L007	901.7	31-Mar-89	21 A	855.1
03L004	950.7	27-Sep-91	32 A	847.9	03L007	901.7	05-Aug-89	23 F	852.5

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TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L007	901.7	05-Oct-89	24 A	852.5	03L012	879.9	20-May-88	18 A	858.8
03L007	901.7	02-Nov-89	24 F	852.6	03L012	879.9	23-Jun-88	18 A	854.7
03L007	901.7	21-Dec-89	24 A	852.6	03L012	879.9	27-Jul-88	19 A	853.5
03L007	901.7	11-Jan-90	25 A	852.5	03L012	879.9	30-Aug-88	19 F	854.4
03L007	901.7	23-Apr-90	26 F	852.0	03L012	879.9	01-Sep-88	19 A	854.4
03L007	901.7	16-May-90	26 A	852.1	03L012	879.9	21-Sep-88	19 A	854.6
03L007	901.7	16-Jul-90	27 A	851.9	03L012	879.9	14-Oct-88	20 A	855.3
03L007	901.7	19-Jul-90	27 F	852.0	03L012	879.9	23-Nov-88	20 F	855.8
03L007	901.7	28-Feb-91	30 A	853.2	03L012	879.9	02-Dec-88	20 A	855.7
03L007	901.7	28-Mar-91	30 F	852.7	03L012	879.9	13-Jan-89	21 A	856.3
03L007	901.7	03-Jun-91	31 A	852.8	03L012	879.9	31-Mar-89	21 A	856.5
03L007	901.7	03-Sep-91	32 A	852.3	03L012	879.9	05-Aug-89	23 F	852.7
03L007	901.7	27-Sep-91	32 A	852.4	03L012	879.9	05-Oct-89	24 A	853.2
03L010	888.9	24-Nov-87	16 A	865.4	03L012	879.9	02-Nov-89	24 F	853.5
03L010	888.9	14-Dec-87	16 A	865.6	03L012	879.9	21-Dec-89	24 A	853.9
03L010	888.9	11-Jan-88	17 A	866.0	03L012	879.9	11-Jan-90	25 A	854.1
03L010	888.9	26-Jan-88	17 F	865.8	03L012	879.9	16-May-90	26 A	853.7
03L010	888.9	13-Apr-88	18 F	865.6	03L012	879.9	16-Jul-90	27 A	853.7
03L010	888.9	02-May-88	18 A	864.7	03L012	879.9	28-Feb-91	30 A	854.9
03L010	888.9	20-May-88	18 A	864.2	03L012	879.9	03-Jun-91	31 A	855.2
03L010	888.9	23-Jun-88	18 A	858.9	03L012	879.9	03-Sep-91	32 A	853.9
03L010	888.9	27-Jul-88	19 A	857.4	03L012	879.9	27-Sep-91	32 A	855.0
03L010	888.9	30-Aug-88	19 F	859.2	03L013	889.7	17-Nov-87	16 A	852.6
03L010	888.9	01-Sep-88	19 A	859.3	03L013	889.7	24-Nov-87	16 A	852.3
03L010	888.9	21-Sep-88	19 A	859.7	03L013	889.7	14-Dec-87	16 A	852.5
03L010	888.9	14-Oct-88	20 A	860.7	03L013	889.7	14-Dec-87	16 F	852.4
03L010	888.9	23-Nov-88	20 F	861.4	03L013	889.7	11-Jan-88	17 A	852.0
03L010	888.9	02-Dec-88	20 A	861.5	03L013	889.7	27-Jan-88	17 F	852.4
03L010	888.9	13-Jan-89	21 A	861.6	03L013	889.7	13-Apr-88	18 F	853.0
03L010	888.9	31-Mar-89	21 A	862.7	03L013	889.7	02-May-88	18 A	852.3
03L010	888.9	05-Aug-89	23 F	857.9	03L013	889.7	20-May-88	18 A	851.8
03L010	888.9	05-Oct-89	24 A	859.1	03L013	889.7	23-Jun-88	18 A	848.9
03L010	888.9	02-Nov-89	24 F	859.5	03L013	889.7	27-Jul-88	19 A	847.7
03L010	888.9	21-Dec-89	24 A	860.1	03L013	889.7	30-Aug-88	19 F	848.0
03L010	888.9	11-Jan-90	25 A	860.2	03L013	889.7	01-Sep-88	19 A	847.8
03L010	888.9	27-Apr-90	26 F	859.8	03L013	889.7	21-Sep-88	19 A	847.7
03L010	888.9	01-Apr-91	30 F	861.4	03L013	889.7	14-Oct-88	20 A	848.2
03L010	888.9	27-Sep-91	32 A	861.9	03L013	889.7	23-Nov-88	20 F	848.9
03L012	879.9	17-Nov-87	16 A	859.7	03L013	889.7	02-Dec-88	20 A	848.9
03L012	879.9	24-Nov-87	16 A	859.6	03L013	889.7	13-Jan-89	21 A	849.5
03L012	879.9	14-Dec-87	16 A	859.9	03L013	889.7	31-Mar-89	21 A	847.9
03L012	879.9	14-Dec-87	16 F	859.8	03L013	889.7	05-Aug-89	23 F	845.0
03L012	879.9	11-Jan-88	17 A	860.1	03L013	889.7	05-Oct-89	24 A	845.1
03L012	879.9	27-Jan-88	17 F	860.2	03L013	889.7	02-Nov-89	24 F	845.2
03L012	879.9	13-Apr-88	18 F	859.8	03L013	889.7	21-Dec-89	24 A	845.3
03L012	879.9	02-May-88	18 A	859.3	03L013	889.7	11-Jan-90	25 A	845.6
					03L013	889.7	27-Apr-90	26 F	766.4

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L013	889.7	16-May-90	26 A	845.4	03L017	939.2	02-Dec-88	20 A	850.7
03L013	889.7	28-Feb-91	30 A	846.2	03L017	939.2	13-Jan-89	21 A	851.0
03L013	889.7	27-Sep-91	32 A	845.8	03L017	939.2	31-Mar-89	21 A	849.2
03L014	989.5	17-Nov-87	16 A	856.9	03L017	939.2	05-Oct-89	24 A	847.1
03L014	989.5	24-Nov-87	16 A	856.7	03L017	939.2	04-Nov-89	24 F	846.8
03L014	989.5	14-Dec-87	16 A	857.0	03L017	939.2	21-Dec-89	24 A	846.3
03L014	989.5	15-Dec-87	16 F	857.0	03L017	939.2	11-Jan-90	25 A	846.3
03L014	989.5	11-Jan-88	17 A	857.1	03L017	939.2	16-May-90	26 A	846.4
03L014	989.5	26-Jan-88	17 F	857.1	03L017	939.2	28-Feb-91	30 A	847.1
03L014	989.5	14-Apr-88	18 F	857.3	03L017	939.2	27-Sep-91	32 A	846.8
03L014	989.5	02-May-88	18 A	857.2	03L018	989.1	24-Nov-87	16 A	856.4
03L014	989.5	20-May-88	18 A	858.0	03L018	989.1	30-Nov-87	16 A	856.4
03L014	989.5	23-Jun-88	18 A	855.5	03L018	989.1	14-Dec-87	16 A	856.5
03L014	989.5	27-Jul-88	19 A	854.0	03L018	989.1	11-Jan-88	17 A	856.7
03L014	989.5	30-Aug-88	19 F	853.0	03L018	989.1	27-Jan-88	17 F	856.7
03L014	989.5	01-Sep-88	19 A	853.0	03L018	989.1	14-Apr-88	18 F	856.9
03L014	989.5	21-Sep-88	19 A	852.8	03L018	989.1	02-May-88	18 A	856.8
03L014	989.5	14-Oct-88	20 A	852.6	03L018	989.1	20-May-88	18 A	856.4
03L014	989.5	23-Nov-88	20 F	853.8	03L018	989.1	23-Jun-88	18 A	855.1
03L014	989.5	02-Dec-88	20 A	852.9	03L018	989.1	27-Jul-88	19 A	853.6
03L014	989.5	13-Jan-89	21 A	853.0	03L018	989.1	30-Aug-88	19 F	852.6
03L014	989.5	31-Mar-89	21 A	852.3	03L018	989.1	01-Sep-88	19 A	852.6
03L014	989.5	05-Aug-89	23 F	850.7	03L018	989.1	21-Sep-88	19 A	852.4
03L014	989.5	05-Oct-89	24 A	850.0	03L018	989.1	14-Oct-88	20 A	852.2
03L014	989.5	02-Nov-89	24 F	849.8	03L018	989.1	23-Nov-88	20 F	852.4
03L014	989.5	21-Dec-89	24 A	849.8	03L018	989.1	02-Dec-88	20 A	852.5
03L014	989.5	11-Jan-90	25 A	849.6	03L018	989.1	13-Jan-89	21 A	852.7
03L014	989.5	16-May-90	26 A	849.5	03L018	989.1	31-Mar-89	21 A	851.8
03L014	989.5	28-Feb-91	30 A	850.3	03L018	989.1	05-Aug-89	23 F	850.1
03L014	989.5	03-Jun-91	31 A	850.2	03L018	989.1	05-Oct-89	24 A	849.6
03L014	989.5	03-Sep-91	32 A	849.6	03L018	989.1	04-Nov-89	24 F	849.4
03L014	989.5	27-Sep-91	32 A	849.9	03L018	989.1	21-Dec-89	24 A	849.1
03L017	939.2	17-Nov-87	16 A	854.3	03L018	989.1	11-Jan-90	25 A	849.1
03L017	939.2	24-Nov-87	16 A	854.0	03L018	989.1	16-May-90	26 A	849.0
03L017	939.2	14-Dec-87	16 A	854.4	03L018	989.1	28-Feb-91	30 A	849.8
03L017	939.2	27-Jan-88	17 F	854.3	03L018	989.1	27-Sep-91	32 A	849.4
03L017	939.2	13-Apr-88	18 F	855.1	03L020	954.3	17-Nov-87	16 A	854.5
03L017	939.2	02-May-88	18 A	854.5	03L020	954.3	24-Nov-87	16 A	854.4
03L017	939.2	20-May-88	18 A	854.0	03L020	954.3	30-Nov-87	16 A	854.4
03L017	939.2	23-Jun-88	18 A	852.8	03L020	954.3	14-Dec-87	16 A	854.3
03L017	939.2	27-Jul-88	19 A	851.2	03L020	954.3	11-Jan-88	17 A	854.5
03L017	939.2	30-Aug-88	19 F	850.5	03L020	954.3	27-Jan-88	17 F	854.6
03L017	939.2	01-Sep-88	19 A	850.2	03L020	954.3	14-Apr-88	18 F	855.4
03L017	939.2	21-Sep-88	19 A	850.2	03L020	954.3	02-May-88	18 A	854.9
03L017	939.2	14-Oct-88	20 A	850.0	03L020	954.3	20-May-88	18 A	854.4
03L017	939.2	23-Nov-88	20 F	850.6	03L020	954.3	23-Jun-88	18 A	853.4

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L020	954.3	27-Jul-88	19 A	851.9					
03L020	954.3	30-Aug-88	19 F	850.8	03L027	966.5	17-Nov-87	16 A	854.8
03L020	954.3	01-Sep-88	19 A	850.7	03L027	966.5	24-Nov-87	16 A	854.6
03L020	954.3	21-Sep-88	19 A	850.6	03L027	966.5	30-Nov-87	16 A	854.7
03L020	954.3	14-Oct-88	20 A	850.3	03L027	966.5	14-Dec-87	16 A	854.6
03L020	954.3	23-Nov-88	20 F	850.8	03L027	966.5	11-Jan-88	17 A	854.8
03L020	954.3	02-Dec-88	20 A	851.0	03L027	966.5	27-Jan-88	17 F	854.7
03L020	954.3	13-Jan-89	21 A	851.1	03L027	966.5	14-Apr-88	18 F	855.6
03L020	954.3	31-Mar-89	21 A	849.3	03L027	966.5	02-May-88	18 A	855.1
03L020	954.3	07-Jul-89	23 A	848.1	03L027	966.5	20-May-88	18 A	854.6
03L020	954.3	05-Aug-89	23 F	847.8	03L027	966.5	23-Jun-88	18 A	853.7
03L020	954.3	05-Oct-89	24 A	847.1	03L027	966.5	27-Jul-88	19 A	852.2
03L020	954.3	04-Nov-89	24 F	848.2	03L027	966.5	30-Aug-88	19 F	851.1
03L020	954.3	21-Dec-89	24 A	846.6	03L027	966.5	01-Sep-88	19 A	851.1
03L020	954.3	11-Jan-90	25 A	846.6	03L027	966.5	21-Sep-88	19 A	850.8
03L020	954.3	16-May-90	26 A	846.6	03L027	966.5	14-Oct-88	20 A	850.5
03L020	954.3	16-Jul-90	27 A	846.4	03L027	966.5	23-Nov-88	20 F	850.9
03L020	954.3	28-Feb-91	30 A	847.2	03L027	966.5	02-Dec-88	20 A	851.2
03L020	954.3	03-Jun-91	31 A	847.1	03L027	966.5	13-Jan-89	21 A	851.5
03L020	954.3	03-Sep-91	32 A	846.6	03L027	966.5	31-Mar-89	21 A	849.6
03L020	954.3	27-Sep-91	32 A	846.8	03L027	966.5	05-Aug-89	23 F	842.1
					03L027	966.5	05-Oct-89	24 A	847.4
03L021	943.9	24-Nov-87	16 A	852.5	03L027	966.5	04-Nov-89	24 F	847.3
03L021	943.9	14-Dec-87	16 A	852.4	03L027	966.5	21-Dec-89	24 A	847.1
03L021	943.9	15-Dec-87	16 F	852.3	03L027	966.5	11-Jan-90	25 A	846.9
03L021	943.9	11-Jan-88	17 A	852.6	03L027	966.5	16-May-90	26 A	846.9
03L021	943.9	28-Jan-88	17 F	852.5	03L027	966.5	28-Feb-91	30 A	847.4
03L021	943.9	14-Apr-88	18 F	854.2	03L027	966.5	27-Sep-91	32 A	847.0
03L021	943.9	02-May-88	18 A	852.9					
03L021	943.9	20-May-88	18 A	852.3	03L028	956.3	17-Nov-87	16 A	854.2
03L021	943.9	23-Jun-88	18 A	851.4	03L028	956.3	30-Nov-87	16 A	854.1
03L021	943.9	27-Jul-88	19 A	850.0	03L028	956.3	14-Dec-87	16 F	854.3
03L021	943.9	30-Aug-88	19 F	849.1	03L028	956.3	14-Dec-87	16 A	854.1
03L021	943.9	01-Sep-88	19 A	849.1	03L028	956.3	11-Jan-88	17 A	854.3
03L021	943.9	21-Sep-88	19 A	848.9	03L028	956.3	27-Jan-88	17 F	854.4
03L021	943.9	14-Oct-88	20 A	848.5	03L028	956.3	14-Apr-88	18 F	855.5
03L021	943.9	23-Nov-88	20 F	849.5	03L028	956.3	02-May-88	18 A	854.6
03L021	943.9	02-Dec-88	20 A	849.7	03L028	956.3	20-May-88	18 A	854.1
03L021	943.9	13-Jan-89	21 A	849.5	03L028	956.3	23-Jun-88	18 A	853.2
03L021	943.9	31-Mar-89	21 A	846.9	03L028	956.3	27-Jul-88	19 A	851.2
03L021	943.9	05-Aug-89	23 F	845.2	03L028	956.3	30-Aug-88	19 F	851.0
03L021	943.9	05-Oct-89	24 A	844.9	03L028	956.3	01-Sep-88	19 A	850.6
03L021	943.9	04-Nov-89	24 F	844.7	03L028	956.3	21-Sep-88	19 A	850.3
03L021	943.9	21-Dec-89	24 A	844.3	03L028	956.3	14-Oct-88	20 A	850.1
03L021	943.9	11-Jan-90	25 A	844.2	03L028	956.3	23-Nov-88	20 F	851.0
03L021	943.9	16-May-90	26 A	844.2	03L028	956.3	02-Dec-88	20 A	850.6
03L021	943.9	28-Feb-91	30 A	844.7	03L028	956.3	13-Jan-89	21 A	850.8
03L021	943.9	27-Sep-91	32 A	844.1	03L028	956.3	31-Mar-89	21 A	848.9

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L028	956.3	05-Aug-89	23 F	847.8	03L077	911.9	21-Sep-88	19 A	846.2
03L028	956.3	05-Oct-89	24 A	846.8	03L077	911.9	14-Oct-88	20 A	845.6
03L028	956.3	02-Nov-89	24 F	846.9	03L077	911.9	23-Nov-88	20 F	847.4
03L028	956.3	21-Dec-89	24 A	846.5	03L077	911.9	02-Dec-88	20 A	847.6
03L028	956.3	11-Jan-90	25 A	846.3	03L077	911.9	13-Jan-89	21 A	847.4
03L028	956.3	16-May-90	26 A	846.2	03L077	911.9	31-Mar-89	21 A	843.9
03L028	956.3	28-Feb-91	30 A	846.7	03L077	911.9	05-Aug-89	23 F	840.7
03L028	956.3	27-Sep-91	32 A	846.3	03L077	911.9	05-Oct-89	24 A	840.3
					03L077	911.9	02-Nov-89	24 F	840.1
03L029	954.3	30-Nov-87	16 A	853.4	03L077	911.9	21-Dec-89	24 A	839.7
03L029	954.3	14-Dec-87	16 A	853.4	03L077	911.9	11-Jan-90	25 A	839.7
03L029	954.3	15-Dec-87	16 F	853.4	03L077	911.9	16-May-90	26 A	839.8
03L029	954.3	11-Jan-88	17 A	853.7	03L077	911.9	28-Feb-91	30 A	840.3
03L029	954.3	27-Jan-88	17 F	853.4	03L077	911.9	27-Sep-91	32 A	839.8
03L029	954.3	14-Apr-88	18 F	854.9					
03L029	954.3	02-May-88	18 A	853.9	03L078	927.4	17-Nov-87	16 A	850.5
03L029	954.3	20-May-88	18 A	853.4	03L078	927.4	24-Nov-87	16 A	850.3
03L029	954.3	23-Jun-88	18 A	852.7	03L078	927.4	30-Nov-87	16 A	850.4
03L029	954.3	27-Jul-88	19 A	851.1	03L078	927.4	14-Dec-87	16 A	850.2
03L029	954.3	30-Aug-88	19 F	850.2	03L078	927.4	14-Dec-87	16 F	850.3
03L029	954.3	01-Sep-88	19 A	849.9	03L078	927.4	11-Jan-88	17 A	850.7
03L029	954.3	21-Sep-88	19 A	849.8	03L078	927.4	27-Jan-88	17 F	850.6
03L029	954.3	14-Oct-88	20 A	849.5	03L078	927.4	13-Apr-88	18 F	853.5
03L029	954.3	23-Nov-88	20 F	850.2	03L078	927.4	02-May-88	18 A	850.9
03L029	954.3	02-Dec-88	20 A	850.1	03L078	927.4	20-May-88	18 A	850.3
03L029	954.3	13-Jan-89	21 A	850.2	03L078	927.4	23-Jun-88	18 A	849.6
03L029	954.3	31-Mar-89	21 A	847.7	03L078	927.4	27-Jul-88	19 A	848.2
03L029	954.3	05-Oct-89	24 A	845.7	03L078	927.4	30-Aug-88	19 F	847.4
03L029	954.3	21-Dec-89	24 A	845.5	03L078	927.4	01-Sep-88	19 A	848.1
03L029	954.3	11-Jan-90	25 A	957.0	03L078	927.4	21-Sep-88	19 A	847.9
03L029	954.3	16-May-90	26 A	845.2	03L078	927.4	14-Oct-88	20 A	847.0
03L029	954.3	28-Feb-91	30 A	845.7	03L078	927.4	23-Nov-88	20 F	848.9
03L029	954.3	27-Sep-91	32 A	845.2	03L078	927.4	02-Dec-88	20 A	848.9
					03L078	927.4	13-Jan-89	21 A	848.0
03L077	911.9	17-Nov-87	16 A	848.9	03L078	927.4	31-Mar-89	21 A	844.6
03L077	911.9	24-Nov-87	16 A	848.7	03L078	927.4	05-Aug-89	23 F	843.1
03L077	911.9	30-Nov-87	16 A	849.9	03L078	927.4	05-Oct-89	24 A	842.8
03L077	911.9	14-Dec-87	16 F	848.5	03L078	927.4	02-Nov-89	24 F	842.5
03L077	911.9	14-Dec-87	16 A	848.7	03L078	927.4	21-Dec-89	24 A	842.2
03L077	911.9	11-Jan-88	17 A	848.9	03L078	927.4	11-Jan-90	25 A	841.9
03L077	911.9	27-Jan-88	17 F	848.7	03L078	927.4	16-May-90	26 A	841.8
03L077	911.9	13-Apr-88	18 F	852.7	03L078	927.4	28-Feb-91	30 A	842.3
03L077	911.9	02-May-88	18 A	849.1	03L078	927.4	27-Sep-91	32 A	841.9
03L077	911.9	20-May-88	18 A	848.5					
03L077	911.9	23-Jun-88	18 A	847.1	03L079	923.3	17-Nov-87	16 A	850.6
03L077	911.9	27-Jul-88	19 A	847.4	03L079	923.3	24-Nov-87	16 A	851.3
03L077	911.9	30-Aug-88	19 F	845.2	03L079	923.3	30-Nov-87	16 A	850.6
03L077	911.9	01-Sep-88	19 A	846.5	03L079	923.3	14-Dec-87	16 A	850.4

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L079	923.3	14-Dec-87	16 F	850.0	03L080	960.8	16-May-90	26 A	847.9
03L079	923.3	11-Jan-88	17 A	850.7	03L080	960.8	28-Feb-91	30 A	848.4
03L079	923.3	27-Jan-88	17 F	850.1	03L080	960.8	27-Sep-91	32 A	848.0
03L079	923.3	14-Apr-88	18 F	853.2					
03L079	923.3	02-May-88	18 A	851.0	03L081	946.5	14-Dec-87	16 F	857.5
03L079	923.3	20-May-88	18 A	850.5	03L081	946.5	14-Dec-87	16 A	857.4
03L079	923.3	23-Jun-88	18 A	849.8	03L081	946.5	11-Jan-88	17 A	857.7
03L079	923.3	27-Jul-88	19 A	848.3	03L081	946.5	27-Jan-88	17 F	857.7
03L079	923.3	30-Aug-88	19 F	846.9	03L081	946.5	14-Apr-88	18 F	857.9
03L079	923.3	01-Sep-88	19 A	847.3	03L081	946.5	02-May-88	18 A	857.6
03L079	923.3	21-Sep-88	19 A	848.1	03L081	946.5	20-May-88	18 A	857.3
03L079	923.3	14-Oct-88	20 A	846.7	03L081	946.5	23-Jun-88	18 A	855.9
03L079	923.3	23-Nov-88	20 F	848.5	03L081	946.5	27-Jul-88	19 A	854.4
03L079	923.3	02-Dec-88	20 A	849.2	03L081	946.5	30-Aug-88	19 F	854.7
03L079	923.3	13-Jan-89	21 A	847.4	03L081	946.5	01-Sep-88	19 A	853.5
03L079	923.3	31-Mar-89	21 A	844.4	03L081	946.5	21-Sep-88	19 A	853.2
03L079	923.3	05-Aug-89	23 F	842.6	03L081	946.5	14-Oct-88	20 A	853.1
03L079	923.3	05-Oct-89	24 A	842.6	03L081	946.5	23-Nov-88	20 F	853.3
03L079	923.3	02-Nov-89	24 F	841.7	03L081	946.5	02-Dec-88	20 A	853.4
03L079	923.3	21-Dec-89	24 A	843.1	03L081	946.5	13-Jan-89	21 A	853.7
03L079	923.3	11-Jan-90	25 A	841.8	03L081	946.5	31-Mar-89	21 A	853.0
03L079	923.3	16-May-90	26 A	841.8	03L081	946.5	05-Aug-89	23 F	851.4
03L079	923.3	28-Feb-91	30 A	842.2	03L081	946.5	05-Oct-89	24 A	850.6
03L079	923.3	27-Sep-91	32 A	841.8	03L081	946.5	04-Nov-89	24 F	850.8
					03L081	946.5	21-Dec-89	24 A	850.5
03L080	960.8	30-Nov-87	16 A	855.5	03L081	946.5	11-Jan-90	25 A	850.3
03L080	960.8	14-Dec-87	16 A	854.7	03L081	946.5	16-May-90	26 A	850.2
03L080	960.8	14-Dec-87	16 F	854.6	03L081	946.5	28-Feb-91	30 A	851.0
03L080	960.8	11-Jan-88	17 A	855.7	03L081	946.5	29-Mar-91	30 F	850.7
03L080	960.8	27-Jan-88	17 F	855.6	03L081	946.5	27-Sep-91	32 A	850.5
03L080	960.8	14-Apr-88	18 F	856.3					
03L080	960.8	02-May-88	18 A	855.9	03L084	898.2	14-Dec-87	16 F	850.2
03L080	960.8	20-May-88	18 A	855.5	03L084	898.2	26-Jan-88	17 F	850.1
03L080	960.8	23-Jun-88	18 A	854.5	03L084	898.2	14-Apr-88	18 F	851.6
03L080	960.8	27-Jul-88	19 A	853.0	03L084	898.2	02-May-88	18 A	850.6
03L080	960.8	30-Aug-88	19 F	851.9	03L084	898.2	20-May-88	18 A	850.0
03L080	960.8	01-Sep-88	19 A	851.9	03L084	898.2	23-Jun-88	18 A	848.3
03L080	960.8	21-Sep-88	19 A	851.6	03L084	898.2	27-Jul-88	19 A	846.9
03L080	960.8	14-Oct-88	20 A	851.4	03L084	898.2	30-Aug-88	19 F	847.5
03L080	960.8	23-Nov-88	20 F	851.5	03L084	898.2	01-Sep-88	19 A	846.5
03L080	960.8	02-Dec-88	20 A	851.9	03L084	898.2	21-Sep-88	19 A	846.4
03L080	960.8	13-Jan-89	21 A	852.1	03L084	898.2	14-Oct-88	20 A	846.5
03L080	960.8	31-Mar-89	21 A	850.6	03L084	898.2	23-Nov-88	20 F	847.1
03L080	960.8	05-Aug-89	23 F	849.1	03L084	898.2	02-Dec-88	20 A	847.6
03L080	960.8	05-Oct-89	24 A	848.4	03L084	898.2	31-Mar-89	21 A	844.1
03L080	960.8	04-Nov-89	24 F	848.2	03L084	898.2	05-Aug-89	23 F	842.0
03L080	960.8	21-Dec-89	24 A	848.1	03L084	898.2	05-Oct-89	24 A	842.1
03L080	960.8	11-Jan-90	25 A	847.9	03L084	898.2	02-Nov-89	24 F	842.0

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L084	898.2	21-Dec-89	24 A	841.6	03L113	974.8	27-Sep-91	32 A	854.5
03L084	898.2	11-Jan-90	25 A	841.7	03L137	972.6	02-Nov-89	24 F	850.9
03L084	898.2	16-May-90	26 A	841.8	03L137	972.6	24-Apr-90	26 F	850.8
03L084	898.2	28-Feb-91	30 A	842.4	03L137	972.6	18-Jul-90	27 F	850.7
03L084	898.2	27-Sep-91	32 A	841.8	03L137	972.6	19-Sep-90	28 F	850.6
03L086	961.0	14-Dec-87	16 F	857.7	03L137	972.6	27-Mar-91	30 F	851.4
03L086	961.0	26-Jan-88	17 F	857.8	03L137	972.6	04-Jun-91	31 F	851.4
03L086	961.0	14-Apr-88	18 F	858.1	03L137	972.6	04-Sep-91	32 F	851.0
03L086	961.0	30-Aug-88	19 F	853.9	03L138	965.6	02-Nov-89	24 F	850.5
03L086	961.0	23-Nov-88	20 F	853.6	03L138	965.6	24-Apr-90	26 F	850.4
03L086	961.0	05-Aug-89	23 F	851.5	03L138	965.6	18-Jul-90	27 F	850.3
03L086	961.0	04-Nov-89	24 F	850.9	03L138	965.6	19-Sep-90	28 F	850.1
03L086	961.0	03-May-90	26 F	851.5	03L138	965.6	29-Mar-91	30 F	850.8
03L086	961.0	19-Jul-90	27 F	851.5	03L138	965.6	04-Jun-91	31 F	850.8
03L086	961.0	01-Apr-91	30 F	850.7	03L138	965.6	04-Sep-91	32 F	850.6
03L091	1007.0	14-Dec-87	16 F	857.8	03L306	887.4	30-Aug-88	19 F	829.7
03L091	1007.0	26-Jan-88	17 F	858.0	03L306	887.4	23-Nov-88	20 F	832.7
03L091	1007.0	14-Apr-88	18 F	857.9	03L306	887.4	03-May-89	22 F	829.6
03L091	1007.0	30-Aug-88	19 F	853.6	03L306	887.4	07-Aug-89	23 F	827.8
03L091	1007.0	23-Nov-88	20 F	853.4	03L306	887.4	02-Nov-89	24 F	827.8
03L091	1007.0	05-Aug-89	23 F	851.8	03L523	995.8	02-Nov-89	24 F	866.4
03L091	1007.0	02-Nov-89	24 F	851.0	03L523	995.8	27-Apr-90	26 F	866.8
03L091	1007.0	01-May-90	26 F	850.9	03L523	995.8	26-Mar-91	30 F	868.1
03L091	1007.0	26-Mar-91	30 F	851.6	03L523	995.8	04-Sep-91	32 F	868.2
03L113	974.8	14-Dec-87	16 F	858.2	03L673	879.1	17-Nov-87	16 A	845.3
03L113	974.8	27-Jan-88	17 F	858.4	03L673	879.1	24-Nov-87	16 A	845.0
03L113	974.8	14-Apr-88	18 F	858.3	03L673	879.1	30-Nov-87	16 A	845.3
03L113	974.8	02-May-88	18 A	861.0	03L673	879.1	14-Dec-87	16 F	826.8
03L113	974.8	20-May-88	18 A	860.6	03L673	879.1	14-Dec-87	16 A	844.8
03L113	974.8	30-Aug-88	19 F	855.0	03L673	879.1	11-Jan-88	17 A	845.0
03L113	974.8	01-Sep-88	19 A	856.7	03L673	879.1	27-Jan-88	17 F	827.0
03L113	974.8	21-Sep-88	19 A	856.5	03L673	879.1	13-Apr-88	18 F	828.4
03L113	974.8	23-Nov-88	20 F	853.8	03L673	879.1	02-May-88	18 A	845.3
03L113	974.8	13-Jan-89	21 A	856.7	03L673	879.1	20-May-88	18 A	844.9
03L113	974.8	31-Mar-89	21 A	856.7	03L673	879.1	23-Jun-88	18 A	843.4
03L113	974.8	05-Aug-89	23 F	852.7	03L673	879.1	27-Jul-88	19 A	842.5
03L113	974.8	05-Oct-89	24 A	854.2	03L673	879.1	30-Aug-88	19 F	823.7
03L113	974.8	02-Nov-89	24 F	851.4	03L673	879.1	01-Sep-88	19 A	841.6
03L113	974.8	21-Dec-89	24 A	854.1	03L673	879.1	21-Sep-88	19 A	841.3
03L113	974.8	11-Jan-90	25 A	854.0	03L673	879.1	14-Oct-88	20 A	841.6
03L113	974.8	26-Apr-90	26 F	851.0	03L673	879.1	23-Nov-88	20 F	824.3
03L113	974.8	16-May-90	26 A	853.9	03L673	879.1	02-Dec-88	20 A	842.0
03L113	974.8	19-Jul-90	27 F	851.2	03L673	879.1	13-Jan-89	21 A	842.3
03L113	974.8	28-Feb-91	30 A	854.7					
03L113	974.8	28-Mar-91	30 F	851.9					

TCAAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L673	879.1	31-Mar-89	21 A	840.4	03L806	909.5	24-Nov-87	16 A	848.8
03L673	879.1	07-Jul-89	23 A	838.6	03L806	909.5	30-Nov-87	16 A	848.2
03L673	879.1	03-Aug-89	23 F	820.7	03L806	909.5	14-Dec-87	16 F	848.0
03L673	879.1	05-Oct-89	24 A	838.3	03L806	909.5	14-Dec-87	16 A	848.2
03L673	879.1	03-Nov-89	24 F	820.0	03L806	909.5	11-Jan-88	17 A	849.0
03L673	879.1	21-Dec-89	24 A	837.7	03L806	909.5	27-Jan-88	17 F	847.9
03L673	879.1	11-Jan-90	25 A	837.9	03L806	909.5	13-Apr-88	18 F	850.4
03L673	879.1	16-May-90	26 A	837.9	03L806	909.5	02-May-88	18 A	848.3
03L673	879.1	16-Jul-90	27 A	837.5	03L806	909.5	20-May-88	18 A	847.7
03L673	879.1	28-Feb-91	30 A	837.9	03L806	909.5	23-Jun-88	18 A	846.2
03L673	879.1	03-Jun-91	31 A	837.7	03L806	909.5	27-Jul-88	19 A	845.9
03L673	879.1	03-Sep-91	32 A	837.0	03L806	909.5	30-Aug-88	19 F	844.6
03L673	879.1	27-Sep-91	32 A	837.3	03L806	909.5	01-Sep-88	19 A	845.1
03L802	905.8	17-Nov-87	16 A	851.0	03L806	909.5	21-Sep-88	19 A	844.3
03L802	905.8	24-Nov-87	16 A	851.5	03L806	909.5	14-Oct-88	20 A	844.9
03L802	905.8	30-Nov-87	16 A	851.0	03L806	909.5	23-Nov-88	20 F	846.2
03L802	905.8	14-Dec-87	16 F	853.5	03L806	909.5	02-Dec-88	20 A	846.0
03L802	905.8	14-Dec-87	16 A	850.2	03L806	909.5	13-Jan-89	21 A	845.9
03L802	905.8	11-Jan-88	17 A	851.4	03L806	909.5	31-Mar-89	21 A	842.0
03L802	905.8	26-Jan-88	17 F	851.7	03L806	909.5	07-Jul-89	23 A	840.2
03L802	905.8	13-Apr-88	18 F	854.0	03L806	909.5	03-Aug-89	23 F	840.4
03L802	905.8	02-May-88	18 A	850.8	03L806	909.5	05-Oct-89	24 A	839.8
03L802	905.8	20-May-88	18 A	850.2	03L806	909.5	03-Nov-89	24 F	840.0
03L802	905.8	23-Jun-88	18 A	849.4	03L806	909.5	21-Dec-89	24 A	839.3
03L802	905.8	27-Jul-88	19 A	848.7	03L806	909.5	11-Jan-90	25 A	839.5
03L802	905.8	30-Aug-88	19 F	848.6	03L806	909.5	16-May-90	26 A	839.6
03L802	905.8	01-Sep-88	19 A	847.0	03L806	909.5	16-Jul-90	27 A	839.2
03L802	905.8	21-Sep-88	19 A	846.6	03L806	909.5	28-Feb-91	30 A	839.9
03L802	905.8	14-Oct-88	20 A	847.1	03L806	909.5	03-Jun-91	31 A	839.7
03L802	905.8	23-Nov-88	20 F	848.3	03L806	909.5	03-Sep-91	32 A	838.9
03L802	905.8	02-Dec-88	20 A	848.1	03L806	909.5	27-Sep-91	32 A	839.3
03L802	905.8	13-Jan-89	21 A	847.2	03L809	910.6	17-Nov-87	16 A	847.5
03L802	905.8	31-Mar-89	21 A	844.9	03L809	910.6	24-Nov-87	16 A	847.4
03L802	905.8	07-Jul-89	23 A	842.9	03L809	910.6	30-Nov-87	16 A	847.4
03L802	905.8	03-Aug-89	23 F	843.1	03L809	910.6	14-Dec-87	16 A	847.1
03L802	905.8	05-Oct-89	24 A	842.2	03L809	910.6	11-Jan-88	17 A	848.1
03L802	905.8	03-Nov-89	24 F	842.0	03L809	910.6	26-Jan-88	17 F	847.2
03L802	905.8	21-Dec-89	24 A	842.3	03L809	910.6	13-Apr-88	18 F	848.9
03L802	905.8	11-Jan-90	25 A	841.9	03L809	910.6	02-May-88	18 A	847.4
03L802	905.8	16-May-90	26 A	841.7	03L809	910.6	20-May-88	18 A	846.8
03L802	905.8	16-Jul-90	27 A	841.3	03L809	910.6	23-Jun-88	18 A	845.1
03L802	905.8	28-Feb-91	30 A	842.0	03L809	910.6	27-Jul-88	19 A	844.4
03L802	905.8	03-Jun-91	31 A	841.7	03L809	910.6	30-Aug-88	19 F	843.5
03L802	905.8	03-Sep-91	32 A	841.3	03L809	910.6	01-Sep-88	19 A	843.9
03L802	905.8	27-Sep-91	32 A	841.4	03L809	910.6	21-Sep-88	19 A	843.3
03L806	909.5	17-Nov-87	16 A	848.3	03L809	910.6	14-Oct-88	20 A	843.8
					03L809	910.6	23-Nov-88	20 F	844.9

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L809	910.6	02-Dec-88	20 A	844.6	03L822	876.5	25-Apr-90	26 F	831.3
03L809	910.6	13-Jan-89	21 A	844.6	03L822	876.5	21-Mar-91	30 F	830.9
03L809	910.6	31-Mar-89	21 A	841.6					
03L809	910.6	10-May-89	22 F	839.6	03L832	884.2	14-Dec-87	16 F	836.1
03L809	910.6	04-Aug-89	23 F	839.8	03L832	884.2	26-Jan-88	17 F	836.3
03L809	910.6	05-Oct-89	24 A	839.2	03L832	884.2	13-Apr-88	18 F	836.6
03L809	910.6	03-Nov-89	24 F	839.3	03L832	884.2	30-Aug-88	19 F	831.8
03L809	910.6	21-Dec-89	24 A	839.0	03L832	884.2	23-Nov-88	20 F	833.3
03L809	910.6	11-Jan-90	25 A	839.2	03L832	884.2	09-May-89	22 F	830.3
03L809	910.6	24-Apr-90	26 F	838.2	03L832	884.2	04-Aug-89	23 F	829.3
03L809	910.6	16-May-90	26 A	839.3	03L832	884.2	03-Nov-89	24 F	829.9
03L809	910.6	20-Jul-90	27 F	838.9	03L832	884.2	25-Apr-90	26 F	830.2
03L809	910.6	17-Sep-90	28 F	838.4	03L832	884.2	20-Mar-91	30 F	829.6
03L809	910.6	28-Feb-91	30 A	839.5					
03L809	910.6	21-Mar-91	30 F	839.5	03L841	910.9	14-Dec-87	16 F	844.3
03L809	910.6	03-Sep-91	32 A	839.5	03L841	910.9	26-Jan-88	17 F	844.4
03L809	910.6	27-Sep-91	32 A	838.9	03L841	910.9	13-Apr-88	18 F	847.3
					03L841	910.9	30-Aug-88	19 F	841.0
03L811	908.2	14-Dec-87	16 F	846.2	03L841	910.9	23-Nov-88	20 F	841.8
03L811	908.2	27-Jan-88	17 F	846.2	03L841	910.9	07-Aug-89	23 F	837.5
03L811	908.2	13-Apr-88	18 F	847.5	03L841	910.9	03-Nov-89	24 F	837.3
03L811	908.2	30-Aug-88	19 F	842.4	03L841	910.9	16-May-90	26 A	837.4
03L811	908.2	23-Nov-88	20 F	843.8	03L841	910.9	28-Feb-91	30 A	837.4
03L811	908.2	04-May-89	22 F	838.9	03L841	910.9	20-Mar-91	30 F	837.3
03L811	908.2	04-Aug-89	23 F	839.1	03L841	910.9	03-Sep-91	32 A	837.4
03L811	908.2	03-Nov-89	24 F	838.7	03L841	910.9	27-Sep-91	32 A	836.7
03L811	908.2	26-Apr-90	26 F	838.9					
03L811	908.2	20-Mar-91	30 F	839.2	03L846	887.0	19-Apr-90	26 F	827.5
					03L846	887.0	18-Mar-91	30 F	827.1
03L813	869.9	14-Dec-87	16 F	843.6					
03L813	869.9	27-Jan-88	17 F	843.7	03L848	903.1	14-Dec-87	16 F	844.8
03L813	869.9	13-Apr-88	18 F	844.6	03L848	903.1	26-Jan-88	17 F	845.0
03L813	869.9	30-Aug-88	19 F	839.6	03L848	903.1	13-Apr-88	18 F	846.1
03L813	869.9	23-Nov-88	20 F	841.1	03L848	903.1	30-Aug-88	19 F	841.7
03L813	869.9	05-May-89	22 F	835.0	03L848	903.1	23-Nov-88	20 F	842.2
03L813	869.9	04-Aug-89	23 F	837.0	03L848	903.1	03-May-89	22 F	838.4
03L813	869.9	03-Nov-89	24 F	836.8	03L848	903.1	06-Aug-89	23 F	829.7
03L813	869.9	03-May-90	26 F	837.4	03L848	903.1	03-Nov-89	24 F	838.2
03L813	869.9	01-Apr-91	30 F	836.8	03L848	903.1	19-Apr-90	26 F	838.1
					03L848	903.1	19-Jul-90	27 F	837.8
03L822	876.5	14-Dec-87	16 F	837.2	03L848	903.1	17-Sep-90	28 F	837.7
03L822	876.5	26-Jan-88	17 F	837.3	03L848	903.1	18-Mar-91	30 F	837.9
03L822	876.5	13-Apr-88	18 F	837.9					
03L822	876.5	30-Aug-88	19 F	833.3	03L853	889.0	14-Dec-87	16 F	838.1
03L822	876.5	23-Nov-88	20 F	834.6	03L853	889.0	26-Jan-88	17 F	838.3
03L822	876.5	05-May-89	22 F	831.4	03L853	889.0	13-Apr-88	18 F	838.9
03L822	876.5	04-Aug-89	23 F	830.6	03L853	889.0	30-Aug-88	19 F	834.3
03L822	876.5	03-Nov-89	24 F	831.0	03L853	889.0	23-Nov-88	20 F	835.6

TCAAP GROUNDWATER ELEVATION DATA

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Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03L853	889.0	05-May-89	22 F	831.1	03L860	894.1	14-Dec-87	16 F	840.5
03L853	889.0	06-Aug-89	23 F	831.5	03L860	894.1	26-Jan-88	17 F	840.4
03L853	889.0	03-Nov-89	24 F	831.8	03L860	894.1	13-Apr-88	18 F	841.4
03L853	889.0	19-Apr-90	26 F	832.2	03L860	894.1	30-Aug-88	19 F	837.1
03L853	889.0	20-Jul-90	27 F	831.1	03L860	894.1	23-Nov-88	20 F	838.0
03L853	889.0	21-Mar-91	30 F	831.7	03L860	894.1	06-Aug-89	23 F	835.7
					03L860	894.1	03-Nov-89	24 F	834.3
03L854	889.9	14-Dec-87	16 F	840.2	03L860	894.1	19-Apr-90	26 F	834.3
03L854	889.9	26-Jan-88	17 F	840.4	03L860	894.1	20-Mar-91	30 F	834.3
03L854	889.9	13-Apr-88	18 F	841.2					
03L854	889.9	30-Aug-88	19 F	836.8	03L861	888.6	14-Dec-87	16 F	838.6
03L854	889.9	23-Nov-88	20 F	837.4	03L861	888.6	26-Jan-88	17 F	838.9
03L854	889.9	06-Aug-89	23 F	834.3	03L861	888.6	13-Apr-88	18 F	839.6
03L854	889.9	03-Nov-89	24 F	833.7	03L861	888.6	30-Aug-88	19 F	835.0
03L854	889.9	30-Apr-90	26 F	833.7	03L861	888.6	23-Nov-88	20 F	835.3
03L854	889.9	19-Mar-91	30 F	833.7	03L861	888.6	06-Aug-89	23 F	833.1
					03L861	888.6	30-Apr-90	26 F	832.3
03L856	872.9	14-Dec-87	16 F	842.0	03L861	888.6	25-Mar-91	30 F	832.2
03L856	872.9	26-Jan-88	17 F	842.1					
03L856	872.9	13-Apr-88	18 F	842.9	03M001	888.4	17-Nov-87	16 A	849.9
03L856	872.9	30-Aug-88	19 F	837.9	03M001	888.4	24-Nov-87	16 A	849.4
03L856	872.9	23-Nov-88	20 F	838.5	03M001	888.4	30-Nov-87	16 A	849.8
03L856	872.9	05-May-89	22 F	836.0	03M001	888.4	14-Dec-87	16 F	849.5
03L856	872.9	06-Aug-89	23 F	834.9	03M001	888.4	14-Dec-87	16 A	849.6
03L856	872.9	03-Nov-89	24 F	835.4	03M001	888.4	11-Jan-88	17 A	850.0
03L856	872.9	27-Apr-90	26 F	840.0	03M001	888.4	27-Jan-88	17 F	849.5
03L856	872.9	21-Mar-91	30 F	835.9	03M001	888.4	13-Apr-88	18 F	850.5
					03M001	888.4	02-May-88	18 A	849.6
03L858	996.1	14-Dec-87	16 F	898.6	03M001	888.4	20-May-88	18 A	849.0
03L858	996.1	26-Jan-88	17 F	898.6	03M001	888.4	23-Jun-88	18 A	846.5
03L858	996.1	13-Apr-88	18 F	898.6	03M001	888.4	27-Jul-88	19 A	845.6
03L858	996.1	30-Aug-88	19 F	898.2	03M001	888.4	30-Aug-88	19 F	845.3
03L858	996.1	05-May-89	22 F	895.8	03M001	888.4	01-Sep-88	19 A	845.1
03L858	996.1	06-Aug-89	23 F	895.7	03M001	888.4	21-Sep-88	19 A	845.1
03L858	996.1	03-Nov-89	24 F	895.7	03M001	888.4	14-Oct-88	20 A	845.6
03L858	996.1	17-Apr-90	26 F	896.1	03M001	888.4	23-Nov-88	20 F	846.6
03L858	996.1	25-Mar-91	30 F	895.7	03M001	888.4	02-Dec-88	20 A	846.6
					03M001	888.4	13-Jan-89	21 A	846.7
03L859	900.8	14-Dec-87	16 F	840.6	03M001	888.4	31-Mar-89	21 A	844.1
03L859	900.8	26-Jan-88	17 F	840.9	03M001	888.4	05-Aug-89	23 F	841.5
03L859	900.8	13-Apr-88	18 F	841.8	03M001	888.4	05-Oct-89	24 A	841.4
03L859	900.8	30-Aug-88	19 F	837.4	03M001	888.4	02-Nov-89	24 F	841.6
03L859	900.8	23-Nov-88	20 F	838.1	03M001	888.4	21-Dec-89	24 A	841.3
03L859	900.8	06-Aug-89	23 F	836.6	03M001	888.4	11-Jan-90	25 A	841.3
03L859	900.8	03-Nov-89	24 F	834.4	03M001	888.4	16-May-90	26 A	841.6
03L859	900.8	30-Apr-90	26 F	834.1	03M001	888.4	16-Jul-90	27 A	841.4
03L859	900.8	20-Mar-91	30 F	814.2	03M001	888.4	28-Feb-91	30 A	842.2
					03M001	888.4	03-Jun-91	31 A	841.9

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03M001	888.4	03-Sep-91	32 A	841.0	03M003	942.6	14-Oct-88	20 A	848.8
03M001	888.4	27-Sep-91	32 A	841.6	03M003	942.6	23-Nov-88	20 F	849.5
03M002	919.3	17-Nov-87	16 A	850.7	03M003	942.6	02-Dec-88	20 A	849.9
03M002	919.3	24-Nov-87	16 A	850.4	03M003	942.6	13-Jan-89	21 A	849.6
03M002	919.3	14-Dec-87	16 F	850.3	03M003	942.6	31-Mar-89	21 A	846.4
03M002	919.3	14-Dec-87	16 A	850.4	03M003	942.6	07-Jul-89	23 A	845.0
03M002	919.3	11-Jan-88	17 A	850.7	03M003	942.6	05-Aug-89	23 F	845.2
03M002	919.3	27-Jan-88	17 F	850.5	03M003	942.6	05-Oct-89	24 A	844.4
03M002	919.3	13-Apr-88	18 F	853.1	03M003	942.6	02-Nov-89	24 F	843.7
03M002	919.3	02-May-88	18 A	851.0	03M003	942.6	21-Dec-89	24 A	844.4
03M002	919.3	20-May-88	18 A	850.5	03M003	942.6	11-Jan-90	25 A	843.9
03M002	919.3	23-Jun-88	18 A	849.5	03M003	942.6	16-May-90	26 A	844.0
03M002	919.3	27-Jul-88	19 A	848.4	03M003	942.6	16-Jul-90	27 A	843.6
03M002	919.3	30-Aug-88	19 F	847.9	03M003	942.6	28-Feb-91	30 A	844.4
03M002	919.3	01-Sep-88	19 A	847.9	03M003	942.6	03-Jun-91	31 A	844.1
03M002	919.3	21-Sep-88	19 A	847.6	03M003	942.6	03-Sep-91	32 A	843.6
03M002	919.3	14-Oct-88	20 A	847.1	03M003	942.6	27-Sep-91	32 A	843.8
03M002	919.3	23-Nov-88	20 F	848.5	03M004	950.8	17-Nov-87	16 A	855.7
03M002	919.3	02-Dec-88	20 A	848.7	03M004	950.8	24-Nov-87	16 A	855.4
03M002	919.3	13-Jan-89	21 A	848.2	03M004	950.8	30-Nov-87	16 A	855.6
03M002	919.3	31-Mar-89	21 A	844.6	03M004	950.8	14-Dec-87	16 F	855.4
03M002	919.3	07-Jul-89	23 A	843.1	03M004	950.8	11-Jan-88	17 A	855.8
03M002	919.3	05-Aug-89	23 F	842.9	03M004	950.8	27-Jan-88	17 F	855.6
03M002	919.3	05-Oct-89	24 A	842.7	03M004	950.8	14-Apr-88	18 F	856.3
03M002	919.3	02-Nov-89	24 F	842.4	03M004	950.8	02-May-88	18 A	856.0
03M002	919.3	21-Dec-89	24 A	842.0	03M004	950.8	20-May-88	18 A	855.5
03M002	919.3	11-Jan-90	25 A	841.9	03M004	950.8	23-Jun-88	18 A	854.5
03M002	919.3	16-May-90	26 A	842.0	03M004	950.8	27-Jul-88	19 A	853.1
03M002	919.3	16-Jul-90	27 A	841.8	03M004	950.8	30-Aug-88	19 F	852.2
03M002	919.3	28-Feb-91	30 A	842.4	03M004	950.8	01-Sep-88	19 A	852.0
03M002	919.3	03-Jun-91	31 A	842.3	03M004	950.8	21-Sep-88	19 A	851.7
03M002	919.3	03-Sep-91	32 A	841.8	03M004	950.8	14-Oct-88	20 A	851.6
03M002	919.3	27-Sep-91	32 A	842.0	03M004	950.8	23-Nov-88	20 F	851.7
03M003	942.6	17-Nov-87	16 A	852.8	03M004	950.8	02-Dec-88	20 A	851.9
03M003	942.6	14-Dec-87	16 A	852.5	03M004	950.8	13-Jan-89	21 A	852.2
03M003	942.6	14-Dec-87	16 F	852.4	03M004	950.8	31-Mar-89	21 A	850.7
03M003	942.6	11-Jan-88	17 A	852.4	03M004	950.8	05-Aug-89	23 F	850.2
03M003	942.6	26-Jan-88	17 F	852.5	03M004	950.8	05-Oct-89	24 A	848.5
03M003	942.6	14-Apr-88	18 F	854.3	03M004	950.8	04-Nov-89	24 F	848.4
03M003	942.6	02-May-88	18 A	853.4	03M004	950.8	21-Dec-89	24 A	848.2
03M003	942.6	20-May-88	18 A	852.8	03M004	950.8	11-Jan-90	25 A	848.0
03M003	942.6	23-Jun-88	18 A	852.2	03M004	950.8	16-May-90	26 A	847.9
03M003	942.6	27-Jul-88	19 A	850.8	03M004	950.8	28-Feb-91	30 A	848.4
03M003	942.6	30-Aug-88	19 F	849.7	03M004	950.8	27-Sep-91	32 A	847.9
03M003	942.6	01-Sep-88	19 A	849.4	03M005	971.6	14-Dec-87	16 F	856.7
03M003	942.6	21-Sep-88	19 A	849.2	03M005	971.6	26-Jan-88	17 F	856.8

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April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03M005	971.6	14-Apr-88	18 F	857.1	03M007	900.8	16-Jul-90	27 A	852.4
03M005	971.6	02-May-88	18 A	857.7	03M007	900.8	19-Jul-90	27 F	852.5
03M005	971.6	20-May-88	18 A	857.3	03M007	900.8	28-Feb-91	30 A	853.4
03M005	971.6	23-Jun-88	18 A	856.5	03M007	900.8	28-Mar-91	30 F	853.0
03M005	971.6	27-Jul-88	19 A	854.5	03M007	900.8	03-Jun-91	31 A	853.1
03M005	971.6	30-Aug-88	19 F	853.2	03M007	900.8	03-Sep-91	32 A	852.5
03M005	971.6	01-Sep-88	19 A	853.6	03M007	900.8	27-Sep-91	32 A	852.9
03M005	971.6	21-Sep-88	19 A	853.3					
03M005	971.6	14-Oct-88	20 A	853.8	03M010	888.9	24-Nov-87	16 A	865.5
03M005	971.6	23-Nov-88	20 F	852.6	03M010	888.9	14-Dec-87	16 A	865.8
03M005	971.6	02-Dec-88	20 A	853.0	03M010	888.9	11-Jan-88	17 A	866.2
03M005	971.6	13-Jan-89	21 A	853.5	03M010	888.9	26-Jan-88	17 F	866.2
03M005	971.6	31-Mar-89	21 A	853.2	03M010	888.9	13-Apr-88	18 F	865.9
03M005	971.6	05-Aug-89	23 F	850.5	03M010	888.9	02-May-88	18 A	864.9
03M005	971.6	05-Oct-89	24 A	851.3	03M010	888.9	20-May-88	18 A	864.5
03M005	971.6	02-Nov-89	24 F	849.9	03M010	888.9	23-Jun-88	18 A	859.1
03M005	971.6	21-Dec-89	24 A	850.8	03M010	888.9	27-Jul-88	19 A	857.6
03M005	971.6	11-Jan-90	25 A	850.7	03M010	888.9	30-Aug-88	19 F	859.5
03M005	971.6	24-Apr-90	26 F	850.4	03M010	888.9	01-Sep-88	19 A	859.5
03M005	971.6	16-May-90	26 A	850.5	03M010	888.9	21-Sep-88	19 A	860.0
03M005	971.6	28-Feb-91	30 A	850.6	03M010	888.9	14-Oct-88	20 A	860.9
03M005	971.6	29-Mar-91	30 F	849.3	03M010	888.9	23-Nov-88	20 F	861.7
03M005	971.6	27-Sep-91	32 A	850.0	03M010	888.9	02-Dec-88	20 A	861.7
					03M010	888.9	13-Jan-89	21 A	861.9
03M007	900.8	24-Nov-87	16 A	859.4	03M010	888.9	31-Mar-89	21 A	862.9
03M007	900.8	14-Dec-87	16 A	859.6	03M010	888.9	05-Aug-89	23 F	858.2
03M007	900.8	14-Dec-87	16 F	859.7	03M010	888.9	05-Oct-89	24 A	859.3
03M007	900.8	11-Jan-88	17 A	860.1	03M010	888.9	02-Nov-89	24 F	859.9
03M007	900.8	13-Apr-88	18 F	860.3	03M010	888.9	21-Dec-89	24 A	860.3
03M007	900.8	02-May-88	18 A	859.7	03M010	888.9	11-Jan-90	25 A	860.5
03M007	900.8	20-May-88	18 A	859.4	03M010	888.9	27-Apr-90	26 F	860.1
03M007	900.8	23-Jun-88	18 A	857.0	03M010	888.9	01-Apr-91	30 F	861.5
03M007	900.8	27-Jul-88	19 A	855.5	03M010	888.9	27-Sep-91	32 A	862.1
03M007	900.8	30-Aug-88	19 F	855.2					
03M007	900.8	01-Sep-88	19 A	855.1	03M012	880.1	17-Nov-87	16 A	859.8
03M007	900.8	21-Sep-88	19 A	854.8	03M012	880.1	24-Nov-87	16 A	859.6
03M007	900.8	14-Oct-88	20 A	855.2	03M012	880.1	14-Dec-87	16 A	859.9
03M007	900.8	23-Nov-88	20 F	855.6	03M012	880.1	11-Jan-88	17 A	860.2
03M007	900.8	02-Dec-88	20 A	855.7	03M012	880.1	27-Jan-88	17 F	860.0
03M007	900.8	13-Jan-89	21 A	856.0	03M012	880.1	13-Apr-88	18 F	859.8
03M007	900.8	31-Mar-89	21 A	855.5	03M012	880.1	02-May-88	18 A	859.4
03M007	900.8	05-Aug-89	23 F	853.0	03M012	880.1	20-May-88	18 A	858.9
03M007	900.8	05-Oct-89	24 A	852.8	03M012	880.1	23-Jun-88	18 A	854.7
03M007	900.8	02-Nov-89	24 F	852.9	03M012	880.1	27-Jul-88	19 A	853.6
03M007	900.8	21-Dec-89	24 A	852.9	03M012	880.1	30-Aug-88	19 F	854.4
03M007	900.8	11-Jan-90	25 A	852.8	03M012	880.1	01-Sep-88	19 A	854.4
03M007	900.8	23-Apr-90	26 F	852.4	03M012	880.1	21-Sep-88	19 A	854.6
03M007	900.8	16-May-90	26 A	852.5	03M012	880.1	14-Oct-88	20 A	855.3

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03M012	880.1	23-Nov-88	20 F	855.8	03M017	938.9	02-May-88	18 A	854.5
03M012	880.1	02-Dec-88	20 A	855.9	03M017	938.9	20-May-88	18 A	854.0
03M012	880.1	13-Jan-89	21 A	856.3	03M017	938.9	23-Jun-88	18 A	852.7
03M012	880.1	31-Mar-89	21 A	856.6	03M017	938.9	27-Jul-88	19 A	851.3
03M012	880.1	06-Aug-89	23 F	852.8	03M017	938.9	30-Aug-88	19 F	850.5
03M012	880.1	05-Oct-89	24 A	853.2	03M017	938.9	01-Sep-88	19 A	850.2
03M012	880.1	02-Nov-89	24 F	853.5	03M017	938.9	21-Sep-88	19 A	850.2
03M012	880.1	21-Dec-89	24 A	853.9	03M017	938.9	14-Oct-88	20 A	850.0
03M012	880.1	11-Jan-90	25 A	854.1	03M017	938.9	23-Nov-88	20 F	850.5
03M012	880.1	16-May-90	26 A	853.7	03M017	938.9	02-Dec-88	20 A	850.7
03M012	880.1	16-Jul-90	27 A	853.7	03M017	938.9	13-Jan-89	21 A	851.0
03M012	880.1	28-Feb-91	30 A	855.0	03M017	938.9	31-Mar-89	21 A	849.1
03M012	880.1	03-Jun-91	31 A	855.2	03M017	938.9	05-Aug-89	23 F	847.3
03M012	880.1	03-Sep-91	32 A	853.9	03M017	938.9	05-Oct-89	24 A	847.0
03M012	880.1	27-Sep-91	32 A	855.0	03M017	938.9	04-Nov-89	24 F	846.8
					03M017	938.9	21-Dec-89	24 A	846.4
03M013	889.9	17-Nov-87	16 A	852.8	03M017	938.9	11-Jan-90	25 A	846.3
03M013	889.9	24-Nov-87	16 A	852.4	03M017	938.9	16-May-90	26 A	846.4
03M013	889.9	14-Dec-87	16 A	852.6	03M017	938.9	28-Feb-91	30 A	847.1
03M013	889.9	11-Jan-88	17 A	852.9	03M017	938.9	27-Sep-91	32 A	846.7
03M013	889.9	27-Jan-88	17 F	852.6					
03M013	889.9	13-Apr-88	18 F	852.7	03M020	954.5	17-Nov-87	16 A	854.5
03M013	889.9	02-May-88	18 A	852.5	03M020	954.5	24-Nov-87	16 A	854.4
03M013	889.9	20-May-88	18 A	851.9	03M020	954.5	30-Nov-87	16 A	854.4
03M013	889.9	23-Jun-88	18 A	849.1	03M020	954.5	14-Dec-87	16 F	854.3
03M013	889.9	27-Jul-88	19 A	847.9	03M020	954.5	11-Jan-88	17 A	854.5
03M013	889.9	30-Aug-88	19 F	848.1	03M020	954.5	27-Jan-88	17 F	854.6
03M013	889.9	01-Sep-88	19 A	847.9	03M020	954.5	14-Apr-88	18 F	855.4
03M013	889.9	21-Sep-88	19 A	847.9	03M020	954.5	02-May-88	18 A	854.8
03M013	889.9	14-Oct-88	20 A	848.4	03M020	954.5	20-May-88	18 A	854.3
03M013	889.9	23-Nov-88	20 F	849.0	03M020	954.5	23-Jun-88	18 A	853.3
03M013	889.9	02-Dec-88	20 A	849.0	03M020	954.5	27-Jul-88	19 A	851.9
03M013	889.9	13-Jan-89	21 A	849.6	03M020	954.5	30-Aug-88	19 F	850.8
03M013	889.9	31-Mar-89	21 A	848.0	03M020	954.5	01-Sep-88	19 A	850.7
03M013	889.9	05-Aug-89	23 F	845.1	03M020	954.5	21-Sep-88	19 A	850.6
03M013	889.9	05-Oct-89	24 A	845.2	03M020	954.5	14-Oct-88	20 A	850.3
03M013	889.9	02-Nov-89	24 F	845.4	03M020	954.5	23-Nov-88	20 F	850.2
03M013	889.9	21-Dec-89	24 A	845.5	03M020	954.5	02-Dec-88	20 A	850.9
03M013	889.9	11-Jan-90	25 A	845.7	03M020	954.5	13-Jan-89	21 A	851.0
03M013	889.9	16-May-90	26 A	845.5	03M020	954.5	31-Mar-89	21 A	849.2
03M013	889.9	28-Feb-91	30 A	846.3	03M020	954.5	07-Jul-89	23 A	848.0
03M013	889.9	27-Sep-91	32 A	846.0	03M020	954.5	05-Aug-89	23 F	847.7
					03M020	954.5	05-Oct-89	24 A	847.0
03M017	938.9	17-Nov-87	16 A	854.3	03M020	954.5	04-Nov-89	24 F	847.0
03M017	938.9	24-Nov-87	16 A	854.0	03M020	954.5	21-Dec-89	24 A	846.7
03M017	938.9	11-Jan-88	17 A	854.3	03M020	954.5	11-Jan-90	25 A	846.5
03M017	938.9	27-Jan-88	17 F	854.3	03M020	954.5	16-May-90	26 A	846.5
03M017	938.9	13-Apr-88	18 F	855.0	03M020	954.5	16-Jul-90	27 A	846.3

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03M020	954.5	28-Feb-91	30 A	847.0	03M802	905.8	21-Dec-89	24 A	842.4
03M020	954.5	03-Jun-91	31 A	847.0	03M802	905.8	11-Jan-90	25 A	842.0
03M020	954.5	03-Sep-91	32 A	846.5	03M802	905.8	16-May-90	26 A	841.6
03M020	954.5	27-Sep-91	32 A	846.7	03M802	905.8	16-Jul-90	27 A	841.3
03M505	957.3	15-Dec-87	16 F	858.8	03M802	905.8	28-Feb-91	30 A	842.1
03M505	957.3	28-Jan-88	17 F	859.0	03M802	905.8	03-Jun-91	31 A	841.6
03M505	957.3	14-Apr-88	18 F	859.2	03M802	905.8	03-Sep-91	32 A	841.2
03M505	957.3	30-Aug-88	19 F	854.2	03M802	905.8	27-Sep-91	32 A	841.3
03M509	958.0	05-Aug-89	23 F	878.5	03M806	909.9	17-Nov-87	16 A	848.3
03M713	895.8	02-Dec-88	20 A	846.5	03M806	909.9	24-Nov-87	16 A	848.7
03M713	895.8	13-Jan-89	21 A	846.5	03M806	909.9	30-Nov-87	16 A	848.2
03M713	895.8	31-Mar-89	21 A	842.2	03M806	909.9	14-Dec-87	16 F	848.1
03M713	895.8	07-Jul-89	23 A	840.3	03M806	909.9	14-Dec-87	16 A	848.0
03M713	895.8	05-Oct-89	24 A	840.1	03M806	909.9	11-Jan-88	17 A	849.2
03M713	895.8	21-Dec-89	24 A	839.6	03M806	909.9	27-Jan-88	17 F	848.0
03M713	895.8	11-Jan-90	25 A	839.7	03M806	909.9	13-Apr-88	18 F	850.5
03M713	895.8	16-May-90	26 A	839.9	03M806	909.9	02-May-88	18 A	848.4
03M713	895.8	16-Jul-90	27 A	839.7	03M806	909.9	20-May-88	18 A	847.8
03M713	895.8	28-Feb-91	30 A	840.4	03M806	909.9	23-Jun-88	18 A	846.2
03M713	895.8	03-Jun-91	31 A	840.1	03M806	909.9	27-Jul-88	19 A	846.0
03M713	895.8	03-Sep-91	32 A	839.2	03M806	909.9	30-Aug-88	19 F	844.7
03M713	895.8	27-Sep-91	32 A	839.7	03M806	909.9	01-Sep-88	19 A	845.2
03M802	905.8	17-Nov-87	16 A	851.1	03M806	909.9	21-Sep-88	19 A	844.3
03M802	905.8	24-Nov-87	16 A	851.4	03M806	909.9	14-Oct-88	20 A	844.9
03M802	905.8	30-Nov-87	16 A	851.1	03M806	909.9	23-Nov-88	20 F	846.3
03M802	905.8	14-Dec-87	16 A	851.6	03M806	909.9	02-Dec-88	20 A	846.1
03M802	905.8	14-Dec-87	16 F	850.1	03M806	909.9	13-Jan-89	21 A	846.0
03M802	905.8	11-Jan-88	17 A	850.5	03M806	909.9	31-Mar-89	21 A	842.1
03M802	905.8	13-Apr-88	18 F	849.7	03M806	909.9	06-Aug-89	23 F	840.4
03M802	905.8	02-May-88	18 A	851.1	03M806	909.9	05-Oct-89	24 A	839.8
03M802	905.8	20-May-88	18 A	850.4	03M806	909.9	03-Nov-89	24 F	840.0
03M802	905.8	23-Jun-88	18 A	850.1	03M806	909.9	21-Dec-89	24 A	839.3
03M802	905.8	27-Jul-88	19 A	848.7	03M806	909.9	11-Jan-90	25 A	839.6
03M802	905.8	30-Aug-88	19 F	846.8	03M806	909.9	16-May-90	26 A	839.6
03M802	905.8	01-Sep-88	19 A	847.4	03M806	909.9	16-Jul-90	27 A	839.2
03M802	905.8	21-Sep-88	19 A	847.1	03M806	909.9	28-Feb-91	30 A	840.0
03M802	905.8	14-Oct-88	20 A	846.9	03M806	909.9	03-Jun-91	31 A	839.6
03M802	905.8	23-Nov-88	20 F	847.7	03M806	909.9	03-Sep-91	32 A	839.0
03M802	905.8	02-Dec-88	20 A	848.4	03M806	909.9	27-Sep-91	32 A	839.3
03M802	905.8	13-Jan-89	21 A	847.4	03M843	884.5	14-Dec-87	16 F	837.9
03M802	905.8	31-Mar-89	21 A	843.7	03M843	884.5	26-Jan-88	17 F	838.1
03M802	905.8	06-Aug-89	23 F	843.5	03M843	884.5	13-Apr-88	18 F	838.7
03M802	905.8	05-Oct-89	24 A	842.5	03M843	884.5	30-Aug-88	19 F	834.1
03M802	905.8	03-Nov-89	24 F	837.2	03M843	884.5	23-Nov-88	20 F	835.4
					03M843	884.5	05-May-89	22 F	831.9
					03M843	884.5	06-Aug-89	23 F	831.3

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03M843	884.5	03-Nov-89	24 F	831.7					
03M843	884.5	25-Apr-90	26 F	832.0	03U002	917.8	17-Nov-87	16 A	851.4
03M843	884.5	21-Mar-91	30 F	831.7	03U002	917.8	24-Nov-87	16 A	851.0
03M843	884.5	04-Jun-91	31 F	831.2	03U002	917.8	30-Nov-87	16 A	851.1
03M843	884.5	04-Sep-91	32 F	829.7	03U002	917.8	14-Dec-87	16 A	850.8
					03U002	917.8	14-Dec-87	16 F	850.9
03M848	903.1	14-Dec-87	16 F	845.2	03U002	917.8	11-Jan-88	17 A	851.3
03M848	903.1	26-Jan-88	17 F	844.3	03U002	917.8	27-Jan-88	17 F	851.1
03M848	903.1	13-Apr-88	18 F	845.4	03U002	917.8	13-Apr-88	18 F	853.1
03M848	903.1	30-Aug-88	19 F	841.1	03U002	917.8	02-May-88	18 A	851.6
03M848	903.1	23-Nov-88	20 F	841.5	03U002	917.8	20-May-88	18 A	850.9
03M848	903.1	06-Aug-89	23 F	838.0	03U002	917.8	23-Jun-88	18 A	850.3
03M848	903.1	03-Nov-89	24 F	837.7	03U002	917.8	27-Jul-88	19 A	849.0
03M848	903.1	19-Jul-90	27 F	837.2	03U002	917.8	30-Aug-88	19 F	847.7
03M848	903.1	17-Sep-90	28 F	836.6	03U002	917.8	01-Sep-88	19 A	847.6
03M848	903.1	18-Mar-91	30 F	837.3	03U002	917.8	21-Sep-88	19 A	847.3
03M848	903.1	04-Jun-91	31 F	836.8	03U002	917.8	14-Oct-88	20 A	847.2
03M848	903.1	04-Sep-91	32 F	835.9	03U002	917.8	22-Nov-88	20 F	848.4
					03U002	917.8	02-Dec-88	20 A	848.7
03U001	888.2	17-Nov-87	16 A	849.8	03U002	917.8	13-Jan-89	21 A	849.7
03U001	888.2	24-Nov-87	16 A	849.4	03U002	917.8	31-Mar-89	21 A	845.4
03U001	888.2	30-Nov-87	16 A	849.8	03U002	917.8	07-Jul-89	23 A	844.2
03U001	888.2	14-Dec-87	16 F	849.5	03U002	917.8	05-Aug-89	23 F	843.9
03U001	888.2	11-Jan-88	17 A	849.8	03U002	917.8	05-Oct-89	24 A	843.5
03U001	888.2	13-Apr-88	18 F	850.4	03U002	917.8	02-Nov-89	24 F	843.2
03U001	888.2	02-May-88	18 A	849.5	03U002	917.8	21-Dec-89	24 A	842.7
03U001	888.2	20-May-88	18 A	848.9	03U002	917.8	11-Jan-90	25 A	842.6
03U001	888.2	23-Jun-88	18 A	846.3	03U002	917.8	16-May-90	26 A	842.7
03U001	888.2	27-Jul-88	19 A	845.2	03U002	917.8	16-Jul-90	27 A	842.5
03U001	888.2	30-Aug-88	19 F	845.3	03U002	917.8	28-Feb-91	30 A	843.2
03U001	888.2	01-Sep-88	19 A	844.9	03U002	917.8	03-Jun-91	31 A	843.0
03U001	888.2	21-Sep-88	19 A	845.0	03U002	917.8	03-Sep-91	32 A	842.4
03U001	888.2	14-Oct-88	20 A	845.5	03U002	917.8	27-Sep-91	32 A	842.7
03U001	888.2	22-Nov-88	20 F	846.6					
03U001	888.2	02-Dec-88	20 A	846.5	03U003	942.6	17-Nov-87	16 A	852.9
03U001	888.2	13-Jan-89	21 A	846.6	03U003	942.6	24-Nov-87	16 A	852.5
03U001	888.2	31-Mar-89	21 A	844.2	03U003	942.6	30-Nov-87	16 A	852.6
03U001	888.2	05-Aug-89	23 F	841.6	03U003	942.6	14-Dec-87	16 F	852.4
03U001	888.2	05-Oct-89	24 A	841.5	03U003	942.6	14-Dec-87	16 A	852.5
03U001	888.2	02-Nov-89	24 F	841.7	03U003	942.6	11-Jan-88	17 A	852.3
03U001	888.2	21-Dec-89	24 A	841.5	03U003	942.6	26-Jan-88	17 F	852.5
03U001	888.2	11-Jan-90	25 A	841.5	03U003	942.6	14-Apr-88	18 F	854.2
03U001	888.2	16-May-90	26 A	841.8	03U003	942.6	02-May-88	18 A	853.5
03U001	888.2	16-Jul-90	27 A	841.4	03U003	942.6	20-May-88	18 A	852.8
03U001	888.2	28-Feb-91	30 A	842.4	03U003	942.6	23-Jun-88	18 A	852.4
03U001	888.2	03-Jun-91	31 A	842.1	03U003	942.6	27-Jul-88	19 A	850.9
03U001	888.2	03-Sep-91	32 A	841.1	03U003	942.6	30-Aug-88	19 F	849.7
03U001	888.2	27-Sep-91	32 A	841.8	03U003	942.6	01-Sep-88	19 A	849.5

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TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U003	942.6	21-Sep-88	19 A	849.2	03U005	970.1	14-Dec-87	16 A	857.1
03U003	942.6	14-Oct-88	20 A	848.8	03U005	970.1	11-Jan-88	17 A	857.7
03U003	942.6	22-Nov-88	20 F	849.4	03U005	970.1	26-Jan-88	17 F	857.2
03U003	942.6	02-Dec-88	20 A	849.8	03U005	970.1	14-Apr-88	18 F	857.6
03U003	942.6	13-Jan-89	21 A	849.7	03U005	970.1	02-May-88	18 A	857.4
03U003	942.6	31-Mar-89	21 A	846.8	03U005	970.1	20-May-88	18 A	857.0
03U003	942.6	07-Jul-89	23 A	845.5	03U005	970.1	23-Jun-88	18 A	855.9
03U003	942.6	05-Aug-89	23 F	845.7	03U005	970.1	27-Jul-88	19 A	854.3
03U003	942.6	05-Oct-89	24 A	844.9	03U005	970.1	30-Aug-88	19 F	853.7
03U003	942.6	21-Dec-89	24 A	844.5	03U005	970.1	01-Sep-88	19 A	853.4
03U003	942.6	11-Jan-90	25 A	844.2	03U005	970.1	21-Sep-88	19 A	853.1
03U003	942.6	16-May-90	26 A	844.2	03U005	970.1	14-Oct-88	20 A	853.2
03U003	942.6	16-Jul-90	27 A	843.8	03U005	970.1	22-Nov-88	20 F	853.2
03U003	942.6	28-Feb-91	30 A	844.5	03U005	970.1	02-Dec-88	20 A	852.8
03U003	942.6	03-Jun-91	31 A	844.3	03U005	970.1	13-Jan-89	21 A	853.2
03U003	942.6	03-Sep-91	32 A	843.8	03U005	970.1	31-Mar-89	21 A	852.5
03U003	942.6	27-Sep-91	32 A	843.9	03U005	970.1	05-Aug-89	23 F	851.0
					03U005	970.1	05-Oct-89	24 A	850.7
03U004	950.5	17-Nov-87	16 A	856.1	03U005	970.1	03-Nov-89	24 F	850.4
03U004	950.5	24-Nov-87	16 A	855.9	03U005	970.1	21-Dec-89	24 A	850.1
03U004	950.5	30-Nov-87	16 A	856.0	03U005	970.1	11-Jan-90	25 A	850.0
03U004	950.5	14-Dec-87	16 A	855.8	03U005	970.1	24-Apr-90	26 F	850.0
03U004	950.5	11-Jan-88	17 A	855.9	03U005	970.1	16-May-90	26 A	849.8
03U004	950.5	27-Jan-88	17 F	856.0	03U005	970.1	28-Feb-91	30 A	850.3
03U004	950.5	14-Apr-88	18 F	856.6	03U005	970.1	29-Mar-91	30 F	849.8
03U004	950.5	02-May-88	18 A	856.4	03U005	970.1	27-Sep-91	32 A	849.9
03U004	950.5	20-May-88	18 A	856.0					
03U004	950.5	23-Jun-88	18 A	855.0	03U006	966.6	24-Nov-87	16 A	858.1
03U004	950.5	27-Jul-88	19 A	853.8	03U006	966.6	30-Nov-87	16 A	858.6
03U004	950.5	30-Aug-88	19 F	852.7	03U006	966.6	14-Dec-87	16 A	858.3
03U004	950.5	01-Sep-88	19 A	852.4	03U006	966.6	11-Jan-88	17 A	859.0
03U004	950.5	21-Sep-88	19 A	852.2	03U006	966.6	26-Jan-88	17 F	858.5
03U004	950.5	14-Oct-88	20 A	851.9	03U006	966.6	13-Apr-88	18 F	859.1
03U004	950.5	22-Nov-88	20 F	852.0	03U006	966.6	02-May-88	18 A	858.9
03U004	950.5	02-Dec-88	20 A	852.2	03U006	966.6	20-May-88	18 A	858.5
03U004	950.5	13-Jan-89	21 A	852.5	03U006	966.6	23-Jun-88	18 A	857.4
03U004	950.5	31-Mar-89	21 A	851.2	03U006	966.6	27-Jul-88	19 A	856.1
03U004	950.5	05-Aug-89	23 F	849.8	03U006	966.6	30-Aug-88	19 F	854.9
03U004	950.5	05-Oct-89	24 A	849.0	03U006	966.6	01-Sep-88	19 A	855.0
03U004	950.5	04-Nov-89	24 F	848.9	03U006	966.6	21-Sep-88	19 A	854.3
03U004	950.5	21-Dec-89	24 A	848.7	03U006	966.6	14-Oct-88	20 A	854.6
03U004	950.5	11-Jan-90	25 A	848.5	03U006	966.6	22-Nov-88	20 F	854.4
03U004	950.5	16-May-90	26 A	848.4	03U006	966.6	02-Dec-88	20 A	854.4
03U004	950.5	28-Feb-91	30 A	848.9	03U006	966.6	13-Jan-89	21 A	854.7
03U004	950.5	27-Sep-91	32 A	848.4	03U006	966.6	31-Mar-89	21 A	854.0
					03U006	966.6	05-Aug-89	23 F	852.7
03U005	970.1	30-Nov-87	16 A	857.2	03U006	966.6	05-Oct-89	24 A	851.8
03U005	970.1	14-Dec-87	16 F	857.2	03U006	966.6	02-Nov-89	24 F	851.5

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U006	966.6	21-Dec-89	24 A	851.5	03U008	914.8	13-Apr-88	18 F	864.4
03U006	966.6	11-Jan-90	25 A	851.3	03U008	914.8	02-May-88	18 A	863.6
03U006	966.6	30-Apr-90	26 F	852.9	03U008	914.8	20-May-88	18 A	862.9
03U006	966.6	16-May-90	26 A	851.2	03U008	914.8	23-Jun-88	18 A	858.5
03U006	966.6	28-Feb-91	30 A	851.8	03U008	914.8	27-Jul-88	19 A	856.7
03U006	966.6	28-Mar-91	30 F	850.2	03U008	914.8	30-Aug-88	19 F	857.7
03U006	966.6	27-Sep-91	32 A	851.0	03U008	914.8	01-Sep-88	19 A	857.8
03U007	900.1	24-Nov-87	16 A	859.5	03U008	914.8	21-Sep-88	19 A	858.1
03U007	900.1	30-Nov-87	16 A	860.0	03U008	914.8	14-Oct-88	20 A	859.0
03U007	900.1	14-Dec-87	16 F	859.7	03U008	914.8	22-Nov-88	20 F	859.8
03U007	900.1	11-Jan-88	17 A	860.2	03U008	914.8	02-Dec-88	20 A	859.9
03U007	900.1	26-Jan-88	17 F	859.9	03U008	914.8	13-Jan-89	21 A	860.2
03U007	900.1	13-Apr-88	18 F	860.3	03U008	914.8	31-Mar-89	21 A	860.9
03U007	900.1	02-May-88	18 A	859.8	03U008	914.8	05-Aug-89	23 F	857.0
03U007	900.1	20-May-88	18 A	859.4	03U008	914.8	05-Oct-89	24 A	857.6
03U007	900.1	23-Jun-88	18 A	857.0	03U008	914.8	02-Nov-89	24 F	857.9
03U007	900.1	27-Jul-88	19 A	855.5	03U008	914.8	21-Dec-89	24 A	858.3
03U007	900.1	30-Aug-88	19 F	855.2	03U008	914.8	11-Jan-90	25 A	858.3
03U007	900.1	01-Sep-88	19 A	855.2	03U008	914.8	23-Apr-90	26 F	856.3
03U007	900.1	21-Sep-88	19 A	854.9	03U008	914.8	16-May-90	26 A	857.9
03U007	900.1	14-Oct-88	20 A	855.3	03U008	914.8	28-Feb-91	30 A	859.5
03U007	900.1	22-Nov-88	20 F	855.6	03U008	914.8	01-Apr-91	30 F	859.2
03U007	900.1	02-Dec-88	20 A	855.7	03U008	914.8	27-Sep-91	32 A	859.5
03U007	900.1	13-Jan-89	21 A	856.0	03U009	912.9	24-Nov-87	16 A	865.6
03U007	900.1	31-Mar-89	21 A	855.5	03U009	912.9	30-Nov-87	16 A	866.0
03U007	900.1	07-Jul-89	23 A	853.8	03U009	912.9	14-Dec-87	16 A	865.9
03U007	900.1	05-Aug-89	23 F	853.0	03U009	912.9	14-Dec-87	16 F	866.0
03U007	900.1	05-Oct-89	24 A	852.9	03U009	912.9	11-Jan-88	17 A	866.4
03U007	900.1	02-Nov-89	24 F	852.9	03U009	912.9	26-Jan-88	17 F	866.2
03U007	900.1	21-Dec-89	24 A	853.0	03U009	912.9	13-Apr-88	18 F	866.0
03U007	900.1	11-Jan-90	25 A	852.9	03U009	912.9	02-May-88	18 A	864.9
03U007	900.1	23-Apr-90	26 F	852.7	03U009	912.9	20-May-88	18 A	864.4
03U007	900.1	16-May-90	26 A	852.6	03U009	912.9	23-Jun-88	18 A	859.1
03U007	900.1	16-Jul-90	27 A	852.4	03U009	912.9	27-Jul-88	19 A	857.5
03U007	900.1	19-Jul-90	27 F	852.5	03U009	912.9	30-Aug-88	19 F	859.4
03U007	900.1	28-Feb-91	30 A	853.5	03U009	912.9	01-Sep-88	19 A	859.5
03U007	900.1	28-Mar-91	30 F	853.0	03U009	912.9	21-Sep-88	19 A	859.9
03U007	900.1	03-Jun-91	31 A	853.2	03U009	912.9	14-Oct-88	20 A	860.9
03U007	900.1	03-Sep-91	32 A	852.6	03U009	912.9	22-Nov-88	20 F	861.7
03U007	900.1	27-Sep-91	32 A	853.0	03U009	912.9	02-Dec-88	20 A	861.9
03U008	914.8	24-Nov-87	16 A	863.7	03U009	912.9	13-Jan-89	21 A	862.0
03U008	914.8	30-Nov-87	16 A	864.1	03U009	912.9	31-Mar-89	21 A	862.8
03U008	914.8	14-Dec-87	16 A	864.0	03U009	912.9	05-Aug-89	23 F	857.9
03U008	914.8	14-Dec-87	16 F	864.1	03U009	912.9	05-Oct-89	24 A	859.2
03U008	914.8	11-Jan-88	17 A	864.6	03U009	912.9	02-Nov-89	24 F	859.8
03U008	914.8	26-Jan-88	17 F	864.4	03U009	912.9	21-Dec-89	24 A	860.2
					03U009	912.9	11-Jan-90	25 A	860.3

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U009	912.9	23-Apr-90	26 F	859.4	03U011	900.4	22-Nov-88	20 F	858.8
03U009	912.9	16-May-90	26 A	859.9	03U011	900.4	02-Dec-88	20 A	858.8
03U009	912.9	28-Feb-91	30 A	870.4	03U011	900.4	13-Jan-89	21 A	859.1
03U009	912.9	28-Mar-91	30 F	861.2	03U011	900.4	31-Mar-89	21 A	860.8
03U009	912.9	27-Sep-91	32 A	861.9	03U011	900.4	05-Aug-89	23 F	857.2
03U010	888.3	24-Nov-87	16 A	865.5	03U011	900.4	05-Oct-89	24 A	857.3
03U010	888.3	30-Nov-87	16 A	865.9	03U011	900.4	02-Nov-89	24 F	857.7
03U010	888.3	14-Dec-87	16 A	865.9	03U011	900.4	21-Dec-89	24 A	858.1
03U010	888.3	11-Jan-88	17 A	866.3	03U011	900.4	11-Jan-90	25 A	858.2
03U010	888.3	26-Jan-88	17 F	866.1	03U011	900.4	27-Apr-90	26 F	858.0
03U010	888.3	13-Apr-88	18 F	865.9	03U011	900.4	16-May-90	26 A	857.8
03U010	888.3	02-May-88	18 A	865.0	03U011	900.4	28-Feb-91	30 A	859.1
03U010	888.3	20-May-88	18 A	864.5	03U011	900.4	01-Apr-91	30 F	859.1
03U010	888.3	23-Jun-88	18 A	859.1	03U011	900.4	27-Sep-91	32 A	859.3
03U010	888.3	27-Jul-88	19 A	857.6	03U012	880.0	17-Nov-87	16 A	859.7
03U010	888.3	30-Aug-88	19 F	859.5	03U012	880.0	24-Nov-87	16 A	859.6
03U010	888.3	01-Sep-88	19 A	859.5	03U012	880.0	30-Nov-87	16 A	860.0
03U010	888.3	21-Sep-88	19 A	860.0	03U012	880.0	14-Dec-87	16 A	859.9
03U010	888.3	14-Oct-88	20 A	860.9	03U012	880.0	11-Jan-88	17 A	860.2
03U010	888.3	22-Nov-88	20 F	861.6	03U012	880.0	27-Jan-88	17 F	860.0
03U010	888.3	02-Dec-88	20 A	861.7	03U012	880.0	13-Apr-88	18 F	859.8
03U010	888.3	13-Jan-89	21 A	861.8	03U012	880.0	02-May-88	18 A	859.4
03U010	888.3	31-Mar-89	21 A	863.0	03U012	880.0	20-May-88	18 A	858.9
03U010	888.3	05-Aug-89	23 F	858.2	03U012	880.0	23-Jun-88	18 A	854.8
03U010	888.3	05-Oct-89	24 A	859.3	03U012	880.0	27-Jul-88	19 A	853.6
03U010	888.3	02-Nov-89	24 F	859.9	03U012	880.0	30-Aug-88	19 F	854.5
03U010	888.3	21-Dec-89	24 A	860.3	03U012	880.0	01-Sep-88	19 A	854.4
03U010	888.3	11-Jan-90	25 A	860.5	03U012	880.0	21-Sep-88	19 A	854.7
03U010	888.3	27-Apr-90	26 F	860.0	03U012	880.0	14-Oct-88	20 A	855.3
03U010	888.3	16-May-90	26 A	860.1	03U012	880.0	22-Nov-88	20 F	855.8
03U010	888.3	28-Feb-91	30 A	861.5	03U012	880.0	02-Dec-88	20 A	855.9
03U010	888.3	01-Apr-91	30 F	861.4	03U012	880.0	13-Jan-89	21 A	856.3
03U010	888.3	27-Sep-91	32 A	862.1	03U012	880.0	31-Mar-89	21 A	856.6
03U011	900.4	24-Nov-87	16 A	862.9	03U012	880.0	07-Jul-89	23 A	853.6
03U011	900.4	30-Nov-87	16 A	863.2	03U012	880.0	05-Aug-89	23 F	852.8
03U011	900.4	14-Dec-87	16 F	863.4	03U012	880.0	05-Oct-89	24 A	853.2
03U011	900.4	11-Jan-88	17 A	863.6	03U012	880.0	02-Nov-89	24 F	853.6
03U011	900.4	13-Apr-88	18 F	862.3	03U012	880.0	21-Dec-89	24 A	853.9
03U011	900.4	02-May-88	18 A	862.8	03U012	880.0	11-Jan-90	25 A	854.1
03U011	900.4	20-May-88	18 A	862.4	03U012	880.0	16-May-90	26 A	853.7
03U011	900.4	23-Jun-88	18 A	858.3	03U012	880.0	16-Jul-90	27 A	853.7
03U011	900.4	27-Jul-88	19 A	856.7	03U012	880.0	28-Feb-91	30 A	855.0
03U011	900.4	30-Aug-88	19 F	857.6	03U012	880.0	03-Jun-91	31 A	855.3
03U011	900.4	01-Sep-88	19 A	857.5	03U012	880.0	03-Sep-91	32 A	853.9
03U011	900.4	21-Sep-88	19 A	857.8	03U012	880.0	27-Sep-91	32 A	855.0
03U011	900.4	14-Oct-88	20 A	858.3	03U013	889.9	17-Nov-87	16 A	852.8

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (?)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U013	889.9	24-Nov-87	16 A	852.5	03U014	988.2	05-Oct-89	24 A	849.7
03U013	889.9	30-Nov-87	16 A	852.9	03U014	988.2	02-Nov-89	24 F	849.6
03U013	889.9	14-Dec-87	16 F	852.7	03U014	988.2	21-Dec-89	24 A	849.5
03U013	889.9	11-Jan-88	17 A	853.0	03U014	988.2	11-Jan-90	25 A	849.3
03U013	889.9	27-Jan-88	17 F	852.7	03U014	988.2	16-May-90	26 A	849.2
03U013	889.9	13-Apr-88	18 F	853.2	03U014	988.2	16-Jul-90	27 A	849.0
03U013	889.9	02-May-88	18 A	852.5	03U014	988.2	28-Feb-91	30 A	849.8
03U013	889.9	20-May-88	18 A	852.0	03U014	988.2	03-Jun-91	31 A	849.8
03U013	889.9	23-Jun-88	18 A	849.1	03U014	988.2	03-Sep-91	32 A	849.3
03U013	889.9	27-Jul-88	19 A	848.0	03U014	988.2	27-Sep-91	32 A	849.5
03U013	889.9	30-Aug-88	19 F	848.2					
03U013	889.9	01-Sep-88	19 A	848.0	03U015	934.6	17-Nov-87	16 A	856.8
03U013	889.9	21-Sep-88	19 A	848.0	03U015	934.6	24-Nov-87	16 A	856.7
03U013	889.9	14-Oct-88	20 A	848.5	03U015	934.6	30-Nov-87	16 A	856.9
03U013	889.9	22-Nov-88	20 F	849.1	03U015	934.6	14-Dec-87	16 A	857.0
03U013	889.9	02-Dec-88	20 A	849.1	03U015	934.6	14-Dec-87	16 F	856.9
03U013	889.9	13-Jan-89	21 A	849.7	03U015	934.6	11-Jan-88	17 A	857.1
03U013	889.9	31-Mar-89	21 A	848.1	03U015	934.6	13-Apr-88	18 F	857.1
03U013	889.9	05-Aug-89	23 F	845.2	03U015	934.6	02-May-88	18 A	857.1
03U013	889.9	05-Oct-89	24 A	845.3	03U015	934.6	20-May-88	18 A	856.6
03U013	889.9	02-Nov-89	24 F	845.5	03U015	934.6	23-Jun-88	18 A	854.8
03U013	889.9	21-Dec-89	24 A	845.5	03U015	934.6	27-Jul-88	19 A	853.4
03U013	889.9	11-Jan-90	25 A	845.7	03U015	934.6	30-Aug-88	19 F	852.6
03U013	889.9	16-May-90	26 A	845.6	03U015	934.6	01-Sep-88	19 A	852.6
03U013	889.9	28-Feb-91	30 A	846.3	03U015	934.6	21-Sep-88	19 A	852.4
03U013	889.9	27-Sep-91	32 A	846.0	03U015	934.6	14-Oct-88	20 A	852.5
					03U015	934.6	22-Nov-88	20 F	852.7
03U014	988.2	17-Nov-87	16 A	856.7	03U015	934.6	02-Dec-88	20 A	852.8
03U014	988.2	24-Nov-87	16 A	856.6	03U015	934.6	13-Jan-89	21 A	853.0
03U014	988.2	30-Nov-87	16 A	856.6	03U015	934.6	31-Mar-89	21 A	852.7
03U014	988.2	14-Dec-87	16 A	856.8	03U015	934.6	05-Aug-89	23 F	850.6
03U014	988.2	15-Dec-87	16 F	856.8	03U015	934.6	05-Oct-89	24 A	850.1
03U014	988.2	11-Jan-88	17 A	856.9	03U015	934.6	02-Nov-89	24 F	850.0
03U014	988.2	26-Jan-88	17 F	856.7	03U015	934.6	21-Dec-89	24 A	850.1
03U014	988.2	14-Apr-88	18 F	857.2	03U015	934.6	11-Jan-90	25 A	850.0
03U014	988.2	02-May-88	18 A	857.0	03U015	934.6	01-May-90	26 F	849.9
03U014	988.2	20-May-88	18 A	855.5	03U015	934.6	16-May-90	26 A	849.9
03U014	988.2	23-Jun-88	18 A	855.7	03U015	934.6	28-Feb-91	30 A	850.8
03U014	988.2	27-Jul-88	19 A	854.2	03U015	934.6	26-Mar-91	30 F	850.7
03U014	988.2	30-Aug-88	19 F	853.1	03U015	934.6	27-Sep-91	32 A	850.6
03U014	988.2	01-Sep-88	19 A	853.1					
03U014	988.2	21-Sep-88	19 A	852.7	03U016	947.0	24-Nov-87	16 A	859.0
03U014	988.2	14-Oct-88	20 A	852.5	03U016	947.0	30-Nov-87	16 A	859.1
03U014	988.2	22-Nov-88	20 F	851.5	03U016	947.0	14-Dec-87	16 A	859.3
03U014	988.2	02-Dec-88	20 A	852.7	03U016	947.0	11-Jan-88	17 A	859.4
03U014	988.2	13-Jan-89	21 A	852.8	03U016	947.0	27-Jan-88	17 F	859.4
03U014	988.2	31-Mar-89	21 A	852.0	03U016	947.0	13-Apr-88	18 F	859.3
03U014	988.2	05-Aug-89	23 F	850.6	03U016	947.0	02-May-88	18 A	859.3

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U016	947.0	20-May-88	18 A	859.0	03U018	988.7	24-Nov-87	16 A	856.5
03U016	947.0	23-Jun-88	18 A	857.2	03U018	988.7	30-Nov-87	16 A	856.5
03U016	947.0	27-Jul-88	19 A	855.4	03U018	988.7	14-Dec-87	16 F	856.6
03U016	947.0	30-Aug-88	19 F	854.7	03U018	988.7	14-Dec-87	16 A	856.7
03U016	947.0	01-Sep-88	19 A	854.8	03U018	988.7	11-Jan-88	17 A	856.8
03U016	947.0	21-Sep-88	19 A	854.7	03U018	988.7	27-Jan-88	17 F	856.8
03U016	947.0	14-Oct-88	20 A	854.7	03U018	988.7	14-Apr-88	18 F	857.0
03U016	947.0	22-Nov-88	20 F	854.7	03U018	988.7	02-May-88	18 A	856.9
03U016	947.0	02-Dec-88	20 A	854.9	03U018	988.7	20-May-88	18 A	856.5
03U016	947.0	13-Jan-89	21 A	855.1	03U018	988.7	23-Jun-88	18 A	855.3
03U016	947.0	31-Mar-89	21 A	855.4	03U018	988.7	27-Jul-88	19 A	853.8
03U016	947.0	05-Oct-89	24 A	852.8	03U018	988.7	30-Aug-88	19 F	852.8
03U016	947.0	06-Nov-89	24 F	852.8	03U018	988.7	01-Sep-88	19 A	852.7
03U016	947.0	21-Dec-89	24 A	852.8	03U018	988.7	21-Sep-88	19 A	852.5
03U016	947.0	11-Jan-90	25 A	864.8	03U018	988.7	14-Oct-88	20 A	852.4
03U016	947.0	01-May-90	26 F	852.8	03U018	988.7	22-Nov-88	20 F	852.4
03U016	947.0	16-May-90	26 A	852.7	03U018	988.7	02-Dec-88	20 A	852.6
03U016	947.0	28-Feb-91	30 A	853.6	03U018	988.7	13-Jan-89	21 A	852.8
03U016	947.0	25-Mar-91	30 F	853.4	03U018	988.7	31-Mar-89	21 A	852.0
03U016	947.0	27-Sep-91	32 A	853.4	03U018	988.7	05-Aug-89	23 F	850.3
03U017	939.0	17-Nov-87	16 A	854.3	03U018	988.7	05-Oct-89	24 A	849.7
03U017	939.0	24-Nov-87	16 A	854.1	03U018	988.7	04-Nov-89	24 F	849.5
03U017	939.0	14-Dec-87	16 A	854.4	03U018	988.7	21-Dec-89	24 A	849.2
03U017	939.0	15-Dec-87	16 F	854.4	03U018	988.7	11-Jan-90	25 A	849.2
03U017	939.0	11-Jan-88	17 A	854.4	03U018	988.7	16-May-90	26 A	849.2
03U017	939.0	27-Jan-88	17 F	854.3	03U018	988.7	28-Feb-91	30 A	849.9
03U017	939.0	13-Apr-88	18 F	855.1	03U018	988.7	27-Sep-91	32 A	849.6
03U017	939.0	02-May-88	18 A	854.5	03U019	943.5	24-Nov-87	16 A	857.7
03U017	939.0	20-May-88	18 A	854.1	03U019	943.5	30-Nov-87	16 A	857.8
03U017	939.0	23-Jun-88	18 A	852.8	03U019	943.5	14-Dec-87	16 A	857.8
03U017	939.0	27-Jul-88	19 A	851.3	03U019	943.5	11-Jan-88	17 A	858.1
03U017	939.0	30-Aug-88	19 F	850.5	03U019	943.5	27-Jan-88	17 F	858.1
03U017	939.0	01-Sep-88	19 A	850.2	03U019	943.5	14-Apr-88	18 F	858.2
03U017	939.0	21-Sep-88	19 A	850.2	03U019	943.5	02-May-88	18 A	858.1
03U017	939.0	14-Oct-88	20 A	850.0	03U019	943.5	20-May-88	18 A	857.8
03U017	939.0	22-Nov-88	20 F	850.6	03U019	943.5	23-Jun-88	18 A	856.7
03U017	939.0	02-Dec-88	20 A	850.7	03U019	943.5	27-Jul-88	19 A	855.1
03U017	939.0	13-Jan-89	21 A	851.0	03U019	943.5	30-Aug-88	19 F	854.1
03U017	939.0	31-Mar-89	21 A	849.2	03U019	943.5	01-Sep-88	19 A	854.0
03U017	939.0	05-Aug-89	23 F	847.3	03U019	943.5	21-Sep-88	19 A	853.7
03U017	939.0	05-Oct-89	24 A	847.1	03U019	943.5	14-Oct-88	20 A	853.5
03U017	939.0	04-Nov-89	24 F	846.8	03U019	943.5	22-Nov-88	20 F	853.6
03U017	939.0	21-Dec-89	24 A	846.5	03U019	943.5	02-Dec-88	20 A	853.7
03U017	939.0	11-Jan-90	25 A	846.3	03U019	943.5	13-Jan-89	21 A	853.9
03U017	939.0	16-May-90	26 A	846.5	03U019	943.5	31-Mar-89	21 A	853.6
03U017	939.0	28-Feb-91	30 A	847.1	03U019	943.5	05-Aug-89	23 F	852.1
03U017	939.0	27-Sep-91	32 A	846.8					

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U019	943.5	05-Oct-89	24 A	851.2	03U021	944.2	14-Apr-88	18 F	854.3
03U019	943.5	04-Nov-89	24 F	851.1	03U021	944.2	02-May-88	18 A	853.3
03U019	943.5	21-Dec-89	24 A	851.0	03U021	944.2	30-Aug-88	19 F	849.4
03U019	943.5	11-Jan-90	25 A	850.9	03U021	944.2	13-Jan-89	21 A	849.8
03U019	943.5	01-May-90	26 F	850.9	03U021	944.2	31-Mar-89	21 A	847.3
03U019	943.5	16-May-90	26 A	850.8	03U021	944.2	05-Aug-89	23 F	845.9
03U019	943.5	19-Jul-90	27 F	850.8	03U021	944.2	05-Oct-89	24 A	845.3
03U019	943.5	28-Feb-91	30 A	851.5	03U021	944.2	04-Nov-89	24 F	845.1
03U019	943.5	27-Mar-91	30 F	851.4	03U021	944.2	21-Dec-89	24 A	844.6
03U019	943.5	27-Sep-91	32 A	851.2	03U021	944.2	11-Jan-90	25 A	844.6
03U020	954.2	17-Nov-87	16 A	854.6	03U021	944.2	16-May-90	26 A	844.6
03U020	954.2	24-Nov-87	16 A	854.5	03U021	944.2	28-Feb-91	30 A	845.1
03U020	954.2	30-Nov-87	16 A	854.5	03U021	944.2	27-Sep-91	32 A	844.9
03U020	954.2	14-Dec-87	16 A	854.4	03U022	899.4	24-Nov-87	16 A	860.3
03U020	954.2	14-Dec-87	16 F	854.3	03U022	899.4	30-Nov-87	16 A	860.5
03U020	954.2	11-Jan-88	17 A	854.7	03U022	899.4	14-Dec-87	16 A	860.7
03U020	954.2	27-Jan-88	17 F	854.6	03U022	899.4	11-Jan-88	17 A	860.9
03U020	954.2	14-Apr-88	18 F	855.5	03U022	899.4	27-Jan-88	17 F	860.9
03U020	954.2	02-May-88	18 A	855.0	03U022	899.4	13-Apr-88	18 F	860.4
03U020	954.2	20-May-88	18 A	854.5	03U022	899.4	02-May-88	18 A	860.4
03U020	954.2	23-Jun-88	18 A	853.5	03U022	899.4	20-May-88	18 A	860.0
03U020	954.2	27-Jul-88	19 A	852.0	03U022	899.4	23-Jun-88	18 A	856.7
03U020	954.2	30-Aug-88	19 F	850.9	03U022	899.4	27-Jul-88	19 A	855.2
03U020	954.2	01-Sep-88	19 A	850.8	03U022	899.4	30-Aug-88	19 F	855.4
03U020	954.2	21-Sep-88	19 A	850.7	03U022	899.4	01-Sep-88	19 A	855.4
03U020	954.2	14-Oct-88	20 A	850.4	03U022	899.4	21-Sep-88	19 A	855.5
03U020	954.2	22-Nov-88	20 F	850.8	03U022	899.4	14-Oct-88	20 A	855.8
03U020	954.2	02-Dec-88	20 A	851.1	03U022	899.4	22-Nov-88	20 F	856.0
03U020	954.2	13-Jan-89	21 A	850.9	03U022	899.4	02-Dec-88	20 A	856.1
03U020	954.2	31-Mar-89	21 A	849.4	03U022	899.4	13-Jan-89	21 A	856.4
03U020	954.2	07-Jul-89	23 A	848.2	03U022	899.4	31-Mar-89	21 A	857.5
03U020	954.2	05-Aug-89	23 F	847.9	03U022	899.4	05-Aug-89	23 F	854.5
03U020	954.2	05-Oct-89	24 A	847.2	03U022	899.4	05-Oct-89	24 A	854.4
03U020	954.2	04-Nov-89	24 F	846.0	03U022	899.4	02-Nov-89	24 F	854.5
03U020	954.2	21-Dec-89	24 A	846.7	03U022	899.4	21-Dec-89	24 A	854.9
03U020	954.2	11-Jan-90	25 A	846.5	03U022	899.4	11-Jan-90	25 A	855.0
03U020	954.2	16-May-90	26 A	846.7	03U022	899.4	30-Apr-90	26 F	854.5
03U020	954.2	16-Jul-90	27 A	846.5	03U022	899.4	16-May-90	26 A	854.7
03U020	954.2	28-Feb-91	30 A	847.2	03U022	899.4	28-Feb-91	30 A	855.9
03U020	954.2	03-Jun-91	31 A	847.1	03U022	899.4	19-Mar-91	30 F	855.6
03U020	954.2	03-Sep-91	32 A	846.7	03U022	899.4	27-Sep-91	32 A	855.9
03U020	954.2	27-Sep-91	32 A	846.9	03U023	899.4	24-Nov-87	16 A	860.1
03U021	944.2	30-Nov-87	16 A	853.0	03U023	899.4	30-Nov-87	16 A	860.4
03U021	944.2	14-Dec-87	16 A	852.6	03U023	899.4	14-Dec-87	16 F	860.5
03U021	944.2	15-Dec-87	16 F	852.7	03U023	899.4	14-Dec-87	16 A	860.4
03U021	944.2	28-Jan-88	17 F	852.8	03U023	899.4	11-Jan-88	17 A	860.7

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U023	899.4	27-Jan-88	17 F	860.7	03U024	894.5	30-Apr-90	26 F	859.1
03U023	899.4	13-Apr-88	18 F	860.3	03U024	894.5	16-May-90	26 A	853.1
03U023	899.4	02-May-88	18 A	860.0	03U024	894.5	28-Feb-91	30 A	854.2
03U023	899.4	20-May-88	18 A	859.6	03U024	894.5	01-Apr-91	30 F	854.0
03U023	899.4	23-Jun-88	18 A	856.8	03U024	894.5	27-Sep-91	32 A	854.2
03U023	899.4	27-Jul-88	19 A	854.5					
03U023	899.4	30-Aug-88	19 F	855.1	03U025	886.6	17-Nov-87	16 A	857.4
03U023	899.4	01-Sep-88	19 A	855.1	03U025	886.6	24-Nov-87	16 A	857.3
03U023	899.4	21-Sep-88	19 A	855.2	03U025	886.6	30-Nov-87	16 A	858.6
03U023	899.4	14-Oct-88	20 A	855.8	03U025	886.6	14-Dec-87	16 A	857.6
03U023	899.4	22-Nov-88	20 F	856.1	03U025	886.6	11-Jan-88	17 A	857.7
03U023	899.4	02-Dec-88	20 A	856.1	03U025	886.6	26-Jan-88	17 F	857.7
03U023	899.4	13-Jan-89	21 A	856.4	03U025	886.6	13-Apr-88	18 F	855.2
03U023	899.4	31-Mar-89	21 A	857.2	03U025	886.6	02-May-88	18 A	857.3
03U023	899.4	05-Aug-89	23 F	853.8	03U025	886.6	20-May-88	18 A	857.0
03U023	899.4	05-Oct-89	24 A	854.0	03U025	886.6	23-Jun-88	18 A	854.0
03U023	899.4	02-Nov-89	24 F	854.2	03U025	886.6	27-Jul-88	19 A	852.7
03U023	899.4	21-Dec-89	24 A	854.6	03U025	886.6	30-Aug-88	19 F	852.7
03U023	899.4	11-Jan-90	25 A	854.7	03U025	886.6	01-Sep-88	19 A	852.7
03U023	899.4	25-Apr-90	26 F	854.4	03U025	886.6	21-Sep-88	19 A	852.6
03U023	899.4	16-May-90	26 A	854.3	03U025	886.6	14-Oct-88	20 A	853.0
03U023	899.4	28-Feb-91	30 A	855.6	03U025	886.6	22-Nov-88	20 F	853.4
03U023	899.4	19-Mar-91	30 F	854.8	03U025	886.6	02-Dec-88	20 A	853.4
03U023	899.4	27-Sep-91	32 A	855.7	03U025	886.6	13-Jan-89	21 A	853.8
					03U025	886.6	31-Mar-89	21 A	853.7
03U024	894.5	24-Nov-87	16 A	859.1	03U025	886.6	05-Aug-89	23 F	850.8
03U024	894.5	30-Nov-87	16 A	859.3	03U025	886.6	05-Oct-89	24 A	850.7
03U024	894.5	14-Dec-87	16 A	859.4	03U025	886.6	02-Nov-89	24 F	850.9
03U024	894.5	11-Jan-88	17 A	859.6	03U025	886.6	21-Dec-89	24 A	851.1
03U024	894.5	27-Jan-88	17 F	859.5	03U025	886.6	11-Jan-90	25 A	851.2
03U024	894.5	14-Apr-88	18 F	859.0	03U025	886.6	30-Apr-90	26 F	854.9
03U024	894.5	02-May-88	18 A	859.1	03U025	886.6	16-May-90	26 A	850.9
03U024	894.5	20-May-88	18 A	858.8	03U025	886.6	28-Feb-91	30 A	852.0
03U024	894.5	23-Jun-88	18 A	855.8	03U025	886.6	01-Apr-91	30 F	851.8
03U024	894.5	27-Jul-88	19 A	854.4	03U025	886.6	27-Sep-91	32 A	851.9
03U024	894.5	30-Aug-88	19 F	854.5					
03U024	894.5	01-Sep-88	19 A	854.4	03U026	974.7	24-Nov-87	16 A	857.1
03U024	894.5	21-Sep-88	19 A	854.4	03U026	974.7	30-Nov-87	16 A	857.2
03U024	894.5	14-Oct-88	20 A	854.7	03U026	974.7	14-Dec-87	16 A	857.3
03U024	894.5	22-Nov-88	20 F	854.8	03U026	974.7	14-Dec-87	16 F	857.4
03U024	894.5	02-Dec-88	20 A	854.9	03U026	974.7	11-Jan-88	17 A	857.5
03U024	894.5	13-Jan-89	21 A	855.1	03U026	974.7	26-Jan-88	17 F	857.5
03U024	894.5	31-Mar-89	21 A	856.0	03U026	974.7	14-Apr-88	18 F	857.7
03U024	894.5	05-Aug-89	23 F	853.1	03U026	974.7	02-May-88	18 A	857.6
03U024	894.5	05-Oct-89	24 A	852.9	03U026	974.7	20-May-88	18 A	857.2
03U024	894.5	02-Nov-89	24 F	853.0	03U026	974.7	23-Jun-88	18 A	854.1
03U024	894.5	21-Dec-89	24 A	853.3	03U026	974.7	27-Jul-88	19 A	854.5
03U024	894.5	11-Jan-90	25 A	853.4	03U026	974.7	30-Aug-88	19 F	853.5

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U026	974.7	01-Sep-88	19 A	853.5	03U028	957.2	11-Jan-88	17 A	854.3
03U026	974.7	21-Sep-88	19 A	853.2	03U028	957.2	27-Jan-88	17 F	854.2
03U026	974.7	14-Oct-88	20 A	853.0	03U028	957.2	14-Apr-88	18 F	855.4
03U026	974.7	22-Nov-88	20 F	853.1	03U028	957.2	02-May-88	18 A	854.7
03U026	974.7	02-Dec-88	20 A	853.2	03U028	957.2	20-May-88	18 A	854.2
03U026	974.7	13-Jan-89	21 A	853.3	03U028	957.2	23-Jun-88	18 A	853.4
03U026	974.7	31-Mar-89	21 A	852.9	03U028	957.2	27-Jul-88	19 A	851.9
03U026	974.7	05-Aug-89	23 F	851.5	03U028	957.2	30-Aug-88	19 F	850.7
03U026	974.7	05-Oct-89	24 A	850.6	03U028	957.2	01-Sep-88	19 A	850.6
03U026	974.7	02-Nov-89	24 F	850.5	03U028	957.2	21-Sep-88	19 A	850.4
03U026	974.7	21-Dec-89	24 A	850.4	03U028	957.2	14-Oct-88	20 A	850.1
03U026	974.7	11-Jan-90	25 A	850.3	03U028	957.2	22-Nov-88	20 F	850.8
03U026	974.7	01-May-90	26 F	850.3	03U028	957.2	02-Dec-88	20 A	850.6
03U026	974.7	19-Jul-90	27 F	850.2	03U028	957.2	13-Jan-89	21 A	850.9
03U026	974.7	21-Sep-90	28 F	850.0	03U028	957.2	31-Mar-89	21 A	848.9
03U026	974.7	29-Mar-91	30 F	850.7	03U028	957.2	05-Aug-89	23 F	847.7
					03U028	957.2	05-Oct-89	24 A	846.9
03U027	966.3	17-Nov-87	16 A	854.8	03U028	957.2	03-Nov-89	24 F	846.7
03U027	966.3	24-Nov-87	16 A	854.7	03U028	957.2	21-Dec-89	24 A	846.5
03U027	966.3	30-Nov-87	16 A	854.8	03U028	957.2	11-Jan-90	25 A	846.4
03U027	966.3	14-Dec-87	16 F	854.7	03U028	957.2	16-May-90	26 A	846.3
03U027	966.3	11-Jan-88	17 A	855.0	03U028	957.2	28-Feb-91	30 A	846.7
03U027	966.3	27-Jan-88	17 F	854.8	03U028	957.2	27-Sep-91	32 A	846.3
03U027	966.3	14-Apr-88	18 F	855.8					
03U027	966.3	02-May-88	18 A	855.2	03U029	954.8	17-Nov-87	16 A	853.8
03U027	966.3	20-May-88	18 A	854.7	03U029	954.8	30-Nov-87	16 A	853.6
03U027	966.3	23-Jun-88	18 A	853.8	03U029	954.8	14-Dec-87	16 A	852.5
03U027	966.3	27-Jul-88	19 A	852.3	03U029	954.8	11-Jan-88	17 A	852.7
03U027	966.3	30-Aug-88	19 F	851.3	03U029	954.8	27-Jan-88	17 F	853.6
03U027	966.3	01-Sep-88	19 A	851.1	03U029	954.8	14-Apr-88	18 F	855.0
03U027	966.3	21-Sep-88	19 A	850.9	03U029	954.8	02-May-88	18 A	854.2
03U027	966.3	14-Oct-88	20 A	850.6	03U029	954.8	20-May-88	18 A	853.7
03U027	966.3	22-Nov-88	20 F	851.0	03U029	954.8	23-Jun-88	18 A	853.1
03U027	966.3	02-Dec-88	20 A	851.3	03U029	954.8	27-Jul-88	19 A	851.6
03U027	966.3	13-Jan-89	21 A	851.5	03U029	954.8	30-Aug-88	19 F	849.3
03U027	966.3	31-Mar-89	21 A	849.7	03U029	954.8	01-Sep-88	19 A	849.8
03U027	966.3	05-Aug-89	23 F	848.3	03U029	954.8	21-Sep-88	19 A	850.0
03U027	966.3	05-Oct-89	24 A	846.5	03U029	954.8	14-Oct-88	20 A	848.6
03U027	966.3	04-Nov-89	24 F	847.4	03U029	954.8	22-Nov-88	20 F	850.1
03U027	966.3	21-Dec-89	24 A	847.2	03U029	954.8	02-Dec-88	20 A	850.1
03U027	966.3	11-Jan-90	25 A	846.9	03U029	954.8	13-Jan-89	21 A	850.4
03U027	966.3	16-May-90	26 A	847.0	03U029	954.8	31-Mar-89	21 A	847.2
03U027	966.3	28-Feb-91	30 A	847.5	03U029	954.8	05-Aug-89	23 F	846.3
03U027	966.3	27-Sep-91	32 A	847.1	03U029	954.8	05-Oct-89	24 A	845.8
					03U029	954.8	03-Nov-89	24 F	845.3
03U028	957.2	17-Nov-87	16 A	854.3	03U029	954.8	21-Dec-89	24 A	844.9
03U028	957.2	30-Nov-87	16 A	854.2	03U029	954.8	11-Jan-90	25 A	844.8
03U028	957.2	14-Dec-87	16 F	854.1	03U029	954.8	16-May-90	26 A	845.6

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U029	954.8	28-Feb-91	30 A	845.0	03U031	899.3	13-Jan-89	21 A	852.3
03U029	954.8	27-Sep-91	32 A	844.5	03U031	899.3	31-Mar-89	21 A	851.1
03U030	958.7	17-Nov-87	16 A	855.5	03U031	899.3	05-Aug-89	23 F	849.0
03U030	958.7	30-Nov-87	16 A	855.4	03U031	899.3	05-Oct-89	24 A	848.6
03U030	958.7	14-Dec-87	16 F	855.3	03U031	899.3	02-Nov-89	24 F	848.6
03U030	958.7	14-Dec-87	16 A	855.4	03U031	899.3	21-Dec-89	24 A	848.6
03U030	958.7	11-Jan-88	17 A	855.5	03U031	899.3	11-Jan-90	25 A	848.5
03U030	958.7	27-Jan-88	17 F	855.4	03U031	899.3	16-May-90	26 A	848.5
03U030	958.7	14-Apr-88	18 F	856.1	03U031	899.3	28-Feb-91	30 A	849.3
03U030	958.7	02-May-88	18 A	855.8	03U031	899.3	27-Sep-91	32 A	849.0
03U030	958.7	20-May-88	18 A	855.4	03U032	1003.6	24-Nov-87	16 A	857.8
03U030	958.7	23-Jun-88	18 A	854.4	03U032	1003.6	30-Nov-87	16 A	857.8
03U030	958.7	27-Jul-88	19 A	852.9	03U032	1003.6	14-Dec-87	16 A	858.0
03U030	958.7	30-Aug-88	19 F	851.8	03U032	1003.6	11-Jan-88	17 A	858.2
03U030	958.7	01-Sep-88	19 A	851.8	03U032	1003.6	26-Jan-88	17 F	858.2
03U030	958.7	21-Sep-88	19 A	851.5	03U032	1003.6	14-Apr-88	18 F	858.1
03U030	958.7	14-Oct-88	20 A	851.3	03U032	1003.6	02-May-88	18 A	858.1
03U030	958.7	22-Nov-88	20 F	851.7	03U032	1003.6	20-May-88	18 A	857.7
03U030	958.7	02-Dec-88	20 A	851.5	03U032	1003.6	23-Jun-88	18 A	856.1
03U030	958.7	13-Jan-89	21 A	851.9	03U032	1003.6	27-Jul-88	19 A	854.5
03U030	958.7	31-Mar-89	21 A	850.5	03U032	1003.6	30-Aug-88	19 F	853.8
03U030	958.7	05-Aug-89	23 F	849.1	03U032	1003.6	01-Sep-88	19 A	853.7
03U030	958.7	05-Oct-89	24 A	848.4	03U032	1003.6	21-Sep-88	19 A	853.6
03U030	958.7	03-Nov-89	24 F	848.1	03U032	1003.6	14-Oct-88	20 A	853.4
03U030	958.7	21-Dec-89	24 A	848.0	03U032	1003.6	22-Nov-88	20 F	853.6
03U030	958.7	11-Jan-90	25 A	847.9	03U032	1003.6	02-Dec-88	20 A	853.6
03U030	958.7	16-May-90	26 A	847.7	03U032	1003.6	13-Jan-89	21 A	853.8
03U030	958.7	28-Feb-91	30 A	848.3	03U032	1003.6	31-Mar-89	21 A	853.9
03U030	958.7	27-Sep-91	32 A	847.9	03U032	1003.6	05-Aug-89	23 F	852.1
03U031	899.3	17-Nov-87	16 A	855.9	03U032	1003.6	05-Oct-89	24 A	851.3
03U031	899.3	24-Nov-87	16 A	855.7	03U032	1003.6	02-Nov-89	24 F	851.3
03U031	899.3	30-Nov-87	16 A	855.9	03U032	1003.6	21-Dec-89	24 A	851.3
03U031	899.3	14-Dec-87	16 A	855.8	03U032	1003.6	11-Jan-90	25 A	851.2
03U031	899.3	11-Jan-88	17 A	856.0	03U032	1003.6	01-May-90	26 F	851.2
03U031	899.3	26-Jan-88	17 F	856.0	03U032	1003.6	16-May-90	26 A	851.1
03U031	899.3	13-Apr-88	18 F	857.5	03U032	1003.6	18-Jul-90	27 F	851.2
03U031	899.3	02-May-88	18 A	855.6	03U032	1003.6	21-Sep-90	28 F	852.0
03U031	899.3	20-May-88	18 A	855.6	03U032	1003.6	28-Feb-91	30 A	852.0
03U031	899.3	23-Jun-88	18 A	853.8	03U032	1003.6	26-Mar-91	30 F	851.9
03U031	899.3	27-Jul-88	19 A	852.5	03U032	1003.6	04-Jun-91	31 F	851.9
03U031	899.3	30-Aug-88	19 F	851.4	03U032	1003.6	04-Sep-91	32 F	851.6
03U031	899.3	01-Sep-88	19 A	851.5	03U032	1003.6	27-Sep-91	32 A	851.7
03U031	899.3	21-Sep-88	19 A	851.4	03U075	884.5	17-Nov-87	16 A	852.1
03U031	899.3	14-Oct-88	20 A	851.6	03U075	884.5	14-Dec-87	16 A	852.1
03U031	899.3	22-Nov-88	20 F	852.1	03U075	884.5	15-Dec-87	16 F	852.2
03U031	899.3	02-Dec-88	20 A	851.7	03U075	884.5	11-Jan-88	17 A	852.2

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U075	884.5	27-Jan-88	17 F	852.0	03U076	888.4	27-Sep-91	32 A	843.3
03U075	884.5	14-Apr-88	18 F	852.4					
03U075	884.5	02-May-88	18 A	851.8	03U077	912.2	17-Nov-87	16 A	850.0
03U075	884.5	20-May-88	18 A	851.3	03U077	912.2	24-Nov-87	16 A	849.7
03U075	884.5	23-Jun-88	18 A	848.7	03U077	912.2	30-Nov-87	16 A	850.0
03U075	884.5	27-Jul-88	19 A	847.5	03U077	912.2	14-Dec-87	16 F	846.7
03U075	884.5	30-Aug-88	19 F	847.5	03U077	912.2	14-Dec-87	16 A	849.7
03U075	884.5	01-Sep-88	19 A	847.5	03U077	912.2	11-Jan-88	17 A	849.9
03U075	884.5	21-Sep-88	19 A	847.3	03U077	912.2	27-Jan-88	17 F	849.8
03U075	884.5	14-Oct-88	20 A	847.8	03U077	912.2	13-Apr-88	18 F	851.7
03U075	884.5	22-Nov-88	20 F	848.3	03U077	912.2	02-May-88	18 A	850.1
03U075	884.5	02-Dec-88	20 A	848.6	03U077	912.2	20-May-88	18 A	849.5
03U075	884.5	13-Jan-89	21 A	848.6	03U077	912.2	23-Jun-88	18 A	848.1
03U075	884.5	31-Mar-89	21 A	847.1	03U077	912.2	27-Jul-88	19 A	847.5
03U075	884.5	05-Aug-89	23 F	844.8	03U077	912.2	30-Aug-88	19 F	846.1
03U075	884.5	05-Oct-89	24 A	844.4	03U077	912.2	01-Sep-88	19 A	846.4
03U075	884.5	03-Nov-89	24 F	844.7	03U077	912.2	21-Sep-88	19 A	846.2
03U075	884.5	21-Dec-89	24 A	844.5	03U077	912.2	14-Oct-88	20 A	846.2
03U075	884.5	11-Jan-90	25 A	844.8	03U077	912.2	22-Nov-88	20 F	847.3
03U075	884.5	16-May-90	26 A	844.6	03U077	912.2	02-Dec-88	20 A	847.6
03U075	884.5	28-Feb-91	30 A	845.4	03U077	912.2	13-Jan-89	21 A	847.5
03U075	884.5	27-Sep-91	32 A	845.0	03U077	912.2	31-Mar-89	21 A	842.5
					03U077	912.2	05-Aug-89	23 F	842.2
03U076	888.4	17-Nov-87	16 A	850.8	03U077	912.2	05-Oct-89	24 A	841.9
03U076	888.4	14-Dec-87	16 A	850.7	03U077	912.2	02-Nov-89	24 F	841.7
03U076	888.4	15-Dec-87	16 F	850.6	03U077	912.2	21-Dec-89	24 A	842.0
03U076	888.4	11-Jan-88	17 A	850.9	03U077	912.2	11-Jan-90	25 A	841.3
03U076	888.4	27-Jan-88	17 F	850.4	03U077	912.2	16-May-90	26 A	841.4
03U076	888.4	14-Apr-88	18 F	850.9	03U077	912.2	28-Feb-91	30 A	841.9
03U076	888.4	02-May-88	18 A	850.5	03U077	912.2	27-Sep-91	32 A	841.3
03U076	888.4	20-May-88	18 A	849.9					
03U076	888.4	23-Jun-88	18 A	847.3	03U078	927.0	17-Nov-87	16 A	850.2
03U076	888.4	27-Jul-88	19 A	846.2	03U078	927.0	24-Nov-87	16 A	849.7
03U076	888.4	30-Aug-88	19 F	846.0	03U078	927.0	30-Nov-87	16 A	849.9
03U076	888.4	01-Sep-88	19 A	846.1	03U078	927.0	14-Dec-87	16 F	849.9
03U076	888.4	21-Sep-88	19 A	845.9	03U078	927.0	14-Dec-87	16 A	849.8
03U076	888.4	14-Oct-88	20 A	846.5	03U078	927.0	11-Jan-88	17 A	850.4
03U076	888.4	22-Nov-88	20 F	847.2	03U078	927.0	27-Jan-88	17 F	850.4
03U076	888.4	02-Dec-88	20 A	847.4	03U078	927.0	13-Apr-88	18 F	854.0
03U076	888.4	13-Jan-89	21 A	847.4	03U078	927.0	02-May-88	18 A	851.3
03U076	888.4	31-Mar-89	21 A	845.5	03U078	927.0	20-May-88	18 A	850.3
03U076	888.4	05-Aug-89	23 F	843.0	03U078	927.0	23-Jun-88	18 A	850.5
03U076	888.4	05-Oct-89	24 A	842.8	03U078	927.0	27-Jul-88	19 A	848.2
03U076	888.4	06-Nov-89	24 F	842.9	03U078	927.0	30-Aug-88	19 F	848.0
03U076	888.4	21-Dec-89	24 A	843.0	03U078	927.0	01-Sep-88	19 A	847.5
03U076	888.4	11-Jan-90	25 A	843.3	03U078	927.0	21-Sep-88	19 A	846.9
03U076	888.4	16-May-90	26 A	843.1	03U078	927.0	14-Oct-88	20 A	846.5
03U076	888.4	28-Feb-91	30 A	843.8	03U078	927.0	22-Nov-88	20 F	848.9

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U078	927.0	02-Dec-88	20 A	849.3	03U082	898.7	02-May-88	18 A	862.3
03U078	927.0	13-Jan-89	21 A	848.0	03U082	898.7	20-May-88	18 A	862.0
03U078	927.0	31-Mar-89	21 A	844.5	03U082	898.7	23-Jun-88	18 A	858.1
03U078	927.0	05-Aug-89	23 F	843.4	03U082	898.7	27-Jul-88	19 A	856.5
03U078	927.0	05-Oct-89	24 A	843.0	03U082	898.7	30-Aug-88	19 F	857.3
03U078	927.0	02-Nov-89	24 F	842.5	03U082	898.7	01-Sep-88	19 A	857.1
03U078	927.0	21-Dec-89	24 A	842.3	03U082	898.7	21-Sep-88	19 A	857.3
03U078	927.0	11-Jan-90	25 A	841.9	03U082	898.7	14-Oct-88	20 A	857.8
03U078	927.0	16-May-90	26 A	841.3	03U082	898.7	22-Nov-88	20 F	858.3
03U078	927.0	28-Feb-91	30 A	841.8	03U082	898.7	02-Dec-88	20 A	858.2
03U078	927.0	27-Sep-91	32 A	840.7	03U082	898.7	13-Jan-89	21 A	858.4
					03U082	898.7	31-Mar-89	21 A	860.1
03U079	923.5	17-Nov-87	16 A	849.8	03U082	898.7	05-Aug-89	23 F	856.7
03U079	923.5	24-Nov-87	16 A	849.9	03U082	898.7	05-Oct-89	24 A	856.8
03U079	923.5	30-Nov-87	16 A	849.8	03U082	898.7	02-Nov-89	24 F	857.1
03U079	923.5	14-Dec-87	16 A	849.6	03U082	898.7	21-Dec-89	24 A	857.4
03U079	923.5	14-Dec-87	16 F	849.5	03U082	898.7	11-Jan-90	25 A	857.5
03U079	923.5	11-Jan-88	17 A	850.1	03U082	898.7	25-Apr-90	26 F	857.4
03U079	923.5	27-Jan-88	17 F	849.8	03U082	898.7	16-May-90	26 A	857.2
03U079	923.5	14-Apr-88	18 F	853.8	03U082	898.7	28-Feb-91	30 A	858.5
03U079	923.5	02-May-88	18 A	850.6	03U082	898.7	26-Mar-91	30 F	858.6
03U079	923.5	20-May-88	18 A	849.9	03U082	898.7	27-Sep-91	32 A	858.6
03U079	923.5	23-Jun-88	18 A	849.9					
03U079	923.5	27-Jul-88	19 A	847.7	03U083	892.0	24-Nov-87	16 A	856.6
03U079	923.5	30-Aug-88	19 F	847.3	03U083	892.0	30-Nov-87	16 A	856.8
03U079	923.5	01-Sep-88	19 A	847.2	03U083	892.0	14-Dec-87	16 A	856.9
03U079	923.5	21-Sep-88	19 A	847.4	03U083	892.0	14-Dec-87	16 F	857.8
03U079	923.5	14-Oct-88	20 A	846.0	03U083	892.0	11-Jan-88	17 A	856.9
03U079	923.5	22-Nov-88	20 F	848.8	03U083	892.0	26-Jan-88	17 F	858.0
03U079	923.5	02-Dec-88	20 A	849.3	03U083	892.0	13-Apr-88	18 F	857.9
03U079	923.5	13-Jan-89	21 A	847.1	03U083	892.0	02-May-88	18 A	856.7
03U079	923.5	31-Mar-89	21 A	843.7	03U083	892.0	20-May-88	18 A	856.4
03U079	923.5	05-Aug-89	23 F	842.4	03U083	892.0	23-Jun-88	18 A	853.9
03U079	923.5	05-Oct-89	24 A	842.0	03U083	892.0	27-Jul-88	19 A	852.4
03U079	923.5	02-Nov-89	24 F	844.5	03U083	892.0	30-Aug-88	19 F	853.2
03U079	923.5	21-Dec-89	24 A	842.7	03U083	892.0	01-Sep-88	19 A	852.1
03U079	923.5	11-Jan-90	25 A	841.0	03U083	892.0	21-Sep-88	19 A	852.0
03U079	923.5	16-May-90	26 A	840.9	03U083	892.0	14-Oct-88	20 A	852.2
03U079	923.5	28-Feb-91	30 A	841.2	03U083	892.0	22-Nov-88	20 F	853.5
03U079	923.5	27-Sep-91	32 A	840.4	03U083	892.0	02-Dec-88	20 A	852.4
					03U083	892.0	13-Jan-89	21 A	853.0
03U082	898.7	24-Nov-87	16 A	862.4	03U083	892.0	31-Mar-89	21 A	852.6
03U082	898.7	30-Nov-87	16 A	862.6	03U083	892.0	05-Aug-89	23 F	851.1
03U082	898.7	14-Dec-87	16 A	862.8	03U083	892.0	05-Oct-89	24 A	849.9
03U082	898.7	14-Dec-87	16 F	863.9	03U083	892.0	02-Nov-89	24 F	850.9
03U082	898.7	11-Jan-88	17 A	863.0	03U083	892.0	21-Dec-89	24 A	850.0
03U082	898.7	27-Jan-88	17 F	863.2	03U083	892.0	11-Jan-90	25 A	850.1
03U082	898.7	13-Apr-88	18 F	862.7	03U083	892.0	27-Apr-90	26 F	851.1

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U083	892.0	16-May-90	26 A	849.9	03U087	1004.2	22-Nov-88	20 F	853.6
03U083	892.0	28-Feb-91	30 A	850.8	03U087	1004.2	02-Dec-88	20 A	853.8
03U083	892.0	26-Mar-91	30 F	851.8	03U087	1004.2	13-Jan-89	21 A	854.0
03U083	892.0	27-Sep-91	32 A	850.7	03U087	1004.2	31-Mar-89	21 A	854.3
03U084	898.2	17-Nov-87	16 A	850.9	03U087	1004.2	05-Aug-89	23 F	852.2
03U084	898.2	24-Nov-87	16 A	850.5	03U087	1004.2	05-Oct-89	24 A	851.7
03U084	898.2	30-Nov-87	16 A	850.8	03U087	1004.2	02-Nov-89	24 F	851.5
03U084	898.2	14-Dec-87	16 A	850.6	03U087	1004.2	21-Dec-89	24 A	851.8
03U084	898.2	14-Dec-87	16 F	849.9	03U087	1004.2	11-Jan-90	25 A	851.7
03U084	898.2	11-Jan-88	17 A	850.6	03U087	1004.2	30-Apr-90	26 F	851.5
03U084	898.2	27-Jan-88	17 F	850.0	03U087	1004.2	16-May-90	26 A	851.5
03U084	898.2	13-Apr-88	18 F	851.4	03U087	1004.2	28-Feb-91	30 A	852.4
03U084	898.2	02-May-88	18 A	850.9	03U087	1004.2	27-Mar-91	30 F	852.3
03U084	898.2	20-May-88	18 A	850.4	03U087	1004.2	27-Sep-91	32 A	852.3
03U084	898.2	23-Jun-88	18 A	848.6	03U088	983.7	14-Dec-87	16 F	858.5
03U084	898.2	27-Jul-88	19 A	847.4	03U088	983.7	14-Dec-87	16 A	858.6
03U084	898.2	30-Aug-88	19 F	846.2	03U088	983.7	11-Jan-88	17 A	858.7
03U084	898.2	01-Sep-88	19 A	846.8	03U088	983.7	26-Jan-88	17 F	858.7
03U084	898.2	21-Sep-88	19 A	846.7	03U088	983.7	13-Apr-88	18 F	858.3
03U084	898.2	14-Oct-88	20 A	846.9	03U088	983.7	02-May-88	18 A	858.6
03U084	898.2	22-Nov-88	20 F	847.2	03U088	983.7	20-May-88	18 A	858.3
03U084	898.2	02-Dec-88	20 A	848.0	03U088	983.7	23-Jun-88	18 A	858.2
03U084	898.2	13-Jan-89	21 A	848.0	03U088	983.7	27-Jul-88	19 A	854.6
03U084	898.2	31-Mar-89	21 A	844.6	03U088	983.7	30-Aug-88	19 F	853.9
03U084	898.2	05-Aug-89	23 F	841.9	03U088	983.7	01-Sep-88	19 A	854.0
03U084	898.2	05-Oct-89	24 A	842.6	03U088	983.7	21-Sep-88	19 A	853.9
03U084	898.2	02-Nov-89	24 F	841.8	03U088	983.7	14-Oct-88	20 A	853.9
03U084	898.2	21-Dec-89	24 A	842.1	03U088	983.7	22-Nov-88	20 F	853.8
03U084	898.2	11-Jan-90	25 A	842.1	03U088	983.7	02-Dec-88	20 A	854.0
03U084	898.2	16-May-90	26 A	842.2	03U088	983.7	13-Jan-89	21 A	854.2
03U084	898.2	28-Feb-91	30 A	842.9	03U088	983.7	31-Mar-89	21 A	854.8
03U084	898.2	27-Sep-91	32 A	842.3	03U088	983.7	06-Aug-89	23 F	852.5
03U087	1004.2	24-Nov-87	16 A	858.0	03U088	983.7	05-Oct-89	24 A	852.0
03U087	1004.2	30-Nov-87	16 A	858.1	03U088	983.7	02-Nov-89	24 F	851.9
03U087	1004.2	14-Dec-87	16 A	858.3	03U088	983.7	21-Dec-89	24 A	852.2
03U087	1004.2	14-Dec-87	16 F	858.2	03U088	983.7	11-Jan-90	25 A	852.1
03U087	1004.2	11-Jan-88	17 A	858.5	03U088	983.7	30-Apr-90	26 F	852.0
03U087	1004.2	26-Jan-88	17 F	858.4	03U088	983.7	16-May-90	26 A	851.9
03U087	1004.2	13-Apr-88	18 F	858.2	03U088	983.7	28-Feb-91	30 A	852.9
03U087	1004.2	02-May-88	18 A	858.3	03U088	983.7	26-Mar-91	30 F	852.8
03U087	1004.2	20-May-88	18 A	858.0	03U088	983.7	27-Sep-91	32 A	852.8
03U087	1004.2	23-Jun-88	18 A	856.1	03U089	972.6	24-Nov-87	16 A	858.2
03U087	1004.2	27-Jul-88	19 A	854.5	03U089	972.6	30-Nov-87	16 A	858.4
03U087	1004.2	30-Aug-88	19 F	853.8	03U089	972.6	14-Dec-87	16 A	858.6
03U087	1004.2	21-Sep-88	19 A	853.7	03U089	972.6	14-Dec-87	16 F	858.4
03U087	1004.2	14-Oct-88	20 A	853.6	03U089	972.6	11-Jan-88	17 A	859.2

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U089	972.6	26-Jan-88	17 F	858.6	03U090	982.2	19-Jul-90	27 F	850.4
03U089	972.6	13-Apr-88	18 F	858.3	03U090	982.2	28-Feb-91	30 A	851.9
03U089	972.6	02-May-88	18 A	858.5	03U090	982.2	26-Mar-91	30 F	851.1
03U089	972.6	20-May-88	18 A	858.2	03U090	982.2	27-Sep-91	32 A	851.7
03U089	972.6	23-Jun-88	18 A	856.2					
03U089	972.6	27-Jul-88	19 A	854.6	03U092	960.4	14-Dec-87	16 A	840.4
03U089	972.6	30-Aug-88	19 F	853.9	03U092	960.4	14-Dec-87	16 F	856.8
03U089	972.6	01-Sep-88	19 A	854.0	03U092	960.4	27-Jan-88	17 F	856.9
03U089	972.6	21-Sep-88	19 A	853.9	03U092	960.4	14-Apr-88	18 F	857.3
03U089	972.6	14-Oct-88	20 A	853.9	03U092	960.4	02-May-88	18 A	840.6
03U089	972.6	22-Nov-88	20 F	853.7	03U092	960.4	20-May-88	18 A	840.3
03U089	972.6	02-Dec-88	20 A	854.0	03U092	960.4	23-Jun-88	18 A	839.4
03U089	972.6	13-Jan-89	21 A	854.2	03U092	960.4	27-Jul-88	19 A	837.7
03U089	972.6	31-Mar-89	21 A	854.7	03U092	960.4	30-Aug-88	19 F	853.1
03U089	972.6	06-Aug-89	23 F	852.3	03U092	960.4	01-Sep-88	19 A	836.6
03U089	972.6	05-Oct-89	24 A	852.0	03U092	960.4	21-Sep-88	19 A	836.3
03U089	972.6	02-Nov-89	24 F	851.8	03U092	960.4	14-Oct-88	20 A	836.0
03U089	972.6	21-Dec-89	24 A	852.1	03U092	960.4	22-Nov-88	20 F	852.6
03U089	972.6	11-Jan-90	25 A	852.0	03U092	960.4	02-Dec-88	20 A	836.3
03U089	972.6	30-Apr-90	26 F	851.9	03U092	960.4	13-Jan-89	21 A	836.5
03U089	972.6	16-May-90	26 A	851.9	03U092	960.4	31-Mar-89	21 A	835.7
03U089	972.6	28-Feb-91	30 A	852.8	03U092	960.4	06-Aug-89	23 F	850.6
03U089	972.6	26-Mar-91	30 F	852.7	03U092	960.4	05-Oct-89	24 A	833.4
03U089	972.6	27-Sep-91	32 A	852.7	03U092	960.4	04-Nov-89	24 F	849.6
					03U092	960.4	21-Dec-89	24 A	832.9
03U090	982.2	14-Dec-87	16 F	857.5	03U092	960.4	11-Jan-90	25 A	832.9
03U090	982.2	14-Dec-87	16 A	858.3	03U092	960.4	01-May-90	26 F	849.4
03U090	982.2	11-Jan-88	17 A	858.4	03U092	960.4	16-May-90	26 A	832.8
03U090	982.2	26-Jan-88	17 F	857.1	03U092	960.4	28-Feb-91	30 A	833.5
03U090	982.2	14-Apr-88	18 F	857.7	03U092	960.4	24-Mar-91	30 F	849.8
03U090	982.2	02-May-88	18 A	858.4	03U092	960.4	04-Jun-91	31 F	849.8
03U090	982.2	20-May-88	18 A	858.1	03U092	960.4	04-Sep-91	32 F	849.6
03U090	982.2	27-Jul-88	19 A	855.2	03U092	960.4	27-Sep-91	32 A	833.2
03U090	982.2	30-Aug-88	19 F	853.5					
03U090	982.2	01-Sep-88	19 A	854.2	03U093	993.4	24-Nov-87	16 A	856.6
03U090	982.2	21-Sep-88	19 A	854.0	03U093	993.4	30-Nov-87	16 A	856.7
03U090	982.2	14-Oct-88	20 A	853.9	03U093	993.4	14-Dec-87	16 A	856.7
03U090	982.2	22-Nov-88	20 F	853.1	03U093	993.4	11-Jan-88	17 A	856.9
03U090	982.2	02-Dec-88	20 A	854.0	03U093	993.4	27-Jan-88	17 F	856.8
03U090	982.2	13-Jan-89	21 A	854.2	03U093	993.4	14-Apr-88	18 F	857.0
03U090	982.2	31-Mar-89	21 A	853.9	03U093	993.4	02-May-88	18 A	857.0
03U090	982.2	06-Aug-89	23 F	851.5	03U093	993.4	20-May-88	18 A	856.6
03U090	982.2	05-Oct-89	24 A	851.5	03U093	993.4	23-Jun-88	18 A	855.4
03U090	982.2	02-Nov-89	24 F	850.6	03U093	993.4	27-Jul-88	19 A	853.1
03U090	982.2	21-Dec-89	24 A	851.4	03U093	993.4	30-Aug-88	19 F	852.8
03U090	982.2	11-Jan-90	25 A	851.3	03U093	993.4	01-Sep-88	19 A	852.8
03U090	982.2	01-May-90	26 F	850.1	03U093	993.4	21-Sep-88	19 A	852.6
03U090	982.2	16-May-90	26 A	851.1	03U093	993.4	14-Oct-88	20 A	852.4

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U093	993.4	22-Nov-88	20 F	852.5	03U096	994.5	02-May-88	18 A	856.2
03U093	993.4	02-Dec-88	20 A	852.7	03U096	994.5	20-May-88	18 A	856.5
03U093	993.4	13-Jan-89	21 A	852.9	03U096	994.5	23-Jun-88	18 A	855.0
03U093	993.4	31-Mar-89	21 A	852.1	03U096	994.5	27-Jul-88	19 A	853.5
03U093	993.4	05-Aug-89	23 F	850.4	03U096	994.5	30-Aug-88	19 F	852.6
03U093	993.4	05-Oct-89	24 A	849.4	03U096	994.5	01-Sep-88	19 A	852.6
03U093	993.4	04-Nov-89	24 F	849.5	03U096	994.5	21-Sep-88	19 A	852.5
03U093	993.4	21-Dec-89	24 A	849.4	03U096	994.5	14-Oct-88	20 A	852.3
03U093	993.4	11-Jan-90	25 A	849.4	03U096	994.5	22-Nov-88	20 F	852.5
03U093	993.4	16-May-90	26 A	849.3	03U096	994.5	02-Dec-88	20 A	852.6
03U093	993.4	16-Jul-90	27 A	849.3	03U096	994.5	13-Jan-89	21 A	852.9
03U093	993.4	28-Feb-91	30 A	850.1	03U096	994.5	31-Mar-89	21 A	852.2
03U093	993.4	03-Jun-91	31 A	850.1	03U096	994.5	05-Aug-89	23 F	848.3
03U093	993.4	03-Sep-91	32 A	849.6	03U096	994.5	05-Oct-89	24 A	849.9
03U093	993.4	27-Sep-91	32 A	849.8	03U096	994.5	04-Nov-89	24 F	849.7
03U094	997.0	14-Dec-87	16 A	857.0	03U096	994.5	21-Dec-89	24 A	849.5
03U094	997.0	15-Dec-87	16 F	857.0	03U096	994.5	11-Jan-90	25 A	849.5
03U094	997.0	11-Jan-88	17 A	857.0	03U096	994.5	16-May-90	26 A	849.4
03U094	997.0	26-Jan-88	17 F	857.0	03U096	994.5	28-Feb-91	30 A	850.2
03U094	997.0	14-Apr-88	18 F	857.3	03U096	994.5	27-Sep-91	32 A	849.9
03U094	997.0	02-May-88	18 A	857.2	03U097	937.2	14-Dec-87	16 F	861.8
03U094	997.0	20-May-88	18 A	856.9	03U097	937.2	27-Jan-88	17 F	862.1
03U094	997.0	23-Jun-88	18 A	855.9	03U097	937.2	13-Apr-88	18 F	861.5
03U094	997.0	27-Jul-88	19 A	854.4	03U097	937.2	30-Aug-88	19 F	856.6
03U094	997.0	30-Aug-88	19 F	853.2	03U097	937.2	22-Nov-88	20 F	857.2
03U094	997.0	01-Sep-88	19 A	853.2	03U097	937.2	05-Aug-89	23 F	856.6
03U094	997.0	21-Sep-88	19 A	852.9	03U097	937.2	02-Nov-89	24 F	856.6
03U094	997.0	14-Oct-88	20 A	852.6	03U097	937.2	27-Apr-90	26 F	857.0
03U094	997.0	22-Nov-88	20 F	852.7	03U097	937.2	26-Mar-91	30 F	858.1
03U094	997.0	02-Dec-88	20 A	852.8	03U099	952.2	14-Dec-87	16 F	857.9
03U094	997.0	13-Jan-89	21 A	852.9	03U099	952.2	26-Jan-88	17 F	858.0
03U094	997.0	31-Mar-89	21 A	852.3	03U099	952.2	13-Apr-88	18 F	858.6
03U094	997.0	05-Aug-89	23 F	850.9	03U099	952.2	30-Aug-88	19 F	854.7
03U094	997.0	05-Oct-89	24 A	850.1	03U099	952.2	22-Nov-88	20 F	853.9
03U094	997.0	02-Nov-89	24 F	850.0	03U099	952.2	05-Aug-89	23 F	852.5
03U094	997.0	21-Dec-89	24 A	849.7	03U099	952.2	02-Nov-89	24 F	851.2
03U094	997.0	11-Jan-90	25 A	849.6	03U099	952.2	26-Apr-90	26 F	851.0
03U094	997.0	16-May-90	26 A	849.4	03U099	952.2	25-Mar-91	30 F	851.1
03U094	997.0	28-Feb-91	30 A	850.1	03U111	924.6	24-Nov-87	16 A	862.8
03U094	997.0	27-Sep-91	32 A	849.8	03U111	924.6	30-Nov-87	16 A	863.0
03U096	994.5	24-Nov-87	16 A	856.5	03U111	924.6	14-Dec-87	16 F	861.9
03U096	994.5	30-Nov-87	16 A	856.6	03U111	924.6	14-Dec-87	16 A	863.3
03U096	994.5	14-Dec-87	16 A	856.7	03U111	924.6	11-Jan-88	17 A	863.5
03U096	994.5	11-Jan-88	17 A	856.9	03U111	924.6	27-Jan-88	17 F	862.1
03U096	994.5	27-Jan-88	17 F	856.8	03U111	924.6	13-Apr-88	18 F	861.7
03U096	994.5	14-Apr-88	18 F	857.0					

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U111	924.6	02-May-88	18 A	863.0	03U112	978.1	18-Jul-90	27 F	850.7
03U111	924.6	20-May-88	18 A	862.8	03U112	978.1	20-Sep-90	28 F	850.6
03U111	924.6	23-Jun-88	18 A	860.2	03U112	978.1	28-Feb-91	30 A	851.3
03U111	924.6	27-Jul-88	19 A	858.1	03U112	978.1	28-Mar-91	30 F	851.3
03U111	924.6	30-Aug-88	19 F	856.7	03U112	978.1	27-Sep-91	32 A	851.1
03U111	924.6	01-Sep-88	19 A	858.0					
03U111	924.6	21-Sep-88	19 A	858.2	03U113	974.3	14-Dec-87	16 F	858.3
03U111	924.6	14-Oct-88	20 A	858.4	03U113	974.3	14-Dec-87	16 A	861.3
03U111	924.6	22-Nov-88	20 F	857.3	03U113	974.3	27-Jan-88	17 F	858.5
03U111	924.6	02-Dec-88	20 A	858.7	03U113	974.3	14-Apr-88	18 F	858.7
03U111	924.6	13-Jan-89	21 A	859.0	03U113	974.3	02-May-88	18 A	861.4
03U111	924.6	31-Mar-89	21 A	860.9	03U113	974.3	20-May-88	18 A	861.1
03U111	924.6	06-Aug-89	23 F	856.6	03U113	974.3	27-Jul-88	19 A	858.0
03U111	924.6	05-Oct-89	24 A	857.9	03U113	974.3	30-Aug-88	19 F	854.5
03U111	924.6	02-Nov-89	24 F	856.6	03U113	974.3	01-Sep-88	19 A	857.1
03U111	924.6	21-Dec-89	24 A	858.1	03U113	974.3	21-Sep-88	19 A	856.9
03U111	924.6	11-Jan-90	25 A	858.3	03U113	974.3	14-Oct-88	20 A	856.8
03U111	924.6	03-May-90	26 F	856.4	03U113	974.3	22-Nov-88	20 F	854.1
03U111	924.6	16-May-90	26 A	858.2	03U113	974.3	02-Dec-88	20 A	856.9
03U111	924.6	28-Feb-91	30 A	859.6	03U113	974.3	13-Jan-89	21 A	857.1
03U111	924.6	01-Apr-91	30 F	858.1	03U113	974.3	31-Mar-89	21 A	857.1
03U111	924.6	27-Sep-91	32 A	859.5	03U113	974.3	05-Aug-89	23 F	852.6
					03U113	974.3	05-Oct-89	24 A	854.6
03U112	978.1	24-Nov-87	16 A	857.5	03U113	974.3	02-Nov-89	24 F	851.8
03U112	978.1	30-Nov-87	16 A	857.5	03U113	974.3	21-Dec-89	24 A	854.5
03U112	978.1	14-Dec-87	16 A	857.7	03U113	974.3	11-Jan-90	25 A	854.4
03U112	978.1	14-Dec-87	16 F	857.8	03U113	974.3	27-Apr-90	26 F	851.8
03U112	978.1	11-Jan-88	17 A	857.8	03U113	974.3	16-May-90	26 A	854.3
03U112	978.1	26-Jan-88	17 F	857.9	03U113	974.3	18-Jul-90	27 F	851.8
03U112	978.1	14-Apr-88	18 F	858.1	03U113	974.3	28-Feb-91	30 A	855.1
03U112	978.1	02-May-88	18 A	857.8	03U113	974.3	28-Mar-91	30 F	852.3
03U112	978.1	20-May-88	18 A	857.5	03U113	974.3	27-Sep-91	32 A	854.9
03U112	978.1	23-Jun-88	18 A	856.4					
03U112	978.1	27-Jul-88	19 A	854.7	03U114	973.2	14-Dec-87	16 F	857.6
03U112	978.1	30-Aug-88	19 F	853.9	03U114	973.2	26-Jan-88	17 F	857.7
03U112	978.1	21-Sep-88	19 A	853.5	03U114	973.2	14-Apr-88	18 F	857.9
03U112	978.1	14-Oct-88	20 A	853.3	03U114	973.2	30-Aug-88	19 F	853.8
03U112	978.1	22-Nov-88	20 F	851.4	03U114	973.2	22-Nov-88	20 F	853.3
03U112	978.1	02-Dec-88	20 A	853.4	03U114	973.2	05-Aug-89	23 F	851.7
03U112	978.1	13-Jan-89	21 A	853.6	03U114	973.2	02-Nov-89	24 F	850.7
03U112	978.1	31-Mar-89	21 A	853.4	03U114	973.2	01-May-90	26 F	850.5
03U112	978.1	06-Aug-89	23 F	852.0	03U114	973.2	18-Jul-90	27 F	850.4
03U112	978.1	05-Oct-89	24 A	851.0	03U114	973.2	17-Sep-90	28 F	850.2
03U112	978.1	02-Nov-89	24 F	850.9	03U114	973.2	29-Mar-91	30 F	850.9
03U112	978.1	21-Dec-89	24 A	850.8	03U114	973.2	04-Jun-91	31 F	850.9
03U112	978.1	11-Jan-90	25 A	850.7	03U114	973.2	04-Sep-91	32 F	850.4
03U112	978.1	01-May-90	26 F	850.8					
03U112	978.1	16-May-90	26 A	850.6	03U121	970.0	14-Dec-87	16 F	857.3

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U121	970.0	26-Jan-88	17 F	857.6	03U301	955.0	28-Feb-91	30 A	828.4
03U121	970.0	14-Apr-88	18 F	857.6	03U301	955.0	03-Jun-91	31 A	826.9
03U121	970.0	30-Aug-88	19 F	853.4	03U301	955.0	03-Sep-91	32 A	829.4
03U121	970.0	22-Nov-88	20 F	852.9	03U301	955.0	27-Sep-91	32 A	829.2
03U121	970.0	06-Aug-89	23 F	851.6					
03U121	970.0	02-Nov-89	24 F	850.5	03U314	975.9	02-Dec-88	20 A	852.4
03U121	970.0	01-May-90	26 F	850.4	03U314	975.9	31-Mar-89	21 A	842.7
03U121	970.0	18-Jul-90	27 F	850.3	03U314	975.9	07-Jul-89	23 A	841.7
03U121	970.0	17-Sep-90	28 F	850.2	03U314	975.9	05-Oct-89	24 A	842.5
03U121	970.0	28-Mar-91	30 F	850.9	03U314	975.9	21-Dec-89	24 A	841.5
					03U314	975.9	11-Jan-90	25 A	840.1
03U124	1004.3	14-Apr-88	18 F	858.2	03U314	975.9	16-May-90	26 A	843.6
03U124	1004.3	22-Nov-88	20 F	857.2	03U314	975.9	16-Jul-90	27 A	846.2
03U124	1004.3	06-Aug-89	23 F	852.7	03U314	975.9	28-Feb-91	30 A	845.2
03U124	1004.3	02-Nov-89	24 F	851.9	03U314	975.9	03-Jun-91	31 A	845.3
03U124	1004.3	27-Apr-90	26 F	851.9	03U314	975.9	03-Sep-91	32 A	840.3
03U124	1004.3	19-Jul-90	27 F	851.9	03U314	975.9	27-Sep-91	32 A	840.8
03U124	1004.3	19-Sep-90	28 F	851.7					
03U124	1004.3	25-Mar-91	30 F	854.5	03U315	963.1	02-Dec-88	20 A	852.3
03U124	1004.3	04-Jun-91	31 F	852.6	03U315	963.1	13-Jan-89	21 A	852.5
03U124	1004.3	04-Sep-91	32 F	850.4	03U315	963.1	31-Mar-89	21 A	845.2
					03U315	963.1	07-Jul-89	23 A	844.7
03U129	911.2	14-Dec-87	16 F	862.5	03U315	963.1	05-Oct-89	24 A	842.8
03U129	911.2	27-Jan-88	17 F	862.7	03U315	963.1	21-Dec-89	24 A	842.5
03U129	911.2	13-Apr-88	18 F	862.3	03U315	963.1	11-Jan-90	25 A	842.9
03U129	911.2	30-Aug-88	19 F	857.1	03U315	963.1	16-May-90	26 A	842.4
03U129	911.2	22-Nov-88	20 F	858.0	03U315	963.1	16-Jul-90	27 A	841.2
03U129	911.2	05-Aug-89	23 F	858.1	03U315	963.1	28-Feb-91	30 A	841.5
03U129	911.2	02-Nov-89	24 F	857.4	03U315	963.1	03-Jun-91	31 A	842.3
03U129	911.2	25-Apr-90	26 F	857.1	03U315	963.1	03-Sep-91	32 A	842.5
03U129	911.2	01-Apr-91	30 F	859.0	03U315	963.1	27-Sep-91	32 A	842.7
03U301	955.0	27-Jan-88	17 F	854.8	03U316	954.6	02-Dec-88	20 A	851.6
03U301	955.0	14-Apr-88	18 F	855.5	03U316	954.6	13-Jan-89	21 A	851.8
03U301	955.0	02-May-88	18 A	854.2	03U316	954.6	31-Mar-89	21 A	835.2
03U301	955.0	23-Jun-88	18 A	853.2	03U316	954.6	07-Jul-89	23 A	836.1
03U301	955.0	27-Jul-88	19 A	851.5	03U316	954.6	05-Oct-89	24 A	836.6
03U301	955.0	01-Sep-88	19 A	849.8	03U316	954.6	21-Dec-89	24 A	826.2
03U301	955.0	21-Sep-88	19 A	849.9	03U316	954.6	11-Jan-90	25 A	830.0
03U301	955.0	14-Oct-88	20 A	833.3	03U316	954.6	16-May-90	26 A	833.7
03U301	955.0	02-Dec-88	20 A	850.1	03U316	954.6	16-Jul-90	27 A	831.7
03U301	955.0	13-Jan-89	21 A	850.4	03U316	954.6	28-Feb-91	30 A	831.2
03U301	955.0	31-Mar-89	21 A	830.5	03U316	954.6	03-Jun-91	31 A	831.9
03U301	955.0	05-Oct-89	24 A	831.4	03U316	954.6	03-Sep-91	32 A	832.1
03U301	955.0	21-Dec-89	24 A	827.1	03U316	954.6	27-Sep-91	32 A	832.6
03U301	955.0	11-Jan-90	25 A	831.0					
03U301	955.0	16-May-90	26 A	845.5	03U317	950.4	02-Dec-88	20 A	851.6
03U301	955.0	16-Jul-90	27 A	829.4	03U317	950.4	13-Jan-89	21 A	851.8

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U317	950.4	31-Mar-89	21 A	845.6	03U648	959.0	14-Dec-87	16 A	854.0
03U317	950.4	07-Jul-89	23 A	844.7	03U648	959.0	11-Jan-88	17 A	855.0
03U317	950.4	05-Oct-89	24 A	843.8	03U648	959.0	27-Jan-88	17 F	855.0
03U317	950.4	21-Dec-89	24 A	843.7	03U648	959.0	14-Apr-88	18 F	855.8
03U317	950.4	11-Jan-90	25 A	843.5	03U648	959.0	02-May-88	18 A	855.4
03U317	950.4	16-May-90	26 A	852.0	03U648	959.0	20-May-88	18 A	855.0
03U317	950.4	16-Jul-90	27 A	843.2	03U648	959.0	23-Jun-88	18 A	854.1
03U317	950.4	28-Feb-91	30 A	843.1	03U648	959.0	27-Jul-88	19 A	852.5
03U317	950.4	03-Jun-91	31 A	844.0	03U648	959.0	30-Aug-88	19 F	851.4
03U317	950.4	03-Sep-91	32 A	842.8	03U648	959.0	01-Sep-88	19 A	851.3
03U317	950.4	27-Sep-91	32 A	842.3	03U648	959.0	21-Sep-88	19 A	851.1
					03U648	959.0	14-Oct-88	20 A	850.9
03U521	1004.7	14-Dec-87	16 F	858.2	03U648	959.0	23-Nov-88	20 F	851.3
03U521	1004.7	26-Jan-88	17 F	858.4	03U648	959.0	02-Dec-88	20 A	851.0
03U521	1004.7	13-Apr-88	18 F	858.1	03U648	959.0	13-Jan-89	21 A	851.4
03U521	1004.7	30-Aug-88	19 F	853.7	03U648	959.0	31-Mar-89	21 A	849.9
03U521	1004.7	22-Nov-88	20 F	853.6	03U648	959.0	05-Aug-89	23 F	848.6
03U521	1004.7	06-Aug-89	23 F	852.2	03U648	959.0	05-Oct-89	24 A	847.8
03U521	1004.7	02-Nov-89	24 F	851.6	03U648	959.0	03-Nov-89	24 F	847.6
03U521	1004.7	25-Apr-90	26 F	851.6	03U648	959.0	21-Dec-89	24 A	847.5
03U521	1004.7	19-Jul-90	27 F	851.6	03U648	959.0	11-Jan-90	25 A	847.3
03U521	1004.7	01-Apr-91	30 F	852.2	03U648	959.0	16-May-90	26 A	847.2
					03U648	959.0	28-Feb-91	30 A	847.7
03U647	959.4	14-Dec-87	16 F	854.9	03U648	959.0	27-Sep-91	32 A	847.3
03U647	959.4	27-Jan-88	17 F	855.0					
03U647	959.4	14-Apr-88	18 F	855.9	03U658	963.0	14-Dec-87	16 A	855.5
03U647	959.4	02-May-88	18 A	855.4	03U658	963.0	11-Jan-88	17 A	855.7
03U647	959.4	20-May-88	18 A	855.0	03U658	963.0	27-Jan-88	17 F	855.7
03U647	959.4	23-Jun-88	18 A	854.1	03U658	963.0	14-Apr-88	18 F	856.3
03U647	959.4	27-Jul-88	19 A	852.6	03U658	963.0	02-May-88	18 A	855.9
03U647	959.4	30-Aug-88	19 F	851.5	03U658	963.0	20-May-88	18 A	855.6
03U647	959.4	01-Sep-88	19 A	851.4	03U658	963.0	23-Jun-88	18 A	854.5
03U647	959.4	21-Sep-88	19 A	851.1	03U658	963.0	27-Jul-88	19 A	853.1
03U647	959.4	14-Oct-88	20 A	850.9	03U658	963.0	30-Aug-88	19 F	852.1
03U647	959.4	23-Nov-88	20 F	851.4	03U658	963.0	01-Sep-88	19 A	852.0
03U647	959.4	02-Dec-88	20 A	851.0	03U658	963.0	21-Sep-88	19 A	851.7
03U647	959.4	13-Jan-89	21 A	851.5	03U658	963.0	14-Oct-88	20 A	851.5
03U647	959.4	31-Mar-89	21 A	849.8	03U658	963.0	23-Nov-88	20 F	853.0
03U647	959.4	05-Aug-89	23 F	848.7	03U658	963.0	02-Dec-88	20 A	851.8
03U647	959.4	05-Oct-89	24 A	847.9	03U658	963.0	13-Jan-89	21 A	852.1
03U647	959.4	03-Nov-89	24 F	847.7	03U658	963.0	31-Mar-89	21 A	850.8
03U647	959.4	21-Dec-89	24 A	847.5	03U658	963.0	05-Aug-89	23 F	849.4
03U647	959.4	11-Jan-90	25 A	847.4	03U658	963.0	05-Oct-89	24 A	848.5
03U647	959.4	16-May-90	26 A	847.2	03U658	963.0	03-Nov-89	24 F	848.3
03U647	959.4	28-Feb-91	30 A	847.8	03U658	963.0	21-Dec-89	24 A	848.3
03U647	959.4	27-Sep-91	32 A	847.4	03U658	963.0	11-Jan-90	25 A	848.0
					03U658	963.0	16-May-90	26 A	848.0
03U648	959.0	14-Dec-87	16 F	854.9	03U658	963.0	28-Feb-91	30 A	848.5

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev. (ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev. (ft)
03U658	963.0	27-Sep-91	32 A	848.1	03U671	930.2	02-Nov-89	24 F	843.8
03U659	956.3	14-Dec-87	16 A	853.8	03U671	930.2	21-Dec-89	24 A	843.3
03U659	956.3	11-Jan-88	17 A	854.0	03U671	930.2	11-Jan-90	25 A	843.4
03U659	956.3	27-Jan-88	17 F	854.0	03U671	930.2	16-May-90	26 A	843.4
03U659	956.3	14-Apr-88	18 F	855.2	03U671	930.2	28-Feb-91	30 A	843.7
03U659	956.3	02-May-88	18 A	854.6	03U671	930.2	27-Sep-91	32 A	843.1
03U659	956.3	20-May-88	18 A	854.1	03U672	922.7	17-Nov-87	16 A	853.7
03U659	956.3	23-Jun-88	18 A	853.5	03U672	922.7	30-Nov-87	16 A	853.5
03U659	956.3	27-Jul-88	19 A	851.9	03U672	922.7	14-Dec-87	16 A	853.7
03U659	956.3	30-Aug-88	19 F	850.6	03U672	922.7	14-Dec-87	16 F	853.2
03U659	956.3	01-Sep-88	19 A	850.5	03U672	922.7	11-Jan-88	17 A	853.2
03U659	956.3	21-Sep-88	19 A	850.5	03U672	922.7	28-Jan-88	17 F	853.4
03U659	956.3	14-Oct-88	20 A	849.9	03U672	922.7	13-Apr-88	18 F	854.7
03U659	956.3	23-Nov-88	20 F	850.6	03U672	922.7	02-May-88	18 A	854.1
03U659	956.3	02-Dec-88	20 A	850.4	03U672	922.7	20-May-88	18 A	853.6
03U659	956.3	13-Jan-89	21 A	850.7	03U672	922.7	23-Jun-88	18 A	853.0
03U659	956.3	31-Mar-89	21 A	848.5	03U672	922.7	27-Jul-88	19 A	851.6
03U659	956.3	05-Aug-89	23 F	847.5	03U672	922.7	30-Aug-88	19 F	850.4
03U659	956.3	05-Oct-89	24 A	846.6	03U672	922.7	01-Sep-88	19 A	850.3
03U659	956.3	03-Nov-89	24 F	846.4	03U672	922.7	21-Sep-88	19 A	851.1
03U659	956.3	21-Dec-89	24 A	846.2	03U672	922.7	14-Oct-88	20 A	849.7
03U659	956.3	11-Jan-90	25 A	846.0	03U672	922.7	23-Nov-88	20 F	850.0
03U659	956.3	16-May-90	26 A	846.0	03U672	922.7	02-Dec-88	20 A	849.9
03U659	956.3	28-Feb-91	30 A	846.3	03U672	922.7	13-Jan-89	21 A	850.3
03U659	956.3	27-Sep-91	32 A	845.9	03U672	922.7	31-Mar-89	21 A	847.9
03U671	930.2	24-Nov-87	16 A	851.6	03U672	922.7	07-Jul-89	23 A	846.8
03U671	930.2	30-Nov-87	16 A	851.7	03U672	922.7	03-Aug-89	23 F	846.6
03U671	930.2	14-Dec-87	16 A	851.7	03U672	922.7	05-Oct-89	24 A	845.9
03U671	930.2	15-Dec-87	16 F	851.6	03U672	922.7	02-Nov-89	24 F	845.5
03U671	930.2	11-Jan-88	17 A	851.9	03U672	922.7	21-Dec-89	24 A	845.6
03U671	930.2	28-Jan-88	17 F	851.8	03U672	922.7	11-Jan-90	25 A	845.5
03U671	930.2	13-Apr-88	18 F	854.0	03U672	922.7	16-May-90	26 A	845.4
03U671	930.2	02-May-88	18 A	852.7	03U672	922.7	16-Jul-90	27 A	845.0
03U671	930.2	20-May-88	18 A	851.8	03U672	922.7	28-Feb-91	30 A	845.8
03U671	930.2	23-Jun-88	18 A	851.5	03U672	922.7	03-Jun-91	31 A	845.4
03U671	930.2	27-Jul-88	19 A	850.0	03U672	922.7	03-Sep-91	32 A	845.2
03U671	930.2	30-Aug-88	19 F	848.7	03U672	922.7	27-Sep-91	32 A	845.1
03U671	930.2	01-Sep-88	19 A	848.5	03U673	896.8	17-Nov-87	16 A	847.2
03U671	930.2	21-Sep-88	19 A	848.1	03U673	896.8	24-Nov-87	16 A	846.6
03U671	930.2	14-Oct-88	20 A	847.9	03U673	896.8	30-Nov-87	16 A	847.0
03U671	930.2	23-Nov-88	20 F	848.9	03U673	896.8	14-Dec-87	16 A	847.2
03U671	930.2	02-Dec-88	20 A	849.2	03U673	896.8	14-Dec-87	16 F	846.1
03U671	930.2	13-Jan-89	21 A	849.3	03U673	896.8	11-Jan-88	17 A	846.3
03U671	930.2	31-Mar-89	21 A	846.3	03U673	896.8	27-Jan-88	17 F	846.2
03U671	930.2	07-Aug-89	23 F	845.0	03U673	896.8	13-Apr-88	18 F	847.6
03U671	930.2	05-Oct-89	24 A	844.5	03U673	896.8	02-May-88	18 A	846.9

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U673	896.8	20-May-88	18 A	846.5					
03U673	896.8	23-Jun-88	18 A	845.5	03U676	959.5	02-May-88	18 A	855.2
03U673	896.8	27-Jul-88	19 A	844.6	03U676	959.5	20-May-88	18 A	854.7
03U673	896.8	30-Aug-88	19 F	843.6	03U676	959.5	23-Jun-88	18 A	853.9
03U673	896.8	01-Sep-88	19 A	843.6	03U676	959.5	27-Jul-88	19 A	852.4
03U673	896.8	21-Sep-88	19 A	843.2	03U676	959.5	01-Sep-88	19 A	851.1
03U673	896.8	14-Oct-88	20 A	843.4	03U676	959.5	21-Sep-88	19 A	851.0
03U673	896.8	23-Nov-88	20 F	844.9	03U676	959.5	14-Oct-88	20 A	850.5
03U673	896.8	02-Dec-88	20 A	843.4	03U676	959.5	02-Dec-88	20 A	850.9
03U673	896.8	13-Jan-89	21 A	843.8	03U676	959.5	13-Jan-89	21 A	851.3
03U673	896.8	31-Mar-89	21 A	841.9	03U676	959.5	31-Mar-89	21 A	849.5
03U673	896.8	07-Jul-89	23 A	840.4	03U676	959.5	05-Oct-89	24 A	847.4
03U673	896.8	03-Aug-89	23 F	840.5	03U676	959.5	21-Dec-89	24 A	847.0
03U673	896.8	05-Oct-89	24 A	840.1	03U676	959.5	11-Jan-90	25 A	846.9
03U673	896.8	02-Nov-89	24 F	839.4	03U676	959.5	28-Feb-91	30 A	847.2
03U673	896.8	21-Dec-89	24 A	839.1	03U676	959.5	27-Sep-91	32 A	847.2
03U673	896.8	11-Jan-90	25 A	839.3					
03U673	896.8	16-May-90	26 A	839.1	03U701	909.0	17-Nov-87	16 A	849.2
03U673	896.8	16-Jul-90	27 A	838.8	03U701	909.0	24-Nov-87	16 A	849.3
03U673	896.8	28-Feb-91	30 A	839.1	03U701	909.0	30-Nov-87	16 A	849.6
03U673	896.8	03-Jun-91	31 A	838.7	03U701	909.0	14-Dec-87	16 F	849.3
03U673	896.8	03-Sep-91	32 A	838.2	03U701	909.0	11-Jan-88	17 A	849.7
03U673	896.8	27-Sep-91	32 A	838.4	03U701	909.0	27-Jan-88	17 F	849.5
					03U701	909.0	13-Apr-88	18 F	851.1
03U674	955.0	14-Dec-87	16 A	852.8	03U701	909.0	02-May-88	18 A	849.7
03U674	955.0	15-Dec-87	16 F	853.4	03U701	909.0	20-May-88	18 A	849.1
03U674	955.0	27-Jan-88	17 F	854.2	03U701	909.0	23-Jun-88	18 A	847.4
03U674	955.0	13-Apr-88	18 F	855.7	03U701	909.0	27-Jul-88	19 A	846.6
03U674	955.0	02-May-88	18 A	854.4	03U701	909.0	30-Aug-88	19 F	845.6
03U674	955.0	20-May-88	18 A	853.7	03U701	909.0	01-Sep-88	19 A	845.7
03U674	955.0	23-Jun-88	18 A	853.4	03U701	909.0	21-Sep-88	19 A	845.5
03U674	955.0	27-Jul-88	19 A	851.6	03U701	909.0	14-Oct-88	20 A	845.6
03U674	955.0	30-Aug-88	19 F	850.3	03U701	909.0	23-Nov-88	20 F	847.0
03U674	955.0	01-Sep-88	19 A	850.0	03U701	909.0	02-Dec-88	20 A	846.7
03U674	955.0	21-Sep-88	19 A	850.2	03U701	909.0	13-Jan-89	21 A	847.0
03U674	955.0	14-Oct-88	20 A	849.1	03U701	909.0	31-Mar-89	21 A	843.5
03U674	955.0	23-Nov-88	20 F	851.0	03U701	909.0	05-Aug-89	23 F	841.8
03U674	955.0	02-Dec-88	20 A	850.3	03U701	909.0	05-Oct-89	24 A	841.3
03U674	955.0	13-Jan-89	21 A	850.6	03U701	909.0	03-Nov-89	24 F	841.4
03U674	955.0	31-Mar-89	21 A	847.5	03U701	909.0	21-Dec-89	24 A	840.9
03U674	955.0	05-Aug-89	23 F	847.3	03U701	909.0	11-Jan-90	25 A	841.1
03U674	955.0	05-Oct-89	24 A	845.7	03U701	909.0	16-May-90	26 A	841.2
03U674	955.0	02-Nov-89	24 F	846.2	03U701	909.0	28-Feb-91	30 A	841.6
03U674	955.0	21-Dec-89	24 A	845.2	03U701	909.0	27-Sep-91	32 A	840.9
03U674	955.0	11-Jan-90	25 A	845.1					
03U674	955.0	16-May-90	26 A	845.6	03U702	908.5	17-Nov-87	16 A	848.8
03U674	955.0	28-Feb-91	30 A	845.3	03U702	908.5	24-Nov-87	16 A	849.0
03U674	955.0	27-Sep-91	32 A	844.8	03U702	908.5	30-Nov-87	16 A	849.3

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U702	908.5	14-Dec-87	16 F	849.0	03U703	918.9	11-Jan-90	25 A	841.3
03U702	908.5	11-Jan-88	17 A	849.4	03U703	918.9	16-May-90	26 A	840.8
03U702	908.5	27-Jan-88	17 F	849.1	03U703	918.9	28-Feb-91	30 A	841.2
03U702	908.5	13-Apr-88	18 F	850.6	03U703	918.9	27-Sep-91	32 A	840.2
03U702	908.5	02-May-88	18 A	849.3					
03U702	908.5	20-May-88	18 A	848.7	03U704	976.5	24-Nov-87	16 A	859.3
03U702	908.5	23-Jun-88	18 A	846.9	03U704	976.5	30-Nov-87	16 A	859.4
03U702	908.5	27-Jul-88	19 A	846.1	03U704	976.5	14-Dec-87	16 F	859.6
03U702	908.5	30-Aug-88	19 F	845.2	03U704	976.5	11-Jan-88	17 A	859.8
03U702	908.5	01-Sep-88	19 A	845.2	03U704	976.5	27-Jan-88	17 F	859.8
03U702	908.5	21-Sep-88	19 A	845.2	03U704	976.5	13-Apr-88	18 F	856.5
03U702	908.5	14-Oct-88	20 A	845.2	03U704	976.5	02-May-88	18 A	859.5
03U702	908.5	23-Nov-88	20 F	846.6	03U704	976.5	20-May-88	18 A	859.2
03U702	908.5	02-Dec-88	20 A	846.3	03U704	976.5	23-Jun-88	18 A	856.8
03U702	908.5	13-Jan-89	21 A	846.6	03U704	976.5	27-Jul-88	19 A	855.2
03U702	908.5	31-Mar-89	21 A	843.2	03U704	976.5	30-Aug-88	19 F	854.8
03U702	908.5	05-Aug-89	23 F	841.3	03U704	976.5	01-Sep-88	19 A	854.8
03U702	908.5	05-Oct-89	24 A	840.9	03U704	976.5	21-Sep-88	19 A	854.7
03U702	908.5	03-Nov-89	24 F	840.0	03U704	976.5	14-Oct-88	20 A	854.7
03U702	908.5	21-Dec-89	24 A	840.0	03U704	976.5	23-Nov-88	20 F	854.5
03U702	908.5	11-Jan-90	25 A	840.8	03U704	976.5	02-Dec-88	20 A	854.6
03U702	908.5	16-May-90	26 A	840.8	03U704	976.5	13-Jan-89	21 A	854.9
03U702	908.5	28-Feb-91	30 A	841.2	03U704	976.5	31-Mar-89	21 A	847.0
03U702	908.5	27-Sep-91	32 A	840.6	03U704	976.5	07-Jul-89	23 A	854.7
					03U704	976.5	05-Aug-89	23 F	853.6
03U703	918.9	17-Nov-87	16 A	849.1	03U704	976.5	05-Oct-89	24 A	853.2
03U703	918.9	24-Nov-87	16 A	849.3	03U704	976.5	02-Nov-89	24 F	853.6
03U703	918.9	30-Nov-87	16 A	849.4	03U704	976.5	21-Dec-89	24 A	853.4
03U703	918.9	14-Dec-87	16 A	849.6	03U704	976.5	11-Jan-90	25 A	853.3
03U703	918.9	11-Jan-88	17 A	849.9	03U704	976.5	27-Apr-90	26 F	853.3
03U703	918.9	27-Jan-88	17 F	849.7	03U704	976.5	16-May-90	26 A	853.2
03U703	918.9	13-Apr-88	18 F	853.9	03U704	976.5	16-Jul-90	27 A	853.4
03U703	918.9	02-May-88	18 A	850.8	03U704	976.5	28-Feb-91	30 A	854.2
03U703	918.9	20-May-88	18 A	849.7	03U704	976.5	03-Jun-91	31 A	854.4
03U703	918.9	23-Jun-88	18 A	849.8	03U704	976.5	03-Sep-91	32 A	853.7
03U703	918.9	27-Jul-88	19 A	847.5	03U704	976.5	27-Sep-91	32 A	854.2
03U703	918.9	30-Aug-88	19 F	847.9					
03U703	918.9	01-Sep-88	19 A	847.5	03U705	1047.5	24-Nov-87	16 A	859.5
03U703	918.9	21-Sep-88	19 A	847.1	03U705	1047.5	30-Nov-87	16 A	859.6
03U703	918.9	14-Oct-88	20 A	845.9	03U705	1047.5	14-Dec-87	16 A	859.9
03U703	918.9	23-Nov-88	20 F	849.6	03U705	1047.5	15-Dec-87	16 F	859.9
03U703	918.9	02-Dec-88	20 A	849.3	03U705	1047.5	11-Jan-88	17 A	860.1
03U703	918.9	13-Jan-89	21 A	847.2	03U705	1047.5	27-Jan-88	17 F	860.2
03U703	918.9	31-Mar-89	21 A	843.8	03U705	1047.5	13-Apr-88	18 F	858.9
03U703	918.9	05-Aug-89	23 F	842.7	03U705	1047.5	02-May-88	18 A	859.8
03U703	918.9	05-Oct-89	24 A	842.2	03U705	1047.5	20-May-88	18 A	859.5
03U703	918.9	02-Nov-89	24 F	841.8	03U705	1047.5	23-Jun-88	18 A	857.1
03U703	918.9	21-Dec-89	24 A	842.2	03U705	1047.5	27-Jul-88	19 A	855.4

T
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U705	1047.5	30-Aug-88	19 F	855.1					
03U705	1047.5	01-Sep-88	19 A	855.0	03U707	916.3	24-Nov-87	16 A	859.9
03U705	1047.5	21-Sep-88	19 A	855.0	03U707	916.3	30-Nov-87	16 A	860.1
03U705	1047.5	14-Oct-88	20 A	855.0	03U707	916.3	14-Dec-87	16 A	860.2
03U705	1047.5	05-Aug-89	23 F	854.3	03U707	916.3	11-Jan-88	17 A	860.4
03U705	1047.5	05-Oct-89	24 A	853.8	03U707	916.3	27-Jan-88	17 F	860.4
03U705	1047.5	21-Dec-89	24 A	853.9	03U707	916.3	13-Apr-88	18 F	859.3
03U705	1047.5	11-Jan-90	25 A	853.8	03U707	916.3	02-May-88	18 A	860.0
03U705	1047.5	24-Apr-90	26 F	853.9	03U707	916.3	20-May-88	18 A	859.6
03U705	1047.5	16-May-90	26 A	853.7	03U707	916.3	23-Jun-88	18 A	856.7
03U705	1047.5	19-Jul-90	27 F	853.9	03U707	916.3	27-Jul-88	19 A	855.1
03U705	1047.5	21-Sep-90	28 F	853.8	03U707	916.3	30-Aug-88	19 F	855.1
03U705	1047.5	28-Feb-91	30 A	854.8	03U707	916.3	01-Sep-88	19 A	855.1
03U705	1047.5	03-Jun-91	31 A	855.0	03U707	916.3	21-Sep-88	19 A	855.1
03U705	1047.5	03-Sep-91	32 A	854.3	03U707	916.3	14-Oct-88	20 A	855.4
03U705	1047.5	27-Sep-91	32 A	854.8	03U707	916.3	23-Nov-88	20 F	855.4
					03U707	916.3	02-Dec-88	20 A	855.5
03U706	918.4	24-Nov-87	16 A	859.4	03U707	916.3	13-Jan-89	21 A	855.8
03U706	918.4	30-Nov-87	16 A	859.5	03U707	916.3	31-Mar-89	21 A	857.0
03U706	918.4	14-Dec-87	16 F	859.8	03U707	916.3	05-Aug-89	23 F	854.2
03U706	918.4	14-Dec-87	16 A	859.7	03U707	916.3	05-Oct-89	24 A	854.0
03U706	918.4	11-Jan-88	17 A	859.9	03U707	916.3	04-Nov-89	24 F	854.2
03U706	918.4	27-Jan-88	17 F	860.0	03U707	916.3	21-Dec-89	24 A	854.4
03U706	918.4	13-Apr-88	18 F	859.1	03U707	916.3	11-Jan-90	25 A	854.5
03U706	918.4	02-May-88	18 A	859.5	03U707	916.3	16-May-90	26 A	854.3
03U706	918.4	20-May-88	18 A	859.2	03U707	916.3	28-Feb-91	30 A	855.3
03U706	918.4	23-Jun-88	18 A	856.4	03U707	916.3	27-Sep-91	32 A	855.4
03U706	918.4	27-Jul-88	19 A	855.0					
03U706	918.4	30-Aug-88	19 F	854.9	03U708	919.9	17-Nov-87	16 A	851.5
03U706	918.4	01-Sep-88	19 A	854.8	03U708	919.9	24-Nov-87	16 A	851.1
03U706	918.4	21-Sep-88	19 A	854.7	03U708	919.9	30-Nov-87	16 A	851.1
03U706	918.4	14-Oct-88	20 A	854.9	03U708	919.9	14-Dec-87	16 F	850.9
03U706	918.4	23-Nov-88	20 F	854.9	03U708	919.9	11-Jan-88	17 A	851.4
03U706	918.4	02-Dec-88	20 A	854.8	03U708	919.9	27-Jan-88	17 F	851.2
03U706	918.4	13-Jan-89	21 A	855.2	03U708	919.9	13-Apr-88	18 F	853.6
03U706	918.4	31-Mar-89	21 A	856.3	03U708	919.9	02-May-88	18 A	852.1
03U706	918.4	07-Jul-89	23 A	854.7	03U708	919.9	20-May-88	18 A	851.2
03U706	918.4	05-Aug-89	23 F	854.0	03U708	919.9	23-Jun-88	18 A	851.0
03U706	918.4	05-Oct-89	24 A	853.3	03U708	919.9	27-Jul-88	19 A	849.6
03U706	918.4	04-Nov-89	24 F	853.6	03U708	919.9	30-Aug-88	19 F	848.1
03U706	918.4	21-Dec-89	24 A	853.7	03U708	919.9	01-Sep-88	19 A	848.0
03U706	918.4	11-Jan-90	25 A	853.7	03U708	919.9	21-Sep-88	19 A	847.6
03U706	918.4	16-May-90	26 A	853.5	03U708	919.9	14-Oct-88	20 A	847.5
03U706	918.4	16-Jul-90	27 A	853.7	03U708	919.9	23-Nov-88	20 F	848.6
03U706	918.4	28-Feb-91	30 A	854.5	03U708	919.9	02-Dec-88	20 A	849.0
03U706	918.4	03-Jun-91	31 A	854.8	03U708	919.9	13-Jan-89	21 A	848.9
03U706	918.4	03-Sep-91	32 A	854.0	03U708	919.9	31-Mar-89	21 A	845.7
03U706	918.4	27-Sep-91	32 A	854.6	03U708	919.9	05-Aug-89	23 F	844.4

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U708	919.9	05-Oct-89	24 A	843.9	03U710	945.0	01-Sep-88	19 A	848.5
03U708	919.9	02-Nov-89	24 F	843.3	03U710	945.0	21-Sep-88	19 A	848.3
03U708	919.9	21-Dec-89	24 A	842.9	03U710	945.0	14-Oct-88	20 A	847.9
03U708	919.9	11-Jan-90	25 A	842.7	03U710	945.0	23-Nov-88	20 F	849.0
03U708	919.9	16-May-90	26 A	842.8	03U710	945.0	02-Dec-88	20 A	849.5
03U708	919.9	28-Feb-91	30 A	843.1	03U710	945.0	13-Jan-89	21 A	849.0
03U708	919.9	27-Sep-91	32 A	842.5	03U710	945.0	31-Mar-89	21 A	845.7
03U709	910.2	17-Nov-87	16 A	850.3	03U710	945.0	05-Aug-89	23 F	844.6
03U709	910.2	24-Nov-87	16 A	850.3	03U710	945.0	05-Oct-89	24 A	843.9
03U709	910.2	30-Nov-87	16 A	850.3	03U710	945.0	02-Nov-89	24 F	843.1
03U709	910.2	14-Dec-87	16 A	850.3	03U710	945.0	21-Dec-89	24 A	843.6
03U709	910.2	11-Jan-88	17 A	850.5	03U710	945.0	11-Jan-90	25 A	843.0
03U709	910.2	27-Jan-88	17 F	850.3	03U710	945.0	16-May-90	26 A	842.9
03U709	910.2	13-Apr-88	18 F	852.6	03U710	945.0	28-Feb-91	30 A	843.2
03U709	910.2	02-May-88	18 A	850.8	03U710	945.0	27-Sep-91	32 A	842.6
03U709	910.2	20-May-88	18 A	850.1	03U711	906.4	24-Nov-87	16 A	849.9
03U709	910.2	23-Jun-88	18 A	849.5	03U711	906.4	30-Nov-87	16 A	849.9
03U709	910.2	27-Jul-88	19 A	848.4	03U711	906.4	14-Dec-87	16 F	849.6
03U709	910.2	30-Aug-88	19 F	847.1	03U711	906.4	11-Jan-88	17 A	850.2
03U709	910.2	01-Sep-88	19 A	846.9	03U711	906.4	26-Jan-88	17 F	849.7
03U709	910.2	21-Sep-88	19 A	846.4	03U711	906.4	13-Apr-88	18 F	852.4
03U709	910.2	14-Oct-88	20 A	846.6	03U711	906.4	02-May-88	18 A	850.2
03U709	910.2	23-Nov-88	20 F	848.0	03U711	906.4	20-May-88	18 A	849.7
03U709	910.2	02-Dec-88	20 A	848.2	03U711	906.4	23-Jun-88	18 A	849.0
03U709	910.2	13-Jan-89	21 A	848.1	03U711	906.4	27-Jul-88	19 A	848.2
03U709	910.2	31-Mar-89	21 A	844.6	03U711	906.4	30-Aug-88	19 F	846.8
03U709	910.2	05-Aug-89	23 F	843.0	03U711	906.4	01-Sep-88	19 A	846.9
03U709	910.2	05-Oct-89	24 A	842.7	03U711	906.4	21-Sep-88	19 A	846.4
03U709	910.2	02-Nov-89	24 F	842.4	03U711	906.4	14-Oct-88	20 A	846.5
03U709	910.2	21-Dec-89	24 A	841.9	03U711	906.4	23-Nov-88	20 F	847.8
03U709	910.2	11-Jan-90	25 A	841.7	03U711	906.4	02-Dec-88	20 A	847.6
03U709	910.2	16-May-90	26 A	841.9	03U711	906.4	13-Jan-89	21 A	847.7
03U709	910.2	28-Feb-91	30 A	842.3	03U711	906.4	31-Mar-89	21 A	843.9
03U709	910.2	27-Sep-91	32 A	841.8	03U711	906.4	07-Jul-89	23 A	842.7
03U710	945.0	17-Nov-87	16 A	851.3	03U711	906.4	05-Aug-89	23 F	842.7
03U710	945.0	24-Nov-87	16 A	851.5	03U711	906.4	05-Oct-89	24 A	842.0
03U710	945.0	30-Nov-87	16 A	851.6	03U711	906.4	03-Nov-89	24 F	841.9
03U710	945.0	14-Dec-87	16 A	851.4	03U711	906.4	21-Dec-89	24 A	841.3
03U710	945.0	11-Jan-88	17 A	851.8	03U711	906.4	11-Jan-90	25 A	841.1
03U710	945.0	27-Jan-88	17 F	850.6	03U711	906.4	16-May-90	26 A	841.4
03U710	945.0	13-Apr-88	18 F	854.1	03U711	906.4	16-Jul-90	27 A	840.1
03U710	945.0	02-May-88	18 A	852.5	03U711	906.4	28-Feb-91	30 A	841.8
03U710	945.0	20-May-88	18 A	851.8	03U711	906.4	03-Jun-91	31 A	841.4
03U710	945.0	23-Jun-88	18 A	851.6	03U711	906.4	03-Sep-91	32 A	839.7
03U710	945.0	27-Jul-88	19 A	849.9	03U711	906.4	27-Sep-91	32 A	840.1
03U710	945.0	30-Aug-88	19 F	848.8	03U715	961.1	02-Dec-88	20 A	852.3

TCAA
TCAA P GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U715	961.1	13-Jan-89	21 A	852.5	03U801	912.3	03-Aug-89	23 F	843.0
03U715	961.1	31-Mar-89	21 A	851.1	03U801	912.3	05-Oct-89	24 A	842.2
03U715	961.1	07-Jul-89	23 A	850.2	03U801	912.3	03-Nov-89	24 F	842.0
03U715	961.1	05-Oct-89	24 A	848.9	03U801	912.3	21-Dec-89	24 A	842.0
03U715	961.1	21-Dec-89	24 A	848.4	03U801	912.3	11-Jan-90	25 A	841.8
03U715	961.1	11-Jan-90	25 A	848.3	03U801	912.3	16-May-90	26 A	841.5
03U715	961.1	16-May-90	26 A	848.3	03U801	912.3	16-Jul-90	27 A	841.2
03U715	961.1	16-Jul-90	27 A	848.2	03U801	912.3	28-Feb-91	30 A	841.9
03U715	961.1	28-Feb-91	30 A	848.9	03U801	912.3	03-Jun-91	31 A	842.1
03U715	961.1	03-Jun-91	31 A	849.0	03U801	912.3	03-Sep-91	32 A	841.1
03U715	961.1	03-Sep-91	32 A	848.5	03U801	912.3	27-Sep-91	32 A	841.3
03U715	961.1	27-Sep-91	32 A	848.6					
03U716	950.3	02-Dec-88	20 A	851.6	03U803	898.1	17-Nov-87	16 A	849.7
03U716	950.3	31-Mar-89	21 A	849.9	03U803	898.1	24-Nov-87	16 A	849.6
03U716	950.3	07-Jul-89	23 A	848.7	03U803	898.1	30-Nov-87	16 A	849.5
03U716	950.3	05-Oct-89	24 A	847.8	03U803	898.1	14-Dec-87	16 A	848.9
03U716	950.3	21-Dec-89	24 A	847.1	03U803	898.1	11-Jan-88	17 A	849.0
03U716	950.3	11-Jan-90	25 A	847.1	03U803	898.1	26-Jan-88	17 F	848.9
03U716	950.3	16-May-90	26 A	847.2	03U803	898.1	13-Apr-88	18 F	851.0
03U716	950.3	16-Jul-90	27 A	847.0	03U803	898.1	02-May-88	18 A	849.6
03U716	950.3	28-Feb-91	30 A	847.8	03U803	898.1	20-May-88	18 A	849.2
03U716	950.3	10-Apr-91	30 F	847.8	03U803	898.1	23-Jun-88	18 A	848.4
03U716	950.3	03-Jun-91	31 A	847.7	03U803	898.1	27-Jul-88	19 A	847.7
03U716	950.3	04-Jun-91	31 F	848.4	03U803	898.1	30-Aug-88	19 F	846.7
03U716	950.3	03-Sep-91	32 A	847.2	03U803	898.1	01-Sep-88	19 A	846.6
03U716	950.3	04-Sep-91	32 F	848.2	03U803	898.1	21-Sep-88	19 A	846.0
03U716	950.3	27-Sep-91	32 A	847.4	03U803	898.1	14-Oct-88	20 A	846.1
					03U803	898.1	23-Nov-88	20 F	846.9
03U801	912.3	17-Nov-87	16 A	850.1	03U803	898.1	02-Dec-88	20 A	846.5
03U801	912.3	24-Nov-87	16 A	850.4	03U803	898.1	13-Jan-89	21 A	846.6
03U801	912.3	30-Nov-87	16 A	850.1	03U803	898.1	31-Mar-89	21 A	844.0
03U801	912.3	14-Dec-87	16 A	849.9	03U803	898.1	03-Aug-89	23 F	842.7
03U801	912.3	11-Jan-88	17 A	850.7	03U803	898.1	05-Oct-89	24 A	841.7
03U801	912.3	26-Jan-88	17 F	850.0	03U803	898.1	03-Nov-89	24 F	841.8
03U801	912.3	13-Apr-88	18 F	853.1	03U803	898.1	21-Dec-89	24 A	841.3
03U801	912.3	02-May-88	18 A	850.6	03U803	898.1	11-Jan-90	25 A	841.4
03U801	912.3	20-May-88	18 A	850.0	03U803	898.1	16-May-90	26 A	841.1
03U801	912.3	23-Jun-88	18 A	849.4	03U803	898.1	28-Feb-91	30 A	841.3
03U801	912.3	27-Jul-88	19 A	848.7	03U803	898.1	27-Sep-91	32 A	840.6
03U801	912.3	30-Aug-88	19 F	847.4					
03U801	912.3	01-Sep-88	19 A	847.0	03U804	910.2	24-Nov-87	16 A	850.0
03U801	912.3	21-Sep-88	19 A	846.6	03U804	910.2	30-Nov-87	16 A	849.8
03U801	912.3	14-Oct-88	20 A	846.9	03U804	910.2	14-Dec-87	16 F	849.5
03U801	912.3	23-Nov-88	20 F	848.4	03U804	910.2	11-Jan-88	17 A	850.7
03U801	912.3	02-Dec-88	20 A	848.2	03U804	910.2	26-Jan-88	17 F	849.7
03U801	912.3	13-Jan-89	21 A	847.2	03U804	910.2	13-Apr-88	18 F	852.6
03U801	912.3	31-Mar-89	21 A	844.1	03U804	910.2	02-May-88	18 A	850.1
					03U804	910.2	20-May-88	18 A	849.7

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
03U804	910.2	23-Jun-88	18 A	848.9	03U806	909.6	14-Dec-87	16 A	848.4
03U804	910.2	27-Jul-88	19 A	848.5	03U806	909.6	11-Jan-88	17 A	848.9
03U804	910.2	30-Aug-88	19 F	847.0	03U806	909.6	27-Jan-88	17 F	848.3
03U804	910.2	01-Sep-88	19 A	847.2	03U806	909.6	13-Apr-88	18 F	850.3
03U804	910.2	21-Sep-88	19 A	846.5	03U806	909.6	02-May-88	18 A	848.7
03U804	910.2	14-Oct-88	20 A	846.9	03U806	909.6	20-May-88	18 A	848.1
03U804	910.2	23-Nov-88	20 F	848.0	03U806	909.6	23-Jun-88	18 A	846.4
03U804	910.2	02-Dec-88	20 A	847.9	03U806	909.6	27-Jul-88	19 A	845.7
03U804	910.2	13-Jan-89	21 A	847.6	03U806	909.6	30-Aug-88	19 F	844.9
03U804	910.2	31-Mar-89	21 A	843.9	03U806	909.6	01-Sep-88	19 A	845.0
03U804	910.2	03-Aug-89	23 F	842.6	03U806	909.6	21-Sep-88	19 A	844.6
03U804	910.2	05-Oct-89	24 A	841.9	03U806	909.6	14-Oct-88	20 A	844.8
03U804	910.2	03-Nov-89	24 F	841.9	03U806	909.6	23-Nov-88	20 F	846.1
03U804	910.2	21-Dec-89	24 A	841.4	03U806	909.6	02-Dec-88	20 A	845.9
03U804	910.2	11-Jan-90	25 A	841.4	03U806	909.6	13-Jan-89	21 A	846.2
03U804	910.2	16-May-90	26 A	841.3	03U806	909.6	31-Mar-89	21 A	842.6
03U804	910.2	28-Feb-91	30 A	841.6	03U806	909.6	03-Aug-89	23 F	841.0
03U804	910.2	27-Sep-91	32 A	841.1	03U806	909.6	05-Oct-89	24 A	840.4
03U805	905.1	17-Nov-87	16 A	848.6	03U806	909.6	03-Nov-89	24 F	840.5
03U805	905.1	24-Nov-87	16 A	848.7	03U806	909.6	21-Dec-89	24 A	839.9
03U805	905.1	14-Dec-87	16 F	848.2	03U806	909.6	11-Jan-90	25 A	840.2
03U805	905.1	11-Jan-88	17 A	849.3	03U806	909.6	16-May-90	26 A	840.3
03U805	905.1	27-Jan-88	17 F	848.1	03U806	909.6	16-Jul-90	27 A	839.9
03U805	905.1	13-Apr-88	18 F	850.8	03U806	909.6	28-Feb-91	30 A	840.7
03U805	905.1	02-May-88	18 A	848.6	03U806	909.6	03-Jun-91	31 A	840.4
03U805	905.1	20-May-88	18 A	848.1	03U806	909.6	03-Sep-91	32 A	839.6
03U805	905.1	27-Jul-88	19 A	846.5	03U806	909.6	27-Sep-91	32 A	840.0
03U805	905.1	30-Aug-88	19 F	845.2	03U811	909.0	14-Dec-87	16 F	847.3
03U805	905.1	01-Sep-88	19 A	845.5	03U811	909.0	27-Jan-88	17 F	847.3
03U805	905.1	21-Sep-88	19 A	844.7	03U811	909.0	13-Apr-88	18 F	848.7
03U805	905.1	14-Oct-88	20 A	845.3	03U811	909.0	30-Aug-88	19 F	843.5
03U805	905.1	23-Nov-88	20 F	846.5	03U811	909.0	23-Nov-88	20 F	844.9
03U805	905.1	02-Dec-88	20 A	846.4	03U811	909.0	04-May-89	22 F	839.8
03U805	905.1	13-Jan-89	21 A	846.2	03U811	909.0	06-Aug-89	23 F	840.2
03U805	905.1	31-Mar-89	21 A	842.5	03U811	909.0	03-Nov-89	24 F	839.7
03U805	905.1	03-Aug-89	23 F	841.0	03U811	909.0	26-Apr-90	26 F	839.9
03U805	905.1	05-Oct-89	24 A	840.3	03U811	909.0	20-Mar-91	30 F	840.2
03U805	905.1	03-Nov-89	24 F	840.4	03U815	872.5	14-Dec-87	16 F	838.9
03U805	905.1	21-Dec-89	24 A	839.8	03U815	872.5	26-Jan-88	17 F	838.9
03U805	905.1	11-Jan-90	25 A	840.0	03U815	872.5	13-Apr-88	18 F	839.7
03U805	905.1	16-May-90	26 A	840.0	03U815	872.5	30-Aug-88	19 F	835.0
03U805	905.1	28-Feb-91	30 A	840.3	03U815	872.5	23-Nov-88	20 F	835.5
03U805	905.1	27-Sep-91	32 A	839.8	03U815	872.5	06-Aug-89	23 F	831.5
03U806	909.6	17-Nov-87	16 A	848.7	03U815	872.5	03-Nov-89	24 F	832.8
03U806	909.6	24-Nov-87	16 A	848.8	03U821	877.5	14-Dec-87	16 F	837.5
03U806	909.6	30-Nov-87	16 A	848.6					

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev. (ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev. (ft)
03U821	877.5	26-Jan-88	17 F	837.6	03U832	884.3	03-Nov-89	24 F	830.1
03U821	877.5	13-Apr-88	18 F	838.2	03U832	884.3	25-Apr-90	26 F	830.3
03U821	877.5	30-Aug-88	19 F	833.6	03U832	884.3	20-Mar-91	30 F	830.3
03U821	877.5	23-Nov-88	20 F	834.9					
03U821	877.5	10-May-89	22 F	831.2	04J077	912.3	21-Sep-88	19 A	847.3
03U821	877.5	06-Aug-89	23 F	830.8	04J077	912.3	02-Dec-88	20 A	847.8
03U821	877.5	03-Nov-89	24 F	831.3	04J077	912.3	13-Jan-89	21 A	847.4
03U821	877.5	01-May-90	26 F	801.3	04J077	912.3	31-Mar-89	21 A	840.2
03U821	877.5	23-Jul-90	27 F	830.5	04J077	912.3	05-Oct-89	24 A	837.9
03U821	877.5	21-Mar-91	30 F	831.1	04J077	912.3	21-Dec-89	24 A	836.7
					04J077	912.3	11-Jan-90	25 A	836.7
03U822	876.4	14-Dec-87	16 F	837.2	04J077	912.3	16-May-90	26 A	837.3
03U822	876.4	26-Jan-88	17 F	837.3	04J077	912.3	28-Feb-91	30 A	838.1
03U822	876.4	13-Apr-88	18 F	837.9	04J077	912.3	27-Sep-91	32 A	837.6
03U822	876.4	30-Aug-88	19 F	833.3					
03U822	876.4	23-Nov-88	20 F	834.6	04J702	908.3	02-Dec-88	20 A	847.0
03U822	876.4	05-May-89	22 F	831.3	04J702	908.3	13-Jan-89	21 A	847.2
03U822	876.4	06-Aug-89	23 F	830.6	04J702	908.3	31-Mar-89	21 A	842.5
03U822	876.4	03-Nov-89	24 F	831.1	04J702	908.3	05-Oct-89	24 A	840.3
03U822	876.4	25-Apr-90	26 F	831.3	04J702	908.3	21-Dec-89	24 A	839.5
03U822	876.4	21-Mar-91	30 F	830.9	04J702	908.3	11-Jan-90	25 A	839.8
					04J702	908.3	16-May-90	26 A	839.9
03U824	879.9	14-Dec-87	16 F	837.3	04J702	908.3	28-Feb-91	30 A	840.3
03U824	879.9	26-Jan-88	17 F	837.4	04J702	908.3	27-Sep-91	32 A	839.7
03U824	879.9	13-Apr-88	18 F	838.0					
03U824	879.9	30-Aug-88	19 F	833.4	04J708	919.8	31-Mar-89	21 A	843.8
03U824	879.9	23-Nov-88	20 F	834.5	04J708	919.8	05-Oct-89	24 A	841.7
03U824	879.9	06-Aug-89	23 F	830.7	04J708	919.8	21-Dec-89	24 A	840.9
03U824	879.9	03-Nov-89	24 F	831.2	04J708	919.8	11-Jan-90	25 A	840.8
03U824	879.9	03-May-90	26 F	832.5	04J708	919.8	16-May-90	26 A	840.9
03U824	879.9	28-Mar-91	30 F	830.7	04J708	919.8	28-Feb-91	30 A	841.3
					04J708	919.8	27-Sep-91	32 A	840.9
03U831	889.2	14-Dec-87	16 F	837.2					
03U831	889.2	26-Jan-88	17 F	837.4	04J713	895.8	02-Dec-88	20 A	847.1
03U831	889.2	13-Apr-88	18 F	837.9	04J713	895.8	13-Jan-89	21 A	847.0
03U831	889.2	30-Aug-88	19 F	833.2	04J713	895.8	31-Mar-89	21 A	842.2
03U831	889.2	10-May-89	22 F	831.2	04J713	895.8	07-Jul-89	23 A	840.3
03U831	889.2	07-Aug-89	23 F	830.9	04J713	895.8	05-Oct-89	24 A	840.1
03U831	889.2	25-Apr-90	26 F	831.1	04J713	895.8	21-Dec-89	24 A	839.4
03U831	889.2	19-Mar-91	30 F	830.8	04J713	895.8	11-Jan-90	25 A	839.5
					04J713	895.8	16-May-90	26 A	839.7
03U832	884.3	14-Dec-87	16 F	836.2	04J713	895.8	16-Jul-90	27 A	839.5
03U832	884.3	26-Jan-88	17 F	836.4	04J713	895.8	28-Feb-91	30 A	840.1
03U832	884.3	13-Apr-88	18 F	835.1	04J713	895.8	03-Jun-91	31 A	839.8
03U832	884.3	30-Aug-88	19 F	832.0	04J713	895.8	03-Sep-91	32 A	839.0
03U832	884.3	23-Nov-88	20 F	833.4	04J713	895.8	27-Sep-91	32 A	839.4
03U832	884.3	09-May-89	22 F	830.5					
03U832	884.3	07-Aug-89	23 F	829.4	04J714	884.7	02-Dec-88	20 A	840.0

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04J714	884.7	13-Jan-89	21 A	846.8	04U002	920.2	14-Dec-87	16 F	850.4
04J714	884.7	31-Mar-89	21 A	836.6	04U002	920.2	11-Jan-88	17 A	850.6
04J714	884.7	07-Jul-89	23 A	834.2	04U002	920.2	27-Jan-88	17 F	850.5
04J714	884.7	05-Oct-89	24 A	840.8	04U002	920.2	13-Apr-88	18 F	853.0
04J714	884.7	21-Dec-89	24 A	840.5	04U002	920.2	02-May-88	18 A	850.9
04J714	884.7	11-Jan-90	25 A	840.6	04U002	920.2	20-May-88	18 A	850.4
04J714	884.7	16-May-90	26 A	840.8	04U002	920.2	23-Jun-88	18 A	849.3
04J714	884.7	16-Jul-90	27 A	840.6	04U002	920.2	27-Jul-88	19 A	848.1
04J714	884.7	28-Feb-91	30 A	841.3	04U002	920.2	30-Aug-88	19 F	847.8
04J714	884.7	03-Jun-91	31 A	841.1	04U002	920.2	01-Sep-88	19 A	847.8
04J714	884.7	03-Sep-91	32 A	840.2	04U002	920.2	21-Sep-88	19 A	847.5
04J714	884.7	27-Sep-91	32 A	840.7	04U002	920.2	14-Oct-88	20 A	846.9
04U001	888.8	17-Nov-87	16 A	849.7	04U002	920.2	25-Nov-88	20 F	848.4
04U001	888.8	24-Nov-87	16 A	849.3	04U002	920.2	13-Jan-89	21 A	848.0
04U001	888.8	30-Nov-87	16 A	849.7	04U002	920.2	31-Mar-89	21 A	843.8
04U001	888.8	14-Dec-87	16 A	849.4	04U002	920.2	05-Aug-89	23 F	842.3
04U001	888.8	11-Jan-88	17 A	849.6	04U002	920.2	05-Oct-89	24 A	841.9
04U001	888.8	13-Apr-88	18 F	850.4	04U002	920.2	02-Nov-89	24 F	841.8
04U001	888.8	02-May-88	18 A	849.5	04U002	920.2	21-Dec-89	24 A	841.2
04U001	888.8	20-May-88	18 A	848.8	04U002	920.2	11-Jan-90	25 A	841.1
04U001	888.8	23-Jun-88	18 A	846.4	04U002	920.2	16-May-90	26 A	841.3
04U001	888.8	27-Jul-88	19 A	845.2	04U002	920.2	16-Jul-90	27 A	841.1
04U001	888.8	30-Aug-88	19 F	845.2	04U002	920.2	28-Feb-91	30 A	841.7
04U001	888.8	01-Sep-88	19 A	844.8	04U002	920.2	03-Jun-91	31 A	841.5
04U001	888.8	21-Sep-88	19 A	845.0	04U002	920.2	03-Sep-91	32 A	841.0
04U001	888.8	14-Oct-88	20 A	845.5	04U002	920.2	27-Sep-91	32 A	841.2
04U001	888.8	25-Nov-88	20 F	846.5	04U003	943.1	17-Nov-87	16 A	850.0
04U001	888.8	02-Dec-88	20 A	846.4	04U003	943.1	24-Nov-87	16 A	849.8
04U001	888.8	13-Jan-89	21 A	846.6	04U003	943.1	30-Nov-87	16 A	849.9
04U001	888.8	31-Mar-89	21 A	843.7	04U003	943.1	14-Dec-87	16 F	849.6
04U001	888.8	07-Jul-89	23 A	841.4	04U003	943.1	14-Dec-87	16 A	849.7
04U001	888.8	05-Aug-89	23 F	841.2	04U003	943.1	11-Jan-88	17 A	850.1
04U001	888.8	05-Oct-89	24 A	841.1	04U003	943.1	26-Jan-88	17 F	849.7
04U001	888.8	02-Nov-89	24 F	841.4	04U003	943.1	14-Apr-88	18 F	851.1
04U001	888.8	21-Dec-89	24 A	841.0	04U003	943.1	14-Apr-88	18 F	851.1
04U001	888.8	11-Jan-90	25 A	841.1	04U003	943.1	02-May-88	18 A	850.2
04U001	888.8	16-May-90	26 A	841.3	04U003	943.1	20-May-88	18 A	849.7
04U001	888.8	16-Jul-90	27 A	841.0	04U003	943.1	23-Jun-88	18 A	848.5
04U001	888.8	28-Feb-91	30 A	841.9	04U003	943.1	27-Jul-88	19 A	847.7
04U001	888.8	03-Jun-91	31 A	841.6	04U003	943.1	30-Aug-88	19 F	846.5
04U001	888.8	03-Sep-91	32 A	840.7	04U003	943.1	01-Sep-88	19 A	846.5
04U001	888.8	27-Sep-91	32 A	841.3	04U003	943.1	21-Sep-88	19 A	846.1
04U002	920.2	17-Nov-87	16 A	850.6	04U003	943.1	14-Oct-88	20 A	846.3
04U002	920.2	24-Nov-87	16 A	850.3	04U003	943.1	25-Nov-88	20 F	847.0
04U002	920.2	30-Nov-87	16 A	850.6	04U003	943.1	02-Dec-88	20 A	847.3
04U002	920.2	14-Dec-87	16 A	850.3	04U003	943.1	13-Jan-89	21 A	846.9
					04U003	943.1	31-Mar-89	21 A	844.5
					04U003	943.1	07-Jul-89	23 A	843.1

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04U003	943.1	05-Aug-89	23 F	842.9	04U012	880.3	14-Dec-87	16 A	859.7
04U003	943.1	05-Oct-89	24 A	842.4	04U012	880.3	14-Dec-87	16 F	859.8
04U003	943.1	02-Nov-89	24 F	842.1	04U012	880.3	11-Jan-88	17 A	860.1
04U003	943.1	21-Dec-89	24 A	842.2	04U012	880.3	27-Jan-88	17 F	860.0
04U003	943.1	11-Jan-90	25 A	841.8	04U012	880.3	13-Apr-88	18 F	859.7
04U003	943.1	16-May-90	26 A	842.0	04U012	880.3	02-May-88	18 A	859.2
04U003	943.1	16-Jul-90	27 A	841.7	04U012	880.3	20-May-88	18 A	859.7
04U003	943.1	28-Feb-91	30 A	842.5	04U012	880.3	23-Jun-88	18 A	854.6
04U003	943.1	03-Jun-91	31 A	842.2	04U012	880.3	27-Jul-88	19 A	853.5
04U003	943.1	03-Sep-91	32 A	841.7	04U012	880.3	30-Aug-88	19 F	855.4
04U003	943.1	27-Sep-91	32 A	841.9	04U012	880.3	01-Sep-88	19 A	854.2
04U007	902.9	24-Nov-87	16 A	858.8	04U012	880.3	21-Sep-88	19 A	854.5
04U007	902.9	30-Nov-87	16 A	859.3	04U012	880.3	14-Oct-88	20 A	855.2
04U007	902.9	14-Dec-87	16 F	859.0	04U012	880.3	25-Nov-88	20 F	855.7
04U007	902.9	11-Jan-88	17 A	859.4	04U012	880.3	02-Dec-88	20 A	855.7
04U007	902.9	26-Jan-88	17 F	859.3	04U012	880.3	13-Jan-89	21 A	856.1
04U007	902.9	13-Apr-88	18 F	859.5	04U012	880.3	31-Mar-89	21 A	856.4
04U007	902.9	02-May-88	18 A	858.9	04U012	880.3	07-Jul-89	23 A	853.4
04U007	902.9	20-May-88	18 A	858.7	04U012	880.3	05-Aug-89	23 F	852.6
04U007	902.9	23-Jun-88	18 A	856.4	04U012	880.3	05-Oct-89	24 A	853.0
04U007	902.9	27-Jul-88	19 A	855.0	04U012	880.3	02-Nov-89	24 F	853.5
04U007	902.9	30-Aug-88	19 F	854.7	04U012	880.3	21-Dec-89	24 A	853.8
04U007	902.9	01-Sep-88	19 A	854.7	04U012	880.3	11-Jan-90	25 A	854.0
04U007	902.9	21-Sep-88	19 A	854.3	04U012	880.3	16-May-90	26 A	853.6
04U007	902.9	14-Oct-88	20 A	854.6	04U012	880.3	16-Jul-90	27 A	853.5
04U007	902.9	25-Nov-88	20 F	854.9	04U012	880.3	28-Feb-91	30 A	854.8
04U007	902.9	02-Dec-88	20 A	855.2	04U012	880.3	03-Jun-91	31 A	855.1
04U007	902.9	13-Jan-89	21 A	855.4	04U012	880.3	03-Sep-91	32 A	853.8
04U007	902.9	31-Mar-89	21 A	854.7	04U012	880.3	27-Sep-91	32 A	854.8
04U007	902.9	07-Jul-89	23 A	852.7	04U020	954.7	17-Nov-87	16 A	854.1
04U007	902.9	05-Aug-89	23 F	852.0	04U020	954.7	24-Nov-87	16 A	853.9
04U007	902.9	05-Oct-89	24 A	852.1	04U020	954.7	30-Nov-87	16 A	853.9
04U007	902.9	02-Nov-89	24 F	852.3	04U020	954.7	14-Dec-87	16 A	853.9
04U007	902.9	21-Dec-89	24 A	852.1	04U020	954.7	11-Jan-88	17 A	853.5
04U007	902.9	11-Jan-90	25 A	852.0	04U020	954.7	27-Jan-88	17 F	853.3
04U007	902.9	16-May-90	26 A	851.7	04U020	954.7	14-Apr-88	18 F	854.3
04U007	902.9	16-Jul-90	27 A	851.4	04U020	954.7	02-May-88	18 A	854.3
04U007	902.9	20-Sep-90	28 F	851.8	04U020	954.7	20-May-88	18 A	853.8
04U007	902.9	28-Feb-91	30 A	852.8	04U020	954.7	23-Jun-88	18 A	851.9
04U007	902.9	28-Mar-91	30 F	852.2	04U020	954.7	27-Jul-88	19 A	852.1
04U007	902.9	03-Jun-91	31 A	852.5	04U020	954.7	30-Aug-88	19 F	849.6
04U007	902.9	03-Sep-91	32 A	852.0	04U020	954.7	01-Sep-88	19 A	850.1
04U007	902.9	27-Sep-91	32 A	851.9	04U020	954.7	21-Sep-88	19 A	850.0
04U012	880.3	17-Nov-87	16 A	859.6	04U020	954.7	14-Oct-88	20 A	849.9
04U012	880.3	24-Nov-87	16 A	859.5	04U020	954.7	25-Nov-88	20 F	850.4
04U012	880.3	30-Nov-87	16 A	859.8	04U020	954.7	02-Dec-88	20 A	850.6
					04U020	954.7	13-Jan-89	21 A	850.6

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04U020	954.7	31-Mar-89	21 A	848.9	04U077	912.4	27-Jan-88	17 F	849.6
04U020	954.7	07-Jul-89	23 A	846.8	04U077	912.4	13-Apr-88	18 F	852.7
04U020	954.7	05-Aug-89	23 F	846.4	04U077	912.4	02-May-88	18 A	849.4
04U020	954.7	05-Oct-89	24 A	846.0	04U077	912.4	20-May-88	18 A	848.8
04U020	954.7	04-Nov-89	24 F	846.6	04U077	912.4	23-Jun-88	18 A	847.5
04U020	954.7	21-Dec-89	24 A	846.2	04U077	912.4	27-Jul-88	19 A	847.5
04U020	954.7	11-Jan-90	25 A	846.1	04U077	912.4	30-Aug-88	19 F	846.5
04U020	954.7	16-May-90	26 A	846.2	04U077	912.4	01-Sep-88	19 A	846.5
04U020	954.7	16-Jul-90	27 A	846.0	04U077	912.4	21-Sep-88	19 A	845.4
04U020	954.7	28-Feb-91	30 A	846.8	04U077	912.4	14-Oct-88	20 A	845.8
04U020	954.7	03-Jun-91	31 A	846.8	04U077	912.4	25-Nov-88	20 F	848.0
04U020	954.7	03-Sep-91	32 A	846.2	04U077	912.4	02-Dec-88	20 A	847.7
04U020	954.7	27-Sep-91	32 A	846.5	04U077	912.4	05-Aug-89	23 F	841.5
					04U077	912.4	05-Oct-89	24 A	840.5
04U027	967.5	17-Nov-87	16 A	853.5	04U077	912.4	02-Nov-89	24 F	841.0
04U027	967.5	24-Nov-87	16 A	853.4	04U077	912.4	21-Dec-89	24 A	839.7
04U027	967.5	30-Nov-87	16 A	853.5	04U077	912.4	11-Jan-90	25 A	839.7
04U027	967.5	14-Dec-87	16 A	853.4	04U077	912.4	23-Apr-90	26 F	851.6
04U027	967.5	14-Dec-87	16 F	853.7	04U077	912.4	16-May-90	26 A	839.8
04U027	967.5	27-Jan-88	17 F	853.8	04U077	912.4	19-Jul-90	27 F	851.6
04U027	967.5	14-Apr-88	18 F	854.7	04U077	912.4	28-Feb-91	30 A	840.3
04U027	967.5	02-May-88	18 A	853.8	04U077	912.4	27-Sep-91	32 A	839.8
04U027	967.5	20-May-88	18 A	853.3					
04U027	967.5	23-Jun-88	18 A	852.1	04U510	911.0	14-Dec-87	16 F	867.9
04U027	967.5	27-Jul-88	19 A	850.7	04U510	911.0	27-Jan-88	17 F	868.1
04U027	967.5	30-Aug-88	19 F	849.8	04U510	911.0	13-Apr-88	18 F	867.0
04U027	967.5	01-Sep-88	19 A	849.8	04U510	911.0	02-May-88	18 A	864.2
04U027	967.5	21-Sep-88	19 A	849.5	04U510	911.0	20-May-88	18 A	863.7
04U027	967.5	14-Oct-88	20 A	849.3	04U510	911.0	27-Jul-88	19 A	857.0
04U027	967.5	25-Nov-88	20 F	850.3	04U510	911.0	30-Aug-88	19 F	861.4
04U027	967.5	02-Dec-88	20 A	850.2	04U510	911.0	01-Sep-88	19 A	858.9
04U027	967.5	13-Jan-89	21 A	850.4	04U510	911.0	21-Sep-88	19 A	859.4
04U027	967.5	31-Mar-89	21 A	848.2	04U510	911.0	14-Oct-88	20 A	860.0
04U027	967.5	05-Aug-89	23 F	846.6	04U510	911.0	25-Nov-88	20 F	863.5
04U027	967.5	05-Oct-89	24 A	845.8	04U510	911.0	02-Dec-88	20 A	861.0
04U027	967.5	06-Nov-89	24 F	845.9	04U510	911.0	13-Jan-89	21 A	861.1
04U027	967.5	21-Dec-89	24 A	845.7	04U510	911.0	31-Mar-89	21 A	862.1
04U027	967.5	11-Jan-90	25 A	845.5	04U510	911.0	05-Aug-89	23 F	860.1
04U027	967.5	16-May-90	26 A	845.5	04U510	911.0	05-Oct-89	24 A	858.5
04U027	967.5	28-Feb-91	30 A	846.0	04U510	911.0	04-Nov-89	24 F	861.9
04U027	967.5	27-Sep-91	32 A	845.6	04U510	911.0	21-Dec-89	24 A	859.3
					04U510	911.0	11-Jan-90	25 A	859.4
04U077	912.4	17-Nov-87	16 A	849.4	04U510	911.0	23-Apr-90	26 F	859.3
04U077	912.4	24-Nov-87	16 A	849.1	04U510	911.0	16-May-90	26 A	859.1
04U077	912.4	30-Nov-87	16 A	849.2	04U510	911.0	28-Feb-91	30 A	860.6
04U077	912.4	14-Dec-87	16 F	847.6	04U510	911.0	28-Mar-91	30 F	863.2
04U077	912.4	14-Dec-87	16 A	846.9	04U510	911.0	27-Sep-91	32 A	860.8
04U077	912.4	11-Jan-88	17 A	849.3					

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TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04U673	897.8	17-Nov-87	16 A	844.8	04U701	909.0	14-Oct-88	20 A	845.7
04U673	897.8	24-Nov-87	16 A	845.5	04U701	909.0	25-Nov-88	20 F	847.3
04U673	897.8	30-Nov-87	16 A	845.8	04U701	909.0	02-Dec-88	20 A	847.0
04U673	897.8	14-Dec-87	16 A	845.3	04U701	909.0	13-Jan-89	21 A	847.1
04U673	897.8	14-Dec-87	16 F	845.4	04U701	909.0	31-Mar-89	21 A	843.0
04U673	897.8	11-Jan-88	17 A	845.5	04U701	909.0	05-Aug-89	23 F	840.4
04U673	897.8	27-Jan-88	17 F	845.6	04U701	909.0	05-Oct-89	24 A	839.9
04U673	897.8	13-Apr-88	18 F	846.9	04U701	909.0	03-Nov-89	24 F	840.0
04U673	897.8	02-May-88	18 A	845.8	04U701	909.0	21-Dec-89	24 A	839.1
04U673	897.8	20-May-88	18 A	845.4	04U701	909.0	11-Jan-90	25 A	839.4
04U673	897.8	23-Jun-88	18 A	843.9	04U701	909.0	16-May-90	26 A	839.5
04U673	897.8	27-Jul-88	19 A	842.9	04U701	909.0	28-Feb-91	30 A	839.9
04U673	897.8	30-Aug-88	19 F	842.2	04U701	909.0	27-Sep-91	32 A	839.3
04U673	897.8	01-Sep-88	19 A	842.1					
04U673	897.8	21-Sep-88	19 A	841.8	04U702	908.1	17-Nov-87	16 A	849.1
04U673	897.8	14-Oct-88	20 A	842.1	04U702	908.1	24-Nov-87	16 A	849.2
04U673	897.8	25-Nov-88	20 F	842.9	04U702	908.1	30-Nov-87	16 A	849.5
04U673	897.8	02-Dec-88	20 A	842.5	04U702	908.1	14-Dec-87	16 A	849.2
04U673	897.8	13-Jan-89	21 A	838.9	04U702	908.1	11-Jan-88	17 A	849.7
04U673	897.8	31-Mar-89	21 A	840.9	04U702	908.1	27-Jan-88	17 F	849.3
04U673	897.8	03-May-89	22 F	840.0	04U702	908.1	13-Apr-88	18 F	851.2
04U673	897.8	07-Jul-89	23 A	839.2	04U702	908.1	02-May-88	18 A	849.6
04U673	897.8	05-Aug-89	23 F	839.3	04U702	908.1	20-May-88	18 A	848.9
04U673	897.8	05-Oct-89	24 A	838.9	04U702	908.1	23-Jun-88	18 A	847.2
04U673	897.8	03-Nov-89	24 F	838.6	04U702	908.1	27-Jul-88	19 A	846.8
04U673	897.8	21-Dec-89	24 A	838.3	04U702	908.1	30-Aug-88	19 F	845.6
04U673	897.8	11-Jan-90	25 A	838.5	04U702	908.1	01-Sep-88	19 A	845.7
04U673	897.8	16-May-90	26 A	838.5	04U702	908.1	21-Sep-88	19 A	845.4
04U673	897.8	16-Jul-90	27 A	838.0	04U702	908.1	14-Oct-88	20 A	845.6
04U673	897.8	28-Feb-91	30 A	838.5	04U702	908.1	25-Nov-88	20 F	846.9
04U673	897.8	03-Jun-91	31 A	838.2	04U702	908.1	02-Dec-88	20 A	846.9
04U673	897.8	03-Sep-91	32 A	837.6	04U702	908.1	13-Jan-89	21 A	847.1
04U673	897.8	27-Sep-91	32 A	837.9	04U702	908.1	31-Mar-89	21 A	842.9
					04U702	908.1	05-Aug-89	23 F	841.0
04U701	909.0	17-Nov-87	16 A	848.9	04U702	908.1	05-Oct-89	24 A	840.6
04U701	909.0	24-Nov-87	16 A	849.1	04U702	908.1	03-Nov-89	24 F	840.6
04U701	909.0	30-Nov-87	16 A	849.3	04U702	908.1	21-Dec-89	24 A	840.3
04U701	909.0	14-Dec-87	16 A	849.0	04U702	908.1	11-Jan-90	25 A	840.2
04U701	909.0	11-Jan-88	17 A	849.4	04U702	908.1	16-May-90	26 A	840.2
04U701	909.0	27-Jan-88	17 F	849.1	04U702	908.1	28-Feb-91	30 A	840.6
04U701	909.0	13-Apr-88	18 F	851.3	04U702	908.1	27-Sep-91	32 A	840.0
04U701	909.0	02-May-88	18 A	849.4					
04U701	909.0	20-May-88	18 A	848.8	04U708	919.7	17-Nov-87	16 A	850.2
04U701	909.0	23-Jun-88	18 A	847.1	04U708	919.7	24-Nov-87	16 A	849.9
04U701	909.0	27-Jul-88	19 A	846.8	04U708	919.7	30-Nov-87	16 A	850.0
04U701	909.0	30-Aug-88	19 F	845.5	04U708	919.7	14-Dec-87	16 A	849.9
04U701	909.0	01-Sep-88	19 A	845.9	04U708	919.7	11-Jan-88	17 A	850.2
04U701	909.0	21-Sep-88	19 A	845.3	04U708	919.7	27-Jan-88	17 F	850.0

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04U708	919.7	13-Apr-88	18 F	852.6	04U709	910.0	28-Feb-91	30 A	840.8
04U708	919.7	02-May-88	18 A	850.4	04U709	910.0	27-Sep-91	32 A	840.4
04U708	919.7	20-May-88	18 A	849.9					
04U708	919.7	23-Jun-88	18 A	848.9	04U711	906.3	17-Nov-87	16 A	849.1
04U708	919.7	27-Jul-88	19 A	847.8	04U711	906.3	24-Nov-87	16 A	849.1
04U708	919.7	30-Aug-88	19 F	847.5	04U711	906.3	30-Nov-87	16 A	849.1
04U708	919.7	01-Sep-88	19 A	847.4	04U711	906.3	14-Dec-87	16 A	848.9
04U708	919.7	21-Sep-88	19 A	847.2	04U711	906.3	15-Dec-87	16 F	848.8
04U708	919.7	14-Oct-88	20 A	846.6	04U711	906.3	11-Jan-88	17 A	849.8
04U708	919.7	25-Nov-88	20 F	847.8	04U711	906.3	28-Jan-88	17 F	849.0
04U708	919.7	02-Dec-88	20 A	848.2	04U711	906.3	13-Apr-88	18 F	851.4
04U708	919.7	13-Jan-89	21 A	847.6	04U711	906.3	02-May-88	18 A	849.3
04U708	919.7	31-Mar-89	21 A	844.5	04U711	906.3	20-May-88	18 A	848.7
04U708	919.7	05-Aug-89	23 F	842.4	04U711	906.3	23-Jun-88	18 A	847.5
04U708	919.7	05-Oct-89	24 A	842.1	04U711	906.3	27-Jul-88	19 A	847.7
04U708	919.7	02-Nov-89	24 F	841.8	04U711	906.3	30-Aug-88	19 F	845.6
04U708	919.7	21-Dec-89	24 A	841.4	04U711	906.3	21-Sep-88	19 A	845.3
04U708	919.7	11-Jan-90	25 A	841.2	04U711	906.3	14-Oct-88	20 A	845.7
04U708	919.7	16-May-90	26 A	841.4	04U711	906.3	25-Nov-88	20 F	847.1
04U708	919.7	28-Feb-91	30 A	841.9	04U711	906.3	02-Dec-88	20 A	847.0
04U708	919.7	27-Sep-91	32 A	841.4	04U711	906.3	13-Jan-89	21 A	846.8
					04U711	906.3	31-Mar-89	21 A	842.9
04U709	910.0	17-Nov-87	16 A	849.5	04U711	906.3	07-Jul-89	23 A	841.3
04U709	910.0	24-Nov-87	16 A	849.5	04U711	906.3	05-Aug-89	23 F	841.4
04U709	910.0	30-Nov-87	16 A	850.2	04U711	906.3	05-Oct-89	24 A	840.8
04U709	910.0	14-Dec-87	16 A	849.7	04U711	906.3	03-Nov-89	24 F	840.7
04U709	910.0	15-Dec-87	16 F	849.7	04U711	906.3	21-Dec-89	24 A	840.3
04U709	910.0	11-Jan-88	17 A	850.0	04U711	906.3	11-Jan-90	25 A	840.0
04U709	910.0	27-Jan-88	17 F	849.6	04U711	906.3	16-May-90	26 A	840.4
04U709	910.0	13-Apr-88	18 F	852.6	04U711	906.3	16-Jul-90	27 A	841.0
04U709	910.0	02-May-88	18 A	850.1	04U711	906.3	28-Feb-91	30 A	840.6
04U709	910.0	20-May-88	18 A	849.5	04U711	906.3	03-Jun-91	31 A	840.4
04U709	910.0	23-Jun-88	18 A	848.6	04U711	906.3	03-Sep-91	32 A	840.8
04U709	910.0	27-Jul-88	19 A	847.8	04U711	906.3	27-Sep-91	32 A	840.9
04U709	910.0	30-Aug-88	19 F	847.3					
04U709	910.0	01-Sep-88	19 A	847.3	04U713	895.4	02-Dec-88	20 A	848.4
04U709	910.0	21-Sep-88	19 A	846.9	04U713	895.4	13-Jan-89	21 A	848.4
04U709	910.0	14-Oct-88	20 A	846.3	04U713	895.4	31-Mar-89	21 A	844.1
04U709	910.0	25-Nov-88	20 F	848.0	04U713	895.4	07-Jul-89	23 A	842.5
04U709	910.0	02-Dec-88	20 A	848.1	04U713	895.4	05-Oct-89	24 A	842.6
04U709	910.0	13-Jan-89	21 A	847.6	04U713	895.4	21-Dec-89	24 A	841.9
04U709	910.0	31-Mar-89	21 A	844.1	04U713	895.4	11-Jan-90	25 A	841.9
04U709	910.0	05-Aug-89	23 F	841.5	04U713	895.4	16-May-90	26 A	842.1
04U709	910.0	05-Oct-89	24 A	841.1	04U713	895.4	16-Jul-90	27 A	841.9
04U709	910.0	02-Nov-89	24 F	840.9	04U713	895.4	28-Feb-91	30 A	842.7
04U709	910.0	21-Dec-89	24 A	841.4	04U713	895.4	03-Jun-91	31 A	842.5
04U709	910.0	11-Jan-90	25 A	840.3	04U713	895.4	03-Sep-91	32 A	841.8
04U709	910.0	16-May-90	26 A	840.4	04U713	895.4	27-Sep-91	32 A	842.1

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04U714	884.6	02-Dec-88	20 A	839.9	04U806	909.2	11-Jan-88	17 A	848.8
04U714	884.6	13-Jan-89	21 A	846.8	04U806	909.2	27-Jan-88	17 F	847.7
04U714	884.6	31-Mar-89	21 A	843.2	04U806	909.2	13-Apr-88	18 F	850.0
04U714	884.6	07-Jul-89	23 A	841.1	04U806	909.2	02-May-88	18 A	848.2
04U714	884.6	05-Oct-89	24 A	840.9	04U806	909.2	20-May-88	18 A	847.6
04U714	884.6	21-Dec-89	24 A	840.6	04U806	909.2	23-Jun-88	18 A	846.0
04U714	884.6	11-Jan-90	25 A	840.7	04U806	909.2	27-Jul-88	19 A	845.6
04U714	884.6	16-May-90	26 A	840.9	04U806	909.2	30-Aug-88	19 F	844.4
04U714	884.6	16-Jul-90	27 A	840.7	04U806	909.2	01-Sep-88	19 A	844.9
04U714	884.6	28-Feb-91	30 A	841.4	04U806	909.2	21-Sep-88	19 A	844.2
04U714	884.6	03-Jun-91	31 A	841.2	04U806	909.2	14-Oct-88	20 A	844.6
04U714	884.6	03-Sep-91	32 A	840.3	04U806	909.2	25-Nov-88	20 F	845.8
04U714	884.6	27-Sep-91	32 A	840.8	04U806	909.2	02-Dec-88	20 A	845.8
					04U806	909.2	13-Jan-89	21 A	845.8
04U802	903.4	17-Nov-87	16 A	849.6	04U806	909.2	31-Mar-89	21 A	841.9
04U802	903.4	24-Nov-87	16 A	849.5	04U806	909.2	07-Jul-89	23 A	840.0
04U802	903.4	30-Nov-87	16 A	849.5	04U806	909.2	03-Aug-89	23 F	840.1
04U802	903.4	14-Dec-87	16 F	849.2	04U806	909.2	05-Oct-89	24 A	839.6
04U802	903.4	11-Jan-88	17 A	849.7	04U806	909.2	03-Nov-89	24 F	839.7
04U802	903.4	26-Jan-88	17 F	849.4	04U806	909.2	21-Dec-89	24 A	839.1
04U802	903.4	13-Apr-88	18 F	851.3	04U806	909.2	11-Jan-90	25 A	839.4
04U802	903.4	02-May-88	18 A	849.8	04U806	909.2	16-May-90	26 A	839.5
04U802	903.4	20-May-88	18 A	849.3	04U806	909.2	16-Jul-90	27 A	839.0
04U802	903.4	23-Jun-88	18 A	848.1	04U806	909.2	28-Feb-91	30 A	839.8
04U802	903.4	27-Jul-88	19 A	847.2	04U806	909.2	03-Jun-91	31 A	839.5
04U802	903.4	30-Aug-88	19 F	846.2	04U806	909.2	03-Sep-91	32 A	838.8
04U802	903.4	21-Sep-88	19 A	845.7	04U806	909.2	27-Sep-91	32 A	839.1
04U802	903.4	14-Oct-88	20 A	845.9					
04U802	903.4	25-Nov-88	20 F	846.8	04U821	877.2	14-Dec-87	16 F	837.3
04U802	903.4	02-Dec-88	20 A	846.6	04U821	877.2	26-Jan-88	17 F	837.5
04U802	903.4	13-Jan-89	21 A	846.5	04U821	877.2	13-Apr-88	18 F	838.0
04U802	903.4	31-Mar-89	21 A	844.0	04U821	877.2	30-Aug-88	19 F	833.4
04U802	903.4	03-Aug-89	23 F	842.6	04U821	877.2	25-Nov-88	20 F	834.8
04U802	903.4	05-Oct-89	24 A	841.9	04U821	877.2	06-Aug-89	23 F	830.7
04U802	903.4	03-Nov-89	24 F	841.8	04U821	877.2	03-Nov-89	24 F	831.2
04U802	903.4	21-Dec-89	24 A	841.6	04U821	877.2	19-Apr-90	26 F	831.5
04U802	903.4	11-Jan-90	25 A	841.6	04U821	877.2	23-Jul-90	27 F	830.3
04U802	903.4	16-May-90	26 A	841.6	04U821	877.2	20-Sep-90	28 F	830.2
04U802	903.4	16-Jul-90	27 A	841.2	04U821	877.2	21-Mar-91	30 F	831.0
04U802	903.4	28-Feb-91	30 A	841.9	04U821	877.2	04-Jun-91	31 F	830.5
04U802	903.4	03-Jun-91	31 A	841.6	04U821	877.2	04-Sep-91	32 F	829.1
04U802	903.4	03-Sep-91	32 A	841.1					
04U802	903.4	27-Sep-91	32 A	841.4	04U832	883.4	14-Dec-87	16 F	837.0
					04U832	883.4	26-Jan-88	17 F	836.4
04U806	909.2	17-Nov-87	16 A	848.2	04U832	883.4	13-Apr-88	18 F	837.4
04U806	909.2	24-Nov-87	16 A	848.5	04U832	883.4	30-Aug-88	19 F	832.6
04U806	909.2	30-Nov-87	16 A	848.1	04U832	883.4	25-Nov-88	20 F	834.2
04U806	909.2	14-Dec-87	16 F	847.9	04U832	883.4	07-Aug-89	23 F	829.9

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04U832	883.4	03-Nov-89	24 F	830.8					
04U832	883.4	25-Apr-90	26 F	831.0					
04U832	883.4	20-Mar-91	30 F	830.6					
04U841	911.5	26-Jan-88	17 F	845.8					
04U841	911.5	13-Apr-88	18 F	847.1					
04U841	911.5	30-Aug-88	19 F	842.2					
04U841	911.5	25-Nov-88	20 F	843.2					
04U841	911.5	06-Aug-89	23 F	838.8					
04U841	911.5	03-Nov-89	24 F	838.7					
04U841	911.5	16-May-90	26 A	838.8					
03U841	911.5	28-Feb-91	30 A	838.8					
04U841	911.5	20-Mar-91	30 F	838.7					
03U841	911.5	03-Sep-91	32 A	838.8					
03U841	911.5	27-Sep-91	32 A	838.1					
04U843	885.8	14-Dec-87	16 F	837.3					
04U843	885.8	26-Jan-88	17 F	837.5					
04U843	885.8	13-Apr-88	18 F	838.0					
04U843	885.8	30-Aug-88	19 F	833.5					
04U843	885.8	25-Nov-88	20 F	834.7					
04U843	885.8	06-Aug-89	23 F	830.8					
04U843	885.8	03-Nov-89	24 F	831.2					
04U843	885.8	25-Apr-90	26 F	831.4					
04U843	885.8	21-Mar-91	30 F	831.1					
04U844	884.2	14-Dec-87	16 F	835.8					
04U844	884.2	26-Jan-88	17 F	836.0					
04U844	884.2	13-Apr-88	18 F	836.3					
04U844	884.2	30-Aug-88	19 F	831.6					
04U844	884.2	25-Nov-88	20 F	833.1					
04U844	884.2	04-May-89	22 F	830.4					
04U844	884.2	06-Aug-89	23 F	839.1					
04U844	884.2	03-Nov-89	24 F	829.8					
04U844	884.2	25-Apr-90	26 F	830.0					
04U844	884.2	23-Jul-90	27 F	828.8					
04U844	884.2	17-Sep-90	28 F	828.5					
04U844	884.2	19-Mar-91	30 F	830.4					
04U845	894.2	14-Dec-87	16 F	837.8					
04U845	894.2	13-Apr-88	18 F	838.4					
04U845	894.2	30-Aug-88	19 F	833.6					
04U845	894.2	25-Nov-88	20 F	835.0					
04U845	894.2	04-May-89	22 F	833.9					
04U845	894.2	06-Aug-89	23 F	830.9					
04U845	894.2	03-Nov-89	24 F	831.4					
04U845	894.2	26-Apr-90	26 F	831.6					
04U845	894.2	20-Mar-91	30 F	831.2					
04U846	888.4	14-Dec-87	16 F	832.8					
04U846	888.4	26-Jan-88	17 F	833.0					
04U846	888.4	13-Apr-88	18 F	833.2					
04U846	888.4	30-Aug-88	19 F	828.8					
04U846	888.4	25-Nov-88	20 F	830.1					
04U846	888.4	28-Apr-89	22 F	829.0					
04U846	888.4	06-Aug-89	23 F	826.6					
04U846	888.4	02-Nov-89	24 F	827.1					
04U846	888.4	27-Apr-90	26 F	827.4					
04U846	888.4	18-Mar-91	30 F	826.7					
04U847	914.9	14-Dec-87	16 F	845.4					
04U847	914.9	26-Jan-88	17 F	845.6					
04U847	914.9	13-Apr-88	18 F	847.0					
04U847	914.9	30-Aug-88	19 F	841.9					
04U847	914.9	25-Nov-88	20 F	843.1					
04U847	914.9	03-May-89	22 F	839.4					
04U847	914.9	06-Aug-89	23 F	838.6					
04U847	914.9	03-Nov-89	24 F	838.1					
04U847	914.9	26-Apr-90	26 F	838.2					
04U847	914.9	16-May-90	26 A	834.0					
04U847	914.9	20-Jul-90	27 F	837.7					
04U847	914.9	17-Sep-90	28 F	837.3					
04U847	914.9	28-Feb-91	30 A	838.4					
04U847	914.9	20-Mar-91	30 F	838.3					
04U847	914.9	04-Jun-91	31 F	837.9					
04U847	914.9	03-Sep-91	32 A	838.4					
04U847	914.9	04-Sep-91	32 F	836.6					
04U847	914.9	27-Sep-91	32 A	837.7					
04U848	900.2	14-Dec-87	16 F	842.3					
04U848	900.2	26-Jan-88	17 F	842.4					
04U848	900.2	13-Apr-88	18 F	843.6					
04U848	900.2	30-Aug-88	19 F	839.0					
04U848	900.2	25-Nov-88	20 F	839.7					
04U848	900.2	03-May-89	22 F	836.0					
04U848	900.2	06-Aug-89	23 F	835.8					
04U848	900.2	03-Nov-89	24 F	835.5					
04U848	900.2	19-Jul-90	27 F	835.2					
04U848	900.2	17-Sep-90	28 F	834.5					
04U848	900.2	18-Mar-91	30 F	835.2					
04U849	873.3	14-Dec-87	16 F	833.0					
04U849	873.3	26-Jan-88	17 F	833.2					
04U849	873.3	13-Apr-88	18 F	833.4					
04U849	873.3	30-Aug-88	19 F	829.0					
04U849	873.3	25-Nov-88	20 F	830.1					

TCAAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04U849	873.3	06-Aug-89	23 F	824.8	04U855	896.0	26-Jan-88	17 F	835.1
04U849	873.3	03-Nov-89	24 F	824.9	04U855	896.0	13-Apr-88	18 F	835.5
04U849	873.3	18-Apr-90	26 F	827.8	04U855	896.0	30-Aug-88	19 F	831.3
04U849	873.3	18-Mar-91	30 F	827.0	04U855	896.0	25-Nov-88	20 F	832.1
04U850	916.9	14-Dec-87	16 F	832.5	04U855	896.0	06-Aug-89	23 F	829.2
04U850	916.9	26-Jan-88	17 F	832.7	04U855	896.0	03-Nov-89	24 F	830.1
04U850	916.9	13-Apr-88	18 F	829.9	04U855	896.0	03-May-90	26 F	829.4
04U850	916.9	30-Aug-88	19 F	828.6	04U855	896.0	18-Mar-91	30 F	809.4
04U850	916.9	25-Nov-88	20 F	829.8	04U859	900.9	14-Dec-87	16 F	843.3
04U850	916.9	29-Apr-89	22 F	823.7	04U859	900.9	26-Jan-88	17 F	843.5
04U850	916.9	06-Aug-89	23 F	826.5	04U859	900.9	13-Apr-88	18 F	844.7
04U850	916.9	02-Nov-89	24 F	826.9	04U859	900.9	30-Aug-88	19 F	840.1
04U850	916.9	18-Apr-90	26 F	827.2	04U859	900.9	25-Nov-88	20 F	840.9
04U850	916.9	15-Mar-91	30 F	826.4	04U859	900.9	06-Aug-89	23 F	834.8
04U851	913.5	14-Dec-87	16 F	832.1	04U859	900.9	03-Nov-89	24 F	836.6
04U851	913.5	26-Jan-88	17 F	832.3	04U859	900.9	30-Apr-90	26 F	836.4
04U851	913.5	13-Apr-88	18 F	832.4	04U859	900.9	20-Mar-91	30 F	816.6
04U851	913.5	30-Aug-88	19 F	827.6	04U860	893.8	14-Dec-87	16 F	836.4
04U851	913.5	25-Nov-88	20 F	829.4	04U860	893.8	26-Jan-88	17 F	836.5
04U851	913.5	06-Aug-89	23 F	825.0	04U860	893.8	13-Apr-88	18 F	836.8
04U851	913.5	03-Nov-89	24 F	825.2	04U860	893.8	30-Aug-88	19 F	831.8
04U851	913.5	17-Apr-90	26 F	826.8	04U860	893.8	25-Nov-88	20 F	830.4
04U851	913.5	18-Mar-91	30 F	826.0	04U860	893.8	06-Aug-89	23 F	831.5
04U852	905.6	14-Dec-87	16 F	832.0	04U860	893.8	03-Nov-89	24 F	830.2
04U852	905.6	26-Jan-88	17 F	832.3	04U860	893.8	19-Apr-90	26 F	830.4
04U852	905.6	13-Apr-88	18 F	832.2	04U860	893.8	20-Mar-91	30 F	830.0
04U852	905.6	30-Aug-88	19 F	827.1	04U861	888.6	14-Dec-87	16 F	836.6
04U852	905.6	25-Nov-88	20 F	829.7	04U861	888.6	26-Jan-88	17 F	836.7
04U852	905.6	06-Aug-89	23 F	824.3	04U861	888.6	13-Apr-88	18 F	837.1
04U852	905.6	03-Nov-89	24 F	825.0	04U861	888.6	30-Aug-88	19 F	832.2
04U852	905.6	19-Apr-90	26 F	827.3	04U861	888.6	25-Nov-88	20 F	831.1
04U852	905.6	18-Mar-91	30 F	826.2	04U861	888.6	06-Aug-89	23 F	830.9
04U854	889.5	14-Dec-87	16 F	836.5	04U861	888.6	30-Apr-90	26 F	830.5
04U854	889.5	26-Jan-88	17 F	836.8	04U861	888.6	25-Mar-91	30 F	830.1
04U854	889.5	13-Apr-88	18 F	836.9	04U871	944.0	30-Aug-88	19 F	801.5
04U854	889.5	30-Aug-88	19 F	832.1	04U871	944.0	25-Nov-88	20 F	803.1
04U854	889.5	25-Nov-88	20 F	833.7	04U871	944.0	08-May-89	22 F	801.8
04U854	889.5	04-May-89	22 F	830.1	04U871	944.0	07-Aug-89	23 F	799.5
04U854	889.5	06-Aug-89	23 F	829.6	04U871	944.0	02-Nov-89	24 F	801.0
04U854	889.5	03-Nov-89	24 F	830.2	04U871	944.0	18-Apr-90	26 F	802.4
04U854	889.5	30-Apr-90	26 F	830.4	04U871	944.0	15-Mar-91	30 F	800.8
04U854	889.5	01-Apr-91	30 F	829.9	04U872	952.0	30-Aug-88	19 F	811.8
04U855	896.0	14-Dec-87	16 F	814.9	04U872	952.0	25-Nov-88	20 F	813.7

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
04U872	952.0	08-May-89	22 F	811.6	04U883	949.0	07-Aug-89	23 F	788.4
04U872	952.0	07-Aug-89	23 F	809.6	04U883	949.0	02-Nov-89	24 F	796.4
04U872	952.0	02-Nov-89	24 F	811.4	04U883	949.0	17-Apr-90	26 F	800.1
04U872	952.0	18-Apr-90	26 F	812.7	04U883	949.0	14-Mar-91	30 F	801.0
04U872	952.0	14-Mar-91	30 F	810.8					
04U875	1014.0	30-Aug-88	19 F	813.0	191942	880.5	14-Dec-87	16 F	838.0
04U875	1014.0	25-Nov-88	20 F	814.5	191942	880.5	26-Jan-88	17 F	838.2
04U875	1014.0	07-Aug-89	23 F	811.1	191942	880.5	13-Apr-88	18 F	838.7
04U875	1014.0	02-Nov-89	24 F	812.2	191942	880.5	30-Aug-88	19 F	834.0
04U875	1014.0	17-Apr-90	26 F	814.2	191942	880.5	25-Nov-88	20 F	835.4
04U875	1014.0	15-Mar-91	30 F	812.7	200525	917.5	12-May-89	22 F	830.9
04U877	920.0	30-Aug-88	19 F	827.6	206688	1000.0	07-Aug-89	23 F	815.0
04U877	920.0	25-Nov-88	20 F	828.8	206688	1000.0	03-Nov-89	24 F	815.1
04U877	920.0	29-Apr-89	22 F	826.5					
04U877	920.0	07-Aug-89	23 F	825.6	206797	1025.8	23-Jul-90	27 F	745.8
04U877	920.0	02-Nov-89	24 F	825.8	206797	1025.8	25-Mar-91	30 F	741.3
04U877	920.0	18-Apr-90	26 F	826.2					
04U877	920.0	15-Mar-91	30 F	825.3	234353	906.5	12-May-89	22 F	840.8
04U879	946.0	30-Aug-88	19 F	827.3	234425	914.0	11-May-89	22 F	841.1
04U879	946.0	25-Nov-88	20 F	827.6					
04U879	946.0	07-Aug-89	23 F	825.8	234430	918.1	09-May-89	22 F	845.0
04U879	946.0	02-Nov-89	24 F	825.5					
04U879	946.0	18-Apr-90	26 F	826.3	234463	945.7	08-May-89	22 F	892.3
04U879	946.0	15-Mar-91	30 F	825.2					
04U880	972.0	30-Aug-88	19 F	806.7	409546	867.0	10-May-89	22 F	826.4
04U880	972.0	25-Nov-88	20 F	808.4	409546	867.0	06-Aug-89	23 F	825.3
04U880	972.0	07-Aug-89	23 F	806.2	409546	867.0	02-Nov-89	24 F	824.7
04U880	972.0	02-Nov-89	24 F	806.8	409546	867.0	03-May-90	26 F	826.1
04U880	972.0	18-Apr-90	26 F	809.3	409546	867.0	18-Mar-91	30 F	825.7
04U880	972.0	14-Mar-91	30 F	808.7					
04U881	977.0	25-Nov-88	20 F	807.8	409547	896.0	06-Aug-89	23 F	830.7
04U881	977.0	07-Aug-89	23 F	802.6	409547	896.0	02-Nov-89	24 F	830.6
04U881	977.0	02-Nov-89	24 F	804.1	409547	896.0	03-May-90	26 F	841.4
04U881	977.0	17-Apr-90	26 F	814.2	409547	896.0	20-Jul-90	27 F	830.4
04U881	977.0	14-Mar-91	30 F	807.6	409547	896.0	20-Sep-90	28 F	830.3
					409547	896.0	20-Mar-91	30 F	831.0
04U882	918.0	25-Nov-88	20 F	801.1	409548	867.0	10-May-89	22 F	825.5
04U882	918.0	03-May-89	22 F	800.4	409548	867.0	06-Aug-89	23 F	824.3
04U882	918.0	02-Nov-89	24 F	798.9	409548	867.0	02-Nov-89	24 F	825.3
04U882	918.0	17-Apr-90	26 F	802.8	409548	867.0	03-May-90	26 F	825.1
04U882	918.0	14-Mar-91	30 F	803.0	409548	867.0	18-Mar-91	30 F	824.5
04U883	949.0	25-Nov-88	20 F	800.3					

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
409549	920.0	06-Aug-89	23 F	825.2	409557	896.0	04-May-89	22 F	833.7
409549	920.0	02-Nov-89	24 F	825.3	409557	896.0	06-Aug-89	23 F	832.8
409549	920.0	03-May-90	26 F	825.8	409557	896.0	02-Nov-89	24 F	832.8
409549	920.0	23-Jul-90	27 F	824.4	409557	896.0	03-May-90	26 F	845.0
409549	920.0	20-Sep-90	28 F	824.3	409557	896.0	20-Mar-91	30 F	832.6
409549	920.0	18-Mar-91	30 F	824.9					
409549	920.0	05-Jun-91	31 F	824.5					
409550	912.0	17-Nov-87	16 A	847.0	409595	882.3	14-Dec-87	16 F	837.3
409550	912.0	24-Nov-87	16 A	846.8	409595	882.3	26-Jan-88	17 F	837.5
409550	912.0	30-Nov-87	16 A	846.9	409595	882.3	13-Apr-88	18 F	838.0
409550	912.0	14-Dec-87	16 A	847.0	409595	882.3	30-Aug-88	19 F	833.4
409550	912.0	11-Jan-88	17 A	847.4	409595	882.3	23-Nov-88	20 F	834.6
409550	912.0	02-May-88	18 A	846.8	409596	880.4	14-Dec-87	16 F	837.6
409550	912.0	20-May-88	18 A	846.3	409596	880.4	26-Jan-88	17 F	837.7
409550	912.0	23-Jun-88	18 A	844.2	409596	880.4	30-Aug-88	19 F	833.6
409550	912.0	27-Jul-88	19 A	843.4	409596	880.4	23-Nov-88	20 F	835.0
409550	912.0	01-Sep-88	19 A	843.0	409596	880.4	25-Apr-90	26 F	831.6
409550	912.0	21-Sep-88	19 A	842.8	409596	880.4	29-Mar-91	30 F	829.6
409550	912.0	14-Oct-88	20 A	843.1					
409550	912.0	13-Jan-89	21 A	844.1	409597	880.3	14-Dec-87	16 F	837.6
409550	912.0	31-Mar-89	21 A	841.3	409597	880.3	26-Jan-88	17 F	837.7
409550	912.0	10-May-89	22 F	838.6	409597	880.3	13-Apr-88	18 F	838.2
409550	912.0	06-Aug-89	23 F	839.1	409597	880.3	30-Aug-88	19 F	833.6
409550	912.0	05-Oct-89	24 A	839.1	409597	880.3	23-Nov-88	20 F	834.9
409550	912.0	02-Nov-89	24 F	839.1	409597	880.3	25-Apr-90	26 F	831.6
409550	912.0	21-Dec-89	24 A	838.6	409597	880.3	29-Mar-91	30 F	829.4
409550	912.0	11-Jan-90	25 A	839.0					
409550	912.0	03-May-90	26 F	838.7	409598	879.8	14-Dec-87	16 F	837.3
409550	912.0	16-May-90	26 A	839.0	409598	879.8	26-Jan-88	17 F	837.4
409550	912.0	20-Jul-90	27 F	838.3	409598	879.8	13-Apr-88	18 F	838.0
409550	912.0	20-Sep-90	28 F	838.0	409598	879.8	30-Aug-88	19 F	833.4
409550	912.0	28-Feb-91	30 A	839.3	409598	879.8	23-Nov-88	20 F	834.1
409550	912.0	21-Mar-91	30 F	839.0					
409550	912.0	27-Sep-91	32 A	838.6	500691	891.2	02-Nov-89	24 F	828.8
					500691	891.2	19-Apr-90	26 F	829.7
					500691	891.2	20-Jul-90	27 F	828.0
409555	923.0	06-Aug-89	23 F	813.1	500691	891.2	20-Sep-90	28 F	827.4
409555	923.0	02-Nov-89	24 F	812.5	500691	891.2	18-Mar-91	30 F	829.0
409555	923.0	03-May-90	26 F	816.8					
409555	923.0	01-Apr-91	30 F	816.3					
409556	960.0	10-May-89	22 F	825.7	508115	910.7	19-Apr-90	26 F	828.7
409556	960.0	06-Aug-89	23 F	826.7	508115	910.7	20-Jul-90	27 F	827.0
409556	960.0	02-Nov-89	24 F	826.0	508115	910.7	20-Sep-90	28 F	827.4
409556	960.0	03-May-90	26 F	826.0	508115	910.7	18-Mar-91	30 F	827.9
409556	960.0	18-Mar-91	30 F	825.2					

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
PJ#003	943.9	14-Dec-87	16 F	848.8	PJ#027	967.8	21-Dec-89	24 A	845.6
PJ#003	943.9	27-Jan-88	17 F	848.9	PJ#027	967.8	11-Jan-90	25 A	845.4
PJ#003	943.9	14-Apr-88	18 F	850.1	PJ#027	967.8	16-May-90	26 A	845.5
PJ#003	943.9	02-May-88	18 A	849.2	PJ#027	967.8	28-Feb-91	30 A	846.0
PJ#003	943.9	20-May-88	18 A	848.6	PJ#027	967.8	27-Sep-91	32 A	845.6
PJ#003	943.9	27-Jul-88	19 A	846.1					
PJ#003	943.9	30-Aug-88	19 F	845.4	PJ#074	954.2	14-Dec-87	16 A	854.1
PJ#003	943.9	01-Sep-88	19 A	845.3	PJ#074	954.2	28-Jan-88	17 F	854.2
PJ#003	943.9	21-Sep-88	19 A	845.0	PJ#074	954.2	14-Apr-88	18 F	854.9
PJ#003	943.9	14-Oct-88	20 A	845.2	PJ#074	954.2	02-May-88	18 A	854.4
PJ#003	943.9	25-Nov-88	20 F	845.9	PJ#074	954.2	20-May-88	18 A	853.9
PJ#003	943.9	02-Dec-88	20 A	846.1	PJ#074	954.2	23-Jun-88	18 A	852.6
PJ#003	943.9	13-Jan-89	21 A	845.8	PJ#074	954.2	27-Jul-88	19 A	851.1
PJ#003	943.9	31-Mar-89	21 A	843.7	PJ#074	954.2	30-Aug-88	19 F	850.2
PJ#003	943.9	05-Aug-89	23 F	842.0	PJ#074	954.2	01-Sep-88	19 A	849.4
PJ#003	943.9	05-Oct-89	24 A	841.4	PJ#074	954.2	21-Sep-88	19 A	850.0
PJ#003	943.9	02-Nov-89	24 F	841.3	PJ#074	954.2	14-Oct-88	20 A	849.1
PJ#003	943.9	21-Dec-89	24 A	841.1	PJ#074	954.2	25-Nov-88	20 F	850.5
PJ#003	943.9	11-Jan-90	25 A	840.2	PJ#074	954.2	02-Dec-88	20 A	850.7
PJ#003	943.9	16-May-90	26 A	841.1	PJ#074	954.2	13-Jan-89	21 A	850.8
PJ#003	943.9	16-Jul-90	27 A	840.7	PJ#074	954.2	31-Mar-89	21 A	849.0
PJ#003	943.9	28-Feb-91	30 A	841.5	PJ#074	954.2	05-Aug-89	23 F	847.3
PJ#003	943.9	03-Jun-91	31 A	841.2	PJ#074	954.2	05-Oct-89	24 A	846.0
PJ#003	943.9	03-Sep-91	32 A	840.6	PJ#074	954.2	03-Nov-89	24 F	851.8
PJ#003	943.9	27-Sep-91	32 A	840.9	PJ#074	954.2	21-Dec-89	24 A	846.3
					PJ#074	954.2	11-Jan-90	25 A	846.2
PJ#027	967.8	17-Nov-87	16 A	853.5					
PJ#027	967.8	24-Nov-87	16 A	853.3	PJ#309	912.1	02-Dec-88	20 A	854.8
PJ#027	967.8	30-Nov-87	16 A	853.3	PJ#309	912.1	13-Jan-89	21 A	847.7
PJ#027	967.8	14-Dec-87	16 A	853.3	PJ#309	912.1	31-Mar-89	21 A	840.2
PJ#027	967.8	11-Jan-88	17 A	853.2	PJ#309	912.1	07-Jul-89	23 A	839.5
PJ#027	967.8	27-Jan-88	17 F	853.4	PJ#309	912.1	05-Aug-89	23 F	837.5
PJ#027	967.8	14-Apr-88	18 F	854.4	PJ#309	912.1	05-Oct-89	24 A	835.1
PJ#027	967.8	02-May-88	18 A	853.7	PJ#309	912.1	11-Jan-90	25 A	838.4
PJ#027	967.8	20-May-88	18 A	853.1	PJ#309	912.1	16-May-90	26 A	839.1
PJ#027	967.8	23-Jun-88	18 A	852.0	PJ#309	912.1	16-Jul-90	27 A	839.0
PJ#027	967.8	27-Jul-88	19 A	850.6	PJ#309	912.1	28-Feb-91	30 A	838.5
PJ#027	967.8	30-Aug-88	19 F	849.5	PJ#309	912.1	03-Jun-91	31 A	838.3
PJ#027	967.8	01-Sep-88	19 A	849.7	PJ#309	912.1	03-Sep-91	32 A	838.4
PJ#027	967.8	21-Sep-88	19 A	849.4	PJ#309	912.1	27-Sep-91	32 A	838.8
PJ#027	967.8	14-Oct-88	20 A	849.3					
PJ#027	967.8	25-Nov-88	20 F	849.9	PJ#310	913.5	02-Dec-88	20 A	845.4
PJ#027	967.8	02-Dec-88	20 A	850.1	PJ#310	913.5	13-Jan-89	21 A	847.5
PJ#027	967.8	13-Jan-89	21 A	850.3	PJ#310	913.5	31-Mar-89	21 A	838.3
PJ#027	967.8	31-Mar-89	21 A	848.2	PJ#310	913.5	07-Jul-89	23 A	835.5
PJ#027	967.8	05-Aug-89	23 F	847.2	PJ#310	913.5	05-Aug-89	23 F	837.2
PJ#027	967.8	05-Oct-89	24 A	845.8	PJ#310	913.5	05-Oct-89	24 A	835.5
PJ#027	967.8	06-Nov-89	24 F	842.6	PJ#310	913.5	06-Nov-89	24 F	833.5

TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
PJ#310	913.5	21-Dec-89	24 A	834.1	PJ#501	904.2	30-Aug-88	19 F	850.0
PJ#310	913.5	11-Jan-90	25 A	834.1	PJ#501	904.2	25-Nov-88	20 F	850.0
PJ#310	913.5	16-May-90	26 A	835.3	PJ#501	904.2	05-Aug-89	23 F	847.4
PJ#310	913.5	16-Jul-90	27 A	835.4					
PJ#310	913.5	28-Feb-91	30 A	836.2	PJ#502	920.7	15-Dec-87	16 F	864.0
PJ#310	913.5	03-Jun-91	31 A	835.9	PJ#502	920.7	27-Jan-88	17 F	853.7
PJ#310	913.5	03-Sep-91	32 A	835.9	PJ#502	920.7	14-Apr-88	18 F	854.3
PJ#310	913.5	27-Sep-91	32 A	835.9	PJ#502	920.7	30-Aug-88	19 F	849.7
					PJ#502	920.7	25-Nov-88	20 F	849.7
					PJ#502	920.7	05-Aug-89	23 F	846.9
PJ#311	905.3	31-Mar-89	21 A	840.8					
PJ#311	905.3	07-Jul-89	23 A	840.3	PJ#503	927.3	15-Dec-87	16 F	852.2
PJ#311	905.3	05-Aug-89	23 F	838.3	PJ#503	927.3	27-Jan-88	17 F	853.7
PJ#311	905.3	05-Oct-89	24 A	840.4	PJ#503	927.3	14-Apr-88	18 F	854.3
PJ#311	905.3	06-Nov-89	24 F	837.9	PJ#503	927.3	30-Aug-88	19 F	849.9
PJ#311	905.3	21-Dec-89	24 A	845.8	PJ#503	927.3	25-Nov-88	20 F	849.9
PJ#311	905.3	11-Jan-90	25 A	839.0	PJ#503	927.3	05-Aug-89	23 F	853.5
PJ#311	905.3	16-May-90	26 A	839.7					
PJ#311	905.3	16-Jul-90	27 A	838.5	PJ#504	884.0	05-Aug-89	23 F	762.8
PJ#311	905.3	28-Feb-91	30 A	839.3	PJ#504	884.0	06-Nov-89	24 F	762.8
PJ#311	905.3	03-Jun-91	31 A	839.3					
PJ#311	905.3	27-Sep-91	32 A	838.6					
					PJ#506	943.6	15-Dec-87	16 F	854.5
PJ#313	893.4	02-Dec-88	20 A	847.5	PJ#506	943.6	27-Jan-88	17 F	854.2
PJ#313	893.4	13-Jan-89	21 A	845.7	PJ#506	943.6	14-Apr-88	18 F	855.1
PJ#313	893.4	31-Mar-89	21 A	838.6	PJ#506	943.6	30-Aug-88	19 F	850.5
PJ#313	893.4	07-Jul-89	23 A	836.8	PJ#506	943.6	25-Nov-88	20 F	850.5
PJ#313	893.4	05-Aug-89	23 F	839.9	PJ#506	943.6	05-Aug-89	23 F	847.5
PJ#313	893.4	05-Oct-89	24 A	835.8					
PJ#313	893.4	21-Dec-89	24 A	835.5	PJ#507	946.6	15-Dec-87	16 F	854.1
PJ#313	893.4	11-Jan-90	25 A	894.5	PJ#507	946.6	27-Jan-88	17 F	853.9
PJ#313	893.4	16-May-90	26 A	836.7	PJ#507	946.6	14-Apr-88	18 F	854.6
PJ#313	893.4	16-Jul-90	27 A	836.5	PJ#507	946.6	30-Aug-88	19 F	850.2
PJ#313	893.4	28-Feb-91	30 A	835.1	PJ#507	946.6	25-Nov-88	20 F	850.2
PJ#313	893.4	03-Jun-91	31 A	836.3	PJ#507	946.6	05-Aug-89	23 F	847.3
PJ#313	893.4	03-Sep-91	32 A	835.4					
PJ#313	893.4	27-Sep-91	32 A	835.8	PJ#508	956.8	15-Dec-87	16 F	854.0
					PJ#508	956.8	27-Jan-88	17 F	856.0
PJ#318	983.0	30-Aug-88	19 F	806.2	PJ#508	956.8	14-Apr-88	18 F	854.5
PJ#318	983.0	25-Nov-88	20 F	807.3	PJ#508	956.8	30-Aug-88	19 F	850.2
PJ#318	983.0	29-Apr-89	22 F	806.1	PJ#508	956.8	25-Nov-88	20 F	850.2
PJ#318	983.0	07-Aug-89	23 F	809.0	PJ#508	956.8	05-Aug-89	23 F	847.2
PJ#318	983.0	02-Nov-89	24 F	805.1	PJ#508	956.8	03-Nov-89	24 F	846.3
PJ#318	983.0	17-Apr-90	26 F	812.4					
PJ#318	983.0	14-Mar-91	30 F	807.3	PJ#802	902.4	17-Nov-87	16 A	849.4
					PJ#802	902.4	24-Nov-87	16 A	849.3
PJ#501	904.2	15-Dec-87	16 F	856.0	PJ#802	902.4	30-Nov-87	16 A	849.2
PJ#501	904.2	27-Jan-88	17 F	854.1	PJ#802	902.4	14-Dec-87	16 A	849.0
PJ#501	904.2	14-Apr-88	18 F	854.7	PJ#802	902.4	14-Dec-87	16 F	848.9

TABLE 1
TCAAP GROUNDWATER ELEVATION DATA

April 13, 1992

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)	Well	TOS (ft)	Date	QTR	Groundwater Elev.(ft)
PJ#802	902.4	11-Jan-88	17 A	849.3	PJ#806	909.3	03-Nov-89	24 F	839.8
PJ#802	902.4	26-Jan-88	17 F	849.0	PJ#806	909.3	21-Dec-89	24 A	839.1
PJ#802	902.4	13-Apr-88	18 F	848.4	PJ#806	909.3	11-Jan-90	25 A	839.4
PJ#802	902.4	02-May-88	18 A	849.5	PJ#806	909.3	16-May-90	26 A	839.5
PJ#802	902.4	20-May-88	18 A	849.0	PJ#806	909.3	16-Jul-90	27 A	839.1
PJ#802	902.4	23-Jun-88	18 A	847.7	PJ#806	909.3	28-Feb-91	30 A	839.8
PJ#802	902.4	27-Jul-88	19 A	846.8	PJ#806	909.3	03-Jun-91	31 A	839.5
PJ#802	902.4	30-Aug-88	19 F	845.8	PJ#806	909.3	03-Sep-91	32 A	838.8
PJ#802	902.4	01-Sep-88	19 A	845.8	PJ#806	909.3	27-Sep-91	32 A	839.2
PJ#802	902.4	21-Sep-88	19 A	845.5					
PJ#802	902.4	14-Oct-88	20 A	845.6	S.G. #1		28-Feb-91	30 A	865.2
PJ#802	902.4	25-Nov-88	20 F	846.4	S.G. #1		27-Sep-91	32 A	865.7
PJ#802	902.4	02-Dec-88	20 A	846.3					
PJ#802	902.4	13-Jan-89	21 A	846.3	S.G. #2		28-Feb-91	30 A	865.0
PJ#802	902.4	31-Mar-89	21 A	843.8	S.G. #2		27-Sep-91	32 A	865.9
PJ#802	902.4	03-Aug-89	23 F	842.2					
PJ#802	902.4	05-Oct-89	24 A	841.8	S.G. #3		28-Feb-91	30 A	865.5
PJ#802	902.4	03-Nov-89	24 F	841.5	S.G. #3		27-Sep-91	32 A	866.0
PJ#802	902.4	21-Dec-89	24 A	841.3					
PJ#802	902.4	11-Jan-90	25 A	841.4					
PJ#802	902.4	16-May-90	26 A	841.4					
PJ#802	902.4	16-Jul-90	27 A	841.0					
PJ#802	902.4	28-Feb-91	30 A	841.6					
PJ#802	902.4	03-Jun-91	31 A	841.4					
PJ#802	902.4	03-Sep-91	32 A	840.8					
PJ#802	902.4	27-Sep-91	32 A	841.1					
PJ#806	909.3	17-Nov-87	16 A	848.9					
PJ#806	909.3	24-Nov-87	16 A	848.5					
PJ#806	909.3	30-Nov-87	16 A	848.2					
PJ#806	909.3	14-Dec-87	16 A	848.0					
PJ#806	909.3	11-Jan-88	17 A	848.8					
PJ#806	909.3	27-Jan-88	17 F	847.8					
PJ#806	909.3	13-Apr-88	18 F	848.4					
PJ#806	909.3	02-May-88	18 A	848.2					
PJ#806	909.3	20-May-88	18 A	847.7					
PJ#806	909.3	23-Jun-88	18 A	846.0					
PJ#806	909.3	27-Jul-88	19 A	845.6					
PJ#806	909.3	30-Aug-88	19 F	844.5					
PJ#806	909.3	01-Sep-88	19 A	844.9					
PJ#806	909.3	21-Sep-88	19 A	844.2					
PJ#806	909.3	14-Oct-88	20 A	844.7					
PJ#806	909.3	25-Nov-88	20 F	846.0					
PJ#806	909.3	02-Dec-88	20 A	845.8					
PJ#806	909.3	13-Jan-89	21 A	845.8					
PJ#806	909.3	31-Mar-89	21 A	841.9					
PJ#806	909.3	03-Aug-89	23 F	840.2					
PJ#806	909.3	05-Oct-89	24 A	839.7					

Table 2

TCAAP Organic Groundwater Quality Data

Notes:

- (1) The parameters are grouped by chemical categories. Benzene, toluene, and total xylenes comprise Category 7 -- all other parameters are Category 1. The Category 1 parameters are sub-grouped into the -ethene, -ethane, and miscellaneous compounds. Furthermore, within each sub-group the parameters are arranged in descending order with respect to the number of chloride ions. This order is intended to represent potential degradation pathways.
- (2) Qtr = Quarter. Under this heading, F = FCC; A = Alliant Techsystems, Inc.; and M = MPCA. All MPCA data has been validated unless noted with a "+". For MPCA data, "PP" = Peak Present, but not quantifiable.
- (3) TCAAP GW Action Criteria = groundwater action criteria set forth in revised Table 3.7A of the Federal Facilities Agreement.
- (4) Duplicate sample collected for QA/QC purposes.

Table 2

TCAAP Organic Groundwater Quality Data

Notes:

- (1) The parameters are grouped by chemical categories. Benzene, toluene, and total xylenes comprise Category 7 -- all other parameters are Category 1. The Category 1 parameters are sub-grouped into the -ethene, -ethane, and miscellaneous compounds. Furthermore, within each sub-group the parameters are arranged in descending order with respect to the number of chloride ions. This order is intended to represent potential degradation pathways.
- (2) Qtr = Quarter. Under this heading, F = FCC; A = Alliant Techsystems, Inc.; and M = MPCA. All MPCA data has been validated unless noted with a "+". For MPCA data, "PP" = Peak Present, but not quantifiable.
- (3) TCAAP GW Action Criteria = groundwater action criteria set forth in revised Table 3.7A of the Federal Facilities Agreement.
- (4) Duplicate sample collected for QA/QC purposes.

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01L811	25-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01L813	25-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01L816	25-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01L821	30-Nov-87	F16	<1.80	2.80	<1.00	39.00			110.00	<1.60	<2.00	15.00	3.00
01L822	01-Dec-87	F16	<18.00	<22.00	<10.00	43.00			<30.00	<16.00	<20.00	<14.00	<10.00
01L823	01-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U003	27-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U003	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U004	27-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U004	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U004	27-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U022	05-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U034	11-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U034	14-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U035	14-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U036	11-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U036	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U036	14-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U036	25-Apr-89	F22	1.26	0.70	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U036	26-Apr-89	F22	1.41	0.75	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U036	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U036	27-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U036	24-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U036	25-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U036	13-Mar-91	F30	<1.00	<0.50	<1.00	0.62			<1.90	<1.00	<1.00	<0.78	<0.50
01U037	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U037	18-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U038	06-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U039	06-Apr-88	F18	<1.00	<0.50	<1.00	0.93			<1.90	<1.00	<1.00		<0.50
01U039	18-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U039	13-Mar-91	F30	<5.00	<2.50	<5.00	<2.50			<9.50	<5.00	<5.00	<3.90	<2.50
01U039	30-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U039	30-Jul-91	M32	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
01U040	05-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01L811	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
01L813	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
01L816	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
01L821	30-Nov-87	F16	<2.20	<0.82	<1.20	<9.00	<3.60			
01L822	01-Dec-87	F16	<22.00	<8.20	<12.00	<90.00	<36.00			
01L823	01-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
01U003	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U003	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U004	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U004	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U004	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U022	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U034	11-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	1.20
01U034	14-Nov-88	F20		<0.72	<1.00			<0.41	<0.87	<8.28
01U035	14-Nov-88	F20		<0.72	<1.00			<0.41	<0.87	<8.28
01U036	11-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U036	16-Nov-87	F16		<0.41	<0.62					
01U036	14-Nov-88	F20		<0.72	<1.00			<0.41	<0.87	<8.28
01U036	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U036	26-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U036	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U036	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U036	24-Oct-89	F24		0.39	<0.62			<3.09	31.00	<1.17
01U036	25-Oct-89	F24		0.60	<0.62			<3.09	31.00	<1.17
01U036	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U037	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U037	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U038	06-Apr-88	F18		<0.72	<1.00			1.61	<0.87	<8.28
01U039	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U039	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U039	13-Mar-91	F30	<6.50	<3.60	<5.00	<5.00	<16.00	<0.41	<0.87	<8.28
01U039	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U039	30-Jul-91	M32	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
01U040	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCL/EE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U041	05-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U045	08-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U047	27-Apr-89	F22	<1.00	<0.50	<1.00	23.10			<1.90	<1.00	<1.00		<0.50
01U047	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U047	25-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U048	27-Apr-89	F22	<1.00	<0.50	<1.00	9.89			<1.90	<1.00	<1.00		<0.50
01U048	26-Jul-89	F23	<0.88	<1.10	<0.49	5.75			<1.50	<0.81	<0.99		<0.51
01U048	25-Oct-89	F24	<0.88	<1.10	<0.49	2.89			<1.50	<0.81	<0.99		<0.51
01U050	16-Nov-87	F16	<0.88	6.88	<0.49	<0.56			<1.50	2.26	<0.99	<0.72	<0.51
01U050	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U050	15-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U050	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U051	16-Nov-87	F16	<0.88	2.39	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U051	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U051	15-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U051	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U052	27-Apr-89	F22	<1.00	<0.50	<1.00	1.24			<1.90	<1.00	<1.00		<0.50
01U052	26-Jul-89	F23	<0.88	<1.10	<0.49	1.75			<1.50	<0.81	<0.99		<0.51
01U052	25-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U053	16-Nov-87	F16	<0.88	<1.10	0.94	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U053	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U053	15-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U053	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U054	16-Nov-87	F16	<0.88	16.10	<0.49	<0.56			<1.50	5.92	<0.99	<0.72	<0.51
01U054	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U054	15-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U054	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U054	27-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U054	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U054	26-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U060	19-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U060	11-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U060	17-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U060	26-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U060	25-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U062	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U062	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U062	16-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U062	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U041	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U045	08-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U047	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U047	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U047	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U048	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U048	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U048	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U050	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U050	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U050	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U050	21-Nov-88	F20		<0.72	<1.00					
01U051	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U051	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U051	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U051	21-Nov-88	F20		<0.72	<1.00					
01U052	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U052	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U052	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U053	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U053	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U053	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U053	21-Nov-88	F20		<0.72	<1.00					
01U054	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U054	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U054	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U054	21-Nov-88	F20		<0.72	<1.00					
01U054	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U054	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U054	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U060	19-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	22.70	<1.17
01U060	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U060	17-Nov-88	F20		<0.72	<1.00					
01U060	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U060	25-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U062	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U062	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U062	16-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U062	21-Nov-88	F20		<0.72	<1.00					

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U062	09-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U062	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U062	26-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U063	05-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U063	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U064	12-May-89	F22	<1.00	5.42	2.96	150.00			3.58	7.15	<1.00		1.42
01U064	26-Jul-89	F23	<22.00	<28.00	<12.00	430.00			<38.00	<20.00	<25.00		<13.00
01U064	27-Oct-89	F24	<22.00	41.00	<12.00	430.00			<38.00	22.00	<25.00		<13.00
01U064	22-Mar-91	A30	<2.00	14.00	<2.00	350.00		<13.00	<3.80	4.50	<2.00	14.00	<1.00
01U065	28-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U065	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U065	25-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U067	05-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U072	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U085	11-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U085	10-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U085	17-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U085	18-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U085	13-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U098	19-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U098	11-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U098	17-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U098	26-Apr-90	F26	<1.00	0.57	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U098	25-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	2.62	<1.00	<0.78	<0.50
01U100	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U101	14-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U101	25-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U101	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U101	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U101	24-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U101	25-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U102	08-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U102	11-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U102	25-Apr-89	F22	41.60	31.00	<1.00	9.60			<1.90	<1.00	<1.00		<0.50
01U102	25-Jul-89	F23	<0.88	2.20	<0.49	44.00			<1.50	<0.81	<0.99		<0.51
01U102	27-Jul-89	F23	<1.80	2.80	<0.98	47.00			<3.00	<1.60	<2.00		<1.00
01U102	25-Oct-89	F24	81.00	160.00	<0.49	75.00			<1.50	<0.81	<0.99		<0.51
01U102	26-Oct-89	F24	64.00	200.00	<0.49	80.00			<1.50	<0.81	<0.99		<0.51
01U102	16-Apr-90	F26	250.00	270.00	<1.00	77.00			<1.90	<1.00	<1.00	<0.78	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U062	09-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U062	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U062	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U063	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U063	07-Apr-88	F18		<0.72	<1.00					
01U064	12-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U064	26-Jul-89	F23		<10.00	<16.00			<3.09	<3.39	<1.17
01U064	27-Oct-89	F24		<10.00	<16.00			<77.00	<85.00	<29.00
01U064	22-Mar-91	A30	<2.60	<1.40	<2.00	<2.00	<6.40			
01U065	28-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U065	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U065	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U067	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U072	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U085	11-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U085	10-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U085	17-Nov-88	F20		<0.72	<1.00					
01U085	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U085	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U098	19-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U098	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U098	17-Nov-88	F20		<0.72	<1.00					
01U098	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U098	25-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U100	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U101	14-Nov-88	F20		<0.72	<1.00			<0.41	<0.87	<8.28
01U101	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U101	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U101	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U101	24-Oct-89	F24		0.38	<0.62			<3.09	<3.39	<1.17
01U101	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U102	08-Aug-88	F19		<0.72	<1.00					
01U102	11-Nov-88	F20		<0.72	<1.00					
01U102	25-Apr-89	F22		<0.72	<1.00			0.84	<0.87	<8.28
01U102	25-Jul-89	F23		<0.41	<0.62			<3.09	34.00	<1.17
01U102	27-Jul-89	F23		<0.82	<1.20			<6.20	34.00	<2.30
01U102	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U102	26-Oct-89	F24		<0.41	<0.62			<6.20	<6.80	<2.30
01U102	16-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U102	17-Apr-90	F26											
01U102	17-Jul-90	F27	250.00	300.00	<1.00	130.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U102	19-Sep-90	F28	170.00	170.00	<1.00	170.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U102	21-Sep-90	F28	170.00	190.00	<1.00	190.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U102	(4) 21-Sep-90	F28	190.00	190.00	<1.00	200.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U102	13-Mar-91	F30	170.00	160.00	<10.00	650.00			<19.00	<10.00	<10.00	<7.80	<5.00
01U102	05-Jun-91	F31	180.00	91.00	<5.00	440.00			<9.50	<5.00	<5.00	<3.90	<2.50
01U102	05-Jun-91	M31	130.00	63.00	<2.50		100.00	0.60	<5.00	<1.00	<1.00	<1.00	<1.00
01U102	30-Jul-91	F32	83.00	76.00	<4.90	140.00			<15.00	<8.10	<9.90	<7.20	<5.10
01U102	30-Jul-91	M31	140.00	54.00	<2.50		47.00	<0.50	<5.00	<1.00	<1.00	<1.00	<1.00
01U102	03-Sep-91	F32	120.00	85.00	<5.00	250.00			<9.50	<5.00	<5.00	<3.90	<2.50
01U103	11-Nov-87	F16											
01U103	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U103	18-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U103	08-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U103	11-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U103	25-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U103	26-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U103	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U103	27-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U103	25-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U103	26-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U103	16-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U103	13-Mar-91	F30	6.20	<2.50	<5.00	<2.50			<9.50	<5.00	<5.00	<3.90	<2.50
01U103	30-Jul-91	F32	0.76	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U106	30-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U107	08-Apr-88	F18	<1.00	<0.54	<1.00	<1.49			<1.90	<1.00	<1.00		<0.50
01U107	08-Aug-88	F19	<1.00	<0.50	<1.00	1.04			<1.90	<1.00	<1.00		<0.50
01U107	15-Nov-88	F20	2.19	0.88	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U107	25-Apr-89	F22	<1.00	<0.50	<1.00	0.63			<1.90	<1.00	<1.00		<0.50
01U107	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U107	27-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U107	25-Oct-89	F24	<0.88	1.43	<0.49	1.23			<1.50	<0.81	<0.99		<0.51
01U107	26-Apr-90	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U107	13-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	10-Dec-85	F8	1100.00	520.00		510.00							
01U108	18-Mar-86	F9	990.00	520.00		590.00							
01U108	07-Jul-86	F11	930.00	300.00		530.00							
01U108	17-Nov-87	F16	260.00	150.00	<12.00	670.00			<38.00	<20.00	<25.00	<18.00	<13.00
01U108	11-Apr-88	F18	900.00	550.00	<1.00	800.00			<1.90	<1.00	<1.00		<0.50
01U108	25-Aug-88	F19	1000.00	750.00	<20.00	720.00			<38.00	<20.00	<20.00		<10.00
01U108	15-Nov-88	F20	640.00	480.00	<20.00	300.00			<38.00	<20.00	<20.00		<10.00
01U108	21-Feb-89	F21	620.00	400.00	<1.00	310.00			<1.90	<1.00	<1.00		<0.50
01U108	21-Mar-89	F21	410.00	230.00	<1.00	170.00			<1.90	<1.00	<1.00		<0.50
01U108	24-Apr-89	F22	380.00	280.00	<1.00	110.00			<1.90	<1.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U102	17-Apr-90	F26						10.90	<0.87	<8.28
01U102	17-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	6.90	<0.87	<8.28
01U102	19-Sep-90	F28		<0.72	<1.00			ND	ND	ND
01U102	21-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
01U102	(4) 21-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
01U102	13-Mar-91	F30	<13.00	<7.20	<10.00	<10.00	<32.00	41.00	<8.70	<82.80
01U102	05-Jun-91	F31	<6.50	<3.60	<5.00	<5.00	<16.00	16.00	<4.40	<41.00
01U102	05-Jun-91	M31	<1.00	<0.50	<1.00	<1.00	<2.50	14.00	<1.00	
01U102	30-Jul-91	F32	<11.00	<4.10	<6.20	<45.00	<18.00			
01U102	30-Jul-91	M31	<1.00	<0.50	<1.00	<1.00	<2.50	5.00	<1.00	
01U102	03-Sep-91	F32	<6.50	<3.60	<5.00	<5.00	<16.00	5.90	<4.40	<41.00
01U103	11-Nov-87	F16						<3.09	<3.39	1.48
01U103	16-Nov-87	F16		<0.41	<0.62					
01U103	18-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
01U103	08-Aug-88	F19		<0.72	<1.00					
01U103	11-Nov-88	F20		<0.72	<1.00					
01U103	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U103	26-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U103	25-Jul-89	F23		<0.41	<0.62			<3.09	11.40	<1.17
01U103	27-Jul-89	F23		<0.41	<0.62			<3.09	11.40	<1.17
01U103	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U103	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U103	16-Apr-90	F26		<0.72	<1.00			<0.41	<0.87	<8.28
01U103	13-Mar-91	F30	<6.50	<3.60	<5.00	<5.00	<16.00	<0.41	<0.87	<8.28
01U103	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U106	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U107	08-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U107	08-Aug-88	F19		<0.72	<1.00					
01U107	15-Nov-88	F20		<0.72	<1.00					
01U107	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U107	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<8.28
01U107	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U107	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U107	26-Apr-90	F22		<0.72	<1.00			<0.41	<0.87	<1.17
01U107	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U108	10-Dec-85	F8								
01U108	18-Mar-86	F9								
01U108	07-Jul-86	F11								
01U108	17-Nov-87	F16	<28.00	<10.00	<16.00	<110.00	<45.00	<3.09	<3.39	<1.17
01U108	11-Apr-88	F18		<0.72	<1.00			4.50	<0.87	<8.28
01U108	25-Aug-88	F19		<14.00	<20.00					
01U108	15-Nov-88	F20		<14.00	<20.00					
01U108	21-Feb-89	F21		<0.72	<1.00					
01U108	21-Mar-89	F21		<0.72	<1.00					
01U108	24-Apr-89	F22		<0.72	<1.00					

TABLE 2
TCAAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U108	24-Apr-89	F22	420.00	300.00	12.00	120.00			<19.00	<10.00	<10.00		<5.00
01U108	23-May-89	F22	150.00	95.00	<1.00	30.00			<1.90	<1.00	<1.00		<0.50
01U108	23-Jun-89	F22	590.00	340.00	<1.00	80.00			<1.90	<1.00	<1.00		<0.50
01U108	17-Jul-89	F23	380.00	200.00	<1.00	71.00			<1.90	<1.00	<1.00		<0.50
01U108	28-Aug-89	F23	440.00	210.00	<1.00	62.00			<1.90	<1.00	<1.00		<0.50
01U108	03-Oct-89	F24	150.00	64.00	<1.00	40.00			<1.90	<1.00	<1.00		<0.50
01U108	24-Oct-89	F24	180.00	160.00	<12.00	100.00			<38.00	<20.00	<25.00		<13.00
01U108	24-Oct-89	F24	280.00	33.00	<1.00	67.00			<1.90	<1.00	<1.00		<0.50
01U108	22-Nov-89	F24	140.00	72.00	<1.00	48.00			<1.90	<1.00	<1.00		<0.50
01U108	19-Dec-89	F24	99.00	45.00	<1.00	30.00			<1.90	<1.00	<1.00		<0.50
01U108	23-Jan-90	F25	200.00	110.00	<1.00	63.00			<1.90	<1.00	<1.00		<0.50
01U108	20-Feb-90	F25	170.00	110.00	<1.00	61.00			<1.90	<1.00	<1.00		<0.50
01U108	20-Mar-90	F25	240.00	140.00	<1.00	68.00			<1.90	<1.00	<1.00		<0.50
01U108	16-Apr-90	F26	230.00	160.00	<20.00	76.00			<38.00	<20.00	<20.00		<10.00
01U108	16-Apr-90	F26	200.00	150.00	<1.00	70.00			<1.90	<1.00	<1.00		<0.50
01U108	22-May-90	F26	76.20	45.00	<1.00	18.00			<1.90	<1.00	<1.00		<0.50
01U108	19-Jun-90	F26	68.30	9.94	<1.00	15.90			<1.90	<1.00	<1.00		<0.50
01U108	17-Jul-90	F27	75.00	42.00	<1.00	14.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	17-Jul-90	F27	68.00	39.00	<1.00	13.00			<1.90	<1.00	<1.00		<0.50
01U108	21-Aug-90	F27	110.00	62.00	<1.00	14.10			<1.90	<1.00	<1.00		<0.50
01U108	18-Sep-90	F28	140.00	73.00	<1.00	20.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	(4) 18-Sep-90	F28	120.00	67.00	<1.00	19.30			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	19-Sep-90	F28	110.00	63.00	<1.00	18.40			<1.90	<1.00	<1.00		<0.50
01U108	22-Oct-90	F28	120.00	54.00	<1.00	12.00			<1.90	<1.00	<1.00		<0.50
01U108	22-Oct-90	F29	133.00	57.40	<1.00	12.80			<1.90	<1.00	<1.00		<0.50
01U108	20-Nov-90	F29	100.99	59.55	<1.00	15.31			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	18-Dec-90	F29	70.09	35.52	<1.00	12.42			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	22-Jan-91	F30	160.00	86.00	<5.00	33.00			<9.50	<5.00	<5.00	<3.90	<2.50
01U108	19-Feb-91	F30	94.00	49.10	<1.00	19.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	19-Mar-91	F30	84.30	50.00	<1.00	19.30			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	19-Mar-91	M30	73.00	43.00	<1.30		26.00	<0.30	<2.50	<0.50	<0.50	<0.50	<0.50
01U108	16-Apr-91	F31	240.00	170.00	<5.00	6.50		<7.50	<9.50	<5.00	<5.00	<3.90	<2.50
01U108	18-May-91	F31	94.80	67.00	<1.00	17.80			<1.90	<1.00	<1.00	<0.78	<0.50
01U108	05-Jun-91	F31											
01U108	18-Jun-91	F31	180.00	120.00	<5.00	27.00		<1.50	<9.50	<5.00	<5.00	<3.90	<2.50
01U108	23-Jul-91	F32	180.00	110.00	<5.00	20.00			<9.50	<5.00	<5.00	<3.90	<2.50
01U108	30-Jul-91	F32	180.00	240.00	<12.00	47.00			<38.00	<20.00	<25.00	<18.00	<13.00
01U108	19-Aug-91	F32	150.00	84.00	<2.00	15.00			<3.80	<2.00	<2.00	<1.60	<1.00
01U108	17-Sep-91	F32	130.00	82.00	<2.00	15.40			<3.80	<2.00	<2.00	<1.56	<1.00
01U109	08-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U110	08-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U115	11-Nov-87	F16	<2.20	12.00	<1.20	43.00			<3.80	<2.00	<2.50	<1.80	<1.30
01U115	16-Nov-87	F16	<0.88	3.70	<0.49	16.00			<1.50	<0.81	<0.99		<0.51
01U115	11-Apr-88	F18	<1.00	13.10	<1.00	32.70			<1.90	<1.00	<1.00		<0.50
01U115	09-Aug-88	F19	<1.00	6.04	<1.00	24.40			<1.90	<1.00	<1.00		<0.50
01U115	15-Nov-88	F20	1.21	9.72	<1.00	18.60			<1.90	<1.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U108	24-Apr-89	F22		<7.20	<10.00			<4.10	<8.70	<83.00
01U108	23-May-89	F22		<0.72	<1.00					
01U108	23-Jun-89	F22		<0.72	<1.00					
01U108	17-Jul-89	F23		<0.72	<1.00					
01U108	28-Aug-89	F23		<0.72	<1.00					
01U108	03-Oct-89	F24		<0.72	<1.00					
01U108	24-Oct-89	F24		<10.00	<16.00			<77.00	<85.00	<29.00
01U108	24-Oct-89	F24		<0.72	<1.00					
01U108	22-Nov-89	F24		<0.72	<1.00					
01U108	19-Dec-89	F24		<0.72	<1.00					
01U108	23-Jan-90	F25		<0.72	<1.00					
01U108	20-Feb-90	F25		<0.72	<1.00					
01U108	20-Mar-90	F25		<0.72	<1.00					
01U108	16-Apr-90	F26		<14.00	<20.00					
01U108	16-Apr-90	F26		<0.72	<1.00					
01U108	22-May-90	F26		<0.72	<1.00					
01U108	19-Jun-90	F26		<0.72	<1.00					
01U108	17-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U108	17-Jul-90	F27		<0.72	<1.00					
01U108	21-Aug-90	F27		<0.72	<1.00					
01U108	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U108 (4)	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U108	19-Sep-90	F28		<0.72	<1.00					
01U108	22-Oct-90	F28		<0.72	<1.00					
01U108	22-Oct-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U108	20-Nov-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U108	18-Dec-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U108	22-Jan-91	F30	<6.50	<3.60	<5.00	<5.00	<16.00			
01U108	19-Feb-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U108	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U108	19-Mar-91	M30	<0.50	<0.30	<0.50	<0.50	<1.30	<0.50	<0.50	
01U108	16-Apr-91	F31	<6.50	<3.60	<5.00	<5.00	<16.00			
01U108	18-May-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U108	05-Jun-91	F31						<0.41	<0.87	<8.28
01U108	18-Jun-91	F31	<6.50	<3.60	<5.00	<5.00	<16.00			
01U108	23-Jul-91	F32	<6.50	<3.60	<5.00	<5.00	<16.00			
01U108	30-Jul-91	F32	<28.00	<10.00	<16.00	<110.00	65.00			
01U108	19-Aug-91	F32	<2.60	<1.40	<2.00	<2.00	<6.40	<0.41	<0.87	<8.28
01U108	17-Sep-91	F32	<2.60	<1.44	<2.00	<2.00	<6.40	<0.41	<0.87	<8.28
01U109	08-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U110	08-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U115	11-Nov-87	F16	<2.80	<1.00	<1.60	<11.00	<4.50	<3.09	<3.39	<1.17
01U115	16-Nov-87	F16		<0.41	<0.62					
01U115	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U115	09-Aug-88	F19		<0.72	<1.00					
01U115	15-Nov-88	F20		<0.72	<1.00			<0.41	<0.87	<8.28

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U115	24-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U115	25-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U115	25-Jul-89	F23	<0.88	6.53	<0.49	14.30			<1.50	<0.81	<0.99		<0.51
01U115	27-Jul-89	F23	<0.88	8.29	<0.49	15.30			<1.50	<0.81	<0.99		<0.51
01U115	25-Oct-89	F24	<0.88	4.19	<0.49	9.17			<1.50	<0.81	<0.99		<0.51
01U115	27-Oct-89	F24	<0.88	5.32	<0.49	9.84			<1.50	<0.81	<0.99		<0.51
01U115	19-Apr-90	F26	<1.00	5.71	<1.00	6.99			<1.90	<1.00	<1.00		<0.50
01U115	17-Jul-90	F27	<1.00	0.91	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U115	19-Sep-90	F28	<1.00	4.21	<1.00	4.92			<1.90	<1.00	<1.00		<0.50
01U115	20-Sep-90	F28	<1.00	4.52	<1.00	5.36			<1.90	<1.00	<1.00	<0.78	<0.50
01U115	19-Mar-91	F30	<1.00	2.86	<1.00	42.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U115	19-Mar-91	M30	<0.20	2.70	<0.50		5.50	0.90	<1.00	<0.20	<0.20	<0.20	<0.20
01U115	05-Jun-91	F31	<1.00	4.21	<1.00	5.28			<1.90	<1.00	<1.00	<0.78	<0.50
01U115	05-Jun-91	M31	<0.20	3.60	<0.50		1.10	0.20	<1.00	<0.20	<0.20	<0.20	<0.20
01U115	30-Jul-91	F32	<0.88	3.42	<0.49	1.94			<1.50	<0.81	<0.99	<0.72	<0.51
01U115	03-Sep-91	F32	<1.00	3.10	<1.00	2.18			<1.90	<1.00	<1.00	<0.78	<0.50
01U116	11-Nov-87	F16	<0.88	2.65	<0.49	24.70			<1.50	<0.81	<0.99	<0.72	<0.51
01U116	16-Nov-87	F16	<0.88	2.09	<0.49	23.00			<1.50	<0.81	<0.99		<0.51
01U116	06-Apr-88	F18	<1.00	2.22	<1.00	10.30			<1.90	<1.00	<1.00		<0.50
01U116	09-Aug-88	F19	<1.00	4.15	<1.00	9.12			<1.90	<1.00	<1.00		<0.50
01U116	15-Nov-88	F20	<1.00	4.60	<1.00	4.59			<1.90	<1.00	<1.00		<0.50
01U116	24-Apr-89	F22	<1.00	0.85	1.11	0.66			<1.90	<1.00	<1.00		<0.50
01U116	25-Apr-89	F22	<1.00	0.80	1.03	0.61			<1.90	<1.00	<1.00		<0.50
01U116	25-Jul-89	F23	<0.88	3.40	<0.49	1.54			<1.50	<0.81	<0.99		<0.51
01U116	27-Jul-89	F23	<0.88	4.31	<0.49	1.65			<1.50	<0.81	<0.99		<0.51
01U116	25-Oct-89	F24	<0.88	2.65	<0.49	1.80			<1.50	<0.81	<0.99		<0.51
01U116	27-Oct-89	F24	<0.88	3.36	<0.49	1.93			<1.50	<0.81	<0.99		<0.51
01U116	19-Apr-90	F26	<1.00	4.27	<1.00	1.52			<1.90	<1.00	<1.00		<0.50
01U116	19-Mar-91	F30	<1.00	2.23	<1.00	1.04			<1.90	<1.00	<1.00	<0.78	<0.50
01U116	30-Jul-91	F32	<0.88	3.68	<0.49	1.64			<1.50	<0.81	<0.99	<0.72	<0.51
01U117	11-Nov-87	F16	14.00	7.00	<1.20	51.00			<3.80	<2.00	<2.50	<1.80	<1.30
01U117	16-Nov-87	F16	7.20	2.20	<0.49	19.00			<1.50	<0.81	<0.99		<0.51
01U117	06-Apr-88	F18	50.20	22.90	<1.00	44.40			<1.90	<1.00	<1.00		<0.50
01U117	09-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U117	15-Nov-88	F20	52.90	21.80	<1.00	39.90			<1.90	<1.00	<1.00		<0.50
01U117	25-Apr-89	F22	78.20	17.20	1.24	1.58			<1.90	<1.00	<1.00		<0.50
01U117	25-Jul-89	F23	15.40	3.16	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U117	27-Jul-89	F23	12.10	4.01	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U117	25-Oct-89	F24	11.70	10.10	<0.49	60.00			<1.50	<0.81	<0.99		<0.51
01U117	27-Oct-89	F24	9.21	12.80	<0.49	64.00			<1.50	<0.81	<0.99		<0.51
01U117	25-Apr-90	F26	10.27	13.63	<1.00	7.84			<1.90	<1.00	<1.00	<0.78	0.99
01U117	19-Mar-91	F30	5.84	21.40	<1.00	200.00			<1.90	1.35	<1.00	<0.78	<0.50
01U117	11-Jun-91	M31	8.10	2.10	<0.50		4.30	0.20	<1.00	<0.20	<0.20	<0.20	<0.20
01U117	30-Jul-91	F32	<8.80	38.00	<4.90	98.00			<15.00	<8.10	<9.90	<7.20	<5.10
01U117	30-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U118	11-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U115	24-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U115	25-Apr-89	F22		<0.72	<0.62			<3.09	<3.39	<8.28
01U115	25-Jul-89	F23		<0.41	<1.00			<0.41	<0.87	<8.28
01U115	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U115	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<8.28
01U115	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U115	19-Apr-90	F26		<0.72	<1.00			<0.41	<0.87	<1.17
01U115	17-Jul-90	F27		<0.72	<1.00			<0.41	<0.87	<1.17
01U115	19-Sep-90	F28		<0.72	<1.00			<0.41	<0.87	<1.17
01U115	20-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U115	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U115	19-Mar-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
01U115	05-Jun-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U115	05-Jun-91	M31	<0.20	<1.00	<0.20	<0.20	<0.50	<0.20	<0.20	
01U115	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U115	03-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U116	11-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U116	16-Nov-87	F16		<0.41	<0.62					
01U116	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U116	09-Aug-88	F19		<0.72	<1.00					
01U116	15-Nov-88	F20		<0.72	<1.00					
01U116	24-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U116	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U116	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<8.28
01U116	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U116	25-Oct-89	F24		0.48	<0.62			<3.09	<3.39	<8.28
01U116	27-Oct-89	F24		0.31	<0.62			<3.09	<3.39	<1.17
01U116	19-Apr-90	F26		<0.72	<1.00			<0.41	<0.87	<1.17
01U116	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U116	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U117	11-Nov-87	F16	<2.80	<1.00	<1.60	<11.00	<4.50	<3.09	<3.39	<1.17
01U117	16-Nov-87	F16		<0.41	<0.62					
01U117	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U117	09-Aug-88	F19		<0.72	<1.00					
01U117	15-Nov-88	F20		<0.72	<1.00					
01U117	25-Apr-89	F22		0.84	<1.00			1.28	<0.87	<8.28
01U117	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<8.28
01U117	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U117	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<8.28
01U117	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U117	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	2.08	8.33	<8.28
01U117	19-Mar-91	F30	<1.30	<0.72	1.07	<1.00	<3.20	0.69	<0.87	<8.28
01U117	11-Jun-91	M31	<0.20	<1.00	<0.20	<0.20	<0.50	<0.20	<0.20	
01U117	30-Jul-91	F32	<11.00	<4.10	<6.20	<45.00	17.00			
01U117	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U118	11-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U118	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U118	07-Apr-88	F18	<1.00	1.41	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U118	09-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U118	15-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U118	25-Apr-89	F22	<1.00	<0.50	1.28	<0.50			<1.90	<1.00	<1.00		<0.50
01U118	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U118	27-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U118	25-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U118	27-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U118	25-Apr-90	F26	<1.00	0.78	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U118	19-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U119	11-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U119	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U119	07-Apr-88	F18	<1.00	0.77	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U119	12-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U119	15-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U119	25-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U119	26-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U119	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U119	27-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U119	25-Oct-89	F24	<0.88	<1.10	<0.49	1.10			<1.50	<0.81	<0.99		<0.51
01U119	27-Oct-89	F24	<0.88	<1.10	<0.49	1.18			<1.50	<0.81	<0.99		<0.51
01U120	11-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U120	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U120	07-Apr-88	F18	<1.00	2.23	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U120	12-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U120	15-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U120	25-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U120	27-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U120	25-Jul-89	F23	<0.88	1.11	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U120	27-Jul-89	F23	<0.88	1.41	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U120	25-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U120	27-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U120	25-Apr-90	F26	<1.00	0.71	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U120	19-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U120	30-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U122	09-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U122	05-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U122	08-Aug-88	F19	<1.00	1.11	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U122	11-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U125	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U125	08-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U125	11-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U125	12-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U125	17-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U118	16-Nov-87	F16		<0.41	<0.62					
01U118	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U118	09-Aug-88	F19		<0.72	<1.00					
01U118	15-Nov-88	F20		<0.72	<1.00					
01U118	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U118	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<8.28
01U118	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U118	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<8.28
01U118	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U118	25-Apr-90	F26		<0.72	<1.00			0.68	2.68	<1.17
01U118	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U119	11-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U119	16-Nov-87	F16		<0.41	<0.62					
01U119	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U119	12-Aug-88	F19		<0.72	<1.00					
01U119	15-Nov-88	F20		<0.72	<1.00					
01U119	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U119	26-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U119	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<8.28
01U119	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U119	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<8.28
01U119	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U120	11-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U120	16-Nov-87	F16		<0.41	<0.62					
01U120	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U120	12-Aug-88	F19		<0.72	<1.00					
01U120	15-Nov-88	F20		<0.72	<1.00					
01U120	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U120	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U120	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<8.28
01U120	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U120	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<8.28
01U120	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U120	25-Apr-90	F26		<0.72	<1.00			1.31	6.17	<8.28
01U120	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U120	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U122	09-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U122	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U122	08-Aug-88	F19		<0.72	<1.00					
01U122	11-Nov-88	F20		<0.72	<1.00					
01U125	16-Nov-87	F16		<0.41	<0.62					
01U125	08-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U125	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U125	12-Aug-88	F19		<0.72	<1.00					
01U125	17-Nov-88	F20		<0.72	<1.00			<5.00	14.00	13.00

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U125	01-May-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U125	13-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U125	(4) 13-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U125	30-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U126	16-Nov-87	F16	16.00	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U126	08-Dec-87	F16	25.00	<2.20	<1.00	<1.10			<3.00	<1.60	<2.00	<1.40	<1.00
01U126	06-Apr-88	F18	37.60	0.79	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U126	12-Aug-88	F19	30.80	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U126	17-Nov-88	F20	34.70	2.11	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U126	24-Apr-89	F22	5.41	0.70	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U126	25-Apr-89	F22	4.90	0.65	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U126	25-Jul-89	F23	4.85	1.39	<0.49	1.20			<1.50	<0.81	<0.99		<0.51
01U126	27-Jul-89	F23	3.82	1.76	<0.49	1.29			<1.50	<0.81	<0.99		<0.51
01U126	25-Oct-89	F24	2.29	2.14	<0.49	1.37			<1.50	<0.81	<0.99		<0.51
01U126	01-May-90	F26	5.85	0.79	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U126	13-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U126	30-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U127	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U127	11-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U127	06-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U127	12-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U127	14-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U127	25-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U127	26-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U127	25-Oct-89	F24	<0.88	1.45	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U127	01-May-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U127	13-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U127	30-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U128	09-Dec-87	F16	<1.80	<2.20	<1.00	41.00			<3.00	<1.60	<2.00	<1.40	<1.00
01U128	05-Apr-88	F18	<1.00	<0.50	<1.00	34.00			<1.90	<1.00	<1.00		<0.50
01U128	08-Aug-88	F19	<1.00	<0.50	<1.00	41.30			<1.90	<1.00	<1.00		<0.50
01U128	16-Nov-88	F20	<1.00	<0.50	<1.00	30.70			<1.90	<1.00	<1.00		<0.50
01U130	07-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U130	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U130	15-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U130	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U133	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U133	11-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U133	12-Aug-88	F19	<1.00	<0.50	<1.00	0.61			<1.90	<1.00	<1.00		<0.50
01U133	14-Nov-88	F20	<1.00	<0.50	<1.00	0.62			<1.90	<1.00	<1.00		<0.50
01U133	26-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U135	21-Nov-88	F20	<1.00	<0.50	<1.00	0.66			<1.90	<1.00	<1.00		<0.50
01U135	25-Apr-89	F22	<1.00	<0.50	<1.00	1.07			<1.90	<1.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U125	01-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U125	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U125	(4) 13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U125	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U126	16-Nov-87	F16		<0.41	<0.62					
01U126	08-Dec-87	F16	<2.20	<0.82	<1.20	<9.00	<3.60	<3.09	<3.39	<1.17
01U126	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U126	12-Aug-88	F19		<0.72	<1.00					
01U126	17-Nov-88	F20		<0.72	<1.00					
01U126	24-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U126	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U126	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<8.28
01U126	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U126	25-Oct-89	F24		0.33	<0.62			<3.09	<3.39	<1.17
01U126	01-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	0.93	6.07	<8.28
01U126	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U126	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U127	16-Nov-87	F16		<0.41	<0.62					
01U127	11-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U127	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U127	12-Aug-88	F19		<0.72	<1.00					
01U127	14-Nov-88	F20		<0.72	<1.00					
01U127	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U127	26-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U127	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U127	01-May-90	F26		<0.72	<1.00			<0.41	<0.87	<8.28
01U127	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U127	30-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U128	09-Dec-87	F16	<2.20	<0.82	<1.20	<9.00	<3.60	<3.09	<3.39	<1.17
01U128	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U128	08-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U128	16-Nov-88	F20		<0.72	<1.00			<0.41	17.00	22.60
01U130	07-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U130	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U130	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U130	21-Nov-88	F20		<0.72	<1.00					
01U133	16-Nov-87	F16		<0.41	<0.62					
01U133	11-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U133	12-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U133	14-Nov-88	F20		<0.72	<1.00					
01U133	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U135	21-Nov-88	F20		<0.72	<1.00			<0.41	<0.87	<8.28
01U135	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U135	25-Jul-89	F23	<0.88	<1.10	<0.49	0.71			<1.50	<0.81	<0.99		<0.51
01U135	26-Jul-89	F23	<0.88	<1.10	<0.49	0.76			<1.50	<0.81	<0.99		<0.51
01U135	25-Oct-89	F24	<0.88	<1.10	<0.49	1.46			<1.50	<0.81	<0.99		<0.51
01U135	19-Apr-90	F26	<1.00	1.38	<1.00	1.41			<1.90	<1.00	<1.00		<0.50
01U135	13-Mar-91	F30	<1.00	<0.50	<1.00	0.98			<1.90	<1.00	<1.00	<0.78	<0.50
01U136	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U136	25-Apr-89	F22	<1.00	<0.50	1.26	<0.50			<1.90	<1.00	<1.00		<0.50
01U136	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U136	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U136	25-Oct-89	F24	<0.88	<1.10	<0.49	1.16			<1.50	<0.81	<0.99		<0.51
01U136	19-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U136	13-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U137	29-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U137	30-Jul-91	M31	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
01U138	29-Jul-91	F32	<0.88	<1.10	<0.49	1.23			<1.50	<0.81	<0.99	<0.72	<0.51
01U138	29-Jul-91	M31	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
01U139	29-Jul-91	F32	<0.88	3.89	<0.49	19.60			<1.50	<0.81	<0.99	<0.72	<0.51
01U139	29-Jul-91	M31	<0.20	2.60	<0.50		6.60	0.40	<1.00	<0.20	<0.20	<0.20	<0.20
01U139	30-Jul-91	M31	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
01U140	29-Jul-91	F32	<0.88	1.76	<0.49	13.00			<1.50	<0.81	<0.99	<0.72	<0.51
01U140	29-Jul-91	M31	<0.20	0.30	<0.50		4.70	0.20	<1.00	<0.20	<0.20	<0.20	<0.20
01U141	29-Jul-91	F32	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U141	29-Jul-91	M31	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
01U350	13-Sep-88	F20	620.00	380.00	<1.00	540.00			<1.90	<1.00	91.00		14.00
01U350	21-Sep-88	F20	130.00	58.00	<1.00	120.00			<1.90	<1.00	<1.00		<0.50
01U350	27-Sep-88	F20	80.50	37.00	<1.00	88.00			<1.90	<1.00	<1.00		<0.50
01U350	04-Oct-88	F20	110.00	38.00	<1.00	85.00			<1.90	<1.00	<1.00		<0.50
01U350	19-Oct-88	F20	120.00	39.00	<1.00	78.00			<1.90	<1.00	<1.00		<0.50
01U350	25-Oct-88	F20	49.40	21.10	<1.00	43.00			<1.90	<1.00	<1.00		<0.50
01U350	08-Nov-88	F20	57.40	25.90	<1.00	41.20			<1.90	<1.00	<1.00		<0.50
01U350	29-Nov-88	F20	38.70	19.10	<1.00	32.30			<1.90	<1.00	<1.00		<0.50
01U350	06-Dec-88	F20	31.00	16.00	<1.00	38.00			<1.90	<1.00	<1.00		<0.50
01U350	20-Dec-88	F20	46.70	20.00	<1.00	38.00			<1.90	<1.00	<1.00		<0.50
01U350	17-Jan-89	F21	27.00	10.00	<1.00	40.00			<1.90	<1.00	<1.00		<0.50
01U350	21-Feb-89	F21	24.00	16.00	<1.00	24.00			<1.90	<1.00	<1.00		<0.50
01U350	21-Mar-89	F21	22.00	13.00	<1.00	39.00			<1.90	<1.00	<1.00		<0.50
01U350	24-Apr-89	F22	30.00	16.00	<1.00	32.00			<1.90	<1.00	<1.00		<0.50
01U350	23-May-89	F22	17.00	10.00	<1.00	27.00			<1.90	<1.00	<1.00		<0.50
01U350	23-Jun-89	F22	15.00	8.00	<1.00	24.00			<1.90	<1.00	<1.00		<0.50
01U350	17-Jul-89	F23	16.00	9.00	<1.00	23.00			<1.90	<1.00	<1.00		<0.50
01U350	28-Aug-89	F23	16.00	11.00	<1.00	28.00			<1.90	<1.00	<1.00		<0.50
01U350	03-Oct-89	F24	10.00	6.00	<1.00	23.00			<1.90	<1.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U135	25-Jul-89	F23		<0.41	<0.62			<3.09	29.40	<8.28
01U135	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U135	25-Oct-89	F24		0.31	<0.62			<3.09	29.40	<1.17
01U135	19-Apr-90	F26		<0.72	<1.00			<0.41	<0.87	<8.28
01U135	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U136	21-Nov-88	F20		<0.72	<1.00			<0.41	<0.87	<8.28
01U136	25-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U136	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<8.28
01U136	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U136	25-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U136	19-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	0.66	<0.87	<8.28
01U136	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U137	29-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U137	30-Jul-91	M31	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
01U138	29-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U138	29-Jul-91	M31	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
01U139	29-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U139	29-Jul-91	M31	<0.20	<0.10	<0.20	<0.20	<0.50	0.40	<0.20	
01U139	30-Jul-91	M31	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
01U140	29-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U140	29-Jul-91	M31	<0.20	<1.00	<0.20	<0.20	<0.50	4.90	<0.20	
01U141	29-Jul-91	F32	<1.10	<0.41	<0.62	<4.50	<1.80			
01U141	29-Jul-91	M31	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
01U350	13-Sep-88	F20		<0.72	<1.00					
01U350	21-Sep-88	F20		<0.72	<1.00					
01U350	27-Sep-88	F20		<0.72	<1.00					
01U350	04-Oct-88	F20		<0.72	<1.00					
01U350	19-Oct-88	F20		<0.72	<1.00					
01U350	25-Oct-88	F20		<0.72	<1.00					
01U350	08-Nov-88	F20		<0.72	<1.00					
01U350	29-Nov-88	F20		<0.72	<1.00					
01U350	06-Dec-88	F20		<0.72	<1.00					
01U350	20-Dec-88	F20		<0.72	<1.00					
01U350	17-Jan-89	F21		3.70	<1.00					
01U350	21-Feb-89	F21		<0.72	<1.00					
01U350	21-Mar-89	F21		<0.72	<1.00					
01U350	24-Apr-89	F22		<0.72	<1.00					
01U350	23-May-89	F22		<0.72	<1.00					
01U350	23-Jun-89	F22		<0.72	<1.00					
01U350	17-Jul-89	F23		<0.72	<1.00					
01U350	28-Aug-89	F23		<0.72	<1.00					
01U350	03-Oct-89	F24		<0.72	<1.00					

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U350	24-Oct-89	F24	15.00	8.00	<1.00	28.00			<1.90	<1.00	<1.00		<0.50
01U350	22-Nov-89	F24	20.00	11.00	<1.00	34.00			<1.90	<1.00	<1.00		<0.50
01U350	19-Dec-89	F24	14.00	8.00	<1.00	27.00			<1.90	<1.00	<1.00		<0.50
01U350	23-Jan-90	F25	17.00	11.00	<1.00	33.00			<1.90	<1.00	<1.00		<0.50
01U350	20-Feb-90	F25	18.00	11.00	<1.00	37.00			<1.90	<1.00	<1.00		<0.50
01U350	20-Mar-90	F25	17.00	11.00	<1.00	32.00			<1.90	<1.00	<1.00		<0.50
01U350	16-Apr-90	F26	17.00	11.00	<1.00	24.00			<1.90	<1.00	<1.00		<0.50
01U350	22-May-90	F26	13.70	9.24	<1.00	18.70			<1.90	<1.00	<1.00		<0.50
01U350	19-Jun-90	F26	17.80	9.94	<1.00	17.30			<1.90	<1.00	<1.00		<0.50
01U350	17-Jul-90	F27	20.40	10.20	<1.00	13.40			<1.90	<1.00	<1.00		<0.50
01U350	21-Aug-90	F27	18.50	9.89	<1.00	15.20			<1.90	<1.00	<1.00		<0.50
01U350	18-Sep-90	F28	20.50	10.30	<1.00	16.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	19-Sep-90	F28	18.60	9.62	<1.00	14.70			<1.90	<1.00	<1.00		<0.50
01U350	22-Oct-90	F28	27.70	12.00	<1.00	14.40			<1.90	<1.00	<1.00		<0.50
01U350	22-Oct-90	F29	30.57	12.98	<1.00	15.69			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	20-Nov-90	F29	30.46	13.73	<1.00	18.41			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	18-Dec-90	F29	23.95	13.95	<1.00	25.82			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	22-Jan-91	F30	24.40	12.90	<1.00	19.30			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	19-Feb-91	F30	27.90	14.70	<1.00	27.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	19-Mar-91	F30	25.30	13.60	<1.00	20.70			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	16-Apr-91	F31	28.90	14.50	<1.00	16.70	<0.30		<1.90	<1.00	<1.00	<0.78	<0.50
01U350	18-May-91	F31	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	05-Jun-91	F31											
01U350	18-Jun-91	F31	38.60	19.30	<1.00	16.80	<0.30		<1.90	<1.00	<1.00	<0.78	<0.50
01U350	23-Jul-91	F32	26.30	13.70	<1.00	13.10			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	30-Jul-91	F32	19.00	19.00	<0.98	8.20			<3.00	<1.60	<2.00	<1.40	<1.00
01U350	19-Aug-91	F32	37.10	17.40	<1.00	16.40			<1.90	<1.00	<1.00	<0.78	<0.50
01U350	17-Sep-91	F32	<1.00	29.40	<1.00	13.90			<1.90	15.30	<1.00	<0.78	<0.50
01U524	17-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U524	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U524	16-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U524	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U525	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U525	07-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U525	15-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U525	14-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U525	27-Apr-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U525	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U525	26-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U526	17-Nov-87	F16	<0.88	2.80	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U526	07-Apr-88	F18	<1.00	0.99	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U526	15-Aug-88	F19	<1.00	1.16	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U526	14-Nov-88	F20	<1.00	1.74	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U526	09-May-89	F22	<1.00	0.93	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U526	26-Jul-89	F23	<0.88	1.95	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U526	26-Oct-89	F24	<0.88	2.50	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U350	24-Oct-89	F24		<0.72	<1.00					
01U350	22-Nov-89	F24		<0.72	<1.00					
01U350	19-Dec-89	F24		<0.72	<1.00					
01U350	23-Jan-90	F25		<0.72	<1.00					
01U350	20-Feb-90	F25		<0.72	<1.00					
01U350	20-Mar-90	F25		<0.72	<1.00					
01U350	16-Apr-90	F26		<0.72	<1.00					
01U350	22-May-90	F26		<0.72	<1.00					
01U350	19-Jun-90	F26		<0.72	<1.00					
01U350	17-Jul-90	F27		<0.72	<1.00					
01U350	21-Aug-90	F27		<0.72	<1.00					
01U350	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	19-Sep-90	F28		<0.72	<1.00					
01U350	22-Oct-90	F28		<0.72	<1.00					
01U350	22-Oct-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	20-Nov-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	18-Dec-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	19-Feb-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U350	16-Apr-91	F31	<1.30	1.93	<1.00	<1.00	<3.20			
01U350	18-May-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	05-Jun-91	F31						<0.41	<0.87	10.50
01U350	18-Jun-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	23-Jul-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	30-Jul-91	F32	<2.20	0.81	<1.20	<9.00	<3.60			
01U350	19-Aug-91	F32	<1.30	0.93	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U350	17-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U524	17-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U524	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U524	16-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U524	21-Nov-88	F20		<0.72	<1.00					
01U525	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U525	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U525	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U525	14-Nov-88	F20		<0.72	<1.00					
01U525	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U525	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U525	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U526	17-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U526	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U526	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U526	14-Nov-88	F20		<0.72	<1.00					
01U526	09-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U526	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U526	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U526	19-Apr-90	F26	<1.00	1.14	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U526	13-Mar-91	F30	<1.00	1.27	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U527	17-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U527	11-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.72	<0.51
01U527	25-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.72	<0.51
01U527	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.72	<0.51
01U601	07-Dec-87	F16	<1.80	3.60	<1.00	<1.10			<3.00	<1.60	<2.00	<1.40	<1.00
01U604	13-Aug-87	A15	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U604	01-Dec-87	A16	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U604	07-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U604	29-Feb-88	A17	<0.50	0.60	<0.50		1.00	<0.50	<0.50	<0.50	<0.50	1.50	<0.50
01U604	26-May-88	A18	<0.50	1.50	<0.50		1.80	<0.50	<0.50	<0.50	<0.50	2.00	<0.50
01U604	08-May-90	A26	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U604 (4)	08-May-90	A26	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U604	05-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U611	01-Dec-87	A16	<0.50	110000.00	<0.50		3900.00	<0.50	120.00	<0.50		74.00	<0.50
01U611	08-Dec-87	F16	<4400.00	120000.00	<2400.00	<2800.00			<7500.00	<4000.00	<5000.00	<3600.00	<2600.00
01U611	01-Mar-88	A17	<0.50	38000.00	<0.50		1800.00	<0.50	<0.50	33.00		<0.50	<0.50
01U611	26-May-88	A18	<0.50	60000.00	<0.50		1500.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U611	08-May-90	A26	<0.50	35000.00	<0.50		3300.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U611	05-Mar-91	A30	<1000.00	40000.00	<1000.00	3900.00		<300.00	<1900.00	<1000.00	<1000.00	<780.00	<500.00
01U615	07-Dec-87	F16	<88.00	1500.00	<49.00	490.00			<150.00	<81.00	<99.00	<72.00	<51.00
01U615	08-May-90	A26	<0.50	6500.00	<0.50		1200.00	270.00	<0.50	<0.50	<0.50	<0.50	<0.50
01U615	05-Mar-91	A30	<500.00	8800.00	<500.00	950.00		160.00	<950.00	<500.00	<500.00	<390.00	<250.00
01U617	13-Aug-87	A15	<0.50	1.40	0.50		6.20	<0.50	<0.50	<0.50	<0.50	1.90	<0.50
01U617	01-Dec-87	A16	<0.50	1.40	<0.50		6.50	<0.50	<0.50	<0.50		3.20	<0.50
01U617	29-Feb-88	A17	<0.50	1.10	0.30		3.40	<0.50	<0.50	<0.50		1.40	<0.50
01U617	26-May-88	A18	<0.50	1.90	<0.50		4.00	<0.50	<0.50	<0.50	<0.50	1.70	<0.50
01U617 (4)	26-May-88	A18	<0.50	2.00	0.40		4.00	<0.50	<0.50	<0.50	<0.50	2.00	<0.50
01U617	19-Aug-88	F19	<1.00	1.72	<1.00	6.29			<1.90	<1.00	<1.00	<0.78	<1.00
01U617	08-May-90	A26	<0.50	2.00	0.40		4.90	0.40	<0.50	<0.50	<0.50	0.80	<0.50
01U617	03-Jul-90	A27	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U617	02-Oct-90	A29	<1.00		<0.30		4.80	0.50	<1.50	<0.50	<1.00	0.50	<0.20
01U617	05-Mar-91	A30	<1.00	1.17	<1.00	3.33		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U617	05-Mar-91	M30	<0.20	1.30	0.70		5.20	0.40	<1.00	<0.20	<0.20	0.60	<0.20
01U617	10-Jun-91	A31	<1.00	1.08	<1.00	3.68		<0.30	<1.90	<1.00	<1.00	<0.78	0.68
01U617	03-Sep-91	A32	<1.00	1.80	<1.00	4.35			<1.90	<1.00	<1.00	<0.78	<1.00
01U617	03-Sep-91	A32	<1.00	1.71	<1.00	4.32			<1.90	<1.00	<1.00	<0.78	<1.00
01U618	13-Aug-87	A15	<0.50	7.70	0.60		2.50	<0.50	<0.50	<0.50	<0.50	2.40	<0.50
01U618	30-Nov-87	A16	<0.50	8.60	<0.50		2.30	2.30	<0.50	<0.50	<0.50	<0.50	<0.50
01U618 (4)	30-Nov-87	A16	<0.50	8.80	<0.50		2.40	2.40	<0.50	<0.50	<0.50	<0.50	<0.50
01U618	29-Feb-88	A17	<0.50	8.90	<0.50		1.50	<0.50	<0.50	0.60	<0.50	<0.50	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U526	19-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
01U526	13-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U527	17-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U527	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U527	25-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U527	21-Nov-88	F20		<0.72	<1.00					
01U601	07-Dec-87	F16	<2.20	<0.82	<1.20	<9.00	<3.60	<6.20	<6.80	<2.30
01U604	13-Aug-87	A15		<0.50						
01U604	01-Dec-87	A16	<0.50	<0.50			1.00			
01U604	07-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U604	29-Feb-88	A17	<0.50	<0.50			<0.50			
01U604	26-May-88	A18	<0.50	<0.50			<0.50			
01U604	08-May-90	A26	<0.50	<0.50			<0.50			
01U604	(4) 08-May-90	A26	<0.50	<0.50			<0.50			
01U604	05-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U611	01-Dec-87	A16	<0.50	<0.50			<0.50			
01U611	08-Dec-87	F16	<5500.00	<2000.00	<3100.00	<22000.00	<9000.00	<15000.00	<17000.00	<5800.00
01U611	01-Mar-88	A17	<0.50	<0.50			<0.50			
01U611	26-May-88	A18	<0.50	<0.50			77.00			
01U611	08-May-90	A26	<0.50	<0.50			<0.50			
01U611	05-Mar-91	A30	<1300.00	<720.00	<1000.00	<1000.00	<3200.00			
01U615	07-Dec-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00	<3.09	<3.39	<1.17
01U615	08-May-90	A26	<0.50	<0.50			<0.50			
01U615	05-Mar-91	A30	<650.00	<360.00	<500.00	<500.00	<1600.00			
01U617	13-Aug-87	A15	<0.50	<0.50						
01U617	01-Dec-87	A16	<0.50	<0.50			<0.50			
01U617	29-Feb-88	A17	<0.50	<0.50			<0.50			
01U617	26-May-88	A18	<0.50	<0.50			<0.50			
01U617	(4) 26-May-88	A18	<0.50	<0.50			<0.50			
01U617	19-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U617	08-May-90	A26	<0.50	<0.50			<0.50			
01U617	03-Jul-90	A27	<0.50	<0.50			<0.50			
01U617	02-Oct-90	A29	<0.30	<0.50		2.10	<1.00			
01U617	05-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U617	05-Mar-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
01U617	10-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
01U617	03-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
01U617	03-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
01U618	13-Aug-87	A15		<0.50						
01U618	30-Nov-87	A16	<0.50	<0.50			<0.50			
01U618	(4) 30-Nov-87	A16	<0.50	<0.50			<0.50			
01U618	29-Feb-88	A17	<0.50	<0.50			<0.50			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U618	(4) 29-Feb-88	A17	<0.50	4.50	<0.50		1.40	<0.50	<0.50	<0.50		<0.50	<0.50
01U618	26-May-88	A18	<0.50	7.00	<0.50		2.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U618	19-Aug-88	F19	<1.00	3.96	<1.00	1.21		<1.90	<1.00	<1.00	<1.00	<0.50	<0.50
01U618	08-May-90	A26	<0.50	6.00	<0.50		1.30	<0.50	<0.50	<0.50	<0.50	0.30	<0.50
01U618	05-Mar-91	A30	<1.00	4.97	<1.00	0.79		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U619	19-Aug-88	F19	<1.00	1.74	<1.00	<0.50		<1.90	<1.00	<1.00			<0.50
01U619	08-May-90	A26	<0.50	2.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U619	05-Mar-91		<1.00	2.76	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U621	08-May-90	A26	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U621	03-Jul-90	A27	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U621	02-Oct-90	A29	<1.00	<0.50	<0.30		<0.50	<0.30	<1.50	<0.50	<1.00	<0.20	<0.20
01U621	05-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U621	05-Mar-91	A30	9.35	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U621	10-Jun-91	A31	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U621	03-Sep-91	A32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<1.00	<0.78	<1.00
01U634	12-May-89	F22	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00			<0.50
01U634	26-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
01U636	12-May-89	F22	<1.00	0.82	<1.00	<0.50		<1.90	1.75	<1.00			<0.50
01U636	26-Jul-89	F23	<0.88	3.31	<0.49	<0.56		<1.50	3.56	<0.99			<0.51
01U636	22-Mar-91	A30	<1.00	0.76	<1.00	<0.50	<0.30	<1.90	1.92	<1.00	<0.78		<0.50
01U639	12-May-89	F22	<1.00	1.85	<1.00	<0.50		<1.90	<1.00	<1.00			<0.50
01U639	26-Jul-89	F23	<1.80	41.00	<0.98	<1.10		4.70	<1.60	<2.00			<1.00
01U639	22-Mar-91	A30	<1.00	1.07	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
01U639	22-Mar-91	M30	<0.20	0.80	<0.50		<0.20	<0.10	<1.00	0.60	<0.20	<0.20	<0.20
01U640	26-Jul-89	F23	<1.80	30.00	<0.98	<1.10		7.90	2.60	<2.00			<1.00
01U640	22-Mar-91	A30	<1.00	16.10	<1.00	<0.50	<0.30	<1.90	8.04	<1.00	<0.78		<0.50
01U640	22-Mar-91	A30	<1.00	17.40	<1.00	<0.50	<0.30	<1.90	8.92	<1.00	<0.78		<0.50
01U652	12-May-89	F22	<1.00	<0.50	<1.00	37.30		<1.90	<1.00	<1.00			<0.50
01U652	26-Jul-89	F23	<0.88	<1.10	<0.49	28.50		2.20	<0.81	<0.99			<0.51
01U652	27-Oct-89	F24	<0.88	<1.10	<0.49	18.70		<1.50	<0.81	<0.99			<0.51
01U666	12-May-89	F22	<1.00	77.00	<1.00	18.70		<1.90	<1.00	<1.00			<0.50
01U803	05-Sep-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
01U805	05-Sep-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
01U806	05-Sep-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
01U808	05-Sep-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
01U901	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
01U901	27-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51

TABLE 2
TCAAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U618	(4) 29-Feb-88	A17	<0.50	<0.50			<0.50			
01U618	26-May-88	A18	<0.50	<0.50			<0.50			
01U618	19-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U618	08-May-90	A26	<0.50	<0.50			<0.50			
01U618	05-Mar-91	A30	<1.30	<0.72	<1.00	97.80	<3.20			
01U619	19-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U619	08-May-90	A26	<0.50	<0.50			<0.50			
01U619	05-Mar-91		<1.30	<0.72	<1.00	42.20	<3.20			
01U621	08-May-90	A26	<0.50	<0.50			1.20			
01U621	03-Jul-90	A27	<0.50	<0.50			<0.50			
01U621	02-Oct-90	A29	<0.30	<0.50			<1.00			
01U621	05-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U621	05-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U621	10-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
01U621	03-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
01U634	12-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U634	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U636	12-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U636	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U636	22-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U639	12-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U639	26-Jul-89	F23		<0.82	<1.20			<3.09	<3.39	<1.17
01U639	22-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U639	22-Mar-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
01U640	26-Jul-89	F23		<0.82	<1.20			<3.09	27.50	<1.17
01U640	22-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U640	22-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U652	12-May-89	F22		<0.72	<1.00			<0.41	1.24	<8.28
01U652	26-Jul-89	F23		<0.41	<0.62			<3.09	5.53	<1.17
01U652	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U666	12-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U803	05-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U805	05-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U806	05-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U808	05-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U901	25-Jul-89	F23		<0.41	<0.62			<3.09	19.70	<8.28
01U901	27-Jul-89	F23		<0.41	<0.62			<3.09	19.70	<1.17

TABLE 2
TCAAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCLE	1,2-Di chloro ethane 12DCLE
TCAAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U901	20-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
01U901	25-Oct-89	F24	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U901	30-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
01U901	17-Jul-90	F27	<1.00	2.16	<1.00	0.83			<1.90	<1.00	<1.00		<0.50
01U901	18-Sep-90	F28	<1.00	<0.50	<1.00	0.82			<1.90	<1.00	<1.00	<0.78	<0.50
01U901	19-Sep-90	F28	<1.00	<0.50	<1.00	0.75			<1.90	<1.00	<1.00		<0.50
01U901	22-Jan-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U901	13-Mar-91	F30	<1.00	<0.50	<1.00	0.53			<1.90	<1.00	<1.00	<0.78	<0.50
01U901	11-Jun-91	M31	<0.20	<0.10	<0.50		0.30	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20
01U901	30-Jul-91	F32	<0.88	<1.10	<0.49	1.28			<1.50	<0.81	<0.99	<0.72	<0.51
01U902	25-Jul-89	F23	<1.00	49.00	<1.00	65.00			<1.90	<1.00	<1.00		<0.50
01U902	27-Jul-89	F23	35.00	62.00	<0.98	70.00			<3.00	<1.60	<2.00		<1.00
01U902	20-Oct-89	F24	<4.40	8.90	<2.40	54.00			<7.50	<4.00	<5.00		<2.60
01U902	25-Oct-89	F24	<1.00	7.00	<1.00	50.00			<1.90	<1.00	<1.00		<0.50
01U902	08-Feb-90	F25	<1.00	4.00	<1.00	77.00			<1.90	<1.00	<1.00		<0.50
01U902	20-Feb-90	F25	<1.00	3.00	<1.00	83.00			<1.90	<1.00	<1.00		<0.50
01U902	16-Apr-90	F26	<1.00	2.03	<1.00	71.00			<1.90	<1.00	<1.00		<0.50
01U902	22-May-90	F26	<1.00	2.66	<1.00	70.00			<1.90	<1.00	<1.00		<0.50
01U902	19-Jun-90	F27	<1.00	3.32	<1.00	75.00			<1.90	<1.00	<1.00		<0.50
01U902	17-Jul-90	F27	<1.00	5.20	<1.00	70.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	21-Aug-90	F27	3.31	3.03	<1.00	64.00			<1.90	<1.00	<1.00		<0.50
01U902	18-Sep-90	F28	<1.00	2.45	<1.00	48.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	19-Sep-90	F28	<1.00	2.28	<1.00	44.10			<1.90	<1.00	<1.00		<0.50
01U902	22-Oct-90	F28	2.60	3.05	<1.00	56.00			<1.90	<1.00	<1.00		<0.50
01U902	22-Oct-90	F29	3.27	3.26	<1.00	6.10			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	20-Nov-90	F29	<1.00	4.82	<1.00	68.08			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	18-Dec-90	F29	1.30	3.64	<1.00	53.60			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	22-Jan-91	F30	<1.00	2.35	<1.00	56.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	19-Feb-91	F30	3.85	3.25	70.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	19-Mar-91	F30	<1.00	2.40	<1.00	47.30			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	19-Mar-91	M30	<0.20	2.60	<0.50		73.00	3.80	<1.00	<0.20	<0.20	<0.20	<0.20
01U902	16-Apr-91	F31	<1.00	2.32	<1.00	51.10		2.80	<1.90	<1.00	<1.00	<0.78	<0.50
01U902	18-May-91	F31	<1.00	3.09	<1.00	50.00			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	05-Jun-91	F31											
01U902	18-Jun-91	F31	<1.00	3.82	<1.00	48.00		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U902	23-Jul-91	F32	<1.00	4.74	<1.00	38.20			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	30-Jul-91	F32	4.40	7.10	<0.98	32.00			<3.00	1.90	6.10	<1.40	<1.00
01U902	19-Aug-91	F32	<1.00	3.53	<1.00	45.20			<1.90	<1.00	<1.00	<0.78	<0.50
01U902	17-Sep-91	F32	<1.00	3.94	<1.00	43.70			<1.90	<1.00	<1.00	<0.78	<0.50
03F302	17-Nov-87	A16	0.60	1040.00	3.80		51.40	<0.20	<0.20	9.70	0.30	5.00	<0.02
03F302	15-Dec-87	A16	1.50	2120.00	12.30		177.00	1.10	<0.20	23.20	0.28	12.80	<0.20
03F302	12-Jan-88	A17	<4.00	2580.00	12.00		182.00	<4.00	<4.00	23.00	<4.00	20.00	<4.00
03F302	28-Apr-88	A18	<10.00	2895.00	12.00		124.00	<10.00	<10.00	41.00	<10.00	14.00	<10.00
03F302	19-Jul-88	A19	2.70	4300.00	7.50		234.00	1.20	<0.20	24.00	0.49	18.00	<0.20
03F302	21-Oct-88	A20	2.20	4800.00	10.00		135.00	0.66	<0.50	24.00	<0.50	14.00	<1.00
03F302	06-Jan-89	A21	2.40	2850.00	16.00		158.00	<1.00	<1.00	35.00	<1.00	18.00	<1.00
03F302	16-Mar-89	A21	<10.00	5800.00	<10.00		130.00	<10.00	<10.00	31.00	<10.00	11.00	<10.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
01U350	24-Oct-89	F24		<0.72	<1.00					
01U350	22-Nov-89	F24		<0.72	<1.00					
01U350	19-Dec-89	F24		<0.72	<1.00					
01U350	23-Jan-90	F25		<0.72	<1.00					
01U350	20-Feb-90	F25		<0.72	<1.00					
01U350	20-Mar-90	F25		<0.72	<1.00					
01U350	16-Apr-90	F26		<0.72	<1.00					
01U350	22-May-90	F26		<0.72	<1.00					
01U350	19-Jun-90	F26		<0.72	<1.00					
01U350	17-Jul-90	F27		<0.72	<1.00					
01U350	21-Aug-90	F27		<0.72	<1.00					
01U350	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	19-Sep-90	F28		<0.72	<1.00					
01U350	22-Oct-90	F28		<0.72	<1.00					
01U350	22-Oct-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	20-Nov-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	18-Dec-90	F29	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	19-Feb-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U350	16-Apr-91	F31	<1.30	1.93	<1.00	<1.00	<3.20			
01U350	18-May-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	05-Jun-91	F31						<0.41	<0.87	10.50
01U350	18-Jun-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	23-Jul-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20			
01U350	30-Jul-91	F32	<2.20	0.81	<1.20	<9.00	<3.60			
01U350	19-Aug-91	F32	<1.30	0.93	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U350	17-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
01U524	17-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U524	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U524	16-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U524	21-Nov-88	F20		<0.72	<1.00					
01U525	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U525	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U525	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U525	14-Nov-88	F20		<0.72	<1.00					
01U525	27-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U525	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U525	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
01U526	17-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
01U526	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
01U526	15-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
01U526	14-Nov-88	F20		<0.72	<1.00					
01U526	09-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
01U526	26-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
01U526	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCLE	1,2-Di chloro ethene 12DCLE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCLE	1,2-Di chloro ethane 12DCLE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
01U526	19-Apr-90	F26	<1.00	1.14	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U526	13-Mar-91	F30	<1.00	1.27	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
01U527	17-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U527	11-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.72	<0.50
01U527	25-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.72	<0.50
01U527	21-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.72	<0.50
01U601	07-Dec-87	F16	<1.80	3.60	<1.00	<1.10			<3.00	<1.60	<2.00	<1.40	<1.00
01U604	13-Aug-87	A15	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U604	01-Dec-87	A16	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U604	07-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
01U604	29-Feb-88	A17	<0.50	0.60	<0.50		1.00	<0.50	<0.50	<0.50		1.50	<0.50
01U604	26-May-88	A18	<0.50	1.50	<0.50		1.80	<0.50	<0.50	<0.50	<0.50	2.00	<0.50
01U604	08-May-90	A26	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U604	(4) 08-May-90	A26	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U604	05-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U611	01-Dec-87	A16	<0.50	110000.00	<0.50		3900.00	<0.50	120.00	<0.50		74.00	<0.50
01U611	08-Dec-87	F16	<4400.00	120000.00	<2400.00	<2800.00			<7500.00	<4000.00	<5000.00	<3600.00	<2600.00
01U611	01-Mar-88	A17	<0.50	38000.00	<0.50		1800.00	<0.50	<0.50	33.00		<0.50	<0.50
01U611	26-May-88	A18	<0.50	60000.00	<0.50		1500.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U611	08-May-90	A26	<0.50	35000.00	<0.50		3300.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U611	05-Mar-91	A30	<1000.00	40000.00	<1000.00	3900.00		<300.00	<1900.00	<1000.00	<1000.00	<780.00	<500.00
01U615	07-Dec-87	F16	<88.00	1500.00	<49.00	490.00			<150.00	<81.00	<99.00	<72.00	<51.00
01U615	08-May-90	A26	<0.50	6500.00	<0.50		1200.00	270.00	<0.50	<0.50	<0.50	<0.50	<0.50
01U615	05-Mar-91	A30	<500.00	8800.00	<500.00	950.00		160.00	<950.00	<500.00	<500.00	<390.00	<250.00
01U617	13-Aug-87	A15	<0.50	1.40	0.50		6.20	<0.50	<0.50	<0.50	<0.50	1.90	<0.50
01U617	01-Dec-87	A16	<0.50	1.40	<0.50		6.50	<0.50	<0.50	<0.50		3.20	<0.50
01U617	29-Feb-88	A17	<0.50	1.10	0.30		3.40	<0.50	<0.50	<0.50		1.40	<0.50
01U617	26-May-88	A18	<0.50	1.90	<0.50		4.00	<0.50	<0.50	<0.50	<0.50	1.70	<0.50
01U617	(4) 26-May-88	A18	<0.50	2.00	0.40		4.00	<0.50	<0.50	<0.50	<0.50	2.00	<0.50
01U617	19-Aug-88	F19	<1.00	1.72	<1.00	6.29			<1.90	<1.00	<1.00	2.00	<0.50
01U617	08-May-90	A26	<0.50	2.00	0.40		4.90	0.40	<0.50	<0.50	<0.50	0.80	<0.50
01U617	03-Jul-90	A27	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
01U617	02-Oct-90	A29	<1.00		<0.30		4.80	0.50	<1.50	<0.50	<1.00	0.50	<0.20
01U617	05-Mar-91	A30	<1.00	1.17	<1.00	3.33		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
01U617	05-Mar-91	M30	<0.20	1.30	0.70		5.20	0.40	<1.00	<0.20	<0.20	0.60	<0.20
01U617	10-Jun-91	A31	<1.00	1.08	<1.00	3.68		<0.30	<1.90	<1.00	<1.00	<0.78	0.68
01U617	03-Sep-91	A32	<1.00	1.80	<1.00	4.35			<1.90	<1.00	<1.00	<0.78	<1.00
01U617	03-Sep-91	A32	<1.00	1.71	<1.00	4.32			<1.90	<1.00	<1.00	<0.78	<1.00
01U618	13-Aug-87	A15	<0.50	7.70	0.60		2.50	<0.50	<0.50	<0.50	<0.50	2.40	<0.50
01U618	30-Nov-87	A16	<0.50	8.60	<0.50		2.30	2.30	<0.50	<0.50	<0.50	<0.50	<0.50
01U618	(4) 30-Nov-87	A16	<0.50	8.80	<0.50		2.40	2.40	<0.50	<0.50	<0.50	<0.50	<0.50
01U618	29-Feb-88	A17	<0.50	8.90	<0.50		1.50	<0.50	<0.50	0.60	<0.50	<0.50	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03F302	20-Apr-89	A22		0.70						
03F302	19-Jul-89	A23		<20.00						
03F302	24-Oct-89	A24		<20.00						
03F302	18-Jan-90	A25		<20.00						
03F302	08-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03F302	13-Jul-90	A27	<7.50	<12.00	<5.00		68.00			
03F302	(4) 13-Jul-90	A27	<7.50	<12.00	<5.00		74.00			
03F302	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F302	19-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03F302	05-Jun-91	A31	<65.00	<36.00	<50.00	<50.00	<160.00			
03F302	05-Sep-91	A32	<65.00	<36.00	<50.00	<50.00	<160.00			
03F303	17-Nov-87	A16		9.20						
03F303	15-Dec-87	A16		8.90						
03F303	12-Jan-88	A17		11.00						
03F303	28-Apr-88	A18		<0.20						
03F303	19-Jul-88	A19		<0.20						
03F303	21-Oct-88	A20		<0.50						
03F303	06-Jan-89	A21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03F303	16-Mar-89	A21		61.00						
03F303	20-Apr-89	A22		0.80						
03F303	19-Jul-89	A23		<4.00						
03F303	24-Oct-89	A24		<5.00						
03F303	18-Jan-90	A25		<5.00						
03F303	08-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03F303	13-Jul-90	A27	<1.500	<2.50	<1.00		7.50			
03F303	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F303	19-Mar-91	A30	<13.00	<7.20	<10.00	<10.00	<32.00			
03F303	05-Jun-91	A31	<13.00	<7.20	<10.00	<10.00	<32.00			
03F303	05-Sep-91	A32	<26.00	<14.00	<20.00	<20.00	<64.00			
03F304	17-Nov-87	A16		<0.20						
03F304	15-Dec-87	A16		0.39						
03F304	12-Jan-88	A17		<0.20						
03F304	28-Apr-88	A18		<0.20						
03F304	19-Jul-88	A19		<0.20						
03F304	16-Mar-89	A21		<1.00						
03F304	20-Apr-89	A22		<0.20						
03F304	19-Jul-89	A23		<1.00						
03F304	24-Oct-89	A24		<0.20						
03F304	18-Jan-90	A25		<0.20						
03F304	08-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03F304	13-Jul-90	A27	<0.30	<0.50	<0.20		<1.00			
03F304	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F304	19-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03F304	05-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03F304	05-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03F304	05-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEF	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03F305	17-Nov-87	A16	0.80	22.90	2.20		0.80	<0.20	<0.20	17.60	2.40	2.00	<0.20
03F305	15-Dec-87	A16	1.10	54.00	4.10		1.55	<0.20	<0.20	31.00	3.10	6.14	<0.20
03F305	12-Jan-88	A17	0.86	61.00	3.60		1.60	<0.20	<0.20	39.00	2.30	5.50	<0.20
03F305	28-Apr-88	A18	0.82	26.30	4.19		1.38	<0.20	<0.20	34.90	1.86	2.49	<0.20
03F305	19-Jul-88	A19	6.50	38.00	2.40		0.73	<0.20	<0.20	85.00	8.60	1.80	<0.20
03F305	06-Jan-89	A21	1.10	21.00	4.70		<1.00	<1.00	<1.00	44.00	2.30	3.60	<1.00
03F305	16-Mar-89	A21	2.00	68.00	8.20		<1.00	11.00	<1.00	68.00	1.80	14.00	1.30
03F305	20-Apr-89	A22	1.40	100.00	15.00		3.30	<0.20	<1.00	58.00	1.60	19.00	<0.20
03F305	19-Jul-89	A23	1.30	140.00	49.00		7.80	<1.00	<5.00	110.00	2.60	34.00	<1.00
03F305	23-Oct-89	A24	<2.00	430.00	77.00		13.00	<2.00	<10.00	240.00	<2.00	67.00	<2.00
03F305	18-Jan-90	A25	<4.00	590.00	79.00		26.00	<4.00	<20.00	330.00	<4.00	110.00	<4.00
03F305	08-May-90	A26	0.60	1200.00	140.00		23.00	<0.50	<0.50	500.00	2.30	100.00	1.60
03F305	13-Jul-90	A27	<20.00	1600.00	210.00		46.00	<6.00	<30.00	770.00	<20.00	170.00	<4.00
03F305	19-Dec-90	A29	<1.00	1834.76	116.22	52.45			<1.90	746.65	<1.00	148.58	<0.50
03F305	19-Mar-91	A30	<50.00	2100.00	170.00	42.00		<15.00	<95.00	980.00	<50.00	160.00	<25.00
03F305	19-Mar-91	A30	<50.00	2100.00	170.00	44.00		<15.00	<95.00	980.00	<50.00	160.00	<25.00
03F305	05-Jun-91	A31	<50.00	2100.00	150.00	49.00		<15.00	<95.00	930.00	<50.00	160.00	<25.00
03F305	05-Sep-91	A32	<100.00	2400.00	110.00	<50.00		<30.00	<190.00	880.00	<100.00	160.00	<50.00
03F305	(4) 05-Sep-91	A32	<100.00	2900.00	120.00	62.00		<30.00	<190.00	970.00	<100.00	170.00	<50.00
03F306	17-Nov-87	A16	0.40	1500.00	130.00		17.00	<0.20	0.20	845.00	1.30	90.00	2.50
03F306	15-Dec-87	A16	0.36	2130.00	48.80		27.40	0.60	<0.20	1150.00	1.46	143.00	4.40
03F306	12-Jan-88	A17	<4.00	2420.00	171.00		5.70	<4.00	<4.00	1224.00	<4.00	185.00	<4.00
03F306	28-Apr-88	A18	<0.20	530.00	160.00		38.00	<0.20	<0.20	100.00	<0.20	120.00	<0.20
03F306	19-Jul-88	A19	<0.20	2920.00	135.00		34.00	<0.20	<0.20	1500.00	3.80	236.00	8.00
03F306	21-Oct-88	A20	1.10	1400.00	90.00		25.00	<0.50	<0.50	475.00	2.00	55.00	<1.00
03F306	06-Jan-89	A21	1.50	300.00	55.00		18.00	<1.00	<1.00	450.00	1.30	75.00	3.60
03F306	16-Mar-89	A21	<10.00	2800.00	170.00		33.00	<10.00	<10.00	1200.00	<10.00	150.00	<10.00
03F306	20-Apr-89	A22	0.80	2800.00	330.00		100.00	0.40	1.30	1400.00	2.00	200.00	3.20
03F306	19-Jul-89	A23	<5.00	2200.00	300.00		30.00	<5.00	<25.00	800.00	<5.00	130.00	<5.00
03F306	23-Oct-89	A24	<20.00	2700.00	290.00		<20.00	<20.00	<100.00	940.00	<20.00	130.00	<20.00
03F306	18-Jan-90	A25	<40.00	3300.00	220.00		<40.00	<40.00	<200.00	1200.00	<40.00	170.00	<40.00
03F306	08-May-90	A26	1.40	4200.00	250.00		33.00	<0.50	<0.50	1100.00	2.40	120.00	3.30
03F306	13-Jul-90	A27	<50.00	4700.00	350.00		32.00	<15.00	<75.00	1400.00	<50.00	200.00	<10.00
03F306	(4) 13-Jul-90	A27	<50.00	4900.00	340.00		33.00	<15.00	<75.00	1500.00	<50.00	190.00	<10.00
03F306	19-Dec-90	A29	<1.00	6437.77	<1.00	<0.50			<1.90	1373.84	<1.00	<0.78	<0.50
03F306	19-Mar-91	A30	<250.00	7000.00	<250.00	<130.00		<75.00	<480.00	1600.00	<250.00	<200.00	<130.00
03F306	05-Jun-91	A31	<200.00	6400.00	<200.00	<100.00		<60.00	<380.00	1600.00	<200.00	<160.00	<100.00
03F306	05-Sep-91	A32	<250.00	7200.00	<250.00	<130.00		<75.00	<480.00	1500.00	<250.00	<200.00	<130.00
03F307	17-Nov-87	A16	3.00	2370.00	60.00		18.00	<0.20	<0.20	480.00	3.00	48.00	<0.20
03F307	15-Dec-87	A16	1.70	3275.00	110.00		16.30	0.40	<0.20	90.80	1.80	45.00	4.10
03F307	12-Jan-88	A17	<4.00	3300.00	61.40		27.00	<4.00	<4.00	786.00	<4.00	103.00	<4.00
03F307	28-Apr-88	A18	<4.00	3400.00	100.00		31.00	<4.00	<4.00	550.00	<4.00	75.00	<4.00
03F307	19-Jul-88	A19	2.30	3020.00	76.00		22.00	<0.20	<0.20	893.00	2.00	82.00	5.00
03F307	21-Oct-88	A20	1.50	3200.00	70.00		18.00	<0.50	<0.50	605.00	1.20	70.00	3.20
03F307	16-Mar-89	A21	<10.00	4174.00	64.00		59.00	<10.00	<10.00	900.00	<10.00	98.00	<10.00
03F307	20-Apr-89	A22	2.20	3600.00	150.00		23.00	0.20	1.00	530.00	2.00	83.00	3.90
03F307	19-Jul-89	A23	<4.00	2400.00	210.00		25.00	<4.00	<20.00	640.00	<4.00	100.00	<4.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03F305	17-Nov-87	A16		0.40						
03F305	15-Dec-87	A16		0.47						
03F305	12-Jan-88	A17		0.75						
03F305	28-Apr-88	A18		<0.20						
03F305	19-Jul-88	A19		<0.20						
03F305	06-Jan-89	A21	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
03F305	16-Mar-89	A21		1.90						
03F305	20-Apr-89	A22		0.40						
03F305	19-Jul-89	A23		<1.00						
03F305	23-Oct-89	A24		<2.00						
03F305	18-Jan-90	A25		<4.00						
03F305	08-May-90	A26	<0.50	1.20	<0.50		11.00			
03F305	13-Jul-90	A27	<6.00	<10.00	<4.00		69.00			
03F305	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F305	19-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03F305	19-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03F305	05-Jun-91	A31	<65.00	<36.00	<50.00	<50.00	<160.00			
03F305	05-Sep-91	A32	<130.00	<72.00	<100.00	<100.00	<320.00			
03F305	(4) 05-Sep-91	A32	<130.00	<72.00	<100.00	<100.00	<320.00			
03F306	17-Nov-87	A16		15.80						
03F306	15-Dec-87	A16		15.30						
03F306	12-Jan-88	A17		9.20						
03F306	28-Apr-88	A18		<0.20						
03F306	19-Jul-88	A19		<0.20						
03F306	21-Oct-88	A20		2.00						
03F306	06-Jan-89	A21	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
03F306	16-Mar-89	A21		<10.00						
03F306	20-Apr-89	A22		0.90						
03F306	19-Jul-89	A23		<5.00						
03F306	23-Oct-89	A24		<20.00						
03F306	18-Jan-90	A25		<40.00						
03F306	08-May-90	A26	<0.50	2.20	<0.50		4.50			
03F306	13-Jul-90	A27	<15.00	<25.00	<10.00		140.00			
03F306	(4) 13-Jul-90	A27	<15.00	<25.00	<10.00		180.00			
03F306	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F306	19-Mar-91	A30	<330.00	<180.00	<250.00	<250.00	<800.00			
03F306	05-Jun-91	A31	<260.00	<140.00	<200.00	<200.00	<640.00			
03F306	05-Sep-91	A32	<330.00	<180.00	<250.00	<250.00	<800.00			
03F307	17-Nov-87	A16		<0.20						
03F307	15-Dec-87	A16		13.10						
03F307	12-Jan-88	A17		131.00						
03F307	28-Apr-88	A18		<4.00						
03F307	19-Jul-88	A19		<0.20						
03F307	21-Oct-88	A20		2.00						
03F307	16-Mar-89	A21		<10.00						
03F307	20-Apr-89	A22		0.60						
03F307	19-Jul-89	A23		<4.00						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03F307	23-Oct-89	A24	<20.00	3300.00	170.00		<20.00	<20.00	<100.00	590.00	<20.00	82.00	<20.00
03F307	19-Jan-90	A25	<20.00	2700.00	91.00		20.00	<20.00	<100.00	570.00	<20.00	110.00	<20.00
03F307	08-May-90	A26	1.50	3200.00	130.00		22.00	<0.50	<0.50	550.00	2.30	80.00	3.40
03F307	13-Jul-90	A27	<50.00	2800.00	160.00		<25.00	<15.00	<75.00	570.00	<50.00	130.00	<10.00
03F307	19-Dec-90	A29	1114.79	3540.77	912.43	583.88			<1.90	1472.71	1054.81	118.02	480.20
03F307	19-Dec-90	A29	1087.20	3422.75	903.78	554.47			<1.90	1410.92	1044.47	114.86	475.25
03F307	19-Dec-90	A29	<1.00	2864.81	<1.00	<0.50			<1.90	407.83	<1.00	111.70	<0.50
03F307	19-Mar-91	A30	<100.00	2900.00	<100.00	<50.00		<30.00	<190.00	470.00	<100.00	91.00	<50.00
03F307	06-Jun-91	A31	<100.00	2500.00	<100.00	<50.00		<30.00	<190.00	340.00	<100.00	94.00	<50.00
03F307	05-Sep-91	A32	<100.00	2700.00	<100.00	<50.00		<30.00	<190.00	360.00	<100.00	86.00	<50.00
03F308	16-Mar-89	A21	<5.00	75.00	<5.00		<5.00	<5.00	<5.00	15.00	<5.00	<5.00	<5.00
03F308	20-Apr-89	A22	<0.20	44.00	<1.70		0.30	<0.20	<1.00	5.00	<0.20	1.30	<0.20
03F308	19-Jul-89	A23	<0.20	29.00	1.40		0.30	<0.20	<1.00	4.50	<0.20	0.80	<0.20
03F308	23-Oct-89	A24	<0.20	32.00	1.10		<0.20	<0.20	<1.00	5.30	<0.20	0.80	<0.20
03F308	19-Jan-90	A25	<0.20	22.00	0.50		<0.20	<0.20	<1.00	4.00	<0.20	0.70	<0.20
03F308	08-May-90	A26	<0.50	23.00	<0.50		<0.50	<0.50	<0.50	2.40	<0.50	<0.50	<0.50
03F308	13-Jul-90	A27	<1.00	20.00	0.30		<0.50	<0.30	<1.50	2.90	<1.00	0.40	<0.20
03F308	19-Dec-90	A29	<1.00	17.38	<1.00	<0.50			<1.90	1.39	<1.00	<0.78	<0.50
03F308	19-Dec-90	A29	<1.00	16.31	<1.00	<0.50			<1.90	1.38	<1.00	<0.78	<0.50
03F308	19-Mar-91	A30	<1.00	13.20	<1.00	<0.50		<0.30	<1.90	1.37	<1.00	<0.78	<0.50
03F308	06-Jun-91	A31	<1.00	8.22	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03F308	05-Sep-91	A32	<1.00	12.70	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03F312	19-Dec-88	A20	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03F312	16-Mar-89	A21	<1.00	1.30	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03F312	20-Apr-89	A22	<0.20	6.30	<0.80		0.40	<0.20	<1.00	1.70	<0.20	0.80	<0.20
03F312	19-Jul-89	A23	<0.20	10.00	1.90		0.80	<0.20	<1.00	3.60	<0.20	2.80	<0.20
03F312	24-Oct-89	A24	<0.20	31.00	2.10		1.70	<0.20	<1.00	3.70	<0.20	3.70	<0.20
03F312	18-Jan-90	A25	<0.20	26.00	2.10		2.30	<0.20	<1.00	3.20	<0.20	4.30	<0.20
03F312	08-May-90	A26	<0.50	22.00	1.20		1.10	<0.50	<0.50	1.20	<0.50	2.40	<0.50
03F312	13-Jul-90	A27	<1.00	20.00	2.70		2.50	<0.30	<1.50	2.20	<1.00	4.50	<0.20
03F312	19-Dec-90	A29	<1.00	17.92	1.19	1.54			<1.90	<1.00	<1.00	2.59	<0.50
03F312	19-Mar-91	A30	<1.00	17.00	1.21	1.31		<0.30	<1.90	<1.00	<1.00	2.54	<0.50
03F312	05-Jun-91	A31	<1.00	18.50	<1.00	1.47		<0.30	<1.90	<1.00	<1.00	2.13	<0.50
03F312	05-Sep-91	A32		21.80		<0.50						2.32	
03F312	05-Sep-91	A32	<1.00	<0.50	<1.00	1.45		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L001	16-Nov-87	F16	<0.88	1.69	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L001	13-Jan-88	A17	<0.20	1.00	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L001	11-May-88	A18	<0.20	2.40	<0.20		<0.20	<0.20	<0.20	0.73	<0.20	<0.20	<0.20
03L001	29-Jul-88	A19	<0.20	0.41	<0.20		<0.20	<0.20	<0.20	0.23	<0.20	<0.20	<0.20
03L001	20-Oct-88	A20	<0.50	<0.50	<0.50		<0.50	<1.00	<0.50	<0.50	<0.50	<1.00	<1.00
03L001	18-Apr-89	A22	<0.20	<0.40	<0.30		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03L001	11-Jul-89	A23	<0.20	1.70	0.20		<0.20	<0.20	<1.00	0.70	<0.20	<0.20	<0.20
03L001	11-Oct-89	A24	<0.20	0.40	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03L001	16-Jan-90	A25	<0.20	1.20	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03L001	27-Apr-90	A26	<0.50	3.00	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03L001	19-Jul-90	A27	<1.00	1.60	<0.300		<0.50	<0.30	<1.50	<0.50	<1.00	<0.20	<0.20

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MBC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03F307	23-Oct-89	A24		<20.00						
03F307	19-Jan-90	A25		<20.00						
03F307	08-May-90	A26	<0.50	1.20	<0.50		4.10			
03F307	13-Jul-90	A27	<15.00	<25.00	<10.00		100.00			
03F307	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F307	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F307	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F307	19-Mar-91	A30	<130.00	<72.00	<100.00	<100.00	<320.00			
03F307	06-Jun-91	A31	<130.00	<72.00	<100.00	<100.00	<320.00			
03F307	05-Sep-91	A32	<130.00	<72.00	<100.00	<100.00	<320.00			
03F308	16-Mar-89	A21		<5.00						
03F308	20-Apr-89	A22		<0.20						
03F308	19-Jul-89	A23		<0.20						
03F308	23-Oct-89	A24		<0.20						
03F308	19-Jan-90	A25		<0.20						
03F308	08-May-90	A26	<0.50	<0.50	<0.50		3.40			
03F308	13-Jul-90	A27	<0.30	<0.50	<0.20		<1.00			
03F308	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F308	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F308	19-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03F308	06-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03F308	05-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03F312	19-Dec-88	A20		<1.00						
03F312	16-Mar-89	A21		<1.00						
03F312	20-Apr-89	A22		<0.20						
03F312	19-Jul-89	A23		<0.20						
03F312	24-Oct-89	A24		<0.20						
03F312	18-Jan-90	A25		<0.20						
03F312	08-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03F312	13-Jul-90	A27	<0.30	<0.50	<0.20		1.40			
03F312	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03F312	19-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03F312	05-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03F312	05-Sep-91	A32								
03F312	05-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03L001	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L001	13-Jan-88	A17		<0.20						
03L001	11-May-88	A18		<0.20						
03L001	29-Jul-88	A19		<0.20						
03L001	20-Oct-88	A20		<0.50						
03L001	18-Apr-89	A22		<0.20						
03L001	11-Jul-89	A23		<0.20						
03L001	11-Oct-89	A24		<0.20						
03L001	16-Jan-90	A25		<0.20						
03L001	27-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03L001	19-Jul-90	A27		<0.50						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03L001	07-Mar-91	A30	<1.00	2.15	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L001	07-Mar-91	A30	<1.00	2.60	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L001	05-Jun-91	A31	<1.00	1.27	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L001	(4) 05-Jun-91	A31	<1.00	1.20	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L001	04-Sep-91	A32	<1.00	1.71	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L002	17-Nov-87	F16	<44.00	1100.00	61.00	38.00			<75.00	260.00	<50.00	190.00	<26.00
03L002	18-Jan-88	A17	<0.20	2450.00	24.00		68.00	<0.20	1.60	660.00	0.63	312.00	3.40
03L002	10-May-88	A18	<2.00	2000.00	<159.00		66.00	<2.00	<2.00	613.00	<2.00	270.00	<0.20
03L002	04-Aug-88	A19	<0.20	2280.00	154.00		72.00	<0.20	0.63	510.00	0.58	255.00	3.40
03L002	24-Oct-88	A20	<0.50	2670.00	139.00		144.00	<0.50	<1.00	588.00	0.47	410.00	8.40
03L002	12-Oct-89	A24	<10.00	1100.00	42.00		<10.00	<10.00	<50.00	68.00	<10.00	52.00	<10.00
03L002	27-Apr-90	A26	<0.50	1900.00	160.00		44.00	<0.50	<0.50	520.00	<0.50	170.00	<0.50
03L002	08-Mar-91	A30	<100.00	1500.00	<100.00	<50.00		<30.00	<190.00	320.00	<100.00	<78.00	<50.00
03L003	19-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	4.75	<0.99	<0.72	<0.51
03L003	11-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L004	18-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L004	09-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L005	23-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L005	10-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L005	24-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L005	29-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L007	09-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L007	10-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L007	28-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L010	09-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L010	10-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L012	09-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L012	11-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L013	10-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L014	23-Nov-87	F16	<0.88	2.77	<0.49	<0.56			<1.50	2.34	<0.99	<0.72	<0.51
03L014	10-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L017	10-Nov-87	F16	<22.00	540.00	<12.00	<14.00			<38.00	200.00	<25.00	<18.00	<13.00
03L017	25-Apr-90	A26	<0.50	44.00	3.20		<0.50	<0.50	<0.50	14.00	<0.50	1.00	<0.50
03L017	07-Mar-91	A30	<1.00	6.41	<1.00	<0.50		<0.30	<1.90	1.77	<1.00	<0.78	<0.50
03L018	23-Nov-87	F16	<0.88	2.54	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L018	08-Apr-88	F18	<1.00	1.06	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L018	22-Aug-88	F19	<1.00	2.70	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L018	18-Nov-88	F20	<1.00	6.52	<1.00	<0.50			<1.90	1.64	<1.00	<0.78	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCl4	Chloro form CHCl3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2Cl2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03L001	07-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L001	07-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L001	05-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03L001	(4) 05-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03L001	04-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03L002	17-Nov-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00	<3.09	<3.39	<1.17
03L002	18-Jan-88	A17		<0.20						
03L002	10-May-88	A18		2.50						
03L002	04-Aug-88	A19		3.10						
03L002	24-Oct-88	A20		5.50						
03L002	12-Oct-89	A24		<10.00						
03L002	27-Apr-90	A26	2.10	1.40	5.40		<0.50			
03L002	08-Mar-91	A30	<130.00	<72.00	<100.00	<100.00	<320.00			
03L003	19-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L003	11-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L004	18-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L004	09-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L005	23-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L005	10-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L005	24-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L005	29-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L007	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L007	10-Nov-88	F20		<0.72	<1.00					
03L007	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L010	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L010	10-Nov-88	F20		<0.72	<1.00					
03L012	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L012	11-Nov-88	F20		<0.72	<1.00					
03L013	10-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L014	23-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L014	10-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L017	10-Nov-87	F16	<28.00	<10.00	<16.00	<110.00	<45.00	<3.09	<3.39	<1.17
03L017	25-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03L017	07-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L018	23-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L018	08-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03L018	22-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L018	18-Nov-88	F20		<0.72	<1.00			<0.41	3.02	<8.28

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03L018	04-May-90	A26	<0.50	13.00	<0.50		<0.50	<0.50	<0.50	2.20	<0.50	<0.50	<0.50
03L018	15-Mar-91	A30	<1.00	0.60	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L020	07-Dec-87	F16	<880.00	14000.00	<490.00	<560.00			<1500.00	4200.00	<990.00	<720.00	<510.00
03L020	17-Aug-88	F19	<200.00	4700.00	280.00	520.00			<380.00	1300.00	<200.00		<100.00
03L021	13-Oct-89	A24	<0.40	10.00	11.00		2.20	<0.40	<2.00	20.00	<0.40	42.00	<0.40
03L021	02-May-90	A26	<0.50	370.00	46.00		13.00	<0.50	<0.50	73.00	<0.50	110.00	<0.50
03L021	14-Mar-91	A30	<25.00	540.00	<25.00	19.00		<7.50	<48.00	70.00	<25.00	74.00	<13.00
03L029	03-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L077	04-Dec-87	F16	<88.00	1600.00	61.00	<56.00			<150.00	610.00	<99.00	<72.00	<51.00
03L077	19-Jan-88	A17	<0.20	875.00	63.00		10.00	<0.20	0.70	350.00	0.32	53.00	1.10
03L077	09-May-88	A18	<0.20	287.00	12.00		3.00	<0.20	<0.20	103.00	<0.20	12.00	0.44
03L077	03-Aug-88	A19	<0.20	458.00	8.00		7.00	<0.20	<0.20	163.00	<0.20	15.00	<0.20
03L077	21-Oct-88	A20	<0.50	1000.00	32.00		7.00	<0.50	<0.50	310.00	<0.50	41.00	<1.00
03L077	11-Oct-89	A24	<40.00	5600.00	440.00		<40.00	<40.00	<200.00	1600.00	<40.00	<40.00	<40.00
03L077	24-Apr-90	A26	2.40	4500.00	140.00		19.00	<0.50	<0.50	1100.00	3.00	37.00	<0.50
03L077	07-Mar-91	A30	<500.00	7000.00	<500.00	<250.00		<150.00	<950.00	1700.00	<500.00	<390.00	<250.00
03L078	23-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L078	15-Jan-88	A17	<0.20	0.62	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L078	13-May-88	A18	<0.20	1.30	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L078	03-Aug-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L078	18-Aug-88	F19	<1.00	2.69	<1.00	<0.50			<1.90	<1.00	<1.00	<0.20	<0.50
03L078	16-Oct-89	A24	<0.20	1.50	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03L078	30-Apr-90	A26	<0.50	1.10	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03L078	13-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L079	04-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L079	14-Jan-88	A17	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L079	09-May-88	A18	<0.20	2.40	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L079	03-Aug-88	A19	<0.20	1.00	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L079	18-Aug-88	F19	<1.00	0.84	<1.00	<0.50			<1.90	<1.00	<1.00	<0.20	<0.50
03L079	26-Oct-88	A20	<0.50	1.00	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03L079	16-Oct-89	A24	<0.20	0.50	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03L079	01-May-90	A26	<0.50	0.70	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03L079	13-Mar-91	A30	<1.00	1.52	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L080	30-Apr-90	A26	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03L080	18-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L080	18-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L081	01-May-90	A26	<0.50	7.70	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03L081	29-Mar-91	F30	<1.00	1.97	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L084	08-Dec-87	F16	<1.80	30.00	<1.00	<1.10			<3.00	7.10	<2.00	<1.40	<1.00
03L084	18-Jan-88	A17	<0.20	42.00	0.76		<0.20	<0.20	<0.20	11.50	<0.20	0.36	<0.20

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MBC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03L018	04-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03L018	15-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L020	07-Dec-87	F16	<1100.00	<410.00	<620.00	<4500.00	<1800.00	<3100.00	<3400.00	<1200.00
03L020	17-Aug-88	F19		<140.00	<200.00			<0.41	1.27	<8.28
03L021	13-Oct-89	A24		<0.40						
03L021	02-May-90	A26	0.80	<0.50	<0.50		<0.50			
03L021	14-Mar-91	A30	<33.00	<18.00	<25.00	<25.00	<80.00			
03L029	03-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L077	04-Dec-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00	<150.00	<170.00	<58.00
03L077	19-Jan-88	A17		1.30						
03L077	09-May-88	A18		0.36						
03L077	03-Aug-88	A19		<0.20						
03L077	21-Oct-88	A20		1.40						
03L077	11-Oct-89	A24		<40.00						
03L077	24-Apr-90	A26	3.80	2.20	<0.50		<0.50			
03L077	07-Mar-91	A30	<650.00	<360.00	<500.00	<500.00	<1600.00			
03L078	23-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L078	15-Jan-88	A17		<0.20						
03L078	13-May-88	A18		<0.20						
03L078	03-Aug-88	A19		<0.20						
03L078	18-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L078	16-Oct-89	A24		<0.20						
03L078	30-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03L078	13-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L079	04-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L079	14-Jan-88	A17		<0.20						
03L079	09-May-88	A18		<0.20						
03L079	03-Aug-88	A19		<0.20						
03L079	18-Aug-88	F19		<0.72	<1.00			0.69	<0.87	<8.28
03L079	26-Oct-88	A20		<0.50						
03L079	16-Oct-89	A24		<0.20						
03L079	01-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03L079	13-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L080	30-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03L080	18-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L080	18-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L081	01-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03L081	29-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L084	08-Dec-87	F16	<2.20	<0.82	<1.20	<9.00	<3.60	<3.09	<3.39	<1.17
03L084	18-Jan-88	A17		<0.20						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03L084	11-May-88	A18	<0.20	23.00	<0.20		<0.20	<0.20	<0.20	8.10	<0.20	0.61	<0.20
03L084	04-Aug-88	A19	<0.20	27.00	<0.20		<0.20	<0.20	<0.20	6.80	<0.20	<0.20	<0.20
03L084	20-Oct-88	A20	<0.50	18.00	<0.50		<0.50	<1.00	<0.50	4.20	<0.50	<1.00	<1.00
03L084	11-Oct-89	A24	<0.20	15.00	1.70		<0.20	<0.20	<1.00	4.30	<0.20	<0.20	<0.20
03L084	26-Apr-90	A26	<0.50	5.20	<0.50		<0.50	<0.50	<0.50	1.10	<0.50	<0.50	<0.50
03L084	13-Mar-91	A30	<1.00	1.65	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L086	11-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L091	03-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L091	25-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L091	01-May-90	F26	<1.00	0.62	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L091	26-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L113	18-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L113	06-Apr-88	F18	<1.00	0.76	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L113	09-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L113	18-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L113	27-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L113	19-Jul-90	F27	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L113	28-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L137	17-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L137	24-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L137	18-Jul-90	F27	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L137	21-Sep-90	F28	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L137	27-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L138	17-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L138	24-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L138	18-Jul-90	F27	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L138	21-Sep-90	F28	<1.00	1.72	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L138	29-Mar-91	F30	<1.00	0.58	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03L306	23-Aug-88	F19	<1.00	2.01	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L306	08-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L306	03-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L523	27-Apr-90	F26	<1.00	0.85	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L523	26-Mar-91	F30											
03L523	26-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L523	04-Sep-91	F32	<1.00	0.52	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L523 (4)	04-Sep-91	F32	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L673	12-Nov-87	A16	<0.20	1200.00	5.00		77.00	<0.20	<0.20	<0.20	<0.20	7.00	<0.20
03L673	02-May-90	A26	<0.50	3200.00	6.50		120.00	0.70	<0.50	3.80	1.50	8.50	<0.50
03L673	11-Mar-91	A30	<100.00	2000.00	<100.00	75.00		<30.00	<190.00	<100.00	<100.00	<78.00	<50.00
03L673	11-Mar-91	M30	<20.00	1900.00	<50.00		110.00	<10.00	<100.00	<20.00	<20.00	<20.00	<20.00
03L673	17-Jun-91	M31	<20.00	5500.00	<50.00		29.00	<10.00	<100.00	<20.00	<20.00	<20.00	<20.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03L084	11-May-88	A18		<0.20						
03L084	04-Aug-88	A19		<0.20						
03L084	20-Oct-88	A20		<0.50						
03L084	11-Oct-89	A24		<0.20						
03L084	26-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03L084	13-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L086	11-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L091	03-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L091	25-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L091	01-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	1.24	6.19	<8.28
03L091	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L113	18-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03L113	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03L113	09-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L113	18-Nov-88	F20		<0.72	<1.00			<0.41	0.98	<8.28
03L113	27-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	1.34	5.06	<8.28
03L113	19-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L113	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	1.18	<8.28
03L137	17-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03L137	24-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L137	18-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L137	21-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L137	27-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L138	17-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03L138	24-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L138	18-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	0.95	<8.28
03L138	21-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L138	29-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L306	23-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03L306	08-Nov-88	F20		<0.72	<1.00					
03L306	03-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
03L523	27-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L523	26-Mar-91	F30						<0.41	<0.87	<8.28
03L523	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L523	04-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L523 (4)	04-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L673	12-Nov-87	A16		25.00						
03L673	02-May-90	A26	<0.50	0.70	<0.50		<0.50			
03L673	11-Mar-91	A30	<130.00	<72.00	<100.00	<100.00	<320.00			
03L673	11-Mar-91	M30	<20.00	<10.00	<20.00	<20.00	<50.00	<20.00	<20.00	
03L673	17-Jun-91	M31	<20.00	<10.00	<20.00	<20.00	<50.00	<20.00	<20.00	

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03L802	03-Dec-87	F16	<440.00	13000.00	<240.00	<280.00			<750.00	<400.00	<500.00	<360.00	<260.00
03L802	21-Jan-88	A17	<5.00	11500.00	33.00		325.00	<5.00	<5.00	30.00	<5.00	50.00	<5.00
03L802	13-May-88	A18	0.59	7540.00	22.00		168.00	0.60	<0.20	50.00	1.40	26.00	1.30
03L802	04-Aug-88	A19	0.38	3180.00	17.00		147.00	0.24	<0.20	27.00	1.10	23.00	0.28
03L802	28-Oct-88	A20	<0.50	2200.00	7.50		90.00	<0.50	<0.50	6.30	<0.50	16.00	<1.00
03L802	20-Apr-89	A22	<0.20	7.30	5.00		27.00	<0.20	<1.00	3.20	<0.20	8.50	<0.20
03L802	12-Jul-89	A23	<4.00	810.00	<4.00		32.00	<4.00	<20.00	4.80	<4.00	12.00	<4.00
03L802	18-Oct-89	A24	<0.20	350.00	5.30		12.00	<0.20	<1.00	8.80	<0.20	6.30	<0.20
03L802	16-Jan-90	A25	<1.00	160.00	3.90		7.50	<1.00	<5.00	41.00	<1.00	4.20	<1.00
03L802	01-May-90	A26	<0.50	92.00	2.70		1.30	<0.50	<0.50	7.50	<0.50	1.30	<0.50
03L802	18-Jul-90	A27	<1.00	59.00	2.80		2.30	<0.30	<1.50	8.20	<1.00	1.70	<0.20
03L802	14-Mar-91	A30	<1.00	36.50	1.61	1.80		<0.30	<1.90	10.20	<1.00	1.63	<0.50
03L802	07-Jun-91	A31	<1.00	41.50	1.98	1.79		<0.30	<1.90	14.20	<1.00	1.45	<0.50
03L802	04-Sep-91	A32	<1.00	27.40	<1.00	1.35		<0.30	<1.90	8.62	<1.00	1.53	<0.50
03L806	02-Dec-87	F16	<180.00	5100.00	260.00	<110.00			<300.00	1700.00	<200.00	340.00	<100.00
03L806	19-Jan-88	A17	<0.20	3500.00	262.00		67.00	<0.20	<0.20	1250.00	2.60	370.00	8.30
03L806	12-May-88	A18	<0.20	740.00	134.00		66.00	0.24	0.25	378.00	0.66	304.00	6.10
03L806	04-Aug-88	A19	<0.20	2065.00	232.00		124.00	<0.20	0.68	810.00	0.71	403.00	7.80
03L806	25-Oct-88	A20	<0.50	3890.00	150.00		120.00	<0.50	<0.50	1170.00	0.73	300.00	6.60
03L806	11-Jul-89	A23	<4.00	540.00	130.00		110.00	<4.00	<20.00	150.00	<4.00	240.00	4.10
03L806	16-Oct-89	A24	<10.00	2000.00	230.00		27.00	<10.00	<50.00	590.00	<10.00	130.00	<10.00
03L806	17-Jan-90	A25	<20.00	2200.00	160.00		31.00	<20.00	<100.00	790.00	<20.00	150.00	<20.00
03L806	23-Apr-90	A26	<0.50	5500.00	500.00		44.00	<0.50	<0.50	1800.00	1.40	220.00	<0.50
03L806	18-Jul-90	A27	<10.00	1100.00	340.00		140.00	<3.00	<15.00	360.00	<10.00	360.00	8.80
03L806	11-Mar-91	A30	<500.00	5100.00	<500.00	<250.00		<150.00	<950.00	2400.00	<500.00	<390.00	<250.00
03L806	07-Jun-91	A31	<200.00	4700.00	410.00	130.00		<12000.00	<380.00	1600.00	<200.00	440.00	<100.00
03L806	04-Sep-91	A32	<500.00	5400.00	<500.00	<250.00		<150.00	<950.00	1600.00	<500.00	460.00	<250.00
03L809	10-May-89	F22	<50.00	1900.00	230.00	45.00			<95.00	1030.00	<50.00		<25.00
03L809	20-Oct-89	F24	<88.00	1800.00	150.00	140.00			<150.00	380.00	<99.00		<51.00
03L809	24-Apr-90	F26	<1.00	3200.00	240.00	70.00			<1.90	1100.00	<1.00	350.00	<0.50
03L809	20-Jul-90	F27	<1.00	2200.00	120.00	71.00			<1.90	610.00	<1.00	300.00	<0.50
03L809	17-Sep-90	F28	<1.00	2200.00	180.00	58.00			<1.90	660.00	<1.00	310.00	5.40
03L809	21-Mar-91	F30	<100.00	2000.00	170.00	<50.00			<190.00	630.00	<100.00	270.00	<50.00
03L811	25-Nov-87	F16	<0.88	<1.10	0.55	<0.56			<1.50	16.80	<0.99	4.58	<0.51
03L811	04-May-89	F22	<1.00	1.87	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L811	24-Jul-89	F23	<0.88	<1.10	3.74	0.60			<1.50	11.60	<0.99		<0.51
03L811	20-Oct-89	F24	<0.88	2.89	2.84	1.39			<1.50	4.75	<0.99		<0.51
03L811	26-Apr-90	F26	<1.00	1.27	2.10	<0.50			<1.90	5.40	<1.00	4.88	<0.50
03L811	20-Mar-91	F30	<1.00	2.09	<1.00	<0.50			<1.90	5.23	<1.00	4.49	<0.50
03L813	25-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L813	05-May-89	F22	<1.00	0.64	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L813	24-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L813	20-Oct-89	F24	<0.88	6.24	0.73	<0.56			<1.50	0.98	<0.99		<0.51
03L822	01-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	18.00	<0.99	<0.72	<0.51

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCPLP	1,1,2-Trichloro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03L802	03-Dec-87	F16	<50.00	<200.00	<310.00	<2200.00	<900.00			
03L802	21-Jan-88	A17		140.00						
03L802	13-May-88	A18		0.25						
03L802	04-Aug-88	A19		3.90						
03L802	28-Oct-88	A20		<0.50						
03L802	20-Apr-89	A22		<0.20						
03L802	12-Jul-89	A23		<4.00						
03L802	18-Oct-89	A24		<0.20						
03L802	16-Jan-90	A25		<1.00						
03L802	01-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03L802	18-Jul-90	A27		<0.50						
03L802	14-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L802	07-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03L802	04-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03L806	02-Dec-87	F16	<220.00	<82.00	<120.00	<900.00	<360.00			
03L806	19-Jan-88	A17		<0.20						
03L806	12-May-88	A18		0.79						
03L806	04-Aug-88	A19		5.70						
03L806	25-Oct-88	A20		5.10						
03L806	11-Jul-89	A23		<4.00						
03L806	16-Oct-89	A24		<10.00						
03L806	17-Jan-90	A25		<20.00						
03L806	23-Apr-90	A26	5.20	4.10	<0.50		<0.50			
03L806	18-Jul-90	A27		5.70						
03L806	11-Mar-91	A30	<650.00	<360.00	<500.00	<500.00	<1600.00			
03L806	07-Jun-91	A31	<260.00	<140.00	<200.00	<200.00	<640.00			
03L806	04-Sep-91	A32	<650.00	<360.00	<500.00	<500.00	<1600.00			
03L809	10-May-89	F22		<36.00	<50.00			<21.00	<44.00	<410.00
03L809	20-Oct-89	F24		<41.00	<62.00			<3.09	<3.39	<1.17
03L809	24-Apr-90	F26	<1.30	<0.72	<1.00	<2.00	<3.20			
03L809	20-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
03L809	17-Sep-90	F28	<1.30	4.00	<1.00	<1.00	<3.20			
03L809	21-Mar-91	F30	<130.00	<72.00	<100.00	<100.00	<320.00			
03L811	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03L811	04-May-89	F22		<0.72	<1.00			<0.41	1.74	<8.28
03L811	24-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03L811	20-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03L811	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03L811	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L813	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03L813	05-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
03L813	24-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03L813	20-Oct-89	F24		0.27	<0.62			<6.20	<6.80	<2.30
03L822	01-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEB	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03L822	05-May-89	F22	<1.00	1.96	<1.00	<0.50			<1.90	11.20	<1.00		<0.50
03L822	24-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	19.30	<0.99		<0.51
03L822	23-Oct-89	F24	<0.88	14.80	1.08	<0.56			<1.50	19.00	<0.99		<0.51
03L822	25-Apr-90	F26	<1.00	1.35	<1.00	<0.50			<1.90	21.60	<1.00	4.89	<0.50
03L822	21-Mar-91	F30	<1.00	7.99	1.88	<0.50			<1.90	20.60	<1.00	8.25	<0.50
03L832	24-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L832	16-Dec-88	A20	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03L832	09-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03L832	24-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L832	24-Oct-89	F24	<0.88	1.42	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L832	19-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L841	20-Oct-87	A16	<0.20	1.00	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L841	12-Nov-87	A16	<0.20	0.50	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L841	19-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L841	20-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L846	18-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L846	19-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L846	18-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L846	18-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L848	02-Dec-87	F16	<44.00	570.00	<24.00	<28.00			<75.00	<40.00	<50.00	<36.00	<26.00
03L848	03-May-89	F22	<1.00	270.00	2.64	24.90			<1.90	1.56	<1.00		<0.50
03L848	20-Jul-89	F23	<18.00	130.00	<9.80	<11.00			<30.00	<16.00	<20.00		<10.00
03L848	19-Oct-89	F24	<0.88	610.00	1.16	21.60			<1.50	1.56	<0.99		<0.51
03L848	19-Apr-90	F26	<20.00	460.00	<20.00	23.00			<38.00	<20.00	<20.00	<16.00	<10.00
03L848	19-Jul-90	F27	<1.00	260.00	<1.00	13.00			<1.90	<1.00	<1.00	1.06	<0.50
03L848	18-Mar-91	F30	<10.00	250.00	<10.00	9.20		<3.00	<19.00	<10.00	<10.00	<7.80	<5.00
03L853	03-Dec-87	F16	<88.00	2500.00	<49.00	<56.00			<150.00	440.00	<99.00	<72.00	<51.00
03L853	05-May-89	F22	3.90	1200.00	56.00	10.80			<1.90	320.00	<1.00		1.96
03L853	25-Jul-89	F23	<88.00	1300.00	<49.00	<56.00			<150.00	190.00	<99.00		<51.00
03L853	23-Oct-89	F24	<88.00	1900.00	90.00	<56.00			<150.00	280.00	<99.00		<51.00
03L853	19-Apr-90	F26	<50.00	1100.00	<50.00	<25.00			<95.00	170.00	<50.00	62.00	<25.00
03L853	20-Jul-90	F27	2.27	1000.00	42.10	5.90			<1.90	180.00	<1.00	24.00	1.18
03L853	21-Mar-91	F30	<1.00	620.00	<1.00	<0.50			<1.90	130.00	<1.00	<0.78	<0.50
03L854	20-Oct-87	A16	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L854	24-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03L854	16-Dec-88	A20	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03L854	20-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L854	27-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L854	30-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L854	19-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L856	24-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	6.90	<0.99	<0.72	<0.51
03L856	05-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03L822	05-May-89	F22		<0.72	<1.00			0.68	3.34	<8.28
03L822	24-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03L822	23-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03L822	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03L822	21-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L832	24-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03L832	16-Dec-88	A20		<1.00						
03L832	09-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
03L832	24-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03L832	24-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03L832	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L841	20-Oct-87	A16		<0.20						
03L841	12-Nov-87	A16		<0.20						
03L841	19-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03L841	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L846	18-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03L846	19-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03L846	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03L846	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L848	02-Dec-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00			
03L848	03-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
03L848	20-Jul-89	F23		<8.20	<12.00			<62.00	<68.00	<23.00
03L848	19-Oct-89	F24		0.43	<0.62			<3.09	<3.39	<1.17
03L848	19-Apr-90	F26	<26.00	<14.00	<20.00	<20.00	63.00			
03L848	19-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
03L848	18-Mar-91	F30	<13.00	<7.20	<10.00	<10.00	<32.00			
03L853	03-Dec-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00			
03L853	05-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
03L853	25-Jul-89	F23		<41.00	<62.00			<310.00	<340.00	<120.00
03L853	23-Oct-89	F24		<41.00	<62.00			<309.00	<339.00	<117.00
03L853	19-Apr-90	F26	<65.00	<36.00	<50.00	<50.00	<160.00			
03L853	20-Jul-90	F27	<1.30	0.92	<1.00	<1.00	<3.20			
03L853	21-Mar-91	F30	47.00	<0.72	<1.00	<1.00	<3.20			
03L854	20-Oct-87	A16		<0.20						
03L854	24-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03L854	16-Dec-88	A20		<1.00						
03L854	20-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03L854	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03L854	30-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03L854	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L856	24-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03L856	05-May-89	F22		<0.72	<1.00			<0.41	1.58	<8.28

TABLE 2
TCAAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03L856	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L856	23-Oct-89	F24	<0.88	1.47	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03L856	21-Mar-91	F30	<1.00	1.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L856	(4) 21-Mar-91	F30	<1.00	1.91	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L858	24-Nov-87	F16	<2.20	7.90	<1.20	<1.40			<3.80	<2.00	<2.50	<1.80	<1.30
03L858	08-May-89	F22	<1.00	5.26	<1.00	3.10			<1.90	43.50	<1.00		<0.50
03L858	21-Jul-89	F23	<4.40	7.60	<2.40	<2.80			<7.50	46.00	<5.00		<2.60
03L858	23-Oct-89	F24	<4.40	11.00	<2.40	6.40			<7.50	<4.00	<5.00		<2.60
03L858	17-Apr-90	F26	<1.00	6.83	<1.00	3.42			<1.90	<1.00	<1.00	<0.78	<0.50
03L858	25-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L859	13-Nov-87	A16	0.40	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L859	15-Dec-88	A20	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03L859	30-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L859	19-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L860	13-Nov-87	A16	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L860	15-Dec-88	A20	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03L860	19-Apr-90	F26	<1.00	1.62	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L860	20-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L861	12-Nov-87	A16	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03L861	15-Dec-88	A20	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03L861	30-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03L861	25-Mar-91	F30	<1.00	9.27	<1.00	<0.50			<1.90	2.96	<1.00	<0.78	<0.50
03L861	(4) 25-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03M001	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03M002	17-Nov-87	F16	<180.00	4100.00	200.00	170.00			<300.00	1500.00	<200.00	220.00	<100.00
03M003	19-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03M003	11-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03M004	18-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03M004	27-Jul-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03M004	09-Aug-88	F19	1.68	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03M005	08-Dec-87	F16	<0.88	8.49	<0.49	<0.56			<1.50	0.98	<0.99	<0.72	<0.51
03M005	14-Jan-88	A17	<0.20	33.00	<0.20		0.54	<0.20	<0.20	0.42	<0.20	<0.20	<0.20
03M005	06-Apr-88	F18	<1.00	1.27	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03M005	16-May-88	A18	<0.20	7.10	<0.20		<0.20	<0.20	<0.20	1.50	<0.20	<0.20	<0.20
03M005	27-Jul-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03M005	11-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03M005	31-Oct-88	A20	<0.50	2.00	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03M005	10-Nov-88	F20	<1.00	0.87	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03M005	11-Oct-89	A24	<0.20	<0.20	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03M005	24-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03L856	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03L856	23-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03L856	21-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L856	(4) 21-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L858	24-Nov-87	F16	16.00	2.90	<1.60	<11.00	<4.50			
03L858	08-May-89	F22		11.70	<1.00			<0.41	1.42	<8.28
03L858	21-Jul-89	F23		7.10	<3.10			<15.00	<17.00	<5.80
03L858	23-Oct-89	F24		4.90	<3.10			<15.00	<17.00	<5.80
03L858	17-Apr-90	F26	34.20	13.00	<1.00	<1.00	<3.20			
03L858	25-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L859	13-Nov-87	A16		<0.20						
03L859	15-Dec-88	A20		<1.00						
03L859	30-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03L859	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L860	13-Nov-87	A16		<0.20						
03L860	15-Dec-88	A20		<1.00						
03L860	19-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03L860	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03L861	12-Nov-87	A16		<0.20						
03L861	15-Dec-88	A20		<1.00						
03L861	30-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	1.47	<8.28
03L861	25-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03L861	(4) 25-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03M001	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03M002	17-Nov-87	F16	<20.00	<82.00	<120.00	<900.00	<60.00	<3.09	<3.39	<1.17
03M003	19-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03M003	11-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03M004	18-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03M004	27-Jul-88	A19		<0.20						
03M004	09-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03M005	08-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03M005	14-Jan-88	A17		<0.20						
03M005	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03M005	16-May-88	A18		<0.20						
03M005	27-Jul-88	A19		<0.20						
03M005	11-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03M005	31-Oct-88	A20		<0.50						
03M005	10-Nov-88	F20		<0.72	<1.00					
03M005	11-Oct-89	A24		<0.20						
03M005	24-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03M005	29-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03M013	10-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03M017	10-Nov-87	F16	<44.00	1300.00	40.00	<28.00			<75.00	860.00	<50.00	<36.00	<26.00
03M017	11-Jan-88	A17	<0.20	1540.00	71.00		4.60	<0.20	<0.20	1040.00	<0.20	19.00	<0.20
03M017	12-May-88	A18	<0.20	965.00	38.00		3.10	<0.20	<0.20	835.00	<0.20	8.90	<0.20
03M017	01-Aug-88	A19	0.24	2380.00	90.00		7.40	<0.20	<0.20	2320.00	<0.20	9.20	<0.20
03M017	31-Oct-88	A20	<0.50	1480.00	66.00		4.40	<0.50	<0.50	1160.00	<0.50	6.00	<1.00
03M017	13-Oct-89	A24	<10.00	1400.00	210.00		<10.00	<10.00	<50.00	990.00	<10.00	<10.00	<10.00
03M017	25-Apr-90	A26	<0.50	380.00	49.00		2.80	<0.50	<0.50	280.00	<0.50	4.60	<0.50
03M017	07-Mar-91	A30	<25.00	400.00	<25.00	<13.00		<7.50	<48.00	280.00	<25.00	<20.00	<13.00
03M020	19-Jan-88	A17	<4.00	5400.00	240.00		84.20	<4.00	<4.00	2780.00	4.20	468.00	10.00
03M020	11-May-88	A18	1.20	5900.00	240.00		53.00	0.87	<0.20	3000.00	<0.20	600.00	7.90
03M020	01-Aug-88	A19	1.30	2380.00	333.00		95.00	1.10	1.00	5950.00	2.20	728.00	<0.20
03M020	18-Aug-88	F19	<50.00	7700.00	420.00	260.00			<95.00	3700.00	<50.00		<25.00
03M020	25-Oct-88	A20	1.50	10500.00	430.00		220.00	<0.50	1.70	4500.00	2.00	810.00	33.00
03M020	11-Oct-89	A24	<50.00	11000.00	1200.00		93.00	<50.00	<250.00	4900.00	<50.00	840.00	<50.00
03M020	25-Apr-90	A26	<25.00	9000.00	850.00		80.00	<25.00	<25.00	5500.00	<25.00	550.00	<25.00
03M020	14-Mar-91	A30	<500.00	13000.00	<500.00	380.00		<150.00	<950.00	3900.00	<500.00	840.00	<250.00
03M505	09-Nov-87	F16											
03M713	04-Jan-89	A21	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03M713	18-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03M802	03-Dec-87	F16	<440.00	8900.00	<240.00	<280.00			<750.00	<400.00	<500.00	<360.00	<260.00
03M802	14-Mar-91	A30	<20.00	490.00	<20.00	<10.00		<6.00	<38.00	27.00	<20.00	<16.00	<10.00
03M802	14-Mar-91	A30	<20.00	470.00	<20.00	<10.00		<6.00	<38.00	25.00	<20.00	<16.00	<10.00
03M806	02-Dec-87	F16	<44.00	890.00	27.00	<28.00			<75.00	140.00	<50.00	47.00	<26.00
03M806	23-Apr-90	A26	<0.50	800.00	120.00		7.80	<0.50	<0.50	210.00	<0.50	92.00	<0.50
03M806	11-Mar-91	A30	<20.00	200.00	<20.00	<10.00		<6.00	<38.00	25.00	<20.00	<16.00	<10.00
03M843	24-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03M843	05-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03M843	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03M843	23-Oct-89	F24	<0.88	1.45	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03M843	25-Apr-90	F26	<1.00	6.79	<1.00	<0.50			<1.90	2.29	<1.00	<0.78	<0.50
03M843	21-Mar-91	F30	<1.00	1.52	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03M843	04-Jun-91	F31											
03M843	04-Jun-91	F31	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03M843	(4) 04-Jun-91	F31	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03M843	03-Sep-91	F32	<1.00	3.76	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03M848	02-Dec-87	F16	<22.00	440.00	<12.00	110.00			<38.00	<20.00	<25.00	<18.00	<13.00
03M848	19-Apr-90	F26	<5.00	190.00	6.00	60.00			<9.50	<5.00	<5.00	9.90	<2.50
03M848	19-Jul-90	F27	<1.00	190.00	<1.00	45.00			<1.90	<1.00	<1.00	7.40	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03M005	29-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03M013	10-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03M017	10-Nov-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00	<3.09	<3.39	<1.17
03M017	11-Jan-88	A17		<0.20						
03M017	12-May-88	A18		0.35						
03M017	01-Aug-88	A19		<0.20						
03M017	31-Oct-88	A20		<0.50						
03M017	13-Oct-89	A24		<10.00						
03M017	25-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03M017	07-Mar-91	A30	<33.00	<18.00	<25.00	<25.00	<80.00			
03M020	19-Jan-88	A17		14.00						
03M020	11-May-88	A18		<0.20						
03M020	01-Aug-88	A19		1.90						
03M020	18-Aug-88	F19		100.00	<50.00			<21.00	<44.00	<410.00
03M020	25-Oct-88	A20		10.00						
03M020	11-Oct-89	A24		<50.00						
03M020	25-Apr-90	A26	<25.00	<25.00	<25.00		<25.00			
03M020	14-Mar-91	A30	680.00	<360.00	<500.00	<500.00	<1600.00			
03M505	09-Nov-87	F16						<3.09	<3.39	<1.17
03M713	04-Jan-89	A21		<1.00						
03M713	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03M802	03-Dec-87	F16	<550.00	<200.00	<310.00	<2200.00	<900.00			
03M802	14-Mar-91	A30	54.00	<14.00	<20.00	<20.00	<64.00			
03M802	14-Mar-91	A30	<26.00	<14.00	<20.00	<20.00	<64.00			
03M806	02-Dec-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00			
03M806	23-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03M806	11-Mar-91	A30	<26.00	<14.00	<20.00	<20.00	<64.00			
03M843	24-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03M843	05-May-89	F22		<0.72	<1.00			<0.41	1.13	<8.28
03M843	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03M843	23-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03M843	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	10.10	41.00	31.30
03M843	21-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03M843	04-Jun-91	F31						<0.41	<0.87	<8.28
03M843	04-Jun-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03M843 (4)	04-Jun-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03M843	03-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03M848	02-Dec-87	F16	<28.00	<10.00	<16.00	<110.00	<45.00			
03M848	19-Apr-90	F26	<6.50	<3.60	<5.00	<5.00	<16.00			
03M848	19-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			

TABLE 2
TCAAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLFE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03M848	17-Sep-90	F28	<1.00	330.00	5.80	78.00			<1.90	<1.00	<1.00	13.00	<0.50
03M848	18-Mar-91	F30	<10.00	310.00	<10.00	81.00			<19.00	<10.00	<10.00	12.00	<5.00
03M848	04-Jun-91	F31											
03M848	04-Jun-91	F31	<2.50	730.00	7.30	110.00			<4.80	4.40	<2.50	13.00	<1.30
03M848	03-Sep-91	F32	<25.00	700.00	<25.00	100.00			<47.50	<25.00	<25.00	<19.50	<12.50
03U001	16-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U002	17-Nov-87	F16	<4.40	16.00	<2.40	<2.80			<7.50	45.00	<5.00	<3.60	<2.60
03U002	26-May-88	A18	<0.20	46.00	7.50		0.26	<0.20	<0.20	51.00	1.30	0.48	<0.20
03U002	04-Aug-88	A19	<0.20	104.00	7.40		0.55	<0.20	<0.20	36.00	2.90	<0.20	<0.20
03U002	24-Oct-88	A20	<0.50	49.00	2.10		<0.50	<0.50	<0.50	34.00	1.50	<1.00	<1.00
03U003	19-Nov-87	F16	<88.00	1300.00	<49.00	<56.00			<150.00	95.00	<99.00	<72.00	<51.00
03U003	22-Jan-88	A17	<0.20	337.00	14.60		11.10	<0.20	<0.20	16.10	<0.20	12.40	0.50
03U003	16-May-88	A18	<0.20	640.00	6.70		8.30	<0.20	<0.20	32.00	1.30	17.00	<0.20
03U003	27-Jul-88	A19	<0.20	264.00	5.90		11.00	<0.20	<0.20	18.00	0.74	8.20	8.50
03U003	11-Aug-88	F19	<1.00	540.00	22.90	24.40			<1.90	51.90	<1.00		1.72
03U003	26-Oct-88	A20	<0.50	3.80	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03U003	19-Apr-89	A22	<0.20	280.00	14.00		28.00	<0.20	<1.00	36.00	3.10	22.00	3.00
03U003	12-Jul-89	A23	<0.40	900.00	110.00		84.00	<0.40	<2.00	270.00	7.40	62.00	6.20
03U003	18-Jan-90	A25	<10.00	910.00	41.00		48.00	<10.00	<50.00	210.00	<10.00	44.00	<10.00
03U003	23-Apr-90	A26	<0.50	1800.00	110.00		61.00	<0.50	<0.50	380.00	5.90	44.00	<0.50
03U003	18-Jul-90	A27	<25.00	1800.00	130.00		120.00	<7.50	<8.00	420.00	<25.00	<5.00	82.00
03U003	08-Mar-91	A30	<100.00	1400.00	<100.00	<50.00		<30.00	<190.00	250.00	<100.00	<78.00	<50.00
03U003	06-Jun-91	A31	<1.00	30.30	<1.00	0.87		<0.30	<1.90	3.65	<1.00	<0.78	<0.50
03U003	04-Sep-91	A32	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U004	18-Nov-87	F16	<0.88	<1.10	<0.49	0.93			<1.50	<0.81	<0.99	<0.72	<0.51
03U004	13-Jan-88	A17	<0.20	1.00	<0.20		0.92	<0.20	<0.20	<0.20	<0.20	0.45	<0.20
03U004	18-May-88	A18	<0.20	16.00	<0.20		2.10	<0.20	<0.20	3.00	<0.20	0.55	<0.20
03U004	27-Jul-88	A19	<0.20	0.66	<0.20		0.46	<0.20	<0.20	0.22	<0.20	0.24	<0.20
03U004	09-Aug-88	F19	<1.00	1.59	<1.00	3.02			<1.90	3.44	<1.00		<0.50
03U004	28-Oct-88	A20	<0.50	17.00	<0.50		1.50	<0.50	<0.50	2.10	<0.50	0.63	<1.00
03U004	25-Oct-89	A24	<0.20	5.80	<0.20		0.90	<0.20	<1.00	1.10	<0.20	0.50	<0.20
03U004	02-May-90	A26	<0.50	13.00	<0.50		0.70	<0.50	<0.50	3.70	<0.50	0.50	<0.50
03U004	16-Apr-91	A30	<1.00	0.71	<1.00	<0.50		<0.30	<1.90	1.08	<1.00	<0.78	<0.50
03U005	23-Nov-87	F16	<0.88	<1.10	<0.49	4.21			<1.50	<0.81	<0.99	<0.72	<0.51
03U005	14-Jan-88	A17	<0.20	5.00	<0.20		6.00	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U005	06-Apr-88	F18	<1.00	3.61	<1.00	4.95			<1.90	<1.00	<1.00	<0.20	<0.50
03U005	16-May-88	A18	<0.20	8.40	<0.20		3.40	<0.20	<0.20	0.62	<0.20	<0.20	<0.20
03U005	27-Jul-88	A19	<0.20	1.10	<0.20		1.00	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U005	10-Aug-88	F19	<1.00	0.65	<1.00	2.00			<1.90	<1.00	<1.00	<0.20	<0.50
03U005	31-Oct-88	A20	<0.50	2.30	<0.50		6.20	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03U005	10-Nov-88	F20	<1.00	2.11	<1.00	4.80			<1.90	<1.00	<1.00	<0.20	<0.50
03U005	11-Oct-89	A24	<0.20	0.30	<0.20		3.40	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U005	24-Apr-90	F26	<1.00	0.70	<1.00	1.66			<1.90	<1.00	<1.00	<0.78	<0.50
03U005	29-Mar-91	F30	<1.00	<0.50	<1.00	5.41		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50

TABLE 2
TCAA/GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MBC6H5	Total Xylenes TXYLEN
TCAA/GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03M848	17-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
03M848	18-Mar-91	F30	<13.00	<7.20	<10.00	<10.00	<32.00	<4.10	<8.70	<83.00
03M848	04-Jun-91	F31					<10.00	<22.00	<210.00	
03M848	04-Jun-91	F31	<3.30	<1.80	<2.50	<2.50	<8.00	<1.00	<2.20	<21.00
03M848	03-Sep-91	F32	<32.50	<18.00	<25.00	<25.00	<80.00	<10.00	<22.00	<210.00
03U001	16-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U002	17-Nov-87	F16	<5.50	<2.00	<3.10	<22.00	<9.00	<3.09	<3.39	<1.17
03U002	26-May-88	A18		<0.20						
03U002	04-Aug-88	A19		<0.20						
03U002	24-Oct-88	A20		<0.50						
03U003	19-Nov-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00	<3.09	<3.39	<1.17
03U003	22-Jan-88	A17		6.00						
03U003	16-May-88	A18		<0.20						
03U003	27-Jul-88	A19		<0.20						
03U003	11-Aug-88	F19		2.16	<1.00			<0.41	<0.87	<8.28
03U003	26-Oct-88	A20		<0.50						
03U003	19-Apr-89	A22		1.00						
03U003	12-Jul-89	A23		4.00						
03U003	18-Jan-90	A25		<10.00						
03U003	23-Apr-90	A26	<0.50	3.70	<0.50		<0.50			
03U003	18-Jul-90	A27		<12.00						
03U003	08-Mar-91	A30	<130.00	<72.00	<100.00	<100.00	<320.00			
03U003	06-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03U003	04-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03U004	18-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U004	13-Jan-88	A17		0.24						
03U004	18-May-88	A18		<0.20						
03U004	27-Jul-88	A19		<0.20						
03U004	09-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U004	28-Oct-88	A20		<0.50						
03U004	25-Oct-89	A24		<0.20						
03U004	02-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U004	16-Apr-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U005	23-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U005	14-Jan-88	A17		<0.20						
03U005	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U005	16-May-88	A18		<0.20						
03U005	27-Jul-88	A19		<0.20						
03U005	10-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U005	31-Oct-88	A20		<0.50						
03U005	10-Nov-88	F20		<0.72	<1.00					
03U005	11-Oct-89	A24		<0.20						
03U005	24-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U005	29-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U007	09-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U007	07-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U007	23-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U007	28-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U008	09-Nov-87	F16	1.06	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U008	10-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U008	23-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U009	20-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U009	14-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U009	23-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U009	28-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U010	09-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U010	10-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U012	09-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U012	11-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U013	10-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U014	04-Dec-87	F16	<880.00	13000.00	<490.00	1500.00			<1500.00	6400.00	<990.00	<720.00	<510.00
03U014	18-Jan-88	A17	<0.20	5250.00	122.00		1538.00	<0.20	<0.20	2938.00	4.80	636.00	15.80
03U014	18-May-88	A18	2.60	11300.00	815.00		1575.00	4.10	0.40	6000.00	3.50	795.00	10.00
03U014	02-Aug-88	A19	<20.00	13500.00	392.00		3330.00	<20.00	<20.00	8850.00	<20.00	1460.00	<20.00
03U014	17-Aug-88	F19	<200.00	12000.00	670.00	3300.00			<80.00	9500.00	<200.00		<100.00
03U014	24-Oct-88	A20	7.60	14000.00	6.60		2250.00	<0.50	0.90	6000.00	5.20	1050.00	57.00
03U014	20-Apr-89	A22	6.70	14000.00	1200.00		2200.00	6.30	2.10	6100.00	6.60	1200.00	22.00
03U014	19-Jul-89	A23	<40.00	12000.00	1800.00		2300.00	<40.00	<200.00	7700.00	<40.00	1200.00	<40.00
03U014	24-Oct-89	A24	<100.00	17000.00	1600.00		2300.00	<100.00	<500.00	10000.00	<100.00	1300.00	<100.00
03U014	16-Jan-90	A25	110.00	11000.00	740.00		1600.00	110.00	<500.00	7800.00	110.00	990.00	150.00
03U014	02-May-90	A26	3.20	9500.00	800.00		690.00	2.80	<0.50	7500.00	5.00	430.00	<0.50
03U014	18-Mar-91	A30	<500.00	8000.00	<500.00	350.00		<150.00	<950.00	6200.00	<500.00	<390.00	<250.00
03U015	17-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U015	05-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U015	09-Aug-88	F19	44.90	20.70	<1.00	48.80			<1.90	<1.00	<1.00		<0.50
03U015	16-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U015	01-May-90	F26	<2.00	<1.00	<2.00	<1.00			<3.80	<2.00	<2.00	<1.60	<1.00
03U015	26-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U016	27-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U016	25-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U016	25-Mar-91	M30	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
03U017	10-Nov-87	F16	<22.00	600.00	20.00	<14.00			<38.00	480.00	<25.00	<18.00	<13.00
03U017	24-Apr-90	A26	<0.50	270.00	43.00		<0.50	<0.50	<0.50	190.00	<0.50	1.70	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U007	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U007	07-Nov-88	F20		<0.72	<1.00					
03U007	23-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U007	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U008	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U008	10-Nov-88	F20		<0.72	<1.00					
03U008	23-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U009	20-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U009	14-Nov-88	F20		<0.72	<1.00					
03U009	23-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U009	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U010	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U010	10-Nov-88	F20		<0.72	<1.00					
03U012	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U012	11-Nov-88	F20		<0.72	<1.00					
03U013	10-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U014	04-Dec-87	F16	<1100.00	<410.00	<620.00	<4500.00	5400.00	<1500.00	<1700.00	<580.00
03U014	18-Jan-88	A17		<0.20						
03U014	18-May-88	A18		<0.20						
03U014	02-Aug-88	A19		<20.00						
03U014	17-Aug-88	F19		<140.00	<200.00			<0.41	<0.87	<8.28
03U014	24-Oct-88	A20		28.00						
03U014	20-Apr-89	A22		3.50						
03U014	19-Jul-89	A23		<40.00						
03U014	24-Oct-89	A24		<100.00						
03U014	16-Jan-90	A25		130.00						
03U014	02-May-90	A26	<0.50	5.20	<0.50		5.30			
03U014	18-Mar-91	A30	<650.00	<360.00	<500.00	<500.00	<1600.00			
03U015	17-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U015	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U015	09-Aug-88	F19		<0.72	<1.00					
03U015	16-Nov-88	F20		<0.72	<1.00					
03U015	01-May-90	F26	<2.60	<1.40	<2.00	<2.00	<6.40			
03U015	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U016	27-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U016	25-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U016	25-Mar-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
03U017	10-Nov-87	F16	<28.00	<10.00	<16.00	<110.00	<45.00	<3.09	<3.39	<1.17
03U017	24-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEB	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCLE	1,2-Di chloro ethane 12DCLE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U017	07-Mar-91	A30	<50.00	400.00	59.00	<25.00		<15.00	<95.00	620.00	<50.00	<39.00	<25.00
03U018	04-Dec-87	F16	<440.00	11000.00	<240.00	<280.00			<750.00	3300.00	<500.00	<360.00	<260.00
03U018	22-Aug-88	F19	<1.00	3600.00	103.00	26.70			<1.90	2100.00	1.68		<0.50
03U018	20-Apr-89	A22	0.20	1500.00	97.00		14.00	<0.20	<1.00	410.00	<0.20	22.00	<0.20
03U018	12-Jul-89	A23	<1.00	9900.00	750.00		70.00	<1.00	<5.00	3100.00	<1.00	280.00	<1.00
03U018	20-Oct-89	A24	<20.00	4000.00	210.00		<20.00	<20.00	<100.00	1200.00	<20.00	590.00	<20.00
03U018	18-Jan-90	A25	<40.00	6600.00	140.00		52.00	<40.00	<200.00	2200.00	<40.00	190.00	<40.00
03U018	02-May-90	A26	0.80	2500.00	85.00		17.00	<0.50	<0.50	850.00	<0.50	75.00	<0.50
03U018	15-Mar-91	A30	<100.00	240.00	<100.00	<50.00		<30.00	<190.00	690.00	<100.00	<78.00	<50.00
03U019	23-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U019	25-Jan-88	A17	<0.20	0.95	<0.20		<0.20	<0.20	<0.20	0.73	<0.20	<0.20	<0.20
03U019	17-May-88	A18	<0.20	1.30	<0.20		<0.20	<0.20	<0.20	2.10	<0.20	<0.20	<0.20
03U019	02-Aug-88	A19	<0.20	2.30	<0.20		<0.20	<0.20	<0.20	2.20	<0.20	<0.20	<0.20
03U019	12-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	1.29	<1.00	<0.20	<0.50
03U019	27-Oct-88	A20	<0.50	2.60	<0.50		<0.50	<0.50	<0.50	2.90	<0.50	<1.00	<1.00
03U019	18-Oct-89	A24	<0.20	0.40	<0.20		<0.20	<0.20	<1.00	1.10	<0.20	<0.20	<0.20
03U019	01-May-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	1.28	<1.00	<0.78	<0.50
03U019	19-Jul-90	F27	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U019	27-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U020	07-Dec-87	F16	<440.00	11000.00	250.00	<280.00			<750.00	6000.00	<500.00	<360.00	<260.00
03U020	17-Aug-88	F19	<200.00	5200.00	450.00	740.00			<380.00	4100.00	<200.00		<100.00
03U020	25-Apr-90	A26	<25.00	1100.00	120.00		45.00	<25.00	<25.00	420.00	<25.00	45.00	<25.00
03U020	20-Mar-91	A30	<50.00	1800.00	76.00	82.00		<15.00	<95.00	930.00	<50.00	74.00	<25.00
03U021	17-May-88	A18	<0.20	7.40	<0.20		<0.20	<0.20	<0.20	2.00	<0.20	0.60	<0.20
03U021	29-Jul-88	A19	<0.20	1.90	<0.20		<0.20	<0.20	<0.20	0.38	<0.20	<0.20	<0.20
03U021	28-Oct-88	A20	<0.50	3.30	<0.50		<0.50	<0.50	<0.50	0.59	<0.50	<1.00	<1.00
03U021	13-Oct-89	A24	<4.00	340.00	120.00		<4.00	<4.00	<20.00	380.00	<4.00	9.00	<4.00
03U021	02-May-90	A26	<0.50	900.00	150.00		6.00	<0.50	<0.50	800.00	1.40	24.00	<0.50
03U021	14-Mar-91	A30	<1.00	53.10	4.19	2.25		<0.30	<1.90	27.40	<1.00	2.57	<0.50
03U022	05-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U023	10-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U023	15-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U023	25-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U023	19-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U024	10-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U025	10-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U026	18-Nov-87	F16	<4.40	36.00	<2.40	<2.80			<7.50	42.00	<5.00	<3.60	<2.60
03U026	08-Apr-88	F18	<1.00	23.10	2.44	<0.50			<1.90	35.70	<1.00		<0.50
03U026	22-Aug-88	F19	<1.00	31.10	<1.00	<0.50			<1.90	32.20	<1.00		<0.50
03U026	16-Nov-88	F20	<1.00	29.40	1.97	<0.50			<1.90	36.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U017	07-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03U018	04-Dec-87	F16	<50.00	<200.00	<310.00	<2200.00	<900.00	<1500.00	<1700.00	<580.00
03U018	22-Aug-88	F19		1.57	<1.00			<0.41	<0.87	<8.28
03U018	20-Apr-89	A22		1.40						
03U018	12-Jul-89	A23		<1.00						
03U018	20-Oct-89	A24		<20.00						
03U018	18-Jan-90	A25		<40.00						
03U018	02-May-90	A26	<0.50	2.30	<0.50		<0.50			
03U018	15-Mar-91	A30	<130.00	<72.00	<100.00	<100.00	<320.00			
03U019	23-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U019	25-Jan-88	A17		<0.20						
03U019	17-May-88	A18		<0.20						
03U019	02-Aug-88	A19		<0.20						
03U019	12-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U019	27-Oct-88	A20		<0.50						
03U019	18-Oct-89	A24		<0.20						
03U019	01-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U019	19-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U019	27-Mar-91	F30	<1.30		<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U020	07-Dec-87	F16	<50.00	<200.00	<310.00	<2200.00	<900.00	<1500.00	<1700.00	<580.00
03U020	17-Aug-88	F19		<140.00	<200.00			<0.41	<0.87	<8.28
03U020	25-Apr-90	A26	<25.00	<25.00	<25.00		<25.00			
03U020	20-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	270.00			
03U021	17-May-88	A18		<0.20						
03U021	29-Jul-88	A19		<0.20						
03U021	28-Oct-88	A20		<0.50						
03U021	13-Oct-89	A24		<4.00						
03U021	02-May-90	A26	0.60	1.00	<0.50		<0.50			
03U021	14-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U022	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U023	10-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U023	15-Nov-88	F20		<0.72	<1.00			<0.41	<0.87	<8.28
03U023	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	1.13	<8.28
03U023	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U024	10-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U025	10-Aug-88	F19		<0.72	<1.00			<0.41	1.92	<8.28
03U026	18-Nov-87	F16	<5.50	6.50	<3.10	<22.00	<9.00	<3.09	<3.39	<1.17
03U026	08-Apr-88	F18		21.40	<1.00			<0.41	<0.87	<8.28
03U026	22-Aug-88	F19		15.30	<1.00			<0.41	<0.87	<8.28
03U026	16-Nov-88	F20		35.40	<1.00			<0.41	4.66	<8.28

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U026	01-May-90	F26	<1.00	27.50	2.54	<0.50			<1.90	40.40	<1.00	<0.78	<0.50
03U026	19-Jul-90	F27	<1.00	25.30	2.10	<0.50			<1.90	25.00	<1.00	<0.78	<0.50
03U026	21-Sep-90	F28	<1.00	34.20	2.06	0.80			<1.90	15.00	<1.00	<0.78	<0.50
03U026	29-Mar-91	F30	<2.00	54.00	<2.00	<1.00		<1.20	<3.80	25.00	<2.00	<1.60	<1.00
03U027	20-Nov-87	F16	<4.40	46.00	<2.40	<2.80			<7.50	21.00	23.00	<3.60	<2.60
03U027	13-Jan-88	A17	<0.20	49.00	5.85		0.28	<0.20	<0.20	<0.20	12.00	<0.20	<0.20
03U027	11-May-88	A18	<0.20	41.00	5.40		<0.20	<0.20	<0.20	18.00	8.00	0.67	<0.20
03U027	08-Aug-88	A19	<0.20	97.00	4.60		0.35	<0.20	<0.20	28.00	17.00	<0.20	0.27
03U027	16-Aug-88	F19	<1.00	40.10	4.91	1.50			<1.90	24.50	16.10		<0.50
03U027	25-Oct-88	A20	0.70	55.00	2.40		<0.50	<0.50	<0.50	24.00	5.50	1.30	0.59
03U027	11-Oct-89	A24	<0.40	43.00	<0.40		1.70	<0.40	<2.00	75.00	22.00	<0.40	<0.40
03U027	25-Apr-90	A26	<0.50	65.00	12.00		1.60	<0.50	<0.50	80.00	21.00	<0.50	<0.50
03U027	14-Mar-91	A30	<5.00	64.00	11.00	2.80		<1.50	<9.50	10.00	11.00	<3.90	<2.50
03U028	03-Dec-87	F16	<44.00	310.00	<24.00	<28.00			<75.00	<40.00	<50.00	<36.00	<26.00
03U028	22-Aug-88	F19	<10.00	540.00	<10.00	44.00			<19.00	76.00	<10.00		<5.00
03U028	25-Oct-89	A24	<2.00	280.00	5.40		4.20	<2.00	<10.00	34.00	<2.00	<2.00	<2.00
03U028	07-May-90	A26	<0.50	120.00	1.20		1.30	<0.50	<0.50	7.40	<0.50	<0.50	<0.50
03U028	12-Mar-91	M30	<20.00	890.00	<50.00		140.00	<10.00	<100.00	99.00	<20.00	<20.00	<20.00
03U028	21-Mar-91	A30	<5.00	9.70	<5.00	<2.50		<1.50	<9.50	11.00	<5.00	<3.90	<2.50
03U029	03-Dec-87	F16	<180.00	1400.00	<100.00	<110.00			<300.00	<160.00	<200.00	<140.00	<100.00
03U029	26-Jan-88	A17	<0.20	1030.00	<0.20		143.00	<0.20	<0.20	91.60	<0.20	<0.20	<0.20
03U029	17-May-88	A18	0.61	1125.00	0.67		115.00	0.91	<0.20	46.00	<0.20	1.90	<0.20
03U029	08-Aug-88	A19	4.30	5700.00	24.00		395.00	6.50	<0.20	435.00	0.51	9.40	<0.20
03U029	17-Aug-88	F19	<50.00	2100.00	<50.00	390.00			<95.00	180.00	<50.00		<25.00
03U029	31-Oct-88	A20	2.20	1720.00	12.00		390.00	2.60	<0.50	200.00	<0.50	4.80	<1.00
03U029	18-Oct-89	A24	0.80	1900.00	33.00		230.00	1.50	<1.00	130.00	<0.20	6.80	<0.20
03U029	07-May-90	A26	0.60	1400.00	13.00		110.00	1.00	<0.50	110.00	<0.50	3.10	<0.50
03U029	12-Mar-91	A30	<100.00	990.00	<100.00	120.00		<30.00	<190.00	150.00	<100.00	<78.00	<50.00
03U030	03-Dec-87	F16	<1.80	25.00	<1.00	<1.10			<3.00	<1.60	<2.00	<1.40	<1.00
03U030	26-Jan-88	A17	<0.20	6.50	<0.20		0.41	<0.20	<0.20	0.26	<0.20	<0.20	<0.20
03U030	18-May-88	A18	<0.20	17.00	<0.20		<0.20	<0.20	<0.20	0.59	<0.20	<0.20	<0.20
03U030	08-Aug-88	A19	<0.20	7.70	<0.20		<0.20	<0.20	<0.20	0.67	<0.20	<0.20	<0.20
03U030	22-Aug-88	F19	<1.00	11.50	<1.00	<0.50			<1.90	1.64	<1.00		<0.50
03U030	01-Nov-88	A20	<0.50	11.00	<0.50		<0.50	<0.50	<0.50	1.40	<0.50	<1.00	<1.00
03U030	25-Oct-89	A24	<0.20	7.10	<0.20		<0.20	<0.20	<1.00	0.60	<0.20	<0.20	<0.20
03U030	07-May-90	A26	<0.50	2.90	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03U030	21-Mar-91	A30	<1.00	16.50	<1.00	1.08		<0.30	<1.90	2.84	<1.00	<0.78	<0.50
03U031	18-Jan-88	A17	<0.20	0.68	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U031	10-May-88	A18	<0.20	6.00	<0.20		<0.20	<0.20	<0.20	1.00	<0.20	<0.20	<0.20
03U031	29-Jul-88	A19	<0.20	0.53	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U031	10-Aug-88	F19	<1.00	0.63	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U031	20-Oct-88	A20	<0.50	<0.50	<0.50		<0.50	<1.00	<0.50	<0.50	<0.50	<1.00	<1.00
03U031	11-Oct-89	A24	<0.20	<0.20	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U031	24-Apr-90	A26	<0.50	2.60	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U026	01-May-90	F26	<1.30	42.30	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U026	19-Jul-90	F27	<1.30	55.80	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U026	21-Sep-90	F28	<1.30	92.00	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U026	29-Mar-91	F30	<2.60	80.00	<2.00	<2.00	<6.40	<0.82	<1.70	<17.00
03U027	20-Nov-87	F16	<5.50	<2.00	<3.10	<22.00	<9.00			
03U027	13-Jan-88	A17		2.50						
03U027	11-May-88	A18		0.95						
03U027	08-Aug-88	A19		1.10						
03U027	16-Aug-88	F19		1.90	<1.00			<0.41	<0.87	<8.28
03U027	25-Oct-88	A20		0.65						
03U027	11-Oct-89	A24		2.30						
03U027	25-Apr-90	A26	<0.50	1.70	<0.50		<0.50			
03U027	14-Mar-91	A30	<6.50	<3.60	<5.00	<5.00	<16.00			
03U028	03-Dec-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00			
03U028	22-Aug-88	F19		<7.20	<10.00			<4.10	<8.70	<83.00
03U028	25-Oct-89	A24		<2.00						
03U028	07-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U028	12-Mar-91	M30	<20.00	<10.00	<20.00	<20.00	<50.00	<20.00	<20.00	
03U028	21-Mar-91	A30	<6.50	<3.60	<5.00	<5.00	<16.00			
03U029	03-Dec-87	F16	<220.00	<82.00	<120.00	<900.00	<360.00	<620.00	<680.00	<230.00
03U029	26-Jan-88	A17		8.50						
03U029	17-May-88	A18		<0.20						
03U029	08-Aug-88	A19		1090.00						
03U029	17-Aug-88	F19		<36.00	<50.00			<0.41	<0.87	<8.28
03U029	31-Oct-88	A20		<0.50						
03U029	18-Oct-89	A24		0.50						
03U029	07-May-90	A26	<0.50	0.80	<0.50		<0.50			
03U029	12-Mar-91	A30	<130.00	<72.00	<100.00	<100.00	<320.00			
03U030	03-Dec-87	F16	<2.20	<0.82	<1.20	<9.00	<3.60			
03U030	26-Jan-88	A17		<0.20						
03U030	18-May-88	A18		<0.20						
03U030	08-Aug-88	A19		<0.20						
03U030	22-Aug-88	F19		<0.72	<1.00			2.47	1.04	<8.28
03U030	01-Nov-88	A20		<0.50						
03U030	25-Oct-89	A24		<0.20						
03U030	07-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U030	21-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U031	18-Jan-88	A17		<0.20						
03U031	10-May-88	A18		<0.20						
03U031	29-Jul-88	A19		<0.20						
03U031	10-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U031	20-Oct-88	A20		<0.50						
03U031	11-Oct-89	A24		<0.20						
03U031	24-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U031	18-Mar-91	A30	<1.00	1.20	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U032	20-Nov-87	F16	<8.80	15.00	<4.90	<5.60			<15.00	16.00	<9.90	<7.20	<5.10
03U032	08-Apr-88	F18	<1.00	2.99	<1.00	<0.50			<1.90	9.60	<1.00		<0.50
03U032	22-Aug-88	F19	<1.00	37.90	<1.00	<0.50			<1.90	25.50	<1.00		<0.50
03U032	01-May-90	F26	<1.00	19.20	4.19	<0.50			<1.90	69.70	<1.00	<0.78	<0.50
03U032	18-Jul-90	F27	<1.00	8.65	1.98	<0.50			<1.90	23.10	<1.00	<0.78	<0.50
03U032	21-Sep-90	F28	<1.00	7.09	1.68	<0.50			<1.90	20.00	<1.00	0.85	<0.50
03U032	26-Mar-91	F30	<1.00	4.07	<1.00	<0.50			<1.90	7.92	<1.00	<0.78	<0.50
03U032	04-Jun-91	F31	<1.00	2.96	<1.00	<0.50			<1.90	5.09	<1.00	<0.78	<0.50
03U032	04-Jun-91	F31											
03U032	04-Jun-91	F31											
03U032	04-Sep-91	F32	<1.00	2.28	<1.00	<0.50			<1.90	3.50	<1.00	<0.78	<0.50
03U032 (4)	04-Sep-91	F32	<1.00	2.51	<1.00	<0.50			<1.90	3.36	<1.00	<0.78	<0.50
03U073	15-Jan-88	A17	30.00	1130.00	57.00		102.00	<0.20	<0.20	24.00	<0.20	66.00	<0.20
03U075	10-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U075	18-Aug-88	F19	<1.00	1.04	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U075	20-Jul-90	A27	<1.00	<0.50	<0.30		<0.50	<0.30	<1.50	<0.50	<1.00	<0.20	<0.20
03U075	18-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U076	10-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U076	18-Aug-88	F19	<1.00	1.03	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U077	19-Jan-88	A17	<0.20	25.00	5.40		0.31	<0.20	<0.20	31.00	<0.20	2.20	<0.20
03U077	09-May-88	A18	0.33	27.00	1.80		<0.20	<0.20	<0.20	22.00	<0.20	0.89	<0.20
03U077	03-Aug-88	A19	<0.20	6.90	<0.20		<0.20	<0.20	<0.20	12.00	<0.20	0.86	<0.20
03U077	21-Oct-88	A20	<0.50	9.90	1.20		<0.50	<0.50	<0.50	8.90	<0.50	1.90	<0.10
03U077	16-Oct-89	A24	<20.00	3000.00	360.00		<20.00	<20.00	<100.00	1600.00	<20.00	<20.00	<20.00
03U077	24-Apr-90	A26	24.00	6500.00	490.00		8.60	<0.50	<0.50	2000.00	1.60	28.00	5.40
03U077	07-Mar-91	A30	<250.00	5900.00	<250.00	<130.00		<75.00	<480.00	1300.00	<250.00	<200.00	<130.00
03U078	23-Nov-87	F16	27.00	100.00	<4.90	8.30			<15.00	<8.10	<9.90	<7.20	<5.10
03U078	14-Jan-88	A17	47.00	150.00	5.70		30.00	<0.20	<0.20	<0.20	<0.20	4.10	<0.20
03U078	13-May-88	A18	33.00	130.00	3.60		11.00	<0.20	<0.20	16.00	<0.20	1.30	<0.20
03U078	03-Aug-88	A19	20.00	68.00	0.54		9.30	<0.20	<0.20	11.00	<0.20	0.39	<0.20
03U078	18-Aug-88	F19	22.30	49.80	1.44	12.30			<1.90	8.44	<1.00		<0.50
03U078	16-Oct-89	A24	34.00	170.00	7.40		15.00	<1.00	<5.00	25.00	<1.00	1.90	<1.00
03U078	30-Apr-90	A26	24.00	120.00	3.20		4.60	<0.50	<0.50	11.00	<0.50	1.20	<0.50
03U078	13-Mar-91	A30	24.00	110.00	<5.00	<2.50		<1.50	<9.50	13.00	<5.00	<3.90	<2.50
03U079	04-Dec-87	F16	<440.00	7000.00	<240.00	<280.00			<750.00	<400.00	<500.00	<360.00	<260.00
03U079	14-Jan-88	A17	<10.00	10350.00	<10.00		380.00	<10.00	<10.00	41.00	<10.00	24.00	<10.00
03U079	09-May-88	A18	<2.00	2900.00	<2.00		62.00	<2.00	<2.00	11.00	<2.00	6.80	<2.00
03U079	03-Aug-88	A19	0.73	8400.00	8.30		564.00	2.10	<0.20	31.00	1.20	18.00	<0.20
03U079	18-Aug-88	F19	<1.00	11000.00	13.00	290.00			<1.90	28.70	<1.00		<0.50
03U079	26-Oct-88	A20	<0.50	5800.00	14.00		198.00	<0.50	<0.50	84.00	1.10	17.00	1.10
03U079	16-Oct-89	A24	<20.00	2300.00	28.00		<20.00	<20.00	<100.00	86.00	<20.00	<20.00	<20.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U031	18-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U032	20-Nov-87	F16	<11.00	<4.10	<6.20	<45.00	<18.00	<3.09	<3.39	<1.17
03U032	08-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U032	22-Aug-88	F19		<0.72	<1.00			<0.41	1.00	<8.28
03U032	01-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U032	18-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U032	21-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	0.63	<0.87	<8.28
03U032	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	0.55	<0.87	<8.28
03U032	04-Jun-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20	0.65	<0.87	<8.28
03U032	04-Jun-91	F31						<0.41	<0.87	<8.28
03U032	04-Jun-91	F31						<0.41	<0.87	<8.28
03U032	04-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U032 (4)	04-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U073	15-Jan-88	A17		<0.20						
03U075	10-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U075	18-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U075	20-Jul-90	A27		<0.50						
03U075	18-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U076	10-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U076	18-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U077	19-Jan-88	A17	0.64	1.30						
03U077	09-May-88	A18		0.86						
03U077	03-Aug-88	A19		<0.20						
03U077	21-Oct-88	A20		<0.50						
03U077	16-Oct-89	A24		<20.00						
03U077	24-Apr-90	A26	10.00	<0.50	<0.50		5.30			
03U077	07-Mar-91	A30	<300.00	<180.00	<250.00	<250.00	<800.00			
03U078	23-Nov-87	F16	<11.00	<4.10	<6.20	<45.00	<18.00	<3.09	<3.39	<1.17
03U078	14-Jan-88	A17		4.10						
03U078	13-May-88	A18		1.90						
03U078	03-Aug-88	A19		<0.20						
03U078	18-Aug-88	F19		3.11	<1.00			<0.41	2.54	<8.28
03U078	16-Oct-89	A24		3.70						
03U078	30-Apr-90	A26	<0.50	4.00	<0.50		<0.50			
03U078	13-Mar-91	A30	<6.50	<3.60	<5.00	<5.00	<16.00			
03U079	04-Dec-87	F16	<50.00	<200.00	<310.00	<2200.00	<900.00	<620.00	<680.00	<230.00
03U079	14-Jan-88	A17		<10.00						
03U079	09-May-88	A18		<2.00						
03U079	03-Aug-88	A19		<0.20						
03U079	18-Aug-88	F19		2.68	<1.00			<0.41	<0.87	<8.28
03U079	26-Oct-88	A20		11.00						
03U079	16-Oct-89	A24		<20.00						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEB	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U079	01-May-90	A26	<0.50	1900.00	39.00		<0.50	<0.50	<0.50	110.00	3.40	18.00	<0.50
03U079	13-Mar-91	A30	<0.00	1100.00	<0.00	32.00		<15.00	<95.00	88.00	<50.00	<39.00	<25.00
03U079	13-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U082	26-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U082	26-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U083	10-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U083	27-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U083	26-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U084	23-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U084	18-Jan-88	A17	<0.20	1.40	<0.20		<0.20	<0.20	<0.20	0.51	<0.20	<0.20	<0.20
03U084	11-May-88	A18	<0.20	7.20	<0.20		<0.20	<0.20	<0.20	2.70	<0.20	<0.20	<0.20
03U084	04-Aug-88	A19	<0.20	2.00	<0.20		<0.20	<0.20	<0.20	0.28	<0.20	<0.20	<0.20
03U084	20-Oct-88	A20	<0.50	<0.50	<0.50		<0.50	<1.00	<0.50	<0.50	<0.50	<1.00	<1.00
03U084	11-Oct-89	A24	<0.20	5.70	<0.20		<0.20	<0.20	<1.00	0.90	<0.20	<0.20	<0.20
03U084	26-Apr-90	A26	<0.50	2.40	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03U084	13-Mar-91	A30	<1.00	0.91	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U087	20-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U087	26-Jan-88	A17	<0.20	6.00	<0.20		<0.20	<0.20	<0.20	0.81	<0.20	<0.20	<0.20
03U087	11-Apr-88	F18	<1.00	0.90	<1.00	<0.50		<0.20	<1.90	<1.00	<1.00	<0.20	<0.50
03U087	18-May-88	A18	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U087	29-Jul-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U087	24-Aug-88	F19	<1.00	1.67	<1.00	<0.50		<0.20	<1.90	<1.00	<1.00	<0.20	<0.50
03U087	28-Oct-88	A20	<0.50	0.84	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03U087	17-Nov-88	F20	<1.00	1.41	<1.00	<0.50		<0.20	<1.90	<1.00	<1.00	<0.20	<0.50
03U087	24-Oct-89	A24	<0.20	5.20	<0.20		<0.20	<0.20	<1.00	0.30	<0.20	<0.20	<0.20
03U087	27-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U088	17-Nov-87	F16											
03U088	05-Apr-88	F18	1.34	5.86	<1.00	<0.50			<1.90	1.57	<1.00		<0.50
03U088	08-Aug-88	F19	4.16	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U088	16-Nov-88	F20	3.87	0.55	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U088	30-Apr-90	F26	2.94	0.67	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U088	26-Mar-91	F30	1.67	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U089	20-Nov-87	F16	0.91	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U089	05-Apr-88	F18	2.08	1.68	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U089	08-Aug-88	F19	2.00	0.95	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U089	17-Nov-88	F20	1.58	1.20	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U089	30-Apr-90	F26	1.83	1.19	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U089	26-Mar-91	F30	2.12	0.81	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U090	19-Nov-87	F16	<0.88	6.17	<0.49	9.45			<1.50	1.95	<0.99	<0.72	<0.51
03U090	06-Apr-88	F18	<1.00	1.15	<1.00	8.51			<1.90	2.17	<1.00		<0.50
03U090	16-Aug-88	F19	<1.00	0.66	<1.00	10.40			<1.90	1.59	<1.00		<0.50
03U090	18-Nov-88	F20	<1.00	0.75	<1.00	11.20			<1.90	2.08	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U079	01-May-90	A26	1.30	1.50	<0.50		<0.50			
03U079	13-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03U079	13-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U082	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U082	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U083	10-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U083	27-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	1.25	5.26	<8.28
03U083	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U084	23-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U084	18-Jan-88	A17		<0.20						
03U084	11-May-88	A18		<0.20						
03U084	04-Aug-88	A19		<0.20						
03U084	20-Oct-88	A20		<0.50						
03U084	11-Oct-89	A24		<0.20						
03U084	26-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03U084	13-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U087	20-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U087	26-Jan-88	A17		<0.20						
03U087	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U087	18-May-88	A18		<0.20						
03U087	29-Jul-88	A19		<0.20						
03U087	24-Aug-88	F19		<0.72	<1.00					
03U087	28-Oct-88	A20		<0.50						
03U087	17-Nov-88	F20		<0.72	<1.00					
03U087	24-Oct-89	A24		<0.20						
03U087	27-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U088	17-Nov-87	F16						<3.09	<3.39	<1.17
03U088	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U088	08-Aug-88	F19		<0.72	<1.00					
03U088	16-Nov-88	F20		<0.72	<1.00					
03U088	30-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U088	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U089	20-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U089	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U089	08-Aug-88	F19		<0.72	<1.00					
03U089	17-Nov-88	F20		<0.72	<1.00					
03U089	30-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U089	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U090	19-Nov-87	F16	<1.10	2.83	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U090	06-Apr-88	F18		10.30	<1.00			<0.41	<0.87	<8.28
03U090	16-Aug-88	F19		3.33	<1.00			<0.41	<0.87	<8.28
03U090	18-Nov-88	F20		4.72	<1.00			<0.41	1.33	<8.28

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U090	01-May-90	F26	<1.00	0.97	<1.00	3.95			<1.90	9.57	<1.00	<0.78	<0.50
03U090	19-Jul-90	F27	<1.00	0.70	1.26	3.03			<1.90	21.90	<1.00	<0.78	<0.50
03U090	(4) 19-Jul-90	F27	<1.00	<0.50	1.15	2.85			<1.90	23.30	<1.00	<0.78	<0.50
03U090	26-Mar-91	F30	<1.00	2.14	1.59	8.86			<1.90	37.60	<1.00	<0.78	<0.50
03U092	23-Nov-87	F16	<0.88	13.80	0.63	<0.56			<1.50	16.50	<0.99	<0.72	<0.51
03U092	08-Apr-88	F18	<1.00	21.50	3.24	<0.50			<1.90	29.60	<1.00		<0.50
03U092	25-Aug-88	F19	<1.00	8.32	<1.00	<0.50			<1.90	17.70	<1.00		<0.50
03U092	16-Nov-88	F20	<1.00	12.10	1.21	<0.50			<1.90	24.90	<1.00		<0.50
03U092	01-May-90	F26	<1.00	200.00	25.00	<0.50			<1.90	390.00	<1.00	2.18	<0.50
03U092	29-Mar-91	F30	<1.00	36.10	2.79	<0.50		<0.30	<1.90	30.40	<1.00	1.33	<0.50
03U092	04-Jun-91	F31											
03U092	04-Jun-91	F31	<1.00	36.20	2.14	<0.50			<1.90	22.50	<1.00	<0.78	<0.50
03U092	04-Sep-91	F32	<1.00	27.20	1.56	<0.50			<1.90	19.80	<1.00	<0.78	<0.50
03U093	04-Dec-87	F16	<8800.00	79000.00	<4900.00	<5600.00			<15000.00	9300.00	<9900.00	<7200.00	<5100.00
03U093	26-Jan-88	A17	<0.20	34200.00	405.00		197.00	44.00	<0.20	7670.00	24.00	38.00	<0.20
03U093	18-May-88	A18	3.40	65400.00	1630.00		420.00	<0.20	<0.20	16250.00	25.00	292.00	41.00
03U093	08-Aug-88	A19	17.00	35000.00	600.00		31.00	<0.20	<0.20	7750.00	16.00	180.00	24.00
03U093	17-Aug-88	F19	<200.00	30000.00	480.00	630.00			<80.00	8700.00	<200.00		<100.00
03U093	01-Nov-88	A20	58.00	33000.00	300.00		440.00	3.40	<0.50	8000.00	14.00	60.00	50.00
03U093	19-Oct-89	A24	<100.00	43000.00	1800.00		360.00	<100.00	<500.00	13000.00	<100.00	<100.00	<100.00
03U093	02-May-90	A26	15.00	40000.00	740.00		280.00	1.30	<0.50	7800.00	25.00	60.00	<0.50
03U093	18-Jul-90	A27	<500.00	30000.00	780.00		300.00	<150.00	<750.00	7200.00	<500.00	<100.00	<100.00
03U093	(4) 18-Jul-90	A27	<500.00	30000.00	760.00		280.00	<150.00	<750.00	7100.00	<500.00	<100.00	<100.00
03U093	15-Mar-91	A30	<500.00	8600.00	<500.00	<250.00		<150.00	<950.00	2000.00	<500.00	<390.00	<250.00
03U093	05-Jun-91	A31	<200.00	4300.00	<200.00	<100.00		<60.00	<80.00	840.00	<200.00	<160.00	<100.00
03U093	05-Sep-91	A32	<250.00	3800.00	<250.00	<130.00		<75.00	<480.00	1000.00	<250.00	<200.00	<130.00
03U094	04-Dec-87	F16	<880.00	18000.00	<490.00	2300.00			<1500.00	9100.00	<990.00	830.00	<510.00
03U094	25-Aug-88	F19	<200.00	6900.00	<200.00	1200.00			<80.00	5600.00	<200.00		<100.00
03U094	20-Mar-91	A30	<250.00	7500.00	770.00	<130.00		<75.00	<480.00	5400.00	<250.00	<200.00	<130.00
03U096	04-Dec-87	F16	<180.00	1200.00	<100.00	<110.00			<300.00	830.00	<200.00	<140.00	<100.00
03U096	25-Aug-88	F19	<50.00	2300.00	110.00	<25.00			<95.00	2500.00	<50.00		<25.00
03U096	19-Jul-90	A27	<10.00	630.00	90.00		<5.00	<3.00	<15.00	650.00	<10.00	2.40	<2.00
03U096	18-Mar-91	A30	<20.00	690.00	24.00	<10.00		<6.00	<38.00	600.00	<20.00	<16.00	<10.00
03U097	20-Nov-87	F16	<0.88	8.85	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U097	07-Apr-88	F18	<1.00	0.73	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U097	11-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U097	17-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U097	27-Apr-90	F26	1.00	1.81	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U097	26-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U097	26-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U099	19-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U099	11-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U099	27-Jul-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TKYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U090	01-May-90	F26	<1.30	4.59	<1.00	<1.00	<3.20	<0.41	2.08	<8.28
03U090	19-Jul-90	F27	<1.30	3.78	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U090	(4) 19-Jul-90	F27	<1.30	3.61	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U090	26-Mar-91	F30	<1.30	2.68	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U092	23-Nov-87	F16	<1.10	1.13	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U092	08-Apr-88	F18		3.85	<1.00			<0.41	<0.87	<8.28
03U092	25-Aug-88	F19		6.07	<1.00			<0.41	<0.87	<8.28
03U092	16-Nov-88	F20		4.40	<1.00			2.43	31.20	13.30
03U092	01-May-90	F26	<1.30	6.42	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U092	29-Mar-91	F30	<1.30	15.30	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U092	04-Jun-91	F31						<0.41	<0.87	<8.28
03U092	04-Jun-91	F31	<1.30	19.40	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U092	04-Sep-91	F32	<1.30	15.20	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U093	04-Dec-87	F16	<11000.00	<4100.00	<6200.00	<45000.00	<18000.00	<15000.00	<17000.00	<800.00
03U093	26-Jan-88	A17		<0.20						
03U093	18-May-88	A18		29.00						
03U093	08-Aug-88	A19		14.00						
03U093	17-Aug-88	F19		<140.00	<200.00			<82.00	17.20	<8.28
03U093	01-Nov-88	A20		23.00						
03U093	19-Oct-89	A24		<100.00						
03U093	02-May-90	A26	<0.50	18.00	<0.50		260.00			
03U093	18-Jul-90	A27		<250.00						
03U093	(4) 18-Jul-90	A27		<250.00						
03U093	15-Mar-91	A30	<650.00	<360.00	<500.00	<500.00	<1600.00			
03U093	05-Jun-91	A31	<260.00	<140.00	<200.00	<200.00	<640.00			
03U093	05-Sep-91	A32	<330.00	<180.00	<250.00	<250.00	<800.00			
03U094	04-Dec-87	F16	<1100.00	<410.00	<620.00	<4500.00	<1800.00	<1500.00	<1700.00	<580.00
03U094	25-Aug-88	F19		<140.00	<200.00			<82.00	<170.00	<1700.00
03U094	20-Mar-91	A30	<330.00	<180.00	<250.00	<250.00	<800.00			
03U096	04-Dec-87	F16	<220.00	<82.00	<120.00	<900.00	<360.00	<620.00	<680.00	<230.00
03U096	25-Aug-88	F19		<36.00	<50.00			<21.00	<44.00	<410.00
03U096	19-Jul-90	A27		<5.00						
03U096	18-Mar-91	A30	<26.00	<14.00	<20.00	<20.00	<64.00			
03U097	20-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U097	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U097	11-Aug-88	F19		<0.72	<1.00					
03U097	17-Nov-88	F20		<0.72	<1.00					
03U097	27-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U097	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U097	26-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U099	19-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U099	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U099	27-Jul-88	A19		<0.20						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCL/EE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U099	12-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U099	17-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U099	26-Apr-90	F26	<1.00	1.14	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U099	25-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U111	20-Nov-87	F16	<0.88	3.98	<0.49	<0.56			<1.50	0.85	<0.99	<0.72	<0.51
03U111	07-Apr-88	F18	<1.00	1.41	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U111	11-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U111	17-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U112	20-Nov-87	F16	<2.20	35.00	<1.20	<1.40			<3.80	11.00	<2.50	<1.80	<1.30
03U112	08-Apr-88	F18	<1.00	29.10	1.60	<0.50			<1.90	25.20	<1.00		<0.50
03U112	16-Aug-88	F19	<1.00	43.60	2.16	<0.50			<1.90	25.20	<1.00		<0.50
03U112	18-Nov-88	F20	<1.00	27.70	<1.00	<0.50			<1.90	21.00	<1.00		<0.50
03U112	01-May-90	F26	<1.00	40.70	<1.00	<0.50			<1.90	12.60	<1.00	<0.78	<0.50
03U112	18-Jul-90	F27	<1.00	43.00	<1.00	<0.50			<1.90	8.28	<1.00	<0.78	<0.50
03U112	20-Sep-90	F28	<1.00	39.80	<1.00	0.64			<1.90	6.49	<1.00	<0.78	<0.50
03U112	28-Mar-91	F30	<1.00	46.20	<1.00	<0.50			<1.90	3.85	<1.00	<0.78	<0.50
03U113	18-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U113	06-Apr-88	F18	<1.00	0.68	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U113	09-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U113	18-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U113	27-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U113	18-Jul-90	F27	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U113	28-Mar-91	F30	<1.00	0.82	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U114	23-Nov-87	F16	<44.00	150.00	29.00	<28.00			<75.00	860.00	<50.00	<36.00	<26.00
03U114	11-Apr-88	F18	<1.00	110.00	66.00	<0.50			<1.90	680.00	<1.00		<0.50
03U114	09-Aug-88	F19	<10.00	240.00	120.00	<5.00			<19.00	1100.00	<10.00		<5.00
03U114	16-Nov-88	F20	<20.00	260.00	95.00	<10.00			<38.00	1200.00	<20.00		<10.00
03U114	01-May-90	F26	<50.00	350.00	100.00	<25.00			<95.00	1400.00	<50.00	<39.00	<25.00
03U114	18-Jul-90	F27	<1.00	210.00	81.00	<0.50			<1.90	980.00	<1.00	<0.78	<0.50
03U114	21-Sep-90	F28	<1.00	230.00	<1.00	<0.50			<1.90	1100.00	<1.00	<0.78	<0.50
03U114	29-Mar-91	F30	<5.00	70.00	23.00	<2.50	<7.50		<9.50	300.00	<5.00	<3.90	<2.50
03U114	04-Jun-91	F31	<1.00	53.00	24.10	<0.50			<1.90	290.00	<1.00	<0.78	<0.50
03U114	04-Jun-91	F31											
03U114	04-Sep-91	F32	<1.00	55.00	13.60	<0.50			<1.90	165.00	<1.00	<0.78	<0.50
03U121	08-Dec-87	F16	<0.88	5.51	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U121	08-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U121	16-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U121	18-Nov-88	F20	<1.00	12.20	1.63	<0.50			<1.90	61.60	<1.00		<0.50
03U121	01-May-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U121	18-Jul-90	F27	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U121	17-Sep-90	F28	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U121	28-Mar-91	F30	<1.00	0.62	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U124	08-Apr-88	F18	<1.00	13.60	3.28	<0.50			<1.90	57.00	<1.00		<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MBC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U099	12-Aug-88	F19		<0.72	<1.00					
03U099	17-Nov-88	F20		<0.72	<1.00					
03U099	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	0.63	2.67	<8.28
03U099	25-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U111	20-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U111	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U111	11-Aug-88	F19		<0.72	<1.00					
03U111	17-Nov-88	F20		<0.72	<1.00					
03U112	20-Nov-87	F16	<2.80	8.60	<1.60	<11.00	<4.50	<3.09	<3.39	<1.17
03U112	08-Apr-88	F18		19.60	<1.00			<0.41	<0.87	<8.28
03U112	16-Aug-88	F19		27.90	<1.00			<0.41	<0.87	<8.28
03U112	18-Nov-88	F20		17.70	<1.00			<0.41	3.69	<8.28
03U112	01-May-90	F26	<1.30	40.30	<1.00	<1.00	<3.20	0.88	3.90	<8.28
03U112	18-Jul-90	F27	<1.30	39.20	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U112	20-Sep-90	F28	<1.30	41.30	<1.00	<1.00	<3.20			
03U112	28-Mar-91	F30	<1.30	42.80	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U113	18-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U113	06-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U113	09-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U113	18-Nov-88	F20		<0.72	<1.00			<0.41	4.06	<8.28
03U113	27-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	2.15	10.20	<8.28
03U113	18-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U113	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U114	23-Nov-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00	<3.09	<3.39	<1.17
03U114	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U114	09-Aug-88	F19		<7.20	<10.00			<0.41	<0.87	<8.28
03U114	16-Nov-88	F20		<14.00	<20.00			<8.20	20.00	<170.00
03U114	01-May-90	F26	<65.00	<36.00	<50.00	<50.00	<160.00	<21.00	<44.00	<410.00
03U114	18-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U114	21-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U114	29-Mar-91	F30	<6.50	<3.60	<5.00	<5.00	<16.00	<2.10	<4.40	<41.00
03U114	04-Jun-91	F31	2.34	1.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U114	04-Jun-91	F31						<0.41	<0.87	<8.28
03U114	04-Sep-91	F32	2.42	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U121	08-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U121	08-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U121	16-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U121	18-Nov-88	F20		<0.72	<1.00			<0.41	1.88	<8.28
03U121	01-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	1.32	4.83	<8.28
03U121	18-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U121	17-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
03U121	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U124	08-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U124	18-Aug-88	F19	<1.00	31.40	4.28	<0.50			<1.90	130.00	<1.00		<0.50
03U124	27-Apr-90	F26	<1.00	0.56	<1.00	<0.50			<1.90	11.40	<1.00	<0.78	<0.50
03U124	19-Jul-90	F27	<1.00	0.84	<1.00	<0.50			<1.90	7.21	<1.00	<0.78	<0.50
03U124	19-Jul-90	F27	<1.00	0.70	<1.00	<0.50			<1.90	10.50	<1.00	<0.78	<0.50
03U124	25-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	4.54	<1.00	<0.78	<0.50
03U124	25-Mar-91	M30	<0.20	0.30	<0.50		<0.20	<0.10	<1.00	3.40	<0.20	<0.20	<0.20
03U124	04-Jun-91	F31	<1.00	1.29	<1.00	<0.50			<1.90	8.38	<1.00	<0.78	<0.50
03U129	08-Dec-87	F16	<0.88	2.49	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U129	07-Apr-88	F18	<1.00	1.44	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U129	11-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U129	18-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U301	16-Mar-89	A21	<1.00	2755.00	11.00		225.00	4.70	<1.00	88.00	<1.00	7.60	<1.00
03U301	20-Apr-89	A22	0.60	1100.00	18.00		160.00	1.10	<1.00	25.00	0.30	4.00	<0.20
03U301	19-Jul-89	A23	<5.00	1100.00	18.00		160.00	<5.00	<25.00	61.00	<5.00	<5.00	<5.00
03U301	24-Oct-89	A24	<40.00	3000.00	<40.00		200.00	<40.00	<200.00	120.00	<40.00	<40.00	<40.00
03U301	18-Jan-90	A25	<10.00	1700.00	<10.00		160.00	<10.00	<50.00	99.00	<10.00	<10.00	<10.00
03U301	08-May-90	A26	<0.50	57.00	<0.50		4.60	<0.50	<0.50	2.20	<0.50	<0.50	<0.50
03U301	13-Jul-90	A27	<20.00	1200.00	8.20		99.00	<6.00	<30.00	62.00	<20.00	<4.00	<4.00
03U301	19-Dec-90	A29	<1.00	1276.82	<1.00	85.51			<1.90	<1.00	<1.00	<0.78	<0.50
03U301	19-Dec-90	M29	<20.00	1200.00	<50.00		100.00	<10.00	<100.00	50.00	<20.00	<20.00	<20.00
03U301	19-Mar-91	A30	<50.00	1100.00	<50.00	82.00		<15.00	<95.00	72.00	<50.00	<39.00	<25.00
03U301	04-Jun-91	A31	<5.00	1000.00	<5.00	93.00		<1.50	<9.50	57.00	<5.00	<3.90	<2.50
03U301	04-Jun-91	M31	<4.00	1000.00	<10.00		14.00	<2.00	<20.00	54.00	<4.00	<4.00	<4.00
03U301	05-Sep-91	A32	<50.00	1200.00	<50.00	71.00		<15.00	<95.00	<50.00	<50.00	<39.00	<25.00
03U301	05-Sep-91	A32	<1.00	9.14	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U314	05-Jan-89	A21	<1.00	37000.00	850.00		4700.00	12.00	16.00	10500.00	19.00	3600.00	59.00
03U314	16-Mar-89	A21	12.00	12000.00	370.00		1000.00	<100.00	<10.00	6200.00	11.00	950.00	<10.00
03U314	20-Apr-89	A22	3.00	11000.00	630.00		610.00	2.40	3.50	3400.00	8.30	530.00	19.00
03U314	19-Jul-89	A23	<40.00	8900.00	870.00		730.00	<40.00	<200.00	3500.00	<40.00	510.00	<40.00
03U314	24-Oct-89	A24	<100.00	8600.00	<100.00		<100.00	<100.00	<500.00	3500.00	<100.00	<100.00	<100.00
03U314	19-Jan-90	A25	<50.00	6500.00	190.00		540.00	<50.00	<250.00	2700.00	<50.00	410.00	<50.00
03U314	08-May-90	A26	1.60	6500.00	350.00		340.00	1.40	<0.50	2200.00	4.80	300.00	8.40
03U314	19-Jul-90	A27	<100.00	6300.00	300.00		460.00	<30.00	<150.00	2500.00	<100.00	360.00	<20.00
03U314	19-Dec-90	A29	<1.00		<1.00	311.55		<1.00	<1.90	2080.33	<1.00	267.65	<0.50
03U314	19-Dec-90	M29	<20.00	5800.00	160.00		350.00	<10.00	<100.00	2300.00	<20.00	290.00	<20.00
03U314	19-Mar-91	A30	<200.00	5800.00	<200.00	200.00		<60.00	<380.00	2300.00	<200.00	190.00	<100.00
03U314	19-Mar-91	A30	<200.00	5800.00	<200.00	210.00		<60.00	<380.00	2300.00	<200.00	190.00	<100.00
03U314	05-Jun-91	A31	<200.00	6000.00	<200.00	200.00		<60.00	<380.00	2300.00	<200.00	190.00	<100.00
03U314	05-Sep-91	A32	<250.00	5400.00	<250.00	170.00		<75.00	<480.00	1900.00	<250.00	<200.00	<130.00
03U315	05-Jan-89	A21	<1.00	58.00	5.60		<1.00	<1.00	<1.00	65.00	<1.00	5.60	<1.00
03U315	16-Mar-89	A21	<10.00	870.00	58.00		<10.00	<10.00	<10.00	610.00	<10.00	44.00	32.00
03U315	20-Apr-89	A22	<0.20	1300.00	100.00		<0.20	<0.20	<1.00	490.00	<0.20	45.00	<0.20
03U315	19-Jul-89	A23	<4.00	940.00	150.00		15.00	<4.00	<20.00	620.00	<4.00	51.00	<4.00
03U315	24-Oct-89	A24	<10.00	1700.00	160.00		<10.00	<10.00	<50.00	890.00	<10.00	58.00	<10.00
03U315	19-Jan-90	A25	<20.00	2100.00	75.00		37.00	<20.00	<100.00	1000.00	<20.00	95.00	<20.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U124	18-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
03U124	27-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U124	19-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U124	(4) 19-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U124	25-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U124	25-Mar-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
03U124	04-Jun-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U129	08-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U129	07-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U129	11-Aug-88	F19		<0.72	<1.00					
03U129	18-Nov-88	F20		<0.72	<1.00					
03U301	16-Mar-89	A21		<5.00						
03U301	20-Apr-89	A22		0.40						
03U301	19-Jul-89	A23		<5.00						
03U301	24-Oct-89	A24		<40.00						
03U301	18-Jan-90	A25		<10.00						
03U301	08-May-90	A26	<0.50	<0.50	<0.50		0.90			
03U301	13-Jul-90	A27	<6.00	<10.00	<4.00		<20.00			
03U301	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03U301	19-Dec-90	M29	<20.00	<10.00	<20.00	<20.00	<50.00	<20.00	<20.00	
03U301	19-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03U301	04-Jun-91	A31	<6.50	<3.60	<5.00	<5.00	<16.00			
03U301	04-Jun-91	M31	<4.00	<2.00	<4.00	<4.00	<10.00	<4.00	<4.00	
03U301	05-Sep-91	A32	<65.00	<36.00	<50.00	<50.00	<160.00			
03U301	05-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03U314	05-Jan-89	A21		10.00						
03U314	16-Mar-89	A21		<10.00						
03U314	20-Apr-89	A22		1.70						
03U314	19-Jul-89	A23		<40.00						
03U314	24-Oct-89	A24		<100.00						
03U314	19-Jan-90	A25		<50.00						
03U314	08-May-90	A26	<0.50	3.30	<0.50		3.60			
03U314	19-Jul-90	A27		<50.00						
03U314	19-Dec-90	A29	<1.30	<0.72	<1.00	6180.26	<3.20			
03U314	19-Dec-90	M29	<20.00	<10.00	<20.00	<20.00	<50.00	<20.00	<20.00	
03U314	19-Mar-91	A30	<260.00	<140.00	<200.00	<200.00	<640.00			
03U314	19-Mar-91	A30	<260.00	<140.00	<200.00	<200.00	<640.00			
03U314	05-Jun-91	A31	<260.00	<140.00	<200.00	<200.00	<640.00			
03U314	05-Sep-91	A32	<330.00	<180.00	<250.00	<250.00	<800.00			
03U315	05-Jan-89	A21		<1.00						
03U315	16-Mar-89	A21		11.00						
03U315	20-Apr-89	A22		0.90						
03U315	19-Jul-89	A23		<4.00						
03U315	24-Oct-89	A24		<10.00						
03U315	19-Jan-90	A25		<20.00						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U315	08-May-90	A26	<0.50	2100.00	65.00		30.00	<0.50	<0.50	850.00	<0.50	64.00	<0.50
03U315	13-Jul-90	A27	<20.00	2100.00	130.00		39.00	<6.00	<30.00	1100.00	<20.00	94.00	<4.00
03U315	19-Dec-90	A29	<1.00	1298.28	<1.00	<0.50		<1.90		487.13	<1.00	51.26	<0.50
03U315	19-Mar-91	A30	<25.00	940.00	30.00	<13.00		<7.50	<48.00	390.00	<25.00	29.00	<13.00
03U315	05-Jun-91	A31	<25.00	830.00	43.00	<13.00		<7.50	<48.00	330.00	<25.00	24.00	<13.00
03U315	05-Sep-91	A32	<25.00	700.00	<25.00	<13.00		<7.50	<48.00	250.00	<25.00	<20.00	<13.00
03U316	05-Jan-89	A21	<1.00	<1.00	1.60		<1.00	<1.00	<1.00	14.00	<1.00	3.50	<1.00
03U316	16-Mar-89	A21	<1.00	2.90	3.20		<1.00	<1.00	<1.00	31.00	<1.00	1.70	<1.00
03U316	20-Apr-89	A22	<0.20	4.90	4.90		<0.20	<0.20	<1.00	28.00	<0.20	2.50	<0.20
03U316	19-Jul-89	A23	<0.20	4.20	9.20		<0.20	<0.20	<1.00	29.00	<0.20	2.10	<0.20
03U316	24-Oct-89	A24	<0.40	5.50	8.70		<0.40	<0.40	<2.00	35.00	<0.40	3.00	<0.40
03U316	19-Jan-90	A25	<0.20	10.00	6.10		<0.20	<0.20	<1.00	29.00	<0.20	5.00	<0.20
03U316	08-May-90	A26	<0.50	11.00	4.20		<0.50	<0.50	<0.50	32.00	<0.50	2.70	<0.50
03U316	13-Jul-90	A27	<1.00	14.00	7.40		<0.50	<0.30	<1.50	38.00	<1.00	4.40	<0.20
03U316	19-Dec-90	A29	<1.00	14.91	3.27	<0.50		<1.90		30.18	<1.00	3.02	<0.50
03U316	19-Mar-91	A30	<1.00	14.30	3.55	<0.50		<0.30	<1.90	25.80	<1.00	2.48	<0.50
03U316	04-Jun-91	A31	<1.00	18.10	3.51	<0.50		<0.30	<1.90	29.50	<1.00	2.63	<0.50
03U316	04-Jun-91	M31	<0.20	13.00	1.30		<0.20	<0.10	<1.00	28.00	<0.20	0.20	<0.20
03U316	05-Sep-91	A32	<1.00	16.60	2.46	<0.50		<0.30	<1.90	23.40	<1.00	2.26	<0.50
03U317	05-Jan-89	A21	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
03U317	16-Mar-89	A21	<10.00	3200.00	66.00		19.00	<10.00	<10.00	1100.00	<10.00	19.00	24.00
03U317	20-Apr-89	A22	13.00	13000.00	660.00		27.00	<0.20	<1.00	2800.00	<0.20	27.00	4.20
03U317	19-Jul-89	A23	<20.00	12000.00	1200.00		66.00	<20.00	<100.00	5800.00	<20.00	47.00	<20.00
03U317	25-Oct-89	A24	<200.00	19000.00	760.00		<200.00	<200.00	<1000.00	7000.00	<200.00	<200.00	<200.00
03U317	19-Jan-90	A25	<200.00	21000.00	<200.00		<200.00	<200.00	<1000.00	7300.00	<200.00	<200.00	<200.00
03U317	08-May-90	A26	18.00	18000.00	210.00		60.00	<0.50	<0.50	5200.00	9.80	53.00	10.00
03U317	13-Jul-90	A27	<200.00	15000.00	720.00		100.00	<60.00	<300.00	7500.00	<200.00	70.00	<40.00
03U317	19-Dec-90	A29	<1.00	18293.99	<1.00	<0.50		<1.90		5252.32	<1.00	<0.78	<0.50
03U317	19-Dec-90	A29	<1.00	16738.20	<1.00	<0.50		<1.90		4974.25	<1.00	<0.78	<0.50
03U317	19-Mar-91	A30	<500.00	16000.00	<500.00	<250.00		<150.00	<950.00	5700.00	<500.00	<390.00	<250.00
03U317	04-Jun-91	A31	<100.00	16000.00	280.00	<50.00		<30.00	<190.00	6200.00	<100.00	<78.00	<50.00
03U317	04-Jun-91	M31	<200.00	16000.00	<500.00		<200.00	<100.00	<1000.00	6400.00	<200.00	<200.00	<200.00
03U317	05-Sep-91	A32	<500.00	23000.00	<500.00	<250.00		<150.00	<950.00	5700.00	<500.00	<390.00	<250.00
03U521	20-Nov-87	F16	<0.88	2.70	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U521	11-Apr-88	F18	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U521	24-Aug-88	F19	<1.00	1.66	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U521	18-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U521	25-Apr-90	F26	<1.00	0.91	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U658	27-Jul-88	A19	<0.20	0.25	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U658	13-Oct-89	A24	<0.20	7.20	<0.20		<0.20	<0.20	<1.00	0.90	<0.20	<0.20	<0.20
03U658	02-May-90	A26	<0.50	7.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03U658	20-Mar-91	A30	<1.00	1.93	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U659	25-Oct-89	A24	<20.00	3600.00	43.00		370.00	<20.00	<100.00	280.00	<20.00	<20.00	<20.00
03U659	07-May-90	A26	<0.50	950.00	8.90		55.00	0.70	<0.50	65.00	<0.50	2.90	<0.50

TABLE 2
TCAAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MBC6H5	Total Xylenes TXYLEN
TCAAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U315	08-May-90	A26	<0.50	0.80	<0.50		1.30			
03U315	13-Jul-90	A27	<6.00	<10.00	<4.00		29.00			
03U315	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03U315	19-Mar-91	A30	<33.00	<18.00	<25.00	<25.00	<80.00			
03U315	05-Jun-91	A31	<33.00	<18.00	<25.00	<25.00	<80.00			
03U315	05-Sep-91	A32	<33.00	<18.00	<25.00	<25.00	<80.00			
03U316	05-Jan-89	A21		1.30						
03U316	16-Mar-89	A21		<1.00						
03U316	20-Apr-89	A22		1.70						
03U316	19-Jul-89	A23		2.00						
03U316	24-Oct-89	A24		0.90						
03U316	19-Jan-90	A25		2.80						
03U316	08-May-90	A26	<0.50	2.60	<0.50		<0.50			
03U316	13-Jul-90	A27	0.90	4.20	<0.20		1.00			
03U316	19-Dec-90	A29	<1.30	3.46	<1.00	<1.00	<3.20			
03U316	19-Mar-91	A30	<1.30	32.30	<1.00	<1.00	<3.20			
03U316	04-Jun-91	A31	<1.30	3.96	<1.00	<1.00	<3.20			
03U316	04-Jun-91	M31	0.40	0.40	<0.20	<0.20	<0.50	<0.20	<0.20	
03U316	05-Sep-91	A32	<1.30	3.23	<1.00	<1.00	<3.20			
03U317	05-Jan-89	A21		<1.00						
03U317	16-Mar-89	A21		<10.00						
03U317	20-Apr-89	A22		1.30						
03U317	19-Jul-89	A23		<20.00						
03U317	25-Oct-89	A24		<200.00						
03U317	19-Jan-90	A25		<200.00						
03U317	08-May-90	A26	<0.50	5.90	<0.50		15.00			
03U317	13-Jul-90	A27	<60.00	<100.00	<40.00		720.00			
03U317	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03U317	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
03U317	19-Mar-91	A30	<650.00	<360.00	<500.00	<500.00	<1600.00			
03U317	04-Jun-91	A31	<130.00	<72.00	<100.00	<100.00	<320.00			
03U317	04-Jun-91	M31	<200.00	<100.00	<200.00	<200.00	<500.00	<200.00	<200.00	
03U317	05-Sep-91	A32	<650.00	<360.00	<500.00	<500.00	<1600.00			
03U521	20-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U521	11-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U521	24-Aug-88	F19		<0.72	<1.00					
03U521	18-Nov-88	F20		<0.72	<1.00					
03U521	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U658	27-Jul-88	A19		<0.20						
03U658	13-Oct-89	A24		<0.20						
03U658	02-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U658	20-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U659	25-Oct-89	A24		<20.00						
03U659	07-May-90	A26	<0.50	<0.50	<0.50		<0.50			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U659	12-Mar-91	A30	<50.00	450.00	<50.00	54.00		<15.00	<95.00	<50.00	<50.00	<39.00	<25.00
03U659	12-Mar-91	M30	<0.50	360.00	2.30		72.00	0.60	<2.50	14.00	<0.50	0.80	<0.50
03U671	04-Dec-87	F16	15.00	280.00	<10.00	<11.00			<30.00	30.00	<20.00	<14.00	<10.00
03U671	22-Jan-88	A17	47.00	341.00	12.00		10.50	<0.20	<0.20	60.00	<0.20	2.10	<0.20
03U671	13-May-88	A18	18.00	266.00	8.70		6.40	<0.20	<0.20	40.00	0.47	2.60	<0.20
03U671	08-Aug-88	A19	40.00	540.00	12.00		11.00	<0.20	<0.20	82.00	0.25	2.80	<0.20
03U671	22-Aug-88	F19	29.00	230.00	9.20	13.00			<9.50	50.00	<5.00		<2.50
03U671	26-Oct-88	A20	15.00	205.00	4.60		4.20	<0.50	<0.50	30.00	<0.50	1.90	<1.00
03U671	16-Oct-89	A24	6.30	130.00	3.80		<1.00	<1.00	<5.00	17.00	<1.00	<1.00	<1.00
03U671	23-Apr-90	A26	6.00	230.00	2.80		0.90	<0.50	<0.50	9.40	1.20	<0.50	<0.50
03U671	19-Mar-91	A30	2.90	58.00	<2.00	<1.00		<0.60	<3.80	4.50	<2.00	<1.60	<1.00
03U672	13-Nov-87	A16	<0.20	0.30	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U672	14-Jan-88	A17	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U672	18-May-88	A18	<0.20	92.00	<0.20		0.25	<0.20	<0.20	9.40	<0.20	<0.20	<0.20
03U672	27-Jul-88	A19	<0.20	5.70	<0.20		<0.20	<0.20	<0.20	0.52	<0.20	0.21	<0.20
03U672	28-Oct-88	A20	<0.50	0.91	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03U672	19-Apr-89	A22	<0.20	1.10	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U672	12-Jul-89	A23	<0.20	1.80	0.90		<0.20	<0.20	<1.00	0.30	<0.20	<0.20	<0.20
03U672	18-Oct-89	A24	<0.20	0.30	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U672	18-Jan-90	A25	<0.20	0.30	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U672	02-May-90	A26	<0.50	11.00	<0.50		0.60	<0.50	<0.50	2.90	<0.50	<0.50	<0.50
03U672	18-Jul-90	A27	<1.00	2.10	<0.300		<0.50		<1.50	0.60	<1.00	<0.20	<0.20
03U672	22-Mar-91	A30	<1.00	1.88	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U672	06-Jun-91	A31	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U672	04-Sep-91	A32	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U673	13-Nov-87	A16	<0.20	0.30	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U673	11-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U673	11-Mar-91	M30	<0.20	1.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
03U673	17-Jun-91	M31	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
03U676	03-Nov-87	A16	5.30	220.00	<1.50		160.00	<1.50	<2.50	74.00	<5.00	11.00	<1.00
03U701	20-Jan-88	A17	15.00	1200.00	86.20		20.00	<0.20	<0.20	258.00	0.67	90.20	0.49
03U701	12-May-88	A18	13.00	635.00	15.00		6.60	<0.20	<0.20	334.00	0.31	10.00	0.72
03U701	02-Aug-88	A19	20.00	1220.00	16.00		16.00	<0.20	<0.20	499.00	0.57	23.00	<0.20
03U701	21-Oct-88	A20	11.00	500.00	10.00		12.00	<0.50	<0.50	110.00	<0.50	20.00	<1.00
03U701	17-Oct-89	A24	5.40	190.00	25.00		<2.00	<2.00	<10.00	130.00	<2.00	<2.00	<2.00
03U701	26-Apr-90	A26	<0.50	160.00	29.00		0.60	<0.50	<0.50	100.00	<0.50	0.70	<0.50
03U701	13-Mar-91	A30	<5.00	80.00	9.20	<2.50		<1.50	<9.50	82.00	<5.00	<3.90	<2.50
03U702	20-Jan-88	A17	0.80	170.00	20.00		0.40	<0.20	<0.20	143.00	<0.20	<0.20	<0.20
03U702	13-May-88	A18	0.54	120.00	6.90		<0.20	<0.20	<0.20	120.00	<0.20	<0.20	<0.20
03U702	08-Aug-88	A19	0.85	365.00	10.00		0.55	<0.20	<0.20	164.00	<0.20	<0.20	1.20
03U702	25-Oct-88	A20	<0.50	80.00	5.70		<0.50	<0.50	<0.50	45.00	<0.50	0.86	<1.00
03U702	13-Oct-89	A24	<0.20	36.00	9.00		<0.20	<0.20	<1.00	27.00	<0.20	0.60	<0.20
03U702	26-Apr-90	A26	<0.50	28.00	<0.50		<0.50	<0.50	<0.50	7.60	<0.50	1.00	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U659	12-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03U659	12-Mar-91	M30	<0.50	<0.30	<0.50	<0.50	<1.30	<0.50	<0.50	
03U671	04-Dec-87	F16	<22.00	<8.20	<12.00	<90.00	<36.00			
03U671	22-Jan-88	A17		12.80						
03U671	13-May-88	A18		4.00						
03U671	08-Aug-88	A19		5.80						
03U671	22-Aug-88	F19		11.00	<5.00			<2.10	<4.40	<41.00
03U671	26-Oct-88	A20		3.10						
03U671	16-Oct-89	A24		<1.00						
03U671	23-Apr-90	A26	<0.50	1.60	<0.50		<0.50			
03U671	19-Mar-91	A30	<2.60	<1.40	<2.00	<2.00	<6.40			
03U672	13-Nov-87	A16		<0.20						
03U672	14-Jan-88	A17		<0.20						
03U672	18-May-88	A18		<0.20						
03U672	27-Jul-88	A19		<0.20						
03U672	28-Oct-88	A20		<0.50						
03U672	19-Apr-89	A22		<0.20						
03U672	12-Jul-89	A23		<0.20						
03U672	18-Oct-89	A24		<0.20						
03U672	18-Jan-90	A25		<0.20						
03U672	02-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U672	18-Jul-90	A27		<0.50						
03U672	22-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U672	06-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03U672	04-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03U673	13-Nov-87	A16		<0.20						
03U673	11-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U673	11-Mar-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
03U673	17-Jun-91	M31	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
03U676	03-Nov-87	A16		<2.50						
03U701	20-Jan-88	A17		258.00						
03U701	12-May-88	A18		0.48						
03U701	02-Aug-88	A19		<0.20						
03U701	21-Oct-88	A20		1.50						
03U701	17-Oct-89	A24		<2.00						
03U701	26-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
03U701	13-Mar-91	A30	<6.50	<3.60	<5.00	<5.00	<16.00			
03U702	20-Jan-88	A17		<0.20						
03U702	13-May-88	A18		<0.20						
03U702	08-Aug-88	A19		0.70						
03U702	25-Oct-88	A20		<0.50						
03U702	13-Oct-89	A24		<0.20						
03U702	26-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEB	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U702	13-Mar-91	A30	<1.00	15.20	<1.00	<0.50		<0.30	<1.90	3.20	<1.00	<0.78	<0.50
03U703	15-Jan-88	A17	30.00	1130.00	57.00		102.00	<2.00	<2.00	24.00	<2.00	66.00	<2.00
03U703	16-May-88	A18	5.90	840.00	30.00		52.00	1.10	<0.20	60.00	<0.20	49.00	<0.20
03U703	04-Aug-88	A19	5.80	632.00	31.00		100.00	0.65	<0.20	81.00	0.43	45.00	<0.20
03U703	24-Oct-88	A20	3.30	4500.00	25.00		257.00	<0.50	<0.50	25.00	0.55	<1.00	<1.00
03U703	12-Oct-89	A24	<10.00	900.00	<10.00		57.00	<10.00	<50.00	19.00	<10.00	<10.00	<10.00
03U703	02-May-90	A26	3.20	5500.00	34.00		180.00	1.10	<0.50	43.00	1.80	39.00	<0.50
03U703	20-Mar-91	A30	<100.00	2900.00	<100.00	84.00		<30.00	<190.00	<100.00	<100.00	<78.00	<50.00
03U704	10-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U704	25-Jan-88	A17	<0.20	1.50	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U704	05-Apr-88	F18	<1.00	4.36	<1.00	<0.50			<1.90	<1.00	<1.00	<0.50	<0.50
03U704	17-May-88	A18	<0.20	3.90	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U704	29-Jul-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U704	08-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.50	<0.50
03U704	27-Oct-88	A20	<0.50	3.30	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03U704	16-Nov-88	F20	<1.00	1.09	<1.00	<0.50			<1.90	<1.00	<1.00	<0.50	<0.50
03U704	20-Apr-89	A22	<0.20	6.90	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U704	19-Jul-89	A23	<0.20	3.70	<0.20		<0.20	<0.20	<1.00	0.30	<0.20	<0.20	<0.20
03U704	20-Oct-89	A24	<0.20	38.00	0.30		<0.20	<0.20	<1.00	2.90	<0.20	<0.20	<0.20
03U704	17-Jan-90	A25	<0.20	9.60	<0.20		0.40	<0.20	<0.20	3.10	<0.20	<0.20	<0.20
03U704	30-Jan-90	A25	<0.20	3.10	<0.20		<0.20	<0.20	<1.00	2.60	<0.20	<0.20	<0.20
03U704	27-Apr-90	F26	<1.00	0.65	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U704	19-Jul-90	A27	<1.00	0.80	<0.300		<0.50	<0.30	<1.50	<0.50	<1.00	<0.20	<0.20
03U704	15-Mar-91	A30	1.00	2.60	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U705	25-Jan-88	A17	<0.20	14.00	<0.20		0.42	<0.20	<0.20	3.10	<0.20	<0.20	0.27
03U705	17-May-88	A18	<0.20	2.00	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.20
03U705	08-Aug-88	A19	<0.20	26.00	<0.20		0.42	<0.20	<0.20	2.60	<0.20	<0.20	<0.20
03U705	12-Oct-89	A24	<0.40	71.00	2.20		<0.40	<0.40	<2.00	14.00	<0.40	<0.40	<0.40
03U705	24-Apr-90	F26	<1.00	1.57	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U705	19-Jul-90	F27	<1.00	1.00	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U705	21-Sep-90	F28	<1.00	2.53	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U705	15-Mar-91	A30	<1.00	2.38	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U705	05-Jun-91	A31	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U705	05-Jun-91	M31	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	0.20	<0.20	<0.20	<0.20
03U705	05-Sep-91	A32	<1.00	0.64	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U706	25-Jan-88	A17	<0.20	0.50	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U706	10-May-88	A18	<0.20	3.17	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U706	29-Jul-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U706	25-Oct-88	A20	<0.50	1.00	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03U706	12-Oct-89	A24	<0.20	2.40	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U706	30-Jan-90	A25	<0.20	<0.20	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U706	02-May-90	A26	<0.50	4.20	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03U706	19-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U707	25-Jan-88	A17	<0.20	0.28	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U702	13-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U703	15-Jan-88	A17		<2.00						
03U703	16-May-88	A18		<0.20						
03U703	04-Aug-88	A19		2.50						
03U703	24-Oct-88	A20		14.00						
03U703	12-Oct-89	A24		<10.00						
03U703	02-May-90	A26	<0.50	1.60	<0.50		<0.50			
03U703	20-Mar-91	A30	<130.00	<72.00	<100.00	<100.00	510.00			
03U704	10-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
03U704	25-Jan-88	A17		<0.20						
03U704	05-Apr-88	F18		<0.72	<1.00			<0.41	<0.87	<8.28
03U704	17-May-88	A18		<0.20						
03U704	29-Jul-88	A19		<0.20						
03U704	08-Aug-88	F19		<0.72	<1.00					
03U704	27-Oct-88	A20		<0.50						
03U704	16-Nov-88	F20		<0.72	<1.00					
03U704	20-Apr-89	A22		<0.20						
03U704	19-Jul-89	A23		<0.20						
03U704	20-Oct-89	A24		<0.20						
03U704	17-Jan-90	A25		<0.20						
03U704	30-Jan-90	A25		<0.20						
03U704	27-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U704	19-Jul-90	A27		<0.50						
03U704	15-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705	25-Jan-88	A17		<0.20						
03U705	17-May-88	A18		<0.20						
03U705	08-Aug-88	A19		<0.20						
03U705	12-Oct-89	A24		<0.40						
03U705	24-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705	19-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705	21-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705	15-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705	05-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705	05-Jun-91	M31	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	0.20	
03U705	05-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03U706	25-Jan-88	A17		1.10						
03U706	10-May-88	A18		<0.20						
03U706	29-Jul-88	A19		<0.20						
03U706	25-Oct-88	A20		<0.50						
03U706	12-Oct-89	A24		<0.20						
03U706	30-Jan-90	A25		<0.20						
03U706	02-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U706	19-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U707	25-Jan-88	A17		<0.20						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCELE	1,2-Di chloro ethane 12DCELE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U707	17-May-88	A18	<0.20	1.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U707	29-Jul-88	A19	<0.20	0.23	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U707	25-Oct-88	A20	<0.50	5.30	<0.50		<0.50	<0.50	<0.50	0.80	<0.50	1.00	<1.00
03U707	20-Oct-89	A24	<0.20	13.00	<0.20		<0.20	<0.20	<1.00	1.10	<0.20	<0.20	<0.20
03U707	30-Jan-90	A25	<0.20	4.80	<0.20		<0.20	<0.20	<1.00	0.40	<0.20	<0.20	<0.20
03U707	02-May-90	A26	<0.50	2.60	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03U707	19-Mar-91	A30	<1.00	3.15	<1.00	<0.50	<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	
03U708	22-Jan-88	A17	21.00	72.00	2.70		0.78	<0.20	<0.20	11.00	<0.20	0.51	<0.20
03U708	10-May-88	A18	12.00	38.00	2.10		7.60	<0.20	<0.20	10.00	<0.20	2.00	<0.20
03U708	04-Aug-88	A19	44.00	152.00	7.40		15.00	<0.20	<0.20	36.00	<0.20	0.94	<0.20
03U708	24-Oct-88	A20	6.10	125.00	2.40		12.40	<0.50	<0.50	20.00	<0.50	1.40	<1.00
03U708	31-Oct-88	A20	33.00	145.00	5.50		16.00	<0.50	<0.50	42.00	<0.50	0.98	<1.00
03U708	12-Oct-89	A24	14.00	57.00	3.00		7.20	<0.40	<2.00	10.00	<0.40	1.30	<0.40
03U708	24-Apr-90	A26	20.00	120.00	1.40		27.00	<0.50	<0.50	16.00	<0.50	<0.50	<0.50
03U708	08-Mar-91	A30	20.00	110.00	<5.00	<2.50	<1.50	<9.50	16.00	<5.00	<3.90	<2.50	
03U709	22-Jan-88	A17	11.80	420.00	<0.20		0.32	<0.20	<0.20	2.30	<0.20	<0.20	<0.20
03U709	12-May-88	A18	7.30	270.00	<0.20		<0.20	<0.20	<0.20	3.40	2.00	<0.20	<0.20
03U709	08-Aug-88	A19	9.40	440.00	<0.20		1.10	<0.20	<0.20	4.00	3.20	<0.20	<0.20
03U709	26-Oct-88	A20	7.60	225.00	<0.50		<0.50	<0.50	<0.50	7.10	3.40	<1.00	<1.00
03U709	17-Oct-89	A24	5.80	140.00	4.40		<1.00	<1.00	<5.00	22.00	13.00	<1.00	<1.00
03U709	30-Apr-90	A26	2.90	120.00	3.50		<0.50	<0.50	<0.50	69.00	19.00	1.40	<0.50
03U709	15-Mar-91	A30	<50.00	100.00	<50.00	<25.00	<15.00	<95.00	370.00	<50.00	<39.00	<25.00	
03U709	(4) 15-Mar-91	A30	<50.00	110.00	<50.00	<25.00	<15.00	<95.00	380.00	<50.00	<39.00	<25.00	
03U710	14-Jan-88	A17	<0.20	1780.00	23.00		47.00	<0.20	<0.20	34.00	<0.20	26.00	<0.20
03U710	18-May-88	A18	<0.20	2920.00	50.00		66.00	0.36	<0.20	130.00	1.90	42.00	1.70
03U710	03-Aug-88	A19	<0.20	3340.00	18.00		68.00	0.62	<0.20	216.00	2.80	38.00	4.40
03U710	26-Oct-88	A20	<0.50	1440.00	25.00		48.00	3.60	<0.50	120.00	1.50	31.00	4.10
03U710	25-Oct-89	A24	<10.00	1100.00	40.00		24.00	<10.00	<50.00	90.00	<10.00	21.00	<10.00
03U710	02-May-90	A26	<0.50	850.00	32.00		29.00	<0.50	<0.50	85.00	2.20	25.00	1.70
03U710	16-Apr-91	A30	<25.00	640.00	32.00	30.00		<7.50	<48.00	59.00	<25.00	40.00	<13.00
03U710	(4) 16-Apr-91	A30	<25.00	640.00	30.00	30.00		<190.00	<48.00	62.00	<25.00	37.00	<13.00
03U711	19-Apr-89	A22	17.00	23.00	<2.00		6.20	<0.20	<1.00	6.70	<0.20	0.50	<0.20
03U711	12-Jul-89	A23	26.00	28.00	3.30		7.90	<0.20	<1.00	6.50	<0.20	0.90	<0.20
03U711	18-Oct-89	A24	31.00	45.00	2.50		7.60	<0.20	<1.00	9.80	<0.20	0.50	<0.20
03U711	17-Jan-90	A25	22.00	25.00	1.50		7.00	<0.20	<1.00	5.30	<0.20	0.70	<0.20
03U711	01-May-90	A26	<0.50	26.00	1.50		5.30	<0.50	<0.50	4.50	<0.50	<0.50	<0.50
03U711	20-Jul-90	A27	19.00	19.00	1.60		5.70	<0.30	<1.50	4.60	<1.00	0.70	<0.20
03U711	(4) 20-Jul-90	A27	18.00	20.00	1.80		5.20	<0.30	<1.50	4.40	<1.00	0.60	<0.20
03U711	14-Mar-91	A30	14.30	14.80	<1.00	3.65		<0.30	<1.90	3.40	<1.00	<0.78	<0.50
03U711	07-Jun-91	A31	13.00	20.20	<1.00	2.47		<0.30	<1.90	4.23	<1.00	<0.78	<0.50
03U711	04-Sep-91	A32	<1.00	0.96	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U711	04-Sep-91	A32		0.78									
03U801	03-Dec-87	F16	<180.00	4800.00	<100.00	<110.00			<300.00	<160.00	<200.00	<140.00	<100.00
03U801	02-May-90	A26	<0.50	1600.00	2.50		50.00	<0.50	<0.50	3.70	<0.50	2.50	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U707	17-May-88	A18		<0.20						
03U707	29-Jul-88	A19		<0.20						
03U707	25-Oct-88	A20		<0.50						
03U707	20-Oct-89	A24		<0.20						
03U707	30-Jan-90	A25		<0.20						
03U707	02-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U707	19-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U708	22-Jan-88	A17		13.00						
03U708	10-May-88	A18		7.30						
03U708	04-Aug-88	A19		6.70						
03U708	24-Oct-88	A20		4.70						
03U708	31-Oct-88	A20		6.90						
03U708	12-Oct-89	A24		3.10						
03U708	24-Apr-90	A26	<0.50	3.00	<0.50		<0.50			
03U708	08-Mar-91	A30	<6.50	<3.60	<5.00	<5.00	<16.00			
03U709	22-Jan-88	A17		1.60						
03U709	12-May-88	A18		1.50						
03U709	08-Aug-88	A19		1.30						
03U709	26-Oct-88	A20		<1.70						
03U709	17-Oct-89	A24		<1.00						
03U709	30-Apr-90	A26	<0.50	1.30	<0.50		<0.50			
03U709	15-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03U709	(4) 15-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03U710	14-Jan-88	A17		<0.20						
03U710	18-May-88	A18		<0.20						
03U710	03-Aug-88	A19		<0.20						
03U710	26-Oct-88	A20		3.10						
03U710	25-Oct-89	A24		<10.00						
03U710	02-May-90	A26	<0.50	1.00	<0.50		<0.50			
03U710	16-Apr-91	A30	<33.00	<18.00	<25.00	<25.00	<80.00			
03U710	(4) 16-Apr-91	A30	<33.00	<18.00	<25.00	<25.00	<80.00			
03U711	19-Apr-89	A22		11.00						
03U711	12-Jul-89	A23		11.00						
03U711	18-Oct-89	A24		9.70						
03U711	17-Jan-90	A25		9.40						
03U711	01-May-90	A26	0.80	7.50	<0.50		<0.50			
03U711	20-Jul-90	A27		6.30						
03U711	(4) 20-Jul-90	A27		7.10						
03U711	14-Mar-91	A30	<1.30	4.96	<1.00	<1.00	<3.20			
03U711	07-Jun-91	A31	<1.30	3.60	<1.00	<1.00	<3.20			
03U711	04-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
03U711	04-Sep-91	A32								
03U801	03-Dec-87	F16	<220.00	<82.00	<120.00	<900.00	<360.00			
03U801	02-May-90	A26	<0.50	0.70	<0.50		<0.50			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEB	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U801	21-Mar-91	A30	<250.00	7200.00	<250.00	170.00		<75.00	<480.00	<250.00	<250.00	<200.00	<130.00
03U801	17-Sep-91	M32	<40.00	7300.00	<100.00		60.00	<20.00	<200.00	<40.00	<40.00	<40.00	<40.00
03U801	(4) 17-Sep-91	M32	6.40	800.00	12.00		150.00	1.60	<1.00	14.00	<1.20	16.00	<0.30
03U803	01-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U803	28-Oct-88	A20	<0.50	1.60	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03U803	18-Sep-91	M32	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
03U804	01-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U804	21-Jan-88	A17	<0.20	2.40	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U804	13-May-88	A18	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U804	04-Aug-88	A19	<0.20	3.70	<0.20		<0.20	<0.20	<0.20	0.55	<0.20	<0.20	<0.20
03U804	17-Oct-89	A24	<0.20	8.20	0.20		<0.20	<0.20	<1.00	1.40	<0.20	<0.20	<0.20
03U804	04-May-90	A26	<0.50	0.80	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03U804	12-Mar-91	A30	<1.00	1.39	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U804	12-Mar-91	A30	<1.00	1.41	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
03U804	12-Mar-91	M30	<0.20	1.40	<0.50		<0.20	<0.10	<1.00	0.30	<0.20	<0.20	<0.20
03U805	01-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U805	21-Jan-88	A17	<0.20	0.30	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U805	13-May-88	A18	<0.20	0.65	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
03U805	09-Aug-88	A19	<0.20	1.40	<0.20		<0.20	<0.20	<0.20	0.36	<0.20	<0.20	<0.20
03U805	01-Nov-88	A20	<0.50	1.60	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
03U805	18-Oct-89	A24	<0.20	0.60	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
03U805	02-May-90	A26	<0.50	1.10	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
03U805	21-Mar-91	A30	<1.00	1.12	<1.00	<0.50		<0.30	<1.90	1.15	<1.00	<0.78	<0.50
03U805	21-Mar-91	A30	<1.00	1.37	<1.00	<0.50		<0.30	<1.90	1.19	<1.00	<0.78	<0.50
03U806	02-Dec-87	F16	<0.88	<1.10	2.88	<0.56			<1.50	18.60	<0.99	15.50	<0.51
03U806	23-Apr-90	A26	<0.50	370.00	160.00		9.10	<0.50	<0.50	120.00	3.20	260.00	<0.50
03U806	11-Mar-91	A30	<50.00	460.00	76.00	<25.00		<15.00	<95.00	72.00	<50.00	140.00	<25.00
03U806	11-Mar-91	M30	<0.20	350.00	93.00		12.00	<0.10	<0.10	51.00	FP	200.00	<0.20
03U806	20-Jun-91	M31	<20.00	1200.00	<50.00		<20.00	<10.00	<100.00	310.00	<20.00	<20.00	<20.00
03U811	25-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U811	04-May-89	F22	<1.00	<0.50	5.50	<0.50			<1.90	14.90	<1.00		<0.50
03U811	24-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03U811	20-Oct-89	F24	<0.88	4.18	0.74	<0.56			<1.50	1.01	<0.99		<0.51
03U811	26-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U811	20-Mar-91	F30	<1.00	0.80	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U821	30-Nov-87	F16	<88.00	1300.00	<49.00	<56.00			<150.00	230.00	<99.00	<72.00	<51.00
03U821	10-May-89	F22	<5.00	210.00	17.00	9.20			<9.50	62.00	<5.00		<2.50
03U821	25-Jul-89	F23	<44.00	950.00	<24.00	<28.00			140.00	140.00	<50.00		<26.00
03U821	24-Oct-89	F24	<44.00	380.00	39.00	59.00			<75.00	66.00	<50.00		<26.00
03U821	01-May-90	F26	1.23	790.00	21.00	4.34			<1.90	150.00	<1.00	15.50	0.79
03U821	23-Jul-90	F27	<1.00	510.00	17.00	3.13			<1.90	83.00	<1.00	11.70	0.54
03U821	21-Mar-91	F30	<1.00	190.00	<1.00	<0.50			<1.90	37.00	<1.00	<0.78	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U801	21-Mar-91	A30	<30.00	<180.00	<250.00	<250.00	<800.00			
03U801	17-Sep-91	M32	<40.00	<20.00	<40.00	<40.00	<100.00	<40.00	<40.00	
03U801	(4) 17-Sep-91	M32	<1.60	5.30	<1.00	<5.00	<5.00	<1.00	<1.00	<1.00
03U803	01-Dec-87	F16	<1.11	<0.41	<0.62	<4.50	<1.80			
03U803	28-Oct-88	A20		<0.50						
03U803	18-Sep-91	M32	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
03U804	01-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03U804	21-Jan-88	A17		<0.20						
03U804	13-May-88	A18		<0.20						
03U804	04-Aug-88	A19		<0.20						
03U804	17-Oct-89	A24		<0.20						
03U804	04-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U804	12-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U804	12-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U804	12-Mar-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	0.20	
03U805	01-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03U805	21-Jan-88	A17		<0.20						
03U805	13-May-88	A18		<0.20						
03U805	09-Aug-88	A19		0.32						
03U805	01-Nov-88	A20		<0.50						
03U805	18-Oct-89	A24		<0.20						
03U805	02-May-90	A26	<0.50	<0.50	<0.50		<0.50			
03U805	21-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U805	21-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U806	02-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03U806	23-Apr-90	A26	<0.50	1.10	<0.50		<0.50			
03U806	11-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
03U806	11-Mar-91	M30	<0.20	0.90	<0.20	1.10	<0.50	<0.20	<0.20	
03U806	20-Jun-91	M31	<20.00	<10.00	<20.00	<20.00	<50.00	<20.00	<20.00	
03U811	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03U811	04-May-89	F22		<0.72	<1.00			<0.41	1.18	<8.28
03U811	24-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03U811	20-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03U811	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U811	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U821	30-Nov-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00			
03U821	10-May-89	F22		<3.60	<5.00			<2.10	<4.40	<41.00
03U821	25-Jul-89	F23		<20.00	<31.00			<150.00	1100.00	<58.00
03U821	24-Oct-89	F24		<20.00	<31.00			<150.00	<170.00	<58.00
03U821	01-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U821	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U821	21-Mar-91	F30	14.00	<0.72	<1.00					

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
03U822	01-Dec-87	F16	<0.88	1.65	0.62	<0.56			<1.50	19.70	<0.99	2.90	<0.51
03U822	05-May-89	F22	<1.00	<0.50	2.77	<0.50			<1.90	14.30	<1.00		<0.50
03U822	24-Jul-89	F23	<0.88	<1.10	1.66	<0.56			<1.50	10.50	<0.99		<0.51
03U822	23-Oct-89	F24	<0.88	1.40	2.03	1.46			<1.50	6.29	<0.99		<0.51
03U822	25-Apr-90	F26	<1.00	<0.50	4.52	1.12			<1.90	17.70	<1.00	10.90	<0.50
03U822	21-Mar-91	F30	<1.00	7.94	5.17	0.88			<1.90	10.50	<1.00	10.10	<0.50
03U824	01-Dec-87	F16	<88.00	1300.00	<49.00	<56.00			<150.00	260.00	<99.00	<72.00	<51.00
03U824	28-Mar-91	F30	<1.00	43.00	<1.00	11.40			<1.90	7.21	<1.00	25.30	1.06
03U831	25-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U831	10-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U831	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03U831	24-Oct-89	F24	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U831	24-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03U831	25-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U831	19-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U832	24-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
03U832	09-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
03U832	24-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03U832	24-Oct-89	F24	<0.88	1.78	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
03U832	25-Apr-90	F26	<1.00	0.71	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
03U832	19-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04J077	11-Oct-89	A24	<2.00	220.00	19.00		<2.00	<2.00	<10.00	71.00	<2.00	18.00	<2.00
04J077	24-Apr-90	A26	<0.50	650.00	66.00		10.00	<0.50	<0.50	200.00	<0.50	82.00	<0.50
04J077	07-Mar-91	A30	<50.00	970.00	76.00	<25.00		<15.00	<95.00	300.00	<50.00	140.00	<25.00
04J702	13-Oct-89	A24	<0.20	30.00	2.90		<0.20	<0.20	<1.00	10.00	<0.20	2.80	<0.20
04J702	26-Apr-90	A26	<0.50	110.00	8.40		0.60	<0.50	<0.50	25.00	<0.50	3.20	<0.50
04J702	13-Mar-91	A30	<10.00	190.00	<10.00	<5.00		<3.00	<19.00	51.00	<10.00	<7.80	<5.00
04J702	13-Mar-91	A30	<10.00	180.00	<10.00	<5.00		<3.00	<19.00	49.00	<10.00	<7.80	<5.00
04J708	04-Jan-89	A21	<1.00	3.30	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04J708	12-Oct-89	A24	<0.20	1.60	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
04J708	24-Apr-90	A26	<0.50	3.00	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
04J708	08-Mar-91	A30	<1.00	43.50	2.49	1.75		<0.30	<1.90	6.78	<1.00	7.73	<0.50
04J713	04-Jan-89	A21	<1.00	42.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04J713	13-Oct-89	A24	<0.20	9.60	0.60		<0.20	<0.20	<1.00	2.60	<0.20	0.70	<0.20
04J713	30-Apr-90	A26	<0.50	11.00	<0.50		<0.50	<0.50	<0.50	2.00	<0.50	<0.50	<0.50
04J713	12-Mar-91	A30	<1.00	39.70	1.14	<0.50		<0.30	<1.90	9.12	<1.00	0.92	<0.50
04J714	04-Jan-89	A21	<1.00	6.10	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04J714	18-Apr-89	A22	<0.20	12.00	<1.00		<0.20	<0.20	<1.00	1.50	<0.20	0.40	<0.20
04J714	11-Jul-89	A23	<0.20	9.30	1.00		0.20	<0.20	<1.00	2.30	<0.20	1.10	<0.20
04J714	13-Oct-89	A24	<0.20	5.00	<0.20		<0.20	<0.20	<1.00	1.20	<0.20	0.50	<0.20
04J714	17-Jan-90	A25	<0.20	17.00	0.40		<0.20	<0.20	<1.00	3.70	<0.20	0.30	<0.20

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
03U822	01-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03U822	05-May-89	F22		<0.72	<1.00			0.48	3.10	<8.28
03U822	24-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03U822	23-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03U822	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U822	21-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
03U824	01-Dec-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00			
03U824	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U831	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03U831	10-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
03U831	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	1.43
03U831	24-Oct-89	F24	<1.30	<0.72	<1.00	<1.00	<3.20			
03U831	24-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03U831	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U831	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
03U832	24-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
03U832	09-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
03U832	24-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
03U832	24-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
03U832	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
03U832	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04J077	11-Oct-89	A24		<2.00						
04J077	24-Apr-90	A26	0.90	<0.50	<0.50		<0.50			
04J077	07-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
04J702	13-Oct-89	A24		<0.20						
04J702	26-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04J702	13-Mar-91	A30	<13.00	<7.20	<10.00	<10.00	<32.00			
04J702	13-Mar-91	A30	<13.00	<7.20	<10.00	<10.00	<32.00			
04J708	04-Jan-89	A21		<1.00						
04J708	12-Oct-89	A24		<0.20						
04J708	24-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04J708	08-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04J713	04-Jan-89	A21		<1.00						
04J713	13-Oct-89	A24		<0.20						
04J713	30-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04J713	12-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04J714	04-Jan-89	A21		<1.00						
04J714	18-Apr-89	A22		<0.20						
04J714	11-Jul-89	A23		<0.20						
04J714	13-Oct-89	A24		<0.20						
04J714	17-Jan-90	A25		<0.20						

TABLE 2
TCAA ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAA GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
04J714	30-Apr-90	A26	<0.50	11.00	<0.50		<0.50	<0.50	<0.50	2.80	<0.50	<0.50	<0.50
04J714	19-Jul-90	A27	<1.00	12.00	0.50		<0.50	<0.30	<1.50	2.60	<1.00	0.40	<0.20
04J714	12-Mar-91	A30	<1.00	13.40	<1.00	<0.50		<0.30	<1.90	1.79	<1.00	<0.78	<0.50
04J714	06-Jun-91	A31	<1.00	9.41	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04J714	04-Sep-91	A32	<1.00	9.30	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U001	16-Nov-87	F16											
04U001	13-Jan-88	A17	<0.20	6.90	<0.20		<0.20	<0.20	<0.20	2.80	<0.20	<0.20	<0.20
04U001	11-May-88	A18	<0.20	11.00	<0.20		<0.20	<0.20	<0.20	5.80	<0.20	<0.20	<0.20
04U001	29-Jul-88	A19	<0.20	9.30	<0.20		<0.20	<0.20	<0.20	5.40	<0.20	<0.20	<0.20
04U001	23-Aug-88	F19	<1.00	13.20	<1.00	<0.50		<1.90	<1.90	5.63	<1.00	<0.20	<0.50
04U001	20-Oct-88	A20	<0.50	9.40	<0.50		<0.50	<1.00	<0.50	3.90	<0.50	<1.00	<1.00
04U001	18-Apr-89	A22	<0.20	4.20	<0.20		<0.20	<0.20	<1.00	0.50	<0.20	0.20	<0.20
04U001	11-Jul-89	A23	<0.20	11.00	1.40		<0.20	<0.20	<1.00	4.00	<0.20	0.40	<0.20
04U001	11-Oct-89	A24	<0.20	2.50	<0.20		<0.20	<0.20	<1.00	0.70	<0.20	<0.20	<0.20
04U001	16-Jan-90	A25	<0.20	1.20	<0.20		<0.20	<0.20	<1.00	0.30	<0.20	<0.20	<0.20
04U001	27-Apr-90	A26	<0.50	6.70	<0.50		<0.50	<0.50	<0.50	1.60	<0.50	<0.50	<0.50
04U001	19-Jul-90	A27	<1.00	6.50	0.30		<0.50	<0.30	<1.50	1.90	<1.00	0.20	<0.20
04U001	07-Mar-91	A30	<1.00	4.79	<1.00	<0.50		<0.30	<1.90	1.35	<1.00	<0.78	<0.50
04U001	05-Jun-91	A31	<1.00	5.20	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U001	04-Sep-91	A32	<1.00	5.87	<1.00	<0.50		<0.30	<1.90	1.39	<1.00	<0.78	<0.50
04U002	17-Nov-87	F16	<4.40	43.00	<2.40	<2.80		<7.50		8.10	<5.00	<3.60	<2.60
04U002	18-Jan-88	A17	<0.20	220.00	8.40		4.00	<0.20	<0.20	56.40	<0.20	8.60	<0.20
04U002	10-May-88	A18	<0.20	179.00	4.60		2.40	<0.20	<0.20	41.00	<0.20	6.80	<0.20
04U002	04-Aug-88	A19	<0.20	108.00	1.00		2.10	<0.20	<0.20	25.00	<0.20	4.80	0.48
04U002	24-Oct-88	A20	<0.50	185.00	4.50		5.10	<0.50	<0.50	<0.50	<0.50	11.00	0.07
04U002	12-Oct-89	A24	<1.00	110.00	5.10		28.00	<1.00	<5.00	31.00	<1.00	4.20	<1.00
04U002	27-Apr-90	A26	<0.50	180.00	3.60		12.00	<0.50	<0.50	34.00	<0.50	3.50	<0.50
04U002	08-Mar-91	A30	<1.00	91.00	2.70	1.39		<0.30	<1.90	18.30	<1.00	4.34	<0.50
04U003	19-Nov-87	F16	<0.88	1.66	<0.49	<0.56		<1.50		1.11	<0.99	<0.72	<0.51
04U003	21-Jan-88	A17	<0.20	0.81	<0.20		<0.20	<0.20	<0.20	0.20	<0.20	<0.20	<0.20
04U003	16-May-88	A18	<0.20	2.90	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U003	27-Jul-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U003	26-Oct-88	A20	<0.50	4.70	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
04U003	12-Jul-89	A23	<0.20	0.40	0.30		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
04U003	17-Oct-89	A24	<0.20	0.70	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
04U003	17-Jan-90	A25	<0.20	2.80	<0.20		<0.20	<0.20	<1.00	0.70	<0.20	<0.20	<0.20
04U003	23-Apr-90	A26	<0.50	<0.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
04U003	18-Jul-90	A27	<1.00	<0.50	<0.300		<0.50	<0.30	<1.50	<0.50	<1.00	<0.20	<0.20
04U003	08-Mar-91	A30	<1.00	2.21	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U003	08-Mar-91	A30	<1.00	0.91	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U003	06-Jun-91	A31	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U003	04-Sep-91	A32	<1.00	1400.00	26.50	38.50		<0.30	<1.90	190.00	36.70	19.60	1.35
04U007	09-Nov-87	F16	<0.88	<1.10	<0.49	<0.56		<1.50		<0.81	<0.99	<0.72	<0.51
04U007	10-Nov-88	F20	<1.00	<0.50	<1.00	<0.50		<1.90		<1.00	<1.00	<0.78	<0.50
04U007	23-Apr-90	F26	<1.00	<0.50	<1.00	<0.50		<1.90		<1.00	<1.00	<0.78	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCL1FE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
04J714	30-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04J714	19-Jul-90	A27		<0.50						
04J714	12-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04J714	06-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
04J714	04-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
04U001	16-Nov-87	F16						<3.09	<3.39	<1.17
04U001	13-Jan-88	A17		<0.20						
04U001	11-May-88	A18		<0.20						
04U001	29-Jul-88	A19		<0.20						
04U001	23-Aug-88	F19		<0.72	<1.00					
04U001	20-Oct-88	A20		<0.50						
04U001	18-Apr-89	A22		<0.20						
04U001	11-Jul-89	A23		<0.20						
04U001	11-Oct-89	A24		<0.20						
04U001	16-Jan-90	A25		<0.20						
04U001	27-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U001	19-Jul-90	A27		<0.50						
04U001	07-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U001	05-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
04U001	04-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
04U002	17-Nov-87	F16	<5.50	<2.00	<3.10	<22.00	<9.00	<3.09	<3.39	<1.17
04U002	18-Jan-88	A17		<0.20						
04U002	10-May-88	A18		<0.20						
04U002	04-Aug-88	A19		<0.20						
04U002	24-Oct-88	A20		0.50						
04U002	12-Oct-89	A24		<1.00						
04U002	27-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U002	08-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U003	19-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
04U003	21-Jan-88	A17		<0.20						
04U003	16-May-88	A18		<0.20						
04U003	27-Jul-88	A19		<0.20						
04U003	26-Oct-88	A20		<0.50						
04U003	12-Jul-89	A23		<0.20						
04U003	17-Oct-89	A24		<0.20						
04U003	17-Jan-90	A25		<0.20						
04U003	23-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U003	18-Jul-90	A27		<0.50						
04U003	08-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U003	08-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U003	06-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
04U003	04-Sep-91	A32	<1.30	3.03	<1.00	<1.00	<3.20			
04U007	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
04U007	10-Nov-88	F20		<0.72	<1.00					
04U007	23-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
04U007	28-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U012	09-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
04U012	11-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
04U020	07-Dec-87	F16	<88.00	1500.00	<49.00	<56.00			<150.00	210.00	<99.00	130.00	<51.00
04U020	19-Jan-88	A17	<0.20	1525.00	100.00		45.00	<0.20	0.90	295.00	0.51	203.00	1.80
04U020	11-May-88	A18	<0.20	946.00	30.00		19.00	<0.20	<0.20	294.00	0.34	193.00	1.60
04U020	01-Aug-88	A19	<0.20	1235.00	32.00		42.00	<0.20	<0.20	314.00	<0.20	190.00	1.20
04U020	17-Aug-88	F19	<10.00	710.00	67.00	84.00			<19.00	130.00	<10.00		<5.00
04U020	25-Oct-88	A20	<0.50	460.00	29.00		19.00	<0.50	<0.50	240.00	<0.50	13.00	1.10
04U020	11-Oct-89	A24	<4.00	550.00	26.00		13.00	<4.00	<20.00	81.00	<4.00	88.00	<4.00
04U020	25-Apr-90	A26	<0.50	360.00	21.00		11.00	<0.50	<0.50	63.00	<0.50	48.00	<0.50
04U020	14-Mar-91	A30	<10.00	120.00	<10.00	<5.00		<3.00	<19.00	18.00	<10.00	14.00	<5.00
04U027	15-Jan-88	A17	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U027	10-May-88	A18	<0.20	0.29	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U027	08-Aug-88	A19	<0.20	0.34	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U027	25-Oct-88	A20	<0.50	1.40	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
04U027	11-Oct-89	A24	<0.20	<0.20	<0.20		<0.20	<0.20	<1.00	<0.20	<0.20	<0.20	<0.20
04U027	25-Apr-90	A26	<0.50	7.30	<0.50		<0.50	<0.50	<0.50	2.00	<0.50	<0.50	<0.50
04U027	08-Mar-91	A30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U077	04-Dec-87	F16	<88.00	1800.00	46.00	<56.00			<150.00	490.00	<99.00	82.00	<51.00
04U077	19-Jan-88	A17	0.26	1900.00	160.00		20.00	<0.20	1.00	670.00	0.65	116.00	1.50
04U077	09-May-88	A18	<4.00	1280.00	85.00		18.00	<4.00	<4.00	500.00	<4.00	103.00	
04U077	03-Aug-88	A19	<0.20	1400.00	40.00		23.00	0.25	<0.20	526.00	0.51	121.00	13.00
04U077	21-Oct-88	A20	<0.50	2600.00	130.00		29.00	<0.50	<0.50	1070.00	<0.50	390.00	11.00
04U077	11-Oct-89	A24	<20.00	2400.00	200.00		<20.00	<20.00	<100.00	710.00	<20.00	73.00	<20.00
04U077	24-Apr-90	A26	1.40	3600.00	80.00		21.00	<0.50	<0.50	800.00	2.60	70.00	<0.50
04U077	07-Mar-91	A30	<5.00	2400.00	<5.00	20.00		<1.50	<9.50	610.00	<5.00	49.00	4.10
04U510	18-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
04U510	15-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
04U510	23-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U510	28-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U673	24-Nov-87	A16	<0.20	145.00	4.61		<0.20	<0.20	<0.20	<0.20	0.65	6.30	<0.20
04U673	21-Jan-88	A17	<4.00	580.00	5.10		105.00	<4.00	<4.00	<4.00	<4.00	4.30	<4.00
04U673	16-May-88	A18	<0.20	560.00	3.30		82.00	<0.20	<0.20	0.33	0.50	5.60	<0.20
04U673	04-Aug-88	A19	<0.20	253.00	2.10		70.00	<0.20	<0.20	1.70	0.31	5.20	<0.20
04U673	01-Nov-88	A20	<0.50	1700.00	<0.50		220.00	<0.50	<0.50	2.00	<0.50	13.00	<1.00
04U673	03-May-89	F22	<2.00	700.00	5.80	170.00			<3.80	<2.00	<2.00		<1.00
04U673	21-Jul-89	F23	<44.00	1200.00	<24.00	86.00			<75.00	<40.00	<50.00		<26.00
04U673	19-Oct-89	A24	<10.00	1100.00	<10.00		62.00	<10.00	<50.00	<10.00	<10.00	<10.00	<10.00
04U673	01-May-90	A26	<0.50	3100.00	6.90		53.00	<0.50	<0.50	8.10	<0.50	6.40	<0.50
04U673	11-Mar-91	A30	<100.00	990.00	<100.00	<50.00		<30.00	<190.00	<100.00	<100.00	<78.00	<50.00
04U673	11-Mar-91	M30	<20.00	940.00	<50.00		39.00	<10.00	<100.00	<20.00	<20.00	<20.00	<20.00
04U673	17-Jun-91	M31	<4.00	410.00	<10.00		<4.00	<2.00	<20.00	<4.00	<4.00	<4.00	<4.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
04U007	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U012	09-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
04U012	11-Nov-88	F20		<0.72	<1.00					
04U020	07-Dec-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00	<150.00	<170.00	<58.00
04U020	19-Jan-88	A17		<0.20						
04U020	11-May-88	A18		<0.20						
04U020	01-Aug-88	A19		<0.20						
04U020	17-Aug-88	F19		<7.20	<10.00			<0.41	<0.87	<8.28
04U020	25-Oct-88	A20		<0.50						
04U020	11-Oct-89	A24		<4.00						
04U020	25-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U020	14-Mar-91	A30	<13.00	<7.20	<10.00	<10.00	<32.00			
04U027	15-Jan-88	A17		<0.20						
04U027	10-May-88	A18		<0.20						
04U027	08-Aug-88	A19		<0.20						
04U027	25-Oct-88	A20		<0.50						
04U027	11-Oct-89	A24		<0.20						
04U027	25-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U027	08-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U077	04-Dec-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00	<3.09	<3.39	<1.17
04U077	19-Jan-88	A17		25.00						
04U077	09-May-88	A18		8.60						
04U077	03-Aug-88	A19		<0.20						
04U077	21-Oct-88	A20		2.00						
04U077	11-Oct-89	A24		<20.00						
04U077	24-Apr-90	A26	3.30	1.90	<0.50		<0.50			
04U077	07-Mar-91	A30	<6.50	<3.60	<5.00	<5.00	<320.00			
04U510	18-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
04U510	15-Nov-88	F20		<0.72	<1.00					
04U510	23-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U510	28-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U673	24-Nov-87	A16		15.30		<0.20		0.65	43.10	1.10
04U673	21-Jan-88	A17	<4.00	38.00	<4.00	<4.00	<4.00	<4.00	24.00	
04U673	16-May-88	A18		0.73						
04U673	04-Aug-88	A19		<0.20						
04U673	01-Nov-88	A20		<0.50						
04U673	03-May-89	F22		<1.40	<2.00			<0.82	<1.70	<17.00
04U673	21-Jul-89	F23		<20.00	<31.00			<150.00	<170.00	<58.00
04U673	19-Oct-89	A24		<10.00						
04U673	01-May-90	A26	<0.50	0.90	<0.50		<0.50			
04U673	11-Mar-91	A30	<130.00	<72.00	<100.00	<100.00	<320.00			
04U673	11-Mar-91	M30	<20.00	<10.00	<20.00	<20.00	<50.00	<20.00	<20.00	
04U673	17-Jun-91	M31	<4.00	<2.00	<4.00	<4.00	<10.00	<4.00	<4.00	

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
04U701	20-Jan-88	A17	<0.20	155.00	8.40		1.10	<0.20	<0.20	51.00	<0.20	5.00	<0.20
04U701	12-May-88	A18	<0.20	411.00	6.80		<0.20	<0.20	<0.20	38.00	<0.20	5.00	<0.20
04U701	02-Aug-88	A19	<0.20	160.00	3.00		2.00	<0.20	<0.20	42.00	<0.20	6.80	<0.20
04U701	21-Oct-88	A20	<0.50	80.00	5.00		4.40	<0.50	<0.50	19.00	<0.50	13.00	<1.00
04U701	17-Oct-89	A24	<1.00	130.00	7.80		<1.00	<1.00	<5.00	37.00	<1.00	2.30	<1.00
04U701	26-Apr-90	A26	<0.50	110.00	6.40		0.60	<0.50	<0.50	22.00	<0.50	2.60	<0.50
04U701	13-Mar-91	A30	<10.00	230.00	<10.00	<5.00		<3.00	<19.00	54.00	<10.00	<7.80	<5.00
04U702	20-Jan-88	A17	<0.20	97.70	4.00		0.90	<0.20	<0.20	31.60	<0.20	2.20	<0.20
04U702	13-May-88	A18	<0.20	200.00	5.40		1.30	<0.20	<0.20	33.00	<0.20	5.00	<0.20
04U702	02-Aug-88	A19	<0.20	133.00	1.60		1.40	<0.20	<0.20	38.00	<0.20	4.10	<0.20
04U702	25-Oct-88	A20	<0.50	100.00	2.60		1.60	<0.50	<0.50	27.00	<0.50	4.30	<1.00
04U702	13-Oct-89	A24	<0.20	38.00	2.20		0.30	<0.20	<1.00	11.00	<0.20	1.70	<0.20
04U702	26-Apr-90	A26	<0.50	69.00	1.60		0.50	<0.50	<0.50	17.00	<0.50	1.20	<0.50
04U702	13-Mar-91	A30	<2.00	58.00	<2.00	<1.00		<0.60	<3.80	12.00	<2.00	3.20	<1.00
04U708	22-Jan-88	A17	<0.20	1.00	<0.20		0.22	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U708	10-May-88	A18	<0.20	0.25	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U708	04-Aug-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	0.24	<0.20	<0.20	<0.20
04U708	04-Jan-89	A21	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	1.20	<1.00	1.10	<1.00
04U708	12-Oct-89	A24	<0.20	8.60	0.70		<0.20	<0.20	<1.00	1.50	<0.20	1.60	<0.20
04U708	24-Apr-90	A26	<0.50	18.00	2.60		<0.50	<0.50	<0.50	4.20	<0.50	3.70	<0.50
04U708	08-Mar-91	A30	<1.00	5.90	<1.00	<0.50		<0.30	<1.90	1.80	<1.00	1.15	<0.50
04U709	22-Jan-88	A17	<0.20	275.00	19.40		6.00	<0.20	<0.20	73.00	<0.20	32.00	0.32
04U709	12-May-88	A18	<0.20	117.00	7.60		4.70	<0.20	<0.20	16.00	<0.20	22.00	0.47
04U709	08-Aug-88	A19	<0.20	100.00	7.50		7.80	<0.20	<0.20	14.00	<0.20	28.00	1.00
04U709	26-Oct-88	A20	<0.50	95.00	5.10		7.50	<0.50	<0.50	19.00	<0.50	25.00	0.79
04U709	17-Oct-89	A24	<4.00	370.00	29.00		7.70	<4.00	<20.00	80.00	<4.00	51.00	<4.00
04U709	30-Apr-90	A26	3.00	750.00	52.00		13.00	<0.50	<0.50	140.00	<0.50	78.00	<0.50
04U709	15-Mar-91	A30	<20.00	450.00	<20.00	<10.00		<6.00	<38.00	95.00	<20.00	23.00	<10.00
04U711	19-Apr-89	A22	<0.20	<2.00	<0.50		0.30	<0.20	<1.00	1.40	<0.20	0.70	<0.20
04U711	12-Jul-89	A23	<0.20	4.40	1.10		<0.20	<0.20	<1.00	5.00	<0.20	1.40	<0.20
04U711	18-Oct-89	A24	<0.20	2.00	0.50		<0.20	<0.20	<1.00	2.70	<0.20	2.20	<0.20
04U711	17-Jan-90	A25	<0.20	2.20	0.30		<0.20	<0.20	<1.00	1.50	<0.20	1.90	<0.20
04U711	01-May-90	A26	<0.50	2.60	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
04U711	20-Jul-90	A27	<1.00	2.00	<0.300		<0.50	<0.30	<1.50	0.60	<1.00	0.30	<0.20
04U711	14-Mar-91	A30	<1.00	0.97	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U711	07-Jun-91	A31	<1.00	0.61	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U711	04-Sep-91	A32	10.70	24.50	<1.00	2.64		<0.30	<1.90	5.07	<1.00	<0.78	<0.50
04U713	06-Jan-89	A21	<1.00	27.00	<1.00		<1.00	<1.00	<1.00	7.50	<1.00	<1.00	<1.00
04U713	23-Oct-89	A24	<2.00	15.00	0.70		0.30	<2.00	<10.00	3.50	<2.00	2.20	<2.00
04U713	30-Apr-90	A26	<0.50	5.30	<0.50		<0.50	<0.50	<0.50	1.10	<0.50	<0.50	<0.50
04U713	12-Mar-91	A30	<1.00	3.70	<1.00	<0.50		<0.30	<1.90	1.35	<1.00	<0.78	<0.50
04U714	04-Jan-89	A21	<1.00	13.00	<1.00		<1.00	<1.00	<1.00	4.90	<1.00	<1.00	<1.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
04U701	20-Jan-88	A17		0.67						
04U701	12-May-88	A18		0.49						
04U701	02-Aug-88	A19		<0.20						
04U701	21-Oct-88	A20		<0.50						
04U701	17-Oct-89	A24		<1.00						
04U701	26-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U701	13-Mar-91	A30	<13.00	<7.20	<10.00	<10.00	<32.00			
04U702	20-Jan-88	A17		<0.20						
04U702	13-May-88	A18		<0.20						
04U702	02-Aug-88	A19		<0.20						
04U702	25-Oct-88	A20		<0.50						
04U702	13-Oct-89	A24		<0.20						
04U702	26-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U702	13-Mar-91	A30	<2.60	<1.40	<2.00	<2.00	<6.40			
04U708	22-Jan-88	A17		<0.20						
04U708	10-May-88	A18		<0.20						
04U708	04-Aug-88	A19		<0.20						
04U708	04-Jan-89	A21		<1.00						
04U708	12-Oct-89	A24		<0.20						
04U708	24-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U708	08-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U709	22-Jan-88	A17		7.90						
04U709	12-May-88	A18		<0.20						
04U709	08-Aug-88	A19		0.38						
04U709	26-Oct-88	A20		<0.50						
04U709	17-Oct-89	A24		<4.00						
04U709	30-Apr-90	A26	1.00	<0.50	<0.50		<0.50			
04U709	15-Mar-91	A30	<26.00	<14.00	<20.00	<20.00	<64.00			
04U711	19-Apr-89	A22		<0.20						
04U711	12-Jul-89	A23		<0.20						
04U711	18-Oct-89	A24		<0.20						
04U711	17-Jan-90	A25		<0.20						
04U711	01-May-90	A26	<0.50	<0.50	<0.50		<0.50			
04U711	20-Jul-90	A27		<0.50						
04U711	14-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U711	07-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
04U711	04-Sep-91	A32	<1.30	4.10	<1.00	<1.00	<3.20			
04U713	06-Jan-89	A21	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00
04U713	23-Oct-89	A24		<2.00						
04U713	30-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U713	12-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U714	04-Jan-89	A21		<1.00						

TABLE 2
TCAAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCL _{EE}	Tri chloro ethene TRCL _E	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCL _E	1,2-Di chloro ethane 12DCL _E
TCAAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
04U714	18-Apr-89	A22	<0.20	19.00	<0.80		<0.20	<0.20	<1.00	2.70	<0.20	1.00	<0.20
04U714	12-Jul-89	A23	<0.20	13.00	1.00		0.20	<0.20	<1.00	3.10	<0.20	1.00	<0.20
04U714	13-Oct-89	A24	<0.20	26.00	1.10		<0.20	<0.20	<1.00	4.90	<0.20	0.60	<0.20
04U714	17-Jan-90	A25	<0.20	4.40	0.20		0.20	<0.20	<1.00	0.70	<0.20	1.10	<0.20
04U714	30-Apr-90	A26	<0.50	17.00	<0.50		<0.50	<0.50	<0.50	1.90	<0.50	<0.50	<0.50
04U714	19-Jul-90	A27	<1.00	8.50	0.30		<0.50	<0.30	<1.50	1.10	<1.00	0.50	<0.20
04U714	12-Mar-91	A30	<1.00	19.30	<1.00	<0.50		<0.30	<1.90	1.59	<1.00	<0.78	<0.50
04U714	06-Jun-91	A31	<1.00	14.60	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U714	04-Sep-91	A32	<1.00	15.90	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U802	02-Dec-87	F16	<0.88	3.20	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
04U802	21-Jan-88	A17	<0.20	2.00	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U802	13-May-88	A18	<0.20	6.70	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U802	04-Aug-88	A19	<0.20	2.60	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U802	24-Aug-88	F19	<1.00	1.80	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
04U802	28-Oct-88	A20	<0.50	1.50	<0.50		<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00
04U802	18-Oct-89	A24	<0.20	1.40	<0.20		<0.20	<0.20	<1.00	0.60	<0.20	<0.20	<0.20
04U802	01-May-90	A26	<0.50	2.70	<0.50		<0.50	<0.50	<0.50	0.90	<0.50	<0.50	<0.50
04U802	20-Mar-91	A30	<1.00	3.06	<1.00	<0.50		<0.30	<1.90	1.75	<1.00	<0.78	<0.50
04U806	02-Dec-87	F16	<88.00	2500.00	110.00	<56.00			<150.00	820.00	<90.00	160.00	<51.00
04U806	12-May-88	A18	<0.20	1720.00	246.00		23.00	0.22	<0.20	790.00	0.52	209.00	4.00
04U806	04-Aug-88	A19	<0.20	1720.00	105.00		32.00	<0.20	0.55	608.00	0.41	169.00	3.60
04U806	21-Oct-88	A20	<0.50	1500.00	73.00		35.00	<0.50	<0.50	540.00	<0.50	92.00	3.50
04U806	19-Apr-89	A22	<0.20	690.00	89.00		37.00	0.20	<1.00	130.00	<0.20	150.00	3.10
04U806	11-Jul-89	A23	<10.00	2200.00	290.00		40.00	<10.00	<50.00	760.00		210.00	<10.00
04U806	16-Oct-89	A24	15.00	1400.00	170.00		17.00	<10.00	<50.00	440.00	<10.00	110.00	<10.00
04U806	17-Jan-90	A25	<10.00	1100.00	72.00		17.00	<10.00	<50.00	300.00	<10.00	86.00	<10.00
04U806	23-Apr-90	A26	<0.50	2400.00	180.00		1.50	<0.50	<0.50	550.00	<0.50	120.00	<0.50
04U806	18-Jul-90	A27	<25.00	2000.00	270.00		46.00	<7.50	<38.00	680.00	<25.00	220.00	<5.00
04U806	11-Mar-91	A30	<200.00	3400.00	280.00	<100.00		<60.00	<380.00	1300.00	<200.00	230.00	<100.00
04U806	07-Jun-91	A31	<100.00	3900.00	280.00	64.00		<300.00	<190.00	1300.00	<100.00	300.00	<50.00
04U806	04-Sep-91	A32	<250.00	5600.00	<250.00	<130.00		<15.00	<480.00	1600.00	<250.00	320.00	<250.00
04U806	(4) 04-Sep-91	A32	<500.00	4700.00	<500.00	<250.00		<150.00	<950.00	1500.00	<500.00	<390.00	<130.00
04U806	(4) 05-Sep-91	M32	<10.00	1200.00	210.00		16.00	<5.00	<50.00	1300.00	<10.00	<10.00	<10.00
04U806	(4) 05-Sep-91	M32	1.40	>3500	310.00		72.00	1.90	<0.50	1200.00	1.70	290.00	20.00
04U806	(4) 05-Sep-91	M32	1.30	>3500	310.00		73.00	2.30	<0.50	1100.00	<1.20	81.00	19.00
04U821	30-Nov-87	F16	<44.00	950.00	<24.00	<28.00			<75.00	170.00	<50.00	<36.00	<26.00
04U821	19-Apr-90	F26	<20.00	470.00	30.00	18.00			<38.00	60.00	<20.00	43.00	<10.00
04U821	23-Jul-90	F27	<1.00	760.00	26.00	5.30			<1.90	130.00	<1.00	20.00	<0.50
04U821	18-Sep-90	F28	<1.00	590.00	24.00	<0.50			<1.90	13.00	<1.00	19.00	<0.50
04U821	21-Mar-91	F30	<1.00	490.00	<1.00	<0.50			<1.90	97.00	<1.00	<0.78	<0.50
04U821	04-Jun-91	F31	<2.00	490.00	16.00	3.30			<3.80	89.00	<2.00	12.00	<1.00
04U821	03-Sep-91	F32	<10.00	410.00	<10.00	<5.00			<19.00	59.00	<10.00	9.90	<5.00
04U832	24-Nov-87	F16	<4.40	100.00	2.80	<2.80			<7.50	25.00	<5.00	<3.60	<2.60
04U832	16-Dec-88	A20	<1.00	65.00	<1.00		<1.00	<1.00	<1.00	18.00	<1.00	5.60	<1.00
04U832	25-Apr-90	F26	<1.00	69.53	3.05	<0.50			<1.90	14.73	<1.00	2.41	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
04U714	18-Apr-89	A22		<0.20						
04U714	12-Jul-89	A23		<0.20						
04U714	13-Oct-89	A24		<0.20						
04U714	17-Jan-90	A25		<0.20						
04U714	30-Apr-90	A26	<0.50	<0.50	<0.50		<0.50			
04U714	19-Jul-90	A27		<0.50						
04U714	12-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U714	06-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
04U714	04-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
04U802	02-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
04U802	21-Jan-88	A17		<0.20						
04U802	13-May-88	A18		<0.20						
04U802	04-Aug-88	A19		<0.20						
04U802	24-Aug-88	F19		<0.72	<1.00					
04U802	28-Oct-88	A20		<0.50						
04U802	18-Oct-89	A24		<0.20						
04U802	01-May-90	A26	<0.50	<0.50	<0.50		<0.50			
04U802	20-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U806	02-Dec-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00			
04U806	12-May-88	A18		1.50						
04U806	04-Aug-88	A19		4.10						
04U806	21-Oct-88	A20		3.70						
04U806	19-Apr-89	A22		0.70						
04U806	11-Jul-89	A23		<10.00						
04U806	16-Oct-89	A24		24.00						
04U806	17-Jan-90	A25		<10.00						
04U806	23-Apr-90	A26	2.20	<0.50	<0.50		<0.50			
04U806	18-Jul-90	A27		<12.00						
04U806	11-Mar-91	A30	<260.00	<140.00	<200.00	<200.00	<640.00			
04U806	07-Jun-91	A31	<130.00	<72.00	<100.00	<100.00	<320.00			
04U806	04-Sep-91	A32	<650.00	<180.00	<250.00	<250.00	<800.00			
04U806 (4)	04-Sep-91	A32	<330.00	<360.00	<500.00	<500.00	<1600.00			
04U806	05-Sep-91	M32	<10.00	<5.00	<10.00	<10.00	<25.00	<10.00	<10.00	
04U806 (4)	05-Sep-91	M32	<0.50	5.10	<1.00		<5.00	1.50	1.80	
04U806 (4)	05-Sep-91	M32	<0.50	5.50	<1.00		<5.00	1.40	<1.00	
04U821	30-Nov-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00			
04U821	19-Apr-90	F26	<26.00	<14.00	<20.00	<20.00	<64.00			
04U821	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
04U821	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
04U821	21-Mar-91	F30	40.00	<0.72	<1.00	<1.00	<3.20			
04U821	04-Jun-91	F31	<2.60	<1.40	<2.00	<2.00	<6.40			
04U821	03-Sep-91	F32	<13.00	<7.20	<10.00	<10.00	<32.00			
04U832	24-Nov-87	F16	<5.50	<2.00	<3.10	<22.00	<9.00			
04U832	16-Dec-88	A20		<1.00						
04U832	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCL EE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCLE	1,2-Di chloro ethane 12DCLE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
04U832	19-Mar-91	F30	<1.00	47.60	2.10	<0.50			<1.90	7.10	<1.00	2.13	<0.50
04U841	20-Oct-87	A16	<0.20	0.50	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U841	25-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
04U841	20-Mar-91	F30	<1.00	1.49	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U843	24-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	1.85	<0.99	<0.72	<0.51
04U843	24-Aug-88	F19	<1.00	2.34	<1.00	<0.50			<1.90	4.87	<1.00		<0.50
04U843	25-Apr-90	F26	<1.00	2.26	<1.00	<0.50			<1.90	6.37	<1.00	1.91	<0.50
04U843	21-Mar-91	F30	<1.00	3.45	1.11	<0.50			<1.90	5.98	<1.00	1.62	<0.50
04U844	03-Dec-87	F16	<44.00	950.00	<24.00	<28.00			<75.00	170.00	<50.00	<36.00	<26.00
04U844	04-May-89	F22	<10.00	310.00	19.00	<5.00			<19.00	81.00	<10.00		<5.00
04U844	18-Oct-89	F24	1.05	600.00	41.00	4.76			<1.50	96.00	<0.99		1.65
04U844	25-Apr-90	F26	<50.00	690.00	<50.00	<25.00			<95.00	130.00	<50.00	<39.00	<25.00
04U844	23-Jul-90	F27	1.79	930.00	35.00	4.84			<1.90	160.00	1.40	27.00	1.53
04U844	17-Sep-90	F28	<1.00	1000.00	47.00	6.10			<1.90	220.00	<1.00	35.00	<0.50
04U844	19-Mar-91	F30	<20.00	900.00	35.00	<10.00			<38.00	1500.00	<20.00	30.00	<10.00
04U844	(4) 19-Mar-91	F30	<20.00	940.00	37.00	<10.00			<38.00	160.00	<20.00	32.00	<10.00
04U845	01-Dec-87	F16	<4.40	59.00	<2.40	<2.80			<7.50	<4.00	<5.00	<3.60	<2.60
04U845	16-Dec-88	A20	<1.00	155.00	<1.00		4.30	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04U845	04-May-89	F22	<1.00	100.00	<1.00	7.57			<1.90	<1.00	<1.00		<0.50
04U845	20-Jul-89	F23	<8.80	160.00	<4.90	<5.60			<15.00	<8.10	<9.90		<5.10
04U845	20-Oct-89	F24	<8.80	62.00	<4.90	15.00			<15.00	<8.10	<9.90		<5.10
04U845	26-Apr-90	F26	<5.00	38.00	<5.00	10.00			<9.50	<5.00	<5.00	<3.90	<2.50
04U845	20-Mar-91	F30	<1.00	100.00	1.08	7.20			<1.90	<1.00	<1.00	<0.78	<0.50
04U846	25-Nov-87	F16	<0.88	22.50	1.03	<0.56			<1.50	8.54	<0.99	1.23	<0.51
04U846	23-Aug-88	F19	<1.00	120.00	10.00	<0.50			<1.90	30.00	<1.00		<0.50
04U846	28-Apr-89	F22	<1.00	4.27	<1.00	<0.50			<1.90	1.06	<1.00		<0.50
04U846	18-Jul-89	F23	<0.88	9.00	<0.49	<0.56			<1.50	1.21	<0.99		<0.51
04U846	19-Oct-89	F24	<0.88	13.70	0.82	<0.56			<1.50	1.93	<0.99		<0.51
04U846	18-Mar-91	F30	<1.00	4.05	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U847	30-Nov-87	F16	<44.00	700.00	160.00	<28.00			<75.00	1000.00	<50.00	96.00	<26.00
04U847	23-Aug-88	F19	<20.00	970.00	300.00	63.00			<38.00	1100.00	<20.00		<10.00
04U847	03-May-89	F22	<1.00	12.00	8.02	0.60			<1.90	50.70	<1.00		<0.50
04U847	21-Jul-89	F23	<22.00	350.00	33.00	<14.00			<38.00	200.00	<25.00		<13.00
04U847	20-Oct-89	F24	<88.00	330.00	100.00	34.00			<30.00	460.00	<20.00		16.00
04U847	26-Apr-90	F26	<20.00	1300.00	190.00	31.00			<38.00	800.00	<20.00	150.00	<10.00
04U847	20-Jul-90	F27	<1.00	460.00	64.00	11.00			<1.90	250.00	<1.00	57.00	<0.50
04U847	17-Sep-90	F28	<1.00	1800.00	260.00	38.00			<1.90	1100.00	<1.00	200.00	<0.50
04U847	20-Mar-91	F30	<50.00	1200.00	190.00	<25.00			<95.00	620.00	<50.00	130.00	<25.00
04U847	(4) 20-Mar-91	F30	<50.00	750.00	110.00	<25.00			<95.00	400.00	<50.00	79.00	<25.00
04U847	04-Jun-91	F31	<5.00	1800.00	25.00	32.00			<9.50	880.00	<5.00	180.00	5.90
04U847	03-Sep-91	F32	<5.00	180.00	24.00	3.15			<9.50	200.00	<5.00	38.00	<2.50
04U848	02-Dec-87	F16	<44.00	700.00	<24.00	<28.00			<75.00	<40.00	<50.00	<36.00	<26.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
04U832	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U841	20-Oct-87	A16		<0.20						
04U841	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
04U841	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U843	24-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
04U843	24-Aug-88	F19		<0.72	<1.00					
04U843	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U843	21-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U844	03-Dec-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00			
04U844	04-May-89	F22		<7.20	<10.00			<4.10	<8.70	<83.00
04U844	18-Oct-89	F24		0.50	<0.62			<3.09	<3.39	<1.17
04U844	25-Apr-90	F26	<65.00	<36.00	<50.00	<50.00	<160.00			
04U844	23-Jul-90	F27	<1.30	1.10	<1.00	<1.00	<3.20			
04U844	17-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
04U844	19-Mar-91	F30	<26.00	<14.00	<20.00	<20.00	<64.00			
04U844 (4)	19-Mar-91	F30	<26.00	<14.00	<20.00	<20.00	<64.00			
04U845	01-Dec-87	F16	<5.50	<2.00	<3.10	<22.00	<9.00			
04U845	16-Dec-88	A20		<1.00						
04U845	04-May-89	F22		<0.72	<1.00			<0.41	1.24	<8.28
04U845	20-Jul-89	F23		<4.10	<6.20			<30.90	<33.90	<11.70
04U845	20-Oct-89	F24		<4.10	<6.20			<31.00	<34.00	<12.00
04U845	26-Apr-90	F26	<6.50	<3.60	<5.00	<5.00	<16.00			
04U845	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U846	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
04U846	23-Aug-88	F19		<0.72	<1.00					
04U846	28-Apr-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
04U846	18-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
04U846	19-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
04U846	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U847	30-Nov-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00			
04U847	23-Aug-88	F19		<14.00	<20.00					
04U847	03-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
04U847	21-Jul-89	F23		<10.00	<16.00			<3.09	4.63	4.47
04U847	20-Oct-89	F24		5.30	<12.00			<62.00	<68.00	<23.00
04U847	26-Apr-90	F26	<26.00	<14.00	<20.00	<20.00	<64.00	<8.20	<17.00	<170.00
04U847	20-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U847	17-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
04U847	20-Mar-91	F30	<65.00	<36.00	<50.00	<50.00	<160.00			
04U847 (4)	20-Mar-91	F30	<65.00	<36.00	<50.00	<50.00	<160.00			
04U847	04-Jun-91	F31	<6.50	6.30	<5.00	<5.00	<16.00			
04U847	03-Sep-91	F32	<6.50	<3.60	<5.00	<5.00	<16.00			
04U848	02-Dec-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00			

TABLE 2
TCAAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
04U848	24-Aug-88	F19	<20.00	470.00	<20.00	26.00			<38.00	<20.00	<20.00		<10.00
04U848	03-May-89	F22	<1.00	150.00	1.79	21.90			<1.90	<1.00	<1.00		<0.50
04U848	20-Jul-89	F23	<44.00	700.00	<24.00	<28.00			<75.00	<40.00	<50.00		<26.00
04U848	19-Oct-89	F24	<0.88	280.00	0.92	13.10			<1.50	0.85	<0.99		<0.51
04U848	19-Apr-90	F26	<20.00	240.00	<20.00	14.00			<38.00	<20.00	<20.00	<16.00	<10.00
04U848	19-Jul-90	F27	55.00	140.00	<1.00	7.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U848	17-Sep-90	F28	<1.00	150.00	<1.00	5.40			<1.90	<1.00	<1.00	<0.78	<0.50
04U848	18-Mar-91	F30	<2.00	64.00	<2.00	2.80			<3.80	<2.00	<2.00	<1.60	<1.00
04U849	01-Dec-87	F16	<18.00	460.00	8.20	<11.00			<30.00	85.00	<20.00	<14.00	<10.00
04U849	24-Aug-88	F19	<1.00	41.40	2.46	3.93			<1.90	13.90	<1.00		<0.50
04U849	18-Apr-90	F26	<1.00	18.10	1.20	0.77			<1.90	4.69	<1.00	2.32	<0.50
04U849	18-Mar-91	F30	<1.00	31.80	2.28	1.23		<0.30	<1.90	7.50	<1.00	3.86	<0.50
04U850	01-Dec-87	F16	<22.00	480.00	<12.00	<14.00			<38.00	71.00	<25.00	<18.00	<13.00
04U850	02-May-89	F22	<2.50	110.00	12.00	5.00			<4.80	10.00	<2.50		<1.30
04U850	19-Jul-89	F23	<8.80	190.00	<4.90	<5.60			<15.00	17.00	<9.90		<5.10
04U850	19-Oct-89	F24	<0.88	180.00	3.69	2.29			<1.50	15.60	<0.99		0.98
04U850	17-Apr-90	F26	<1.00	170.00	6.31	2.15			<1.90	23.70	<1.00	10.00	0.62
04U850	15-Mar-91	F30	<20.00	640.00	24.00	<10.00			<38.00	120.00	<20.00	19.00	<10.00
04U851	24-Nov-87	F16	<0.88	2.72	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
04U851	17-Apr-90	F26	<1.00	0.96	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U851	18-Mar-91	F30	<1.00	1.08	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U852	24-Nov-87	F16	<0.88	3.41	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
04U852	24-Aug-88	F19	<1.00	1.18	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U852	19-Apr-90	F26	<1.00	1.85	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U852	18-Mar-91	F30	<1.00	4.67	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U852 (4)	18-Mar-91	F30	<1.00	2.24	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U854	20-Oct-87	A16	<0.20	48.40	<0.20		2.60	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U854	13-Nov-87	A16	<0.20	50.70	0.40		3.40	<0.20	<0.20	<0.20	<0.20	0.70	<0.20
04U854	16-Dec-88	A20	<1.00	140.00	<1.00		3.70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04U854	04-May-89	F22	<1.00	27.30	<1.00				<1.90	<1.00	<1.00		<0.50
04U854	20-Jul-89	F23	<18.00	360.00	<9.80	<11.00			<30.00	<16.00	<20.00		<10.00
04U854	17-Oct-89	F24	<0.88	89.00	0.75	3.70			<1.50	<0.81	<0.99		<0.51
04U854	30-Apr-90	F26	<1.00	67.00	<1.00	3.22			<1.90	<1.00	<1.00	<0.78	<0.50
04U855	25-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
04U855	18-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
04U859	13-Nov-87	A16	<0.20	0.30	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U859	15-Dec-88	A20	<1.00	8.50	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04U859	30-Apr-90	F26	<1.00	5.59	<1.00				<1.90	<1.00	<1.00	<0.78	<0.50
04U859	19-Mar-91	F30	<1.00	5.24	<1.00	0.57			<1.90	<1.00	<1.00	<0.78	<0.50
04U860	13-Nov-87	A16	<0.20	0.50	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U860	15-Dec-88	A20	<1.00	1.80	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzen e C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
04U848	24-Aug-88	F19		<14.00	<20.00					
04U848	03-May-89	F22		<0.72	<1.00			<0.41	2.11	<8.28
04U848	20-Jul-89	F23		<20.00	<31.00			<150.00	<170.00	<58.00
04U848	19-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
04U848	19-Apr-90	F26	<26.00	<14.00	<20.00	<20.00	<64.00			
04U848	19-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
04U848	17-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
04U848	18-Mar-91	F30	<2.60	<1.40	<2.00	<2.00	<6.40			
04U849	01-Dec-87	F16	<22.00	<8.20	<12.00	<90.00	<36.00			
04U849	24-Aug-88	F19		<0.72	<1.00					
04U849	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U849	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U850	01-Dec-87	F16	<28.00	<10.00	<16.00	<110.00	<45.00			
04U850	02-May-89	F22		<1.80	<2.50			<1.00	2.50	<21.00
04U850	19-Jul-89	F23		<4.10	<6.20			<15.00	<17.00	<5.80
04U850	19-Oct-89	F24		0.27	<0.62			<3.09	<3.39	<1.17
04U850	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U850	15-Mar-91	F30	<26.00	<14.00	<20.00	<20.00	<64.00			
04U851	24-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
04U851	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U851	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U852	24-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
04U852	24-Aug-88	F19		<0.72	<1.00					
04U852	19-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U852	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U852 (4)	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U854	20-Oct-87	A16		<0.20						
04U854	13-Nov-87	A16		0.20						
04U854	16-Dec-88	A20		<1.00						
04U854	04-May-89	F22		<0.72	<1.00			<0.41	1.54	<8.28
04U854	20-Jul-89	F23		<8.20	<12.00			<62.00	<68.00	<23.00
04U854	17-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	1.18
04U854	30-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U855	25-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
04U855	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U859	13-Nov-87	A16		<0.20						
04U859	15-Dec-88	A20		<1.00						
04U859	30-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U859	19-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U860	13-Nov-87	A16		<0.20						
04U860	15-Dec-88	A20		<1.00						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCL/EE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
04U860	19-Apr-90	F26	<1.00	2.71	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U860	20-Mar-91	F30	<1.00	1.94	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U861	12-Nov-87	A16	<0.20	1.50	<0.20		<0.20	<0.20	<0.20	0.30	<0.20	1.00	<0.20
04U861	16-Dec-88	A20	<1.00	9.80	<1.00		<1.00	<1.00	<1.00	3.40	<1.00	<1.00	<1.00
04U861	30-Apr-90	F26	<1.00	2.74	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U861	25-Mar-91	F30	<1.00	8.49	<1.00	2.56			<1.90	<1.00	<1.00	<0.78	<0.50
04U871	20-Jun-88	A18	0.58	330.00	8.40		1.80	<0.20	<0.20	84.00	0.42	8.60	1.20
04U871	07-Jul-88	A19	0.29	272.00	7.80		1.60	<0.20	<0.20	70.00	<0.20	9.00	<0.20
04U871	23-Aug-88	F19	<10.00	420.00	32.00	<5.00			<19.00	110.00	<10.00		<5.00
04U871	08-Nov-88	F20	<10.00	380.00	14.00	<5.00			<19.00	110.00	<10.00		<5.00
04U871	31-Jan-89	A21	<1.00	31.00	<1.00		<1.00	<1.00	<1.00	4.80	<1.00	4.50	<1.00
04U871	05-May-89	F22									<2.00		
04U871	08-May-89	F22	<2.00	33.00	2.50	<1.00			<3.80	5.20			<1.00
04U871	19-Jul-89	F23	<1.80	24.00	<0.98	<1.10			<3.00	<1.60	<2.00		<1.00
04U871	23-Oct-89	F24	<1.80	23.00	1.60	2.60			<3.00	3.20	<2.00		<1.00
04U871	18-Apr-90	F26	<1.00	3.37	1.69	2.36			<1.90	<1.00	<1.00	8.04	<0.50
04U871	15-Mar-91	F30	<1.00	5.47	<1.00	1.26			<1.90	1.12	<1.00	5.88	<0.50
04U872	13-Jul-88	A19	<0.20	102.00	3.00		0.68	<0.20	<0.20	19.00	<0.20	4.30	<0.20
04U872	24-Aug-88	F19	<5.00	53.00	6.50	<2.50			<9.50	6.20	<5.00		<2.50
04U872	08-Nov-88	F20	<2.00	39.00	<2.00	<1.00			<3.80	5.50	<2.00		<1.00
04U872	01-Feb-89	A21	<1.00	12.00	<1.00		<1.00	<1.00	<1.00	2.30	<1.00	<1.00	<1.00
04U872	08-May-89	F22	<1.00	16.50	<1.00	<0.50			<1.90	2.08	<1.00		<0.50
04U872	19-Jul-89	F23	<0.88	13.20	<0.49	<0.56			<1.50	0.89	<0.99		<0.51
04U872	23-Oct-89	F24	<0.88	25.40	0.92	1.17			<1.50	2.09	<0.99		<0.51
04U872	18-Apr-90	F26	<1.00	14.90	<1.00	<0.50			<1.90	2.10	<1.00	0.90	<0.50
04U872	14-Mar-91	F30	<1.00	27.20	0.82	<0.50			<1.90	2.73	<1.00	<0.78	<0.50
04U872	16-Sep-91	M32	<0.20	57.00	1.30		<0.20	<0.10	<1.00	7.00	<0.20	<0.20	<0.20
04U875	20-Jun-88	A18	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U875	23-Aug-88	F19	<1.00	0.90	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
04U875	09-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
04U875	07-Feb-89	A21	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04U875	19-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
04U875	19-Oct-89	F24	<0.88	1.45	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
04U875	18-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U875	15-Mar-91	F30	<1.00	1.06	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
04U877	23-Aug-88	F19	<5.00	380.00	24.00	<2.50			<9.50	93.00	<5.00		<2.50
04U877	10-Nov-88	F20	<10.00	180.00	<10.00	<5.00			<19.00	32.00	<10.00		<5.00
04U877	08-Feb-89	A21	<1.00	38.00	1.50		<1.00	<1.00	<1.00	6.30	<1.00	2.60	<1.00
04U877	02-May-89	F22	<1.00	81.00	4.83	0.67			<1.90	11.10	<1.00		<0.50
04U877	18-Jul-89	F23	<4.40	89.00	<2.40	<2.80			<7.50	8.10	<5.00		<2.60
04U877	19-Oct-89	F24	<0.88	95.00	2.01	1.38			<1.50	7.55	<0.99		<0.51
04U877	17-Apr-90	F26	<1.00	73.00	2.97	0.73			<1.90	10.90	<1.00	3.98	<0.50
04U877	15-Mar-91	F30	<2.00	52.00	<2.00	<1.00			<3.80	7.20	<2.00	3.00	<1.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
04U860	19-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U860	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U861	12-Nov-87	A16		<0.20						
04U861	16-Dec-88	A20		<1.00						
04U861	30-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U861	25-Mar-91	F30	31.70	9.67	1.08	<1.00	<3.20			
04U871	20-Jun-88	A18		<0.20						
04U871	07-Jul-88	A19		<0.20						
04U871	23-Aug-88	F19		<7.20	<10.00			<4.10	<8.70	<83.00
04U871	08-Nov-88	F20		<7.20	<10.00					
04U871	31-Jan-89	A21		<1.00						
04U871	05-May-89	F22								
04U871	08-May-89	F22		<1.40	<2.00			<0.82	<1.70	<17.00
04U871	19-Jul-89	F23		<0.82	<1.20			<6.20	10.00	2.50
04U871	23-Oct-89	F24		<0.82	<1.20			<6.20	<6.80	<2.30
04U871	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U871	15-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U872	13-Jul-88	A19		<0.20						
04U872	24-Aug-88	F19		<3.60	<5.00			<2.10	170.00	<41.00
04U872	08-Nov-88	F20		<1.40	<2.00					
04U872	01-Feb-89	A21		<1.00						
04U872	08-May-89	F22		<0.72	<1.00			<0.41	3.11	<8.28
04U872	19-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	2.03
04U872	23-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
04U872	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	1.14	<8.28
04U872	14-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	1.22	<8.28
04U872	16-Sep-91	M32	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	0.30	
04U875	20-Jun-88	A18		<0.20						
04U875	23-Aug-88	F19		<0.72	<1.00			0.98	<0.87	<8.28
04U875	09-Nov-88	F20		<0.72	<1.00					
04U875	07-Feb-89	A21		<1.00						
04U875	19-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	1.22
04U875	19-Oct-89	F24		0.28	<0.62			<3.09	<3.39	<1.17
04U875	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U875	15-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U877	23-Aug-88	F19		<3.60	<5.00			<2.10	13.00	<41.00
04U877	10-Nov-88	F20		<7.20	<10.00					
04U877	08-Feb-89	A21		<1.00						
04U877	02-May-89	F22		<0.72	<1.00			<0.41	1.87	<8.28
04U877	18-Jul-89	F23		<2.00	<3.10			<15.00	<17.00	<5.80
04U877	19-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
04U877	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U877	15-Mar-91	F30	<2.60	<1.40	<2.00	<2.00	<6.40			

TABLE 2
TCAA ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAA GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
04U879	29-Jul-88	A19	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
04U879	01-Sep-88	F19	<1.00	1.09	<1.00	<0.50		<1.90	<1.90	<1.00	<1.00	<0.20	<0.50
04U879	08-Nov-88	F20	<1.00	<0.50	<1.00	<0.50		<1.90	<1.90	<1.00	<1.00	<0.20	<0.50
04U879	08-Feb-89	A21	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04U879	19-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
04U879	17-Oct-89	F24	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
04U879	18-Apr-90	F26	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U879	15-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U880	01-Sep-88	F19	<1.00	8.06	<1.00	<0.50		<1.90	1.43	<1.00			<0.50
04U880	10-Nov-88	F20	<1.00	16.40	<1.00	<0.50		<1.90	3.35	<1.00			<0.50
04U880	06-Feb-89	A21	<1.00	4.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04U880	18-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
04U880	19-Oct-89	F24	<0.88	1.47	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
04U880	18-Apr-90	F26	<1.00	0.77	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U880	14-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U881	09-Nov-88	F20	<1.00	2.70	<1.00	<0.50		<1.90	<1.00	<1.00			<0.50
04U881	07-Feb-89	A21	<1.00	2.30	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04U881	18-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
04U881	18-Oct-89	F24	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
04U881	17-Apr-90	F26	<1.00	1.21	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U881	14-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U882	13-Sep-88	F19	<1.00	27.70	<1.00	<0.50		<1.90	6.36	<1.00			<0.50
04U882	09-Nov-88	F20	<1.00	32.30	<1.00	<0.50		<1.90	7.73	<1.00			<0.50
04U882	31-Jan-89	A21	<1.00	10.00	<1.00		<1.00	<1.00	3.20	<1.00	1.30		<1.00
04U882	03-May-89	F22	<1.00	12.70	1.15	<0.50		<1.90	1.50	<1.00			<0.50
04U882	17-Jul-89	F23	<0.88	15.70	<0.49	<0.56		<1.50	1.73	<0.99			<0.51
04U882	18-Oct-89	F24	<0.88	6.43	0.80	1.18		<1.50	0.96	<0.99			<0.51
04U882	17-Apr-90	F26	<1.00	7.73	<1.00	1.23		<1.90	<1.00	<1.00	1.70		<0.50
04U882	14-Mar-91	F30	<1.00	1.22	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U882	16-Sep-91	M32	<0.20	8.80	<0.50		<0.20	<0.10	1.10	<0.20	<0.20		<0.20
04U883	09-Nov-88	F20	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00			<0.50
04U883	08-Feb-89	A21	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
04U883	17-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
04U883	18-Oct-89	F24	<0.88	1.47	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
04U883	17-Apr-90	F26	<1.00	0.87	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U883	14-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78		<0.50
04U883	17-Sep-91	M32	Obstruction in Well										
134318	27-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
139035	31-Jul-89	F23	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
139035	31-Oct-89	F24	<0.88	<1.10	<0.49	<0.56		<1.50	<0.81	<0.99			<0.51
191942	30-Nov-87	F16	<22.00	210.00	<12.00	<14.00		<38.00	50.00	<25.00	<18.00		<13.00

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
04U879	29-Jul-88	A19		<0.20		<0.20		<0.20	0.39	0.24
04U879	01-Sep-88	F19		<0.72	<1.00			<0.41	26.60	<8.28
04U879	08-Nov-88	F20		<0.72	<1.00					
04U879	08-Feb-89	A21		<1.00						
04U879	19-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	1.50
04U879	17-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	1.17
04U879	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U879	15-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U880	01-Sep-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
04U880	10-Nov-88	F20		<0.72	<1.00					
04U880	06-Feb-89	A21		<1.00						
04U880	18-Jul-89	F23		<0.41	<0.62			<3.09	9.07	12.90
04U880	19-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
04U880	18-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U880	14-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
04U881	09-Nov-88	F20		<0.72	<1.00					
04U881	07-Feb-89	A21		<1.00						
04U881	18-Jul-89	F23		<0.41	<0.62			<3.09	13.50	14.70
04U881	18-Oct-89	F24		<0.41	<0.62			<3.09	6.02	2.53
04U881	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	0.83	4.27	<8.28
04U881	14-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U882	13-Sep-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
04U882	09-Nov-88	F20		<0.72	<1.00					
04U882	31-Jan-89	A21		<1.00						
04U882	03-May-89	F22		<0.72	<1.00			0.82	5.80	<8.28
04U882	17-Jul-89	F23		<0.41	<0.62			<3.09	6.03	1.71
04U882	18-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
04U882	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U882	14-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U882	16-Sep-91	M32	<0.20	<0.10	<0.20	<0.20	<0.50	22.00	4.20	
04U883	09-Nov-88	F20		<0.72	<1.00					
04U883	08-Feb-89	A21		<1.00						
04U883	17-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
04U883	18-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
04U883	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
04U883	14-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
04U883	17-Sep-91	M32								
134318	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
139035	31-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
139035	31-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
191942	30-Nov-87	F16	<28.00	<10.00	<16.00	<110.00	<45.00			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
200154	31-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
200264	25-Aug-88	F19	15.90	7.48	1.68	19.50			<1.90	15.90	1.31		<0.50
200524	16-Aug-88	F19	<1.00	3.66	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
200524	05-Dec-90	M29 +	<0.20	23.00	1.20		0.30	<0.10	<0.10	3.20	<0.20	0.90	<0.20
200524	25-Apr-91	M31 +	<0.20	14.00	PP		<0.20	<0.10	<1.00	0.90	<0.20	0.40	<0.20
200524	16-Sep-91	M32	<0.20	15.00	<0.50		<0.20	<0.10	<1.00	1.10	<0.20	<0.20	<0.20
200803	16-Aug-88	F19	<1.00	13.50	<1.00	<0.50			<1.90	1.61	<1.00		<0.50
200803	05-Dec-90	M29 +	<0.20	29.00	1.40		0.40	<0.10	<0.10	2.70	<0.20	1.30	<0.20
200803	25-Apr-91	M31 +	<0.20	22.00	0.80		<0.20	<0.10	<1.00	1.50	<0.20	0.80	<0.20
200803	16-Sep-91	M32	<0.20	22.00	<0.50		<0.20	<0.10	<1.00	1.50	<0.20	<0.20	<0.20
200812	02-May-90	F26	<1.00	170.00	6.38	0.98			<1.90	26.10	<1.00	4.93	<0.50
200812	23-Jul-90	F27	<1.00	100.00	4.29	0.72			<1.90	17.00	<1.00	3.47	<0.50
200812	24-Sep-90	F28	<1.00	79.00	3.06	<0.50			<1.90	12.50	<1.00	2.53	<0.50
200812	18-Oct-90	M29 +	<0.20	94.00	<5.00		<2.00	<1.00	<10.00	18.00	<2.00	<2.00	<2.00
200812	07-Jun-91	F31											
200812	07-Jun-91	F31	<2.00	10.00	4.30	<1.00		<0.60	<3.80	19.00	<2.00	3.80	<1.00
200812	07-Jun-91	F31											
200812	(4) 07-Jun-91	F31	<2.00	120.00	5.20	<1.00		<0.60	<3.80	18.00	<2.00	3.80	<1.00
200812	25-Jul-91	M31	<0.50	77.00	PP		<0.50	<0.30	<2.50	14.00	<0.50	<0.50	<0.50
200812	04-Sep-91	F32	<1.00	110.00	2.83	0.54			<1.90	12.40	<1.00	2.67	<0.50
200814	31-Jul-89	F23	<1.80	38.00	<0.98	<1.10			<3.00	2.80	<2.00		<1.00
200814	30-Oct-89	F24	<1.80	46.00	2.00	2.40			<3.00	3.80	<2.00		<1.00
201082	31-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
206688	23-Oct-89	F24	<0.88	8.68	0.80	<0.56			<1.50	1.72	<0.99		<0.51
206787	24-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
206787	02-May-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
206787	23-Jul-90	F27	<1.00	0.99	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
206787	20-Sep-90	F28	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
206787	04-Sep-91	F32	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
206791	23-Jul-90	F27	<1.00	3.84	<1.00	<0.50				<1.00	<1.00	<0.78	<0.50
206793	23-Jul-90	F27	<1.00	490.00	16.00	2.23			<1.90	68.00	<1.00	14.00	0.70
206793	07-Jun-91	F31	<10.00	410.00	21.00	<5.00		<3.00	<19.00	94.00	<10.00	17.00	<5.00
206797	23-Jul-90	F27	<1.00	85.00	3.51	0.63			<1.90	15.00	<1.00	2.64	<0.50
206797	25-Mar-91	F30	<2.50	120.00	<2.50	<1.30			<4.80	22.00	<2.50	3.20	<1.30
206797	25-Mar-91	M30	<0.20	56.00	6.20		1.10	<0.10	<0.10	15.00	<0.20	3.20	0.20
231878	23-Oct-87	A16	<0.20	49.90	<0.20		4.70	<0.20	<0.20	0.60	<0.20	<0.20	<0.20

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCl4	Chloro form CHCl3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2Cl2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
200154	31-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
200264	25-Aug-88	F19		<0.72	<1.00					
200524	16-Aug-88	F19		2.41	<1.00					
200524	05-Dec-90	M29 +	<0.20	0.60	<0.20	<0.20	<0.50	<0.20	<0.20	
200524	25-Apr-91	M31 +	<0.20	0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
200524	16-Sep-91	M32	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
200803	16-Aug-88	F19		<0.72	<1.00					
200803	05-Dec-90	M29 +	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
200803	25-Apr-91	M31 +	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
200803	16-Sep-91	M32	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
200812	02-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
200812	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
200812	24-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
200812	18-Oct-90	M29 +	<2.00	<1.00	<2.00	<2.00	<5.00	<2.00	<2.00	
200812	07-Jun-91	F31						<0.41	<0.87	<8.28
200812	07-Jun-91	F31	<2.60	<1.40	<2.00	<2.00	<6.40	<0.82	<1.70	<17.00
200812	07-Jun-91	F31						<0.41	<0.87	<8.28
200812 (4)	07-Jun-91	F31	<2.60	<1.40	<2.00	<2.00	<6.40	<0.82	<1.70	<17.00
200812	25-Jul-91	M31	<0.50	<0.30	<0.50	<0.50	<1.30	<0.50	<0.50	
200812	04-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
200814	31-Jul-89	F23		<0.82	<1.20			<3.09	<3.39	<1.17
200814	30-Oct-89	F24		<0.82	<1.20			<6.20	<6.80	<2.30
201082	31-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
206688	23-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
206787	24-Oct-89	F24		<0.41	<0.62			<3.09	39.00	<1.17
206787	02-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
206787	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
206787	20-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
206787	04-Sep-91	F32	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
206791	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
206793	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
206793	07-Jun-91	F31	<13.00	<7.20	<10.00	<10.00	<32.00			
206797	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
206797	25-Mar-91	F30	<3.30	<1.80	<2.50	<2.50	<8.00			
206797	25-Mar-91	M30	<0.20	0.10	<0.20	0.30	<0.50	<0.20	<0.20	
231878	23-Oct-87	A16		<0.20						

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
233221	11-May-89	F22	<1.00	29.20	2.03	1.56			<1.90	2.17	<1.00		<0.50
233221	31-Jul-89	F23	<4.40	120.00	2.20	<2.80			<7.50	4.50	<5.00		<2.60
233221	30-Oct-89	F24	<4.40	46.00	4.00	5.90			<7.50	4.20	<5.00		<2.60
233221	02-May-90	F26	<2.00	20.00	<2.00	<1.00			<3.80	<2.00	<2.00	2.00	<1.00
233221	01-Apr-91	F30	<1.00	8.07	<1.00	1.29			<1.90	<1.00	<1.00	<0.78	<0.50
233222	25-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
233533	30-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
234319	26-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
234335	13-Nov-87	A16	<0.20	52.30	0.50		5.00	<0.20	<0.20	0.30	<0.20	0.70	<0.20
234335	26-Aug-88	F19	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
234335	02-May-90	F26	<1.00	140.00	<1.00	7.61			<1.90	<1.00	<1.00	<0.78	<0.50
234335	23-Jul-90	F27	<1.00	150.00	<1.00	7.30			<1.90	<1.00	<1.00	1.00	<0.50
234337	23-Oct-87	A16	<0.20	<0.20	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
234353	12-May-89	F22	1.34	4.10	<1.00	0.66			<1.90	<1.00	<1.00		<0.50
234353	31-Jul-89	F23	<0.88	4.47	<0.49	0.82			<1.50	<0.81	<0.99		<0.51
234356	25-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
234356	26-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
234357	10-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	1.38	<1.00		<0.50
234357	20-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	1.05	<0.99		<0.51
234357	20-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	1.35	<0.99		<0.51
234425	10-May-89	F22											
234425	11-May-89	F22	<50.00	3100.00	140.00	<25.00			<95.00	810.00	<50.00		<25.00
234425	10-Sep-91	M32	Dry										
234430	09-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
234430	27-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
234430	26-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
234463	08-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		0.87
234463	03-Aug-89	F23	<0.88	1.69	<0.49	<0.56			<1.50	<0.81	<0.99		0.86
234463	31-Oct-89	F24	<0.88	2.00	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
234546	02-May-90	F26	<1.00	50.00	<1.00	<0.50			<1.90	5.84	<1.00	2.19	<0.50
234546	01-Apr-91	F30	<1.00	7.23	<1.00	<0.50			<1.90	1.12	<1.00	<0.78	<0.50
234547	10-May-89	F22	<1.00	12.20	<1.00	<0.50			<1.90	2.34	<1.00		<0.50
234547	31-Jul-89	F23	<0.88	16.10	<0.49	<0.56			<1.50	3.26	<0.99		<0.51
234547	30-Oct-89	F24	<0.88	12.00	0.78	1.24			<1.50	1.54	<0.99		<0.51
234547	02-May-90	F26	<1.00	17.60	<1.00	<0.50			<1.90	3.07	<1.00	<0.78	<0.50
234547	01-Apr-91	F30	<1.00	8.11	<1.00	<0.50			<1.90	1.65	<1.00	<0.78	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
233221	11-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
233221	31-Jul-89	F23		<2.00	<3.10			<15.00	<17.00	<5.80
233221	30-Oct-89	F24		<2.00	<3.10			<15.00	<17.00	<5.80
233221	02-May-90	F26	<2.60	<1.40	<2.00	<2.00	6.60			
233221	01-Apr-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
233222	25-Aug-88	F19		<0.72	<1.00					
233533	30-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
234319	26-Aug-88	F19		<0.72	<1.00					
234335	13-Nov-87	A16		0.50						
234335	26-Aug-88	F19		<0.72	<1.00					
234335	02-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
234335	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
234337	23-Oct-87	A16		<0.20						
234353	12-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
234353	31-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
234356	25-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
234356	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
234357	10-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
234357	20-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
234357	20-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
234425	10-May-89	F22						<21.00	<44.00	<410.00
234425	11-May-89	F22		<36.00	<50.00					
234425	10-Sep-91	M32								
234430	09-May-89	F22		<0.72	<1.00			<0.41	3.21	<8.28
234430	27-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
234430	26-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
234463	08-May-89	F22		<0.72	<1.00			2.00	<0.87	<8.28
234463	03-Aug-89	F23		<0.41	<0.62			3.45	<3.39	<1.17
234463	31-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
234546	02-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
234546	01-Apr-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
234547	10-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
234547	31-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
234547	30-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
234547	02-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
234547	01-Apr-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2- Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
235539	26-Aug-88	F19	<1.00	1.49	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
235619	31-Jul-89	F23	<0.88	<1.10	<0.49	1.27			<1.50	<0.81	<0.99		4.34
235619	31-Oct-89	F24	<0.88	1.90	1.31	<0.56			<1.50	<0.81	1.87		<0.51
235735	31-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
235735	31-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
236122	12-Jul-88	A19	2.40	1465.00	31.00		7.70	<0.20	<0.20	400.00	1.50	33.00	2.50
405651	31-Jul-89	F23	<0.88	16.60	0.55	8.57			<1.50	1.98	<0.99		<0.51
405651	31-Oct-89	F24	<0.88	11.30	0.89	8.60			<1.50	<0.81	<0.99		<0.51
405651	02-May-90	F26	<1.00	6.09	1.44	17.80			<1.90	<1.00	<1.00	4.51	<0.50
405651	01-Apr-91	F30	<1.00	6.64	1.45	16.10		<0.40	<1.90	<1.00	<1.00	3.94	<0.50
409546	10-May-89	F22	<1.00	0.62	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
409546	20-Jul-89	F23	<0.88	<1.10	<0.49	1.01			<1.50	<0.81	<0.99		<0.51
409546	18-Oct-89	F24	<0.88	<1.10	0.77	<0.56			<1.50	<0.81	<0.99		<0.51
409546	17-Apr-90	F26	<1.00	1.20	<1.00	<0.50			<1.90	<1.00	<1.00	1.49	<0.50
409546	18-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	1.73	<0.50
409547	13-Nov-87	A16	<0.20	0.90	<0.20		<0.20	<0.20	<0.20	0.50	<0.20	<0.20	<0.20
409547	26-Apr-90	F26	<1.00	4.62	<1.00	<0.50			<1.90	1.05	<1.00	<0.78	<0.50
409547	20-Jul-90	F27	<1.00	4.17	<1.00	<0.50			<1.90	1.10	<1.00	<0.78	<0.50
409547	18-Sep-90	F28	<1.00	2.93	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
409547	20-Mar-91	F30	<1.00	1.70	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
409548	10-May-89	F22	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
409548	20-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
409548	18-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
409548	17-Apr-90	F26	<1.00	1.17	<1.00	<0.50			<1.90	<1.00	<1.00	1.52	<0.50
409548	18-Mar-91	F30	<1.00	0.88	<1.00	<0.50			<1.90	<1.00	<1.00	1.54	<0.50
409549	17-Aug-88	F19	<1.00	220.00	10.30	7.42			<1.90	22.20	<1.00		1.12
409549	18-Apr-90	F26	<5.00	200.00	8.50	<2.50			<9.50	15.00	<5.00	18.00	<2.50
409549	23-Jul-90	F27	<1.00	150.00	5.60	<0.50			<1.90	25.00	<1.00	8.10	<0.50
409549	18-Sep-90	F28	<1.00	180.00	6.70	<0.50			<1.90	37.00	<1.00	5.60	<0.50
409549	18-Mar-91	F30	<5.00	120.00	<5.00	<2.50		<1.50	<9.50	21.00	<5.00	6.80	<2.50
409549	05-Jun-91	F31	<1.00	190.00	7.49	1.24			<1.90	41.10	<1.00	6.64	<0.50
409549	(4) 05-Jun-91	F31	<5.00	190.00	9.20	<2.50			<9.50	42.00	<5.00	6.80	<2.50
409549	18-Jun-91	F31	<5.00	120.00	<5.00	<2.50		<1.50	<9.50	21.00	<5.00	6.80	<2.50
409549	03-Sep-91	F32	<2.00	84.00	<2.00	<1.00			<3.80	15.60	<2.00	2.40	<1.00
409550	10-May-89	F22	<2.00	78.00	11.00	2.00			<3.80	47.00	5.60		<1.00
409550	20-Oct-89	F24	<4.40	110.00	8.60	6.40			<7.50	35.00	12.00		<2.60
409550	24-Apr-90	F26	<1.00	220.00	18.00	4.10			<1.90	83.00	7.30	23.00	1.50
409550	20-Jul-90	F27	<1.00	260.00	19.00	<0.50			<1.90	86.00	3.55	23.00	0.71
409550	18-Sep-90	F28	2.91	940.00	55.80	6.63			<1.90	400.00	3.15	34.60	1.15

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
235539	26-Aug-88	F19		<0.72	<1.00					
235619	31-Jul-89	F23		0.27	<0.62			<3.09	<3.39	<1.17
235619	31-Oct-89	F24		14.00	<0.62			<3.09	<3.39	<1.17
235735	31-Jul-89	F23		<0.41	<0.62			<3.09	13.20	<1.17
235735	31-Oct-89	F24		3.00	<0.62			<3.09	<3.39	<1.17
236122	12-Jul-88	A19		0.23						
405651	31-Jul-89	F23		<0.41	<0.62			<3.09	7.22	<1.17
405651	31-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
405651	02-May-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
405651	01-Apr-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
409546	10-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
409546	20-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	2.23
409546	18-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
409546	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
409546	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
409547	13-Nov-87	A16		<0.20						
409547	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
409547	20-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
409547	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	3.52			
409547	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
409548	10-May-89	F22		<0.72	<1.00			<0.41	1.05	<8.28
409548	20-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	2.71
409548	18-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	1.48
409548	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
409548	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
409549	17-Aug-88	F19		<0.72	<1.00					
409549	18-Apr-90	F26	<6.50	<3.60	<5.00	<5.00	<16.00			
409549	23-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	20.00			
409549	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20			
409549	18-Mar-91	F30	<6.50	<3.60	<5.00	<5.00	<16.00			
409549	05-Jun-91	F31	<1.30	<0.72	<1.00	<1.00	<3.20			
409549 (4)	05-Jun-91	F31	<6.50	<3.60	<5.00	<5.00	<16.00			
409549	18-Jun-91	F31	<6.50	<3.60	<5.00	<5.00	<16.00			
409549	03-Sep-91	F32	<2.60	<1.44	<2.00	<2.00	<6.40			
409550	10-May-89	F22		<1.40	<2.00			<0.82	<1.70	<17.00
409550	20-Oct-89	F24		<2.00	<3.10			<15.00	<17.00	18.00
409550	24-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	8.20			
409550	20-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20			
409550	18-Sep-90	F28	<1.30	1.90	<1.00	2.50	3.40			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCL1EE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
409550	21-Mar-91	F30	<50.00	1600.00	76.00	<25.00			<95.00	620.00	<50.00	<39.00	<25.00
409550	12-Sep-91	M32	<40.00	3200.00	<100.00		<40.0	<20.00	<200.00	1200.00	<40.00	<40.00	<40.00
409555	17-Aug-88	F19	<1.00	1.04	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
409556	10-May-89	F22	<1.00	1.53	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
409556	21-Jul-89	F23	<0.88	1.42	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
409556	17-Oct-89	F24	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
409556	17-Apr-90	F26	<1.00	0.98	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
409556	18-Mar-91	F30	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
409556	(4) 18-Mar-91	F30	<1.00	0.58	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
409557	13-Nov-87	A16	<0.20	0.50	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
409557	04-May-89	F22	<1.00	0.62	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
409557	21-Jul-89	F23	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
409557	27-Oct-89	F24	<0.88	1.40	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
409557	26-Apr-90	F26	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
409557	20-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
409595	30-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
409596	30-Nov-87	F16	<0.88	2.30	0.61	<0.56			<1.50	6.49	<0.99	2.07	<0.51
409596	25-Apr-90	F26	<1.00	0.56	1.21	<0.50			<1.90	<1.00	<1.00	3.41	<0.50
409596	29-Mar-91	F30	<1.00	4.43	1.71	<0.50		<0.30	<1.90	3.79	<1.00	2.99	<0.50
409596	(4) 29-Mar-91	F30	<1.00	6.61	2.35	<0.50		<0.30	<1.90	5.83	<1.00	3.46	<0.50
409597	30-Nov-87	F16	<18.00	250.00	<10.00	<11.00			<30.00	58.00	<20.00	<14.00	<10.00
409597	25-Apr-90	F26	<1.00	123.93	9.05	3.25			<1.90	8.19	<1.00	17.49	0.74
409597	29-Mar-91	F30	<5.00	200.00	12.00	<2.50		<7.50	<9.50	33.00	<5.00	14.00	<2.50
409597	(4) 29-Mar-91	F30	<5.00	200.00	11.00	<2.50		<7.50	<9.50	29.00	<5.00	14.00	<2.50
409598	30-Nov-87	F16	<88.00	1300.00	<49.00	<56.00			<150.00	230.00	<99.00	<72.00	<51.00
500691	17-Oct-89	F24	<0.88	2.13	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
500691	19-Apr-90	F26	<1.00	2.91	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
500691	20-Jul-90	F27	<1.00	1.64	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
500691	18-Sep-90	F28	<1.00	4.29	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
500691	18-Mar-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
508115	18-Oct-89	F24	<0.88	1.57	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
508115	19-Apr-90	F26	<1.00	1.35	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
508115	20-Jul-90	F27	<1.00	5.48	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
508115	18-Sep-90	F28	<1.00	3.74	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
508115	18-Mar-91	F30	<1.00	1.05	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
PJ#003	19-Nov-87	F16	<0.88	6.83	<0.49	<0.56			<1.50	0.85	<0.99	<0.72	<0.51
PJ#003	19-Mar-91	A30	<1.00	0.70	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
PJ#027	20-Nov-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
409550	21-Mar-91	F30	<65.00	<36.00	<50.00	<50.00	<160.00			
409550	12-Sep-91	M32	<40.00	<20.00	<40.00	<40.00	<100.00	<40.00	<40.00	
409555	17-Aug-88	F19		<0.72	<1.00					
409556	10-May-89	F22		<0.72	<1.00			2.28	3.07	<8.28
409556	21-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	<1.17
409556	17-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
409556	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
409556	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
409556	(4) 18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
409557	13-Nov-87	A16		<0.20						
409557	04-May-89	F22		<0.72	<1.00			<0.41	<0.87	<8.28
409557	21-Jul-89	F23		<0.41	<0.62			<3.09	<3.39	3.21
409557	27-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
409557	26-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
409557	20-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
409595	30-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
409596	30-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
409596	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
409596	29-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
409596	(4) 29-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
409597	30-Nov-87	F16	<22.00	<8.20	<12.00	<90.00	<36.00			
409597	25-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
409597	29-Mar-91	F30	<6.50	<3.60	<5.00	<5.00	23.00			
409597	(4) 29-Mar-91	F30	<6.50	<3.60	<5.00	<5.00	16.00			
409598	30-Nov-87	F16	<110.00	<41.00	<62.00	<450.00	<180.00			
500691	17-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	1.82
500691	19-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
500691	20-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
500691	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
500691	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
508115	18-Oct-89	F24		<0.41	<0.62			<3.09	<3.39	<1.17
508115	19-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
508115	20-Jul-90	F27	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
508115	18-Sep-90	F28	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
508115	18-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#003	19-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
PJ#003	19-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#027	20-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17

TABLE 2
TCAAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
PJ#074	03-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
PJ#074	19-Aug-88	F19	<1.00	7.99	<1.00	<0.50			<1.90	1.99	<1.00		<0.50
PJ#309	18-Nov-88	A20	<0.50	337.00	6.70		3.70	<0.50	<0.50	138.00	<0.50	18.00	3.00
PJ#309	16-Mar-89	A21	<1.00	200.00	13.00		6.30	<1.00	<1.00	63.00	<1.00	22.00	<1.00
PJ#309	20-Apr-89	A22	<0.20	320.00	13.00		4.00	<0.20	<1.00	45.00	<0.20	19.00	<0.20
PJ#309	19-Jul-89	A23	<1.00	190.00	22.00		5.30	<1.00	<5.00	48.00	<1.00	20.00	<1.00
PJ#309	23-Oct-89	A24	<2.00	270.00	21.00		4.10	<2.00	<10.00	68.00	<2.00	28.00	<2.00
PJ#309	18-Jan-90	A25	<2.00	260.00	21.00		7.70	<2.00	<10.00	68.00	<2.00	37.00	<2.00
PJ#309	08-May-90	A26	<0.50	280.00	15.00		5.30	<0.50	<0.50	52.00	<0.50	18.00	<0.50
PJ#309	13-Jul-90	A27	<2.50	250.00	23.00		8.40		<3.80	57.00	<2.50	30.00	<0.50
PJ#309	19-Dec-90	A29	<1.00	223.18	<1.00	<0.50			<1.90	36.46	<1.00	18.12	<0.50
PJ#309	19-Mar-91	A30	<5.00	260.00	12.00		4.20	<1.50	<9.50	51.00	<5.00	19.00	<2.50
PJ#309	05-Jun-91	A31	<10.00	300.00	18.00		5.40	<3.00	<19.00	61.00	<10.00	22.00	<5.00
PJ#309	05-Sep-91	A32	<10.00	260.00	<10.00	<5.00		<3.00	<19.00	47.00	<10.00	15.00	<5.00
PJ#310	16-Mar-89	A21	<1.00	470.00	38.00		10.00	<1.00	<1.00	180.00	<1.00	48.00	5.40
PJ#310	20-Apr-89	A22	<0.20	700.00	47.00		8.20	<0.20	<1.00	150.00	0.20	30.00	0.60
PJ#310	19-Jul-89	A23	<2.00	480.00	74.00		11.00	<2.00	<10.00	240.00	<2.00	46.00	<2.00
PJ#310	11-Oct-89	A24	<2.00	560.00	63.00		5.60	<2.00	<10.00	220.00	<2.00	35.00	<2.00
PJ#310	19-Jan-90	A25	<0.20	630.00	46.00		9.80	<0.20	<1.00	230.00	<0.20	47.00	<0.20
PJ#310	08-May-90	A26	<0.50	500.00	36.00		6.70	<0.50	<0.50	140.00	<0.50	24.00	0.60
PJ#310	13-Jul-90	A27	<10.00	690.00	65.00		10.00		<15.00	240.00	<10.00	54.00	<2.00
PJ#310	19-Dec-90	A29	<1.00	606.22	27.30	<0.50			<1.90	160.66	<1.00	33.72	<0.50
PJ#310	19-Mar-91	A30	<20.00	580.00	26.00	<10.00		<6.00	<38.00	160.00	<20.00	25.00	<10.00
PJ#310	06-Jun-91	A31	<20.00	470.00	35.00	<10.00		<6.00	<38.00	120.00	<20.00	23.00	<10.00
PJ#310	05-Sep-91	A32	<25.00	590.00	<25.00	<13.00		<7.50	<48.00	140.00	<25.00	21.00	<13.00
PJ#311	16-Mar-89	A21	<5.00	150.00	<5.00		<5.00	<5.00	<5.00	36.00	<5.00	<5.00	<5.00
PJ#311	20-Apr-89	A22	<0.20	82.00	3.30		0.40	<0.20	<1.00	16.00	<0.20	1.10	<0.20
PJ#311	19-Jul-89	A23	<0.40	67.00	5.00		0.60	<0.40	<2.00	21.00	<0.40	1.10	<0.40
PJ#311	24-Oct-89	A24	<0.40	52.00	3.20		<0.40	<0.40	<2.00	15.00	<0.40	<0.40	<0.40
PJ#311	19-Jan-90	A25	<0.40	47.00	1.40		<0.40	<0.40	<2.00	13.00	<0.40	0.90	<0.40
PJ#311	08-May-90	A26	<0.50	17.00	<0.50		<0.50	<0.50	<0.50	4.00	<0.50	<0.50	<0.50
PJ#311	13-Jul-90	A27	<1.00	30.00	1.90		<0.50		<1.50	8.40	<1.00	0.60	<0.20
PJ#311	19-Dec-90	A29	<1.00	30.90	<1.00	<0.50			<1.90	5.81	<1.00	<0.78	<0.50
PJ#311	19-Mar-91	A30	<1.00	24.80	<1.00	<0.50		<0.30	<1.90	58.70	<1.00	<0.78	<0.50
PJ#311	06-Jun-91	A31	<1.00	25.00	<1.00	<0.50		<0.30	<1.90	4.96	<1.00	<0.78	<0.50
PJ#311	06-Jun-91	A31	<1.00	24.80	<1.00	<0.50		<0.30	<1.90	4.88	<1.00	<0.78	<0.50
PJ#311	05-Sep-91	A32	<1.00	25.10	<1.00	<0.50		<0.30	<1.90	4.68	<1.00	<0.78	<0.50
PJ#313	16-Mar-89	A21	<1.00	18.00	<1.00		<1.00	<1.00	<1.00	3.30	<1.00	<1.00	<1.00
PJ#313	20-Apr-89	A22	<0.20	27.00	<1.00		<0.20	<0.20	<1.00	2.90	<0.20	0.90	<0.20
PJ#313	19-Jul-89	A23	<0.20	25.00	2.10		<0.20	<0.20	<1.00	7.70	<0.20	0.50	<0.20
PJ#313	23-Oct-89	A24	<0.20	15.00	0.60		<0.20	<0.20	<1.00	3.00	<0.20	0.40	<0.20
PJ#313	19-Jan-90	A25	<0.20	14.00	0.30		<0.20	<0.20	<1.00	2.50	<0.20	0.40	<0.20
PJ#313	08-May-90	A26	<0.50	17.00	<0.50		<0.50	<0.50	<0.50	1.20	<0.50	<0.50	<0.50
PJ#313	13-Jul-90	A27			<0.300		<0.50		<1.50	1.90	<1.00	<0.20	<0.20

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
PJ#074	03-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
PJ#074	19-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
PJ#309	18-Nov-88	A20		<0.50						
PJ#309	16-Mar-89	A21		<1.00						
PJ#309	20-Apr-89	A22		0.50						
PJ#309	19-Jul-89	A23		<1.00						
PJ#309	23-Oct-89	A24		<2.00						
PJ#309	18-Jan-90	A25		<2.00						
PJ#309	08-May-90	A26	<0.50	<0.50	<0.50		2.90			
PJ#309	13-Jul-90	A27	<0.80	<1.20	<0.50		4.00			
PJ#309	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#309	19-Mar-91	A30	<6.50	<3.60	<5.00	<5.00	<16.00			
PJ#309	05-Jun-91	A31	<13.00	<7.20	<10.00	<10.00	<32.00			
PJ#309	05-Sep-91	A32	<13.00	<7.20	<10.00	<10.00	<32.00			
PJ#310	16-Mar-89	A21		<1.00						
PJ#310	20-Apr-89	A22		0.40						
PJ#310	19-Jul-89	A23		<2.00						
PJ#310	11-Oct-89	A24		<2.00						
PJ#310	19-Jan-90	A25		<0.20						
PJ#310	08-May-90	A26	<0.50	<0.50	<0.50		3.40			
PJ#310	13-Jul-90	A27	<3.00	<5.00	<2.00					
PJ#310	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#310	19-Mar-91	A30	<26.00	<14.00	<20.00	<20.00	<64.00			
PJ#310	06-Jun-91	A31	<26.00	<14.00	<20.00	<20.00	<64.00			
PJ#310	05-Sep-91	A32	<33.00	<18.00	<25.00	<25.00	<80.00			
PJ#311	16-Mar-89	A21		<5.00						
PJ#311	20-Apr-89	A22		<0.20						
PJ#311	19-Jul-89	A23		<0.40						
PJ#311	24-Oct-89	A24		<0.40						
PJ#311	19-Jan-90	A25		<0.40						
PJ#311	08-May-90	A26	<0.50	<0.50	<0.50		<0.50			
PJ#311	13-Jul-90	A27	<0.30	<0.50	<0.20		<1.00			
PJ#311	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#311	19-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#311	06-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#311	06-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#311	05-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#313	16-Mar-89	A21		<1.00						
PJ#313	20-Apr-89	A22		<0.20						
PJ#313	19-Jul-89	A23		0.40						
PJ#313	23-Oct-89	A24		<0.20						
PJ#313	19-Jan-90	A25		<0.20						
PJ#313	08-May-90	A26	<0.50	<0.50	<0.50		2.70			
PJ#313	13-Jul-90	A27	<0.30	<0.50	<0.20		1.40			

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCE	1,2-Di chloro ethane 12DCE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
PJ#313	13-Jul-90	A27			<0.300		<0.50		<1.50	1.90	<1.00	<0.20	<0.20
PJ#313	19-Dec-90	A29	<1.00	10.30	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
PJ#313	19-Mar-91	A30	<1.00	9.12	<1.00	<0.50		<0.30	<1.90	1.18	<1.00	<0.78	<0.50
PJ#313	05-Jun-91	A31	<1.00	6.97	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50
PJ#313	05-Sep-91	A32	<1.00	20.30	<1.00	1.33		<0.30	<1.90	<1.00	<1.00	2.20	<0.50
PJ#318	24-Aug-88	F19	<1.00	4.26	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
PJ#318	09-Nov-88	F20	<1.00	3.20	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
PJ#318	06-Feb-89	A21	<1.00	5.90	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
PJ#318	02-May-89	F22	<1.00	1.85	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
PJ#318	19-Jul-89	F23	<0.88	2.70	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
PJ#318	18-Oct-89	F24	<0.88	4.47	0.73	1.14			<1.50	<0.81	<0.99		<0.51
PJ#318	17-Apr-90	F26	<1.00	4.68	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
PJ#318	14-Mar-91	F30	<1.00	3.23	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
PJ#502	18-Nov-87	F16	<0.88	7.65	<0.49	<0.56			<1.50	1.71	<0.99	<0.72	<0.51
PJ#503	18-Nov-87	F16	<8.80	130.00	<4.90	<5.60			<15.00	29.00	<9.90	<7.20	<5.10
PJ#506	19-Nov-87	F16	<44.00	890.00	<24.00	<28.00			<75.00	180.00	<50.00	<36.00	<26.00
PJ#507	18-Nov-87	F16	<44.00	890.00	<24.00	<28.00			<75.00	190.00	<50.00	<36.00	<26.00
PJ#508	23-Aug-88	F19	<20.00	790.00	45.00	61.00			<38.00	250.00	<20.00		<10.00
PJ#802	02-Dec-87	F16	<0.88	<1.10	<0.49	<0.56			<1.50	<0.81	<0.99	<0.72	<0.51
PJ#802	17-Sep-91	M32	<0.20	0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
PJ#806	02-Dec-87	F16	<44.00	490.00	<24.00	<28.00			<75.00	130.00	<50.00	<36.00	<26.00
PJ#806	19-Jan-88	A17	<0.20	1870.00	190.00		35.00	<0.20	0.70	685.00	0.54	121.00	3.40
PJ#806	12-May-88	A18	<0.20	356.00	24.00		6.10	<0.20	<0.20	209.00	<0.20	29.00	0.75
PJ#806	04-Aug-88	A19	<0.20	103.00	9.70		4.80	<0.20	<0.20	28.00	<0.20	16.00	<0.20
PJ#806	21-Oct-88	A20	<0.50	110.00	7.70		7.10	<0.50	<0.50	39.00	<0.50	23.00	<1.00
PJ#806	16-Oct-89	A24	<2.00	250.00	34.00		6.90	<2.00	<10.00	71.00	<2.00	37.00	<2.00
PJ#806	23-Apr-90	A26	<0.50	770.00	77.00		9.30	<0.50	<0.50	50.00	<0.50	82.00	<0.50
PJ#806	11-Mar-91	A30	<50.00	910.00	65.00	<25.00		<15.00	<95.00	260.00	<50.00	79.00	<25.00
BOYLE	18-Oct-89	F24	<0.88	1.43	<0.49	<0.56			<1.50	<0.81	<0.99		<0.51
BOYLE	20-Oct-89	F24											
MNDOT	07-Nov-88	F20	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00		<0.50
MNDOT	01-Apr-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
1831CORDI	22-Jan-91	M30	<0.20	1.70	<0.50		2.20	0.90	<1.00	<0.20	<0.20	<0.20	<0.20
5567FAIRV	22-Jan-91	F30	<1.00	0.54	<1.00	1.37			<1.90	<1.00	<1.00	<0.78	<0.50
5567FAIRV	22-Jan-91	M30	<0.20	<0.10	<0.50		1.20	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20
5589FAIRV	1-Aug-91	M32	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20

TABLE 2
TCAAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTPE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
PJ#313	13-Jul-90	A27	<0.30	<0.50	<0.20		1.40			
PJ#313	19-Dec-90	A29	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#313	19-Mar-91	A30	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#313	05-Jun-91	A31	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#313	05-Sep-91	A32	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#318	24-Aug-88	F19		<0.72	<1.00			<0.41	<0.87	<8.28
PJ#318	09-Nov-88	F20		<0.72	<1.00					
PJ#318	06-Feb-89	A21		<1.00						
PJ#318	02-May-89	F22		<0.72	<1.00		1.71	12.80	19.00	
PJ#318	19-Jul-89	F23		<0.41	<0.62		<3.09	<3.39	1.61	
PJ#318	18-Oct-89	F24		<0.41	<0.62		<3.09	<3.39	<1.17	
PJ#318	17-Apr-90	F26	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#318	14-Mar-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#502	18-Nov-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80	<3.09	<3.39	<1.17
PJ#503	18-Nov-87	F16	<11.00	<4.10	<6.20	<45.00	<18.00	<3.09	<3.39	<1.17
PJ#506	19-Nov-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00	<3.09	<3.39	<1.17
PJ#507	18-Nov-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00	<3.09	<3.39	1.46
PJ#508	23-Aug-88	F19		<14.00	<20.00			<8.20	<17.00	<170.00
PJ#802	02-Dec-87	F16	<1.10	<0.41	<0.62	<4.50	<1.80			
PJ#802	17-Sep-91	M32	<0.20	<0.10	<0.20	<0.20	<0.50	0.40	0.90	
PJ#806	02-Dec-87	F16	<55.00	<20.00	<31.00	<220.00	<90.00			
PJ#806	19-Jan-88	A17		0.81						
PJ#806	12-May-88	A18		0.22						
PJ#806	04-Aug-88	A19		<0.20						
PJ#806	21-Oct-88	A20		<0.50						
PJ#806	16-Oct-89	A24		<2.00						
PJ#806	23-Apr-90	A26	0.90	<0.50	<0.50		<0.50			
PJ#806	11-Mar-91	A30	<65.00	<36.00	<50.00	<50.00	<160.00			
BOYLE	18-Oct-89	F24		<0.41	<0.62					
BOYLE	20-Oct-89	F24						<3.09	<3.39	<1.17
MNDOT	07-Nov-88	F20		<0.72	<1.00					
MNDOT	01-Apr-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.41	<0.87	<8.28
1831CORDI	22-Jan-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
5567FAIRV	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
5567FAIRV	22-Jan-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
5589FAIRV	1-Aug-91	M32	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	

TABLE 2
TCAAP ORGANIC GROUNDWATER QUALITY DATA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra chloro ethene TCLEE	Tri chloro ethene TRCLE	1,1-Di chloro ethene 11DCE	1,2-Di chloro ethene 12DCE	Cis-1,2- Dichloro ethene C12DCE	Trans-1,2 -Dichloro ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri chloro ethane 111TCE	1,1,2-Tri chloro ethane 112TCE	1,1-Di chloro ethane 11DCLE	1,2-Di chloro ethane 12DCLE
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24		70.00	70.00	0.02	22.00	6.10		0.40
5589FAIRV	25-Jan-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
1715HILLV	25-Jan-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
1747HILLV	22-Jan-91	F30	<1.00	<0.50	<1.00	24.60			<1.90	<1.00	<1.00	<0.78	<0.50
1800LOMS	22-Jan-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
1740PINEW	22-Jan-91	F30	<1.00	<0.50	<1.00	1.29			<1.90	<1.00	<1.00	<0.78	<0.50
1746PINEW	22-Jan-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
1746PINEW	22-Jan-91	M30	<0.20	<0.10	<0.50		<0.20	<0.10	<1.00	<0.20	<0.20	<0.20	<0.20
1783PINEW	22-Jan-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
5553SCHUT	22-Jan-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50
1705TERRA	22-Jan-91	F30	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50

TABLE 2
TCAAP GROUNDWATER QUALITY DATA (ORGANICS) - ug/l

April 13, 1992

Well	Date	Qtr (2)	Carbon Tetra chloride CCL4	Chloro form CHCL3	1,2-Di chloro propane 12DCLP	1,1,2-Trichloro -2,2,1-Trifluoro ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN
TCAAP GW Action Criteria - ug/l (3)				0.19	6.00			0.70	2000.00	440.00
5589FAIRV	25-Jan-91	F30	<1.30	1.01	<1.00	<1.00	<3.20			
1715HILLV	25-Jan-91	F30	<1.30	0.96	<1.00	<1.00	<3.20			
1747HILLV	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20	<0.87	<8.28	
1800LOIS	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
1740PINEW	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
1746PINEW	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
1746PINEW	22-Jan-91	M30	<0.20	<0.10	<0.20	<0.20	<0.50	<0.20	<0.20	
1783PINEW	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
5553SCHUT	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	<3.20			
1705TERRA	22-Jan-91	F30	<1.30	<0.72	<1.00	<1.00	11.20			

Table 3

TCAAP Inorganic Groundwater Quality Data

Notes:

- (1) The parameters are grouped by the following chemical categories as separated by vertical lines: Category 2, Category 3, Category 4, Category 8, Category 9, and Category 10.
- (2) Qtr = Quarter. Under this heading, F = FCC; A = Alliant Techsystems, Inc.; and M = MPCA.
- (3) TCAAP GW Action Criteria = groundwater action criteria set forth in Table 3.7A of the Federal Facilities Agreement.
- (4) Duplicate sample collected for QA/QC purposes.

Table 3

TCAAP Inorganic Groundwater Quality Data

Notes:

- (1) The parameters are grouped by the following chemical categories as separated by vertical lines: Category 2, Category 3, Category 4, Category 8, Category 9, and Category 10.
- (2) Qtr = Quarter. Under this heading, F = FCC; A = Alliant Techsystems, Inc.; and M = MPCA.
- (3) TCAAP GW Action Criteria = groundwater action criteria set forth in Table 3.7A of the Federal Facilities Agreement.
- (4) Duplicate sample collected for QA/QC purposes.

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho- phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
01L811	25-Nov-87	F16														<0.70				
01L813	25-Nov-87	F16														<0.70				
01L816	25-Nov-87	F16														<0.70				
01L821	30-Nov-87	F16														<0.70				
01L822	01-Dec-87	F16														<0.70				
01L823	01-Dec-87	F16														<0.70				
01U022	05-Apr-88	F18		<6.01	570.00		<0.37	<2.50			5.02	<1.26								
01U034	11-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	0.19	<2.18	1.49	910.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U034	14-Nov-88	F20		<6.01	177.00		<0.37	<2.50			8.66	<1.26								
01U035	14-Nov-88	F20		<6.01	78.90		<0.37	<2.50			<5.32	<1.26								
01U036	11-Nov-87	F16	<1.93	<4.81	24.50	<1.47	0.53	<2.18	1.53	47.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U036	14-Nov-88	F20		<6.01	26.80		0.67	<2.50			<5.32	<1.26								
01U037	07-Apr-88	F18		<6.01	80.10		<0.37	<2.50			<5.32	<1.26								
01U038	06-Apr-88	F18		<6.01	148.00		<0.37	<2.50			<5.32	<1.26								
01U039	06-Apr-88	F18		<6.01	41.50		<0.37	<2.50			<5.32	<1.26								
01U040	05-Apr-88	F18		<6.01	142.00		<0.37	<2.50			5.07	<1.26								
01U041	05-Apr-88	F18		<6.01	49.10		0.66	<2.50			<5.32	<1.26								
01U045	08-Aug-88	F19		<6.01	160.00		0.36	<2.50			<5.32	<1.26								
01U045	13-Mar-91	F30															<8.17	<10.00	20.60	22.90
01U050	16-Nov-87	F16	2.13	8.25	<220.00	<1.47	0.34	<2.18	1.49	8500.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
01U050	07-Apr-88	F18		<6.01	200.00		<0.37	<2.50			<5.32	<1.26								
01U050	15-Aug-88	F19		<6.01	190.00		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
01U051	16-Nov-87	F16	2.57	<4.81	<220.00	<1.47	0.68	3.54	1.39	12.70	<5.94	4.18	<10.00	<3.06	3.94	<0.70				
01U051	07-Apr-88	F18		<6.01	112.00		<0.37	<2.50			<5.32	<1.26								
01U051	15-Aug-88	F19		<6.01	69.50		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
01U053	16-Nov-87	F16	2.38	6.19	<220.00	<1.47	0.53	2.78	1.93	1800.00	<5.94	3.06	<10.00	<3.06	<2.70	<0.70	<8.35			
01U053	15-Aug-88	F19		<6.01	99.00		0.36	<2.50			<5.32	<1.26				<0.74	<8.17			
01U054	16-Nov-87	F16	<1.93	5.67	<220.00	<1.47	0.92	2.88	3.12	4000.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.17			
01U054	15-Aug-88	F19		<6.01	53.50		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
01U060	19-Nov-87	F16	<1.93	10.30	270.00	<1.47	0.63	<2.18	1.44	6000.00	14.00	<2.65	<10.00	<3.06	<2.70	<0.70				
01U060	11-Apr-88	F18		<6.01	300.00		1.12	<2.50			9.44	<1.26								

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHA (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
01L811	25-Nov-87	F16													
01L813	25-Nov-87	F16													
01L816	25-Nov-87	F16													
01L821	30-Nov-87	F16													
01L822	01-Dec-87	F16													
01L823	01-Dec-87	F16													
01UD22	05-Apr-88	F18													
01UD34	11-Nov-87	F16				<29.40									
01UD34	14-Nov-88	F20													
01UD35	14-Nov-88	F20													
01UD36	11-Nov-87	F16				<29.40									
01UD36	14-Nov-88	F20													
01UD37	07-Apr-88	F18													
01UD38	06-Apr-88	F18													
01UD39	06-Apr-88	F18													
01UD40	05-Apr-88	F18													
01UD41	05-Apr-88	F18													
01UD45	08-Aug-88	F19				<25.00									
01UD45	13-Mar-91	F30													
01UD50	16-Nov-87	F16	<1.00	6.00											
01UD50	07-Apr-88	F18													
01UD50	15-Aug-88	F19				<25.00									
01UD51	16-Nov-87	F16				<29.40									
01UD51	07-Apr-88	F18													
01UD51	15-Aug-88	F19				<25.00									
01UD53	16-Nov-87	F16				<29.40									
01UD53	15-Aug-88	F19				<25.00									
01UD54	16-Nov-87	F16	<1.00	<1.00											
01UD54	15-Aug-88	F19				<25.00									
01UD60	19-Nov-87	F16				67.10									
01UD60	11-Apr-88	F18													

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho- phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
01U062	16-Nov-87	F16	2.38	<4.81	<220.00	<1.47	0.68	3.74	2.62	16.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U062	07-Apr-88	F18		<6.01	130.00		<0.37	<2.50			<5.32	<1.26								
01U062	16-Aug-88	F19		<6.01	150.00		0.38	<2.50			<5.32	<1.26				<0.74	<8.17			
01U063	05-Apr-88	F18		<6.01	82.50		<0.37	<2.50			<5.32	<1.26					<8.17			
01U067	05-Apr-88	F18		<6.01	60.50		<0.37	<2.50			<5.32	<1.26								
01U072	07-Apr-88	F18		<6.01	60.00		<0.37	<2.50			14.50	<1.26					<8.17			
01U085	11-Nov-87	F16	3.12	16.50	530.00	<1.47	0.19	2.73	2.08	2000.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U085	10-Aug-88	F19		43.90	500.00		<0.37	<2.50			<5.32	<1.26								
01U098	19-Nov-87	F16	4.01	<4.81	<220.00	<1.47	0.34	6.67	3.32	140.00	12.90	3.47	<10.00	<3.06	<2.70	<0.70				
01U098	11-Apr-88	F18		<6.01	190.00		0.71	<2.50			<5.32	<1.26								
01U100	07-Apr-88	F18		<6.01	290.00		<0.37	<2.50			9.05	<1.26								
01U101	14-Nov-88	F20		<6.01	177.00		0.40	<2.50			<5.32	<1.26								
01U102	30-Jul-91	M32				<2.00					<0.20	<2.00	<1.00	<3.00						
01U103	11-Nov-87	F16	3.91	<4.81	<220.00	<1.47	0.34	3.79	2.92	62.00	14.50	2.86	14.60	6.38	<2.70	<0.70				
01U107	08-Apr-88	F18		<6.01	170.00		0.58	<2.50			<5.32	<1.26								
01U108	16-Nov-87	F16																		
01U108	17-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	1.98	2000.00	8.28	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
01U108	11-Apr-88	F18		<6.01	121.00		<0.37	<2.50			5.72	<1.26					<8.17			
01U108	19-Mar-91	M30			89.00		0.59	<0.50	1.80		10.00	<0.20				<0.10				
01U109	08-Apr-88	F18		<6.01	107.00		<0.37	<2.50			<5.32	<1.26								
01U110	06-Apr-88	F18		<6.01	35.00		<0.37	<2.50			<5.32	<1.26								
01U115	11-Nov-87	F16	<1.93	<4.81	70.60	<1.47	<0.10	<2.18	3.61	120.00	<5.94	2.70	<10.00	<3.06	<2.70	<0.70				
01U115	11-Apr-88	F18		<6.01	25.90		<0.37	<2.50			<5.32	<1.26					<8.17			
01U115	15-Nov-88	F20															<8.17			
01U115	19-Mar-91	M30			30.00		0.10	<0.50	0.50		<1.00	0.30				<0.10				
01U116	11-Nov-87	F16	<1.93	6.19	125.00	<1.47	<0.10	<2.18	3.17	280.00	<5.94	3.16	<10.00	<3.06	<2.70	<0.70				
01U116	06-Apr-88	F18		6.63	102.00		<0.37	<2.50			<5.32	<1.26								
01U116	15-Nov-88	F20															<8.17			
01U117	11-Nov-87	F16	3.61	<4.81	<220.00	<1.47	0.19	3.74	2.97	950.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U117	06-Apr-88	F18		<6.01	200.00		<0.37	<2.50			<5.32	<1.26					<8.17			
01U117	15-Nov-88	F20															<8.17			
01U118	11-Nov-87	F16	<1.93	<4.81	83.30	<1.47	0.15	<2.18	1.93	18.50	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U118	07-Apr-88	F18		<6.01	57.40		<0.37	<2.50			<5.32	<1.26					<8.17			
01U118	15-Nov-88	F20															<8.17			

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
01U062	16-Nov-87	F16				<29.40									
01U062	07-Apr-88	F18													
01U062	16-Aug-88	F19				<25.00									
01U063	05-Apr-88	F18													
01U067	05-Apr-88	F18													
01U072	07-Apr-88	F18													
01U085	11-Nov-87	F16				<29.40									
01U085	10-Aug-88	F19				25.00									
01U098	19-Nov-87	F16				<29.40									
01U098	11-Apr-88	F18													
01U100	07-Apr-88	F18													
01U101	14-Nov-88	F20													
01U102	30-Jul-91	M32							<0.40						<2.00
01U103	11-Nov-87	F16				<29.40									
01U107	08-Apr-88	F18													
01U108	16-Nov-87	F16				<29.40									
01U108	17-Nov-87	F16													
01U108	11-Apr-88	F18													
01U108	19-Mar-91	M30				9.90	<5.00								
01U109	08-Apr-88	F18													
01U110	08-Apr-88	F18													
01U115	11-Nov-87	F16				<29.40									
01U115	11-Apr-88	F18													
01U115	15-Nov-88	F20													
01U115	19-Mar-91	M30				3.90	<5.00								
01U116	11-Nov-87	F16				<29.40									
01U116	06-Apr-88	F18													
01U116	15-Nov-88	F20													
01U117	11-Nov-87	F16				<29.40									
01U117	06-Apr-88	F18													
01U117	15-Nov-88	F20													
01U118	11-Nov-87	F16				<29.40									
01U118	07-Apr-88	F18													
01U118	15-Nov-88	F20													

TABLE 3
TCAAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)
TCAAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
01U119	11-Nov-87	F16	3.51	<4.81	<220.00	<1.47	0.39	3.89	1.98	1200.00	<5.94	2.76	<10.00	<3.06	<2.70	<0.70				
01U119	07-Apr-88	F18		<6.01	140.00		<0.37	<2.50			<5.32	<1.26					<8.17			
01U119	15-Nov-88	F20															<8.17			
01U120	11-Nov-87	F16	<1.93	<4.81	40.20	<1.47	0.34	<2.18	2.18	180.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U120	07-Apr-88	F18		<6.01	31.20		<0.37	<2.50			<5.32	<1.26					<8.17			
01U120	15-Nov-88	F20															<8.17			
01U122	09-Dec-87	F16	<1.93	<4.81	240.00	<1.47	0.21	<2.18	2.72	610.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U122	05-Apr-88	F18		<6.01	128.00		<0.37	<2.50			<5.32	<1.26								
01U125	08-Dec-87	F16	<1.93	<4.81	45.10	<1.47	0.15	3.54	2.03	9.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U125	11-Apr-88	F18		<6.01	18.30		<0.37	<2.50			<5.32	<1.26					<8.17			
01U125	17-Nov-88	F20															<8.17			
01U126	08-Dec-87	F16	<1.93	<4.81	98.00	<1.47	0.18	<2.18	2.62	390.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
01U126	06-Apr-88	F18		<6.01	60.30		<0.37	<2.50			<5.32	<1.26					<8.17			
01U126	17-Nov-88	F20															<8.17			
01U127	11-Dec-87	F16	<1.93	5.67	99.00	<1.47	0.23	2.53	1.98	9.50	<5.94	<2.65	10.80	<3.06	<2.70	<0.70				
01U127	06-Apr-88	F18		<6.01	56.90		<0.37	<2.50			<5.32	<1.26					<8.17			
01U127	14-Nov-88	F20															<8.17			
01U128	09-Dec-87	F16	<1.93	20.60	280.00	<1.47	0.38	2.53	1.53	4500.00	<5.94	3.57	<10.00	<3.06	<2.70	<0.70				
01U128	05-Apr-88	F18		15.10	330.00		<0.37	<2.50			<5.32	<1.26								
01U128	08-Aug-88	F19		19.90	290.00		<0.37	6.01			<5.32	<1.26				<0.74	<8.17			
01U128	16-Nov-88	F20																		
01U130	07-Dec-87	F16	<1.93	5.15	500.00	<1.47	0.29	3.03	3.22	7500.00	7.76	<2.65	<10.00	<3.06	<2.70	<0.74	<8.17			
01U130	15-Aug-88	F19		<6.01	240.00		0.58	<2.50			<5.32	<1.26								
01U133	11-Dec-87	F16	<1.93	5.67	320.00	<1.47	1.17	<2.18	5.94	600.00	13.50	<2.65	12.30	<3.06	<2.70	<0.70				
01U133	12-Aug-88	F19		<6.01	240.00		<0.37	<2.50			<5.32	<1.26					<8.17			
01U133	14-Nov-88	F20																		
01U135	21-Nov-88	F20		<6.01	91.00		<0.37	<2.50			<5.32	<1.26					<8.17			
01U136	21-Nov-88	F20		<6.01	490.00		1.00	<2.50			<27.00	1.92					<8.17			
01U350	13-Sep-88	F19		<6.01	240.00		<0.37	<2.50			9.79	<1.26								
01U350	21-Sep-88	F19		<6.01	103.00		<0.37	<2.50			5.49	<1.26								
01U350	27-Sep-88	F19		<6.01	108.00		<0.37	<2.50			6.88	3.70								
01U350	04-Oct-88	F20		<6.01	100.00		<0.37	<2.50			8.88	6.79								
01U350	19-Oct-88	F20		<6.01	96.50		<0.37	<2.50			<5.32	<1.26								
01U350	25-Oct-88	F20		<6.01	96.80		<0.37	<2.50			<5.32	21.00								
01U350	08-Nov-88	F20		<6.01	123.00		<0.37	<2.50			<5.32	<1.26								
01U350	29-Nov-88	F20		<6.01	137.00		<0.37	<2.50			<5.32	<1.26								
01U350	06-Dec-88	F20		<6.01	125.00		<0.37	<2.50			<5.32	<1.26								
01U350	20-Dec-88	F20		<6.01	131.00		<0.37	<2.50			<5.32	<1.26								
01U350	17-Jan-89	F21		<6.01	101.00		<0.37	<2.50			<5.32	<1.26								
01U350	21-Feb-89	F21					<0.37													
01U350	17-Jul-90	F27		<6.01	184.00		<0.37	<2.50			4.99	1.61					950.00			91.00

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc Zn (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
01U119	11-Nov-87	F16				<29.40									
01U119	07-Apr-88	F18													
01U119	15-Nov-88	F20													
01U120	11-Nov-87	F16				<29.40									
01U120	07-Apr-88	F18													
01U120	15-Nov-88	F20													
01U122	09-Dec-87	F16				<29.40									
01U122	05-Apr-88	F18													
01U125	08-Dec-87	F16				<29.40									
01U125	11-Apr-88	F18													
01U125	17-Nov-88	F20													
01U126	08-Dec-87	F16				<29.40									
01U126	06-Apr-88	F18													
01U126	17-Nov-88	F20													
01U127	11-Dec-87	F16				<29.40									
01U127	06-Apr-88	F18													
01U127	14-Nov-88	F20													
01U128	09-Dec-87	F16				<29.40									
01U128	05-Apr-88	F18				25.80									
01U128	08-Aug-88	F19				<25.00									
01U128	16-Nov-88	F20				41.40									
01U130	07-Dec-87	F16	1.60	1.50		<29.40									
01U130	15-Aug-88	F19				<25.00									
01U133	11-Dec-87	F16				85.20									
01U133	12-Aug-88	F19													
01U133	14-Nov-88	F20													
01U135	21-Nov-88	F20													
01U136	21-Nov-88	F20													
01U350	13-Sep-88	F19													
01U350	21-Sep-88	F19													
01U350	27-Sep-88	F19													
01U350	04-Oct-88	F20													
01U350	19-Oct-88	F20													
01U350	25-Oct-88	F20													
01U350	08-Nov-88	F20													
01U350	29-Nov-88	F20													
01U350	06-Dec-88	F20													
01U350	20-Dec-88	F20													
01U350	17-Jan-89	F21													
01U350	21-Feb-89	F21													
01U350	17-Jul-90	F27													

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury/ HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
01U350	18-Sep-90	F27		<6.01	150.00		<0.37	<2.50			5.67	1.40							23.50	72.90
01U350	22-Oct-90	F29		<6.01	111.00		<0.37	<2.50			7.88	<1.26						890.00	62.89	535.97
01U350	20-Nov-90	F29		<6.01	193.00		<0.37	<2.50			<5.32	4.40						1008.00	54.04	83.56
01U350	18-Dec-90	F29		<6.01	183.40		<0.37	<2.50			5.54	<1.26						784.00	36.54	111.51
01U350	22-Jan-91	F30		<6.01	119.96		<5.00	<15.00	<20.00		7.79	1.66						770.00	37.31	169.78
01U350	19-Feb-91	F30		<6.01	103.83		<5.00	<15.00	<20.00		<5.32	2.51						714.00	28.10	170.00
01U350	19-Mar-91	F30									<63.10	<100.00						840.00		
01U350	19-Mar-91	F30		<6.01	124.00	<2.50	<5.00	<15.00	<20.00	1020.00	5.30	3.09	<37.10	<75.00	<100.00			800.00	18.90	140.00
01U350	16-Apr-91	F31		<6.01	131.00		<5.00	<15.00	<20.00		<5.32	<1.26						<8.17	610.00	28.60
01U350	18-May-91	F31									5.81	3.67						<8.17	2000.00	27.10
01U350	21-May-91	F31		<6.01																
01U350	18-Jun-91	F31		<6.01	97.80	<2.50	<5.00	<15.00	<20.00	926.00	6.29	<1.26	<37.10	<75.00	<100.00					
01U350	18-Jun-91	F31		<6.01	96.80	<2.50	<5.00	<15.00	<20.00	948.00	6.98	<1.26	<37.10	<75.00	<100.00					
01U350	23-Jul-91	F32		<6.01	117.00	<2.50	<5.00	<15.00	<20.00	1310.00	6.48	3.77	<37.10	<75.00	<100.00			1100.00	31.10	39.50
01U350	30-Jul-91	F32																980.00		
01U350	19-Aug-91	F32		<6.01	140.00		<5.00	<15.00			6.20	8.46							35.50	370.00
01U350	17-Sep-91	F32		<6.01	137.00	<2.50	<5.00	<15.00	<20.00		7.99	4.93	<37.10	<75.00	<100.00			910.00	14.70	99.30
																		980.00	32.70	55.10
01U524	16-Nov-87	F16		<4.81																
01U524	17-Nov-87	F16	3.22		<220.00	<1.47	0.68	4.45	2.48		<5.94	2.86	<10.00	<3.06	3.83	<0.70		<8.35		
01U524	07-Apr-88	F18		<6.01	130.00		<0.37	<2.50			<5.32	<1.26								
01U524	16-Aug-88	F19		<6.01	200.00		<0.37	<2.50			<5.32	<1.26						<0.74	<8.17	
01U525	16-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	0.44	2.33	3.22	35.00	<5.94	3.06	<10.00	<3.06	<2.70	<0.70				
01U525	07-Apr-88	F18		<6.01	81.00		<0.37	<2.50			<5.32	<1.26								
01U525	15-Aug-88	F19		<6.01	200.00		<0.37	<2.50			<5.32	<1.26						<0.74	<8.17	
01U526	17-Nov-87	F16	2.92	<4.81	<220.00	<1.47	0.92	5.46	2.57	20.00	6.21	<2.65	<10.00	4.32	<2.70	<0.70		10.50		
01U526	07-Apr-88	F18		<6.01	84.00		<0.37	<2.50			<5.32	<1.26								
01U526	15-Aug-88	F19		<6.01	69.90		<0.37	<2.50			<5.32	<1.26						<0.74	<8.17	
01U527	17-Nov-87	F16	<1.93	<4.81	270.00	<1.47	0.19	3.29	1.63	42.00	<5.94	<2.65	<10.00	<3.06	5.11					
01U527	11-Apr-88	F18		<6.01	420.00		<0.37	<2.50			<5.32	<1.26								
01U527	25-Aug-88	F19		<6.01	260.00		<0.37	<2.50			<5.32	<1.26						<0.74	<8.17	
01U601	07-Dec-87	F16	<1.93	9.28	120.00	<1.47	0.20	<2.18	14.90	150.00	6.73	<2.65	<10.00	<3.06	<2.70	<0.70				
01U604	07-Dec-87	F16	<1.93	<4.81	310.00	<1.47	0.46	5.06	3.37	4500.00	98.00	5.10	<10.00	<3.06	<2.70	<0.70		<8.35		
01U611	08-Dec-87	F16	<1.93	7.73	250.00	<1.47	0.28	2.53	2.67	290.00	9.32	<2.65	<10.00	<3.06	<2.70	<0.70				
01U615	07-Dec-87	F16	<1.93	<4.81	193.00	<1.47	<0.10	<2.18	2.87	960.00	7.25	<2.65	<10.00	<3.06	<2.70	<0.70				
01U617	19-Aug-88	F19		<6.01	134.00		<0.37	<2.50			<5.32	<1.26						<0.74	<8.17	
01U618	19-Aug-88	F19		<6.01	106.00		<0.37	<2.50			<5.32	<1.26						<0.74	<8.17	
01U619	19-Aug-88	F19		<6.01	49.40		<0.37	<2.50			<5.32	<1.26						<0.74	<8.17	
01U902	19-Mar-91	F30		<6.01	51.40	<2.50	<5.00	<15.00	<20.00	369.00	<5.32	<1.26	<37.10	<75.00	<100.00					
03F302	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	<10.00		<50.00	8.00				<0.20	<10.00			

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
01U350	18-Sep-90	F27													
01U350	22-Oct-90	F29				269.90									
01U350	20-Nov-90	F29				107.77									
01U350	18-Dec-90	F29				62.62									
01U350	22-Jan-91	F30				199.39									
01U350	19-Feb-91	F30				94.61									
01U350	19-Mar-91	F30													
01U350	19-Mar-91	F30				130.00	<107.00	98000.00	<25.00	7990.00	7630.00	27900.00	<30.90	9740.00	<20.00
01U350	16-Apr-91	F31				127.00									
01U350	18-May-91	F31													
01U350	21-May-91	F31													
01U350	18-Jun-91	F31				43.70	<107.00	90000.00	<25.00	4190.00	6900.00	25800.00	<30.90	9990.00	<20.00
01U350	(4) 18-Jun-91	F31				63.10	<107.00	90000.00	<25.00	4250.00	6630.00	25600.00	<30.90	9670.00	<20.00
01U350	23-Jul-91	F32				38.70	301.00	140000.00	<25.00	5610.00	6660.00	41200.00	<30.90	11600.00	<20.00
01U350	30-Jul-91	F32													
01U350	19-Aug-91	F32				43.70									
01U350	17-Sep-91	F32				72.20			<25.00						
01U524	16-Nov-87	F16													
01U524	17-Nov-87	F16	3.50	4.40		<29.40									
01U524	07-Apr-88	F18													
01U524	16-Aug-88	F19				<25.00									
01U525	16-Nov-87	F16				<29.40									
01U525	07-Apr-88	F18													
01U525	15-Aug-88	F19				<25.00									
01U526	17-Nov-87	F16	2.50	6.80		<29.40									
01U526	07-Apr-88	F18													
01U526	15-Aug-88	F19				<25.00									
01U527	17-Nov-87	F16				<29.40									
01U527	11-Apr-88	F18													
01U527	25-Aug-88	F19				<25.00									
01U601	07-Dec-87	F16				1010.00									
01U604	07-Dec-87	F16				1440.00									
01U611	08-Dec-87	F16				50.10									
01U615	07-Dec-87	F16				50.10									
01U617	19-Aug-88	F19				<25.00									
01U618	19-Aug-88	F19				<25.00									
01U619	19-Aug-88	F19				<25.00									
01U902	19-Mar-91	F30				36.60	<107.00	59000.00	<25.00	630.00	1880.00	11900.00	<30.90	7220.00	<20.00
03F302	20-Apr-89	A22				<0.01									

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
03F302	19-Jul-89	A23		<2.00	<200.00		<0.10	<1.00	<10.00		<50.00	7.00				<0.20	<10.00		30.00	50.00
03F302	24-Oct-89	A24		<5.00	70.00		<8.00	<9.00	<4.00		<16.00	2.00				<0.20	<10.00		40.00	50.00
03F302	18-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		40.00	60.00
03F303	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	710.00		<50.00	91.00				<0.20	<10.00			
03F303	19-Jul-89	A23		3.00	<200.00		1.10	1.00	<10.00		<50.00	12.00				<0.20	<10.00		40.00	280.00
03F303	24-Oct-89	A24		<5.00	57.00		<8.00	<9.00	<4.00		<16.00	2.00				<0.20	<10.00		40.00	60.00
03F303	18-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	2.00				<0.20	<10.00		40.00	70.00
03F304	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	<10.00		<50.00	<1.00				<0.20	<10.00			
03F304	19-Jul-89	A23		<2.00	<200.00		0.10	<1.00	30.00		<50.00	2.00				<0.20	<10.00		70.00	140.00
03F304	24-Oct-89	A24		<5.00	92.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		70.00	100.00
03F304	18-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		80.00	100.00
03F305	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	10.00		<50.00	12.00				<0.20	<10.00			
03F305	19-Jul-89	A23		<2.00	<200.00		0.20	<1.00	100.00		<50.00	32.00				<0.20	<10.00		60.00	160.00
03F305	23-Oct-89	A24		<5.00	100.00		<8.00	<9.00	<4.00		<16.00	16.00				<0.20	<10.00		70.00	80.00
03F305	18-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		70.00	90.00
03F306	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	<10.00		<50.00	12.00				<0.20	<10.00			
03F306	19-Jul-89	A23		<2.00	<200.00		0.20	<1.00	40.00		<50.00	24.00				<0.20	<10.00		80.00	210.00
03F306	23-Oct-89	A24		<5.00	45.00		<8.00	<9.00	<4.00		<16.00	3.00				<0.20	<10.00		90.00	110.00
03F306	18-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	5.00				<0.20	<10.00		90.00	100.00
03F307	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	<10.00		<50.00	57.00				<0.20	<10.00			
03F307	19-Jul-89	A23		<2.00	<200.00		0.40	<1.00	10.00		<50.00	31.00				<0.20	<10.00		20.00	100.00
03F307	23-Oct-89	A24		<5.00	81.00		<8.00	<9.00	<4.00		<16.00	5.00				<0.20	<10.00		30.00	<50.00
03F307	19-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	4.00				<0.20	<10.00		30.00	<50.00
03F308	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	10.00		<50.00	4.00				<0.20	<10.00			
03F308	19-Jul-89	A23		<2.00	<200.00		<0.10	<1.00	50.00		<50.00	4.00				<0.20	<10.00		20.00	80.00
03F308	23-Oct-89	A24		<5.00	81.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		20.00	100.00
03F308	19-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		30.00	<50.00
03F312	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	<10.00		<50.00	7.00				<0.20	<10.00			
03F312	19-Jul-89	A23		<2.00	<200.00		<0.10	<1.00	<10.00		<50.00	<1.00				<0.20	<10.00		40.00	60.00
03F312	24-Oct-89	A24		<5.00	130.00		<8.00	<9.00	92.00		<16.00	110.00				<0.20	<10.00		40.00	60.00
03F312	18-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		40.00	60.00
03L001	16-Nov-87	F16	<1.93	<4.81	<40.00	<1.47	<0.10	<2.18	1.14	280.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03L002	17-Nov-87	F16	<1.93	<4.81	<200.00	<1.47	<0.10	<2.18	1.39	1800.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03L003	19-Nov-87	F16	<1.93	<4.81	170.00	<1.47	<0.10	<2.18	1.14	520.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03L003	11-Aug-88	F19		<6.01	101.00		<0.37	<2.50			<5.32	<1.26								
03L004	18-Nov-87	F16	<1.93	<4.81	86.00	<1.47	<0.10	<2.18	1.14	580.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03L004	09-Aug-88	F19		<6.01	78.80		<0.37	<2.50			<5.32	<1.26								
03L005	23-Nov-87	F16	<1.93	<4.81	160.00	<1.47	<0.10	<2.18	1.49	700.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03L005	10-Aug-88	F19		<6.01	73.40		<0.37	<2.50			<5.32	<1.26								

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHA (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
03F302	19-Jul-89	A23				<10.00									
03F302	24-Oct-89	A24				29.00									
03F302	18-Jan-90	A25				<4.00									
03F303	20-Apr-89	A22				70.00									
03F303	19-Jul-89	A23				720.00									
03F303	24-Oct-89	A24				<20.00									
03F303	18-Jan-90	A25				<4.00									
03F304	20-Apr-89	A22				<0.01									
03F304	19-Jul-89	A23				50.00									
03F304	24-Oct-89	A24				20.00									
03F304	18-Jan-90	A25				<4.00									
03F305	20-Apr-89	A22				20.00									
03F305	19-Jul-89	A23				120.00									
03F305	23-Oct-89	A24				60.00									
03F305	18-Jan-90	A25				<4.00									
03F306	20-Apr-89	A22				<0.01									
03F306	19-Jul-89	A23				120.00									
03F306	23-Oct-89	A24				<4.00									
03F306	18-Jan-90	A25				<4.00									
03F307	20-Apr-89	A22				<0.01									
03F307	19-Jul-89	A23				30.00									
03F307	23-Oct-89	A24				11.00									
03F307	19-Jan-90	A25				<4.00									
03F308	20-Apr-89	A22				10.00									
03F308	19-Jul-89	A23				80.00									
03F308	23-Oct-89	A24				25.00									
03F308	19-Jan-90	A25				<4.00									
03F312	20-Apr-89	A22				<0.01									
03F312	19-Jul-89	A23				20.00									
03F312	24-Oct-89	A24				210.00									
03F312	18-Jan-90	A25				<4.00									
03L001	16-Nov-87	F16				<29.40									
03L002	17-Nov-87	F16				<29.40									
03L003	19-Nov-87	F16				<29.40									
03L003	11-Aug-88	F19													
03L004	18-Nov-87	F16				<29.40									
03L004	09-Aug-88	F19													
03L005	23-Nov-87	F16				<29.40									
03L005	10-Aug-88	F19													

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho- phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)	
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00				
03L007	09-Nov-87	F16	<1.93	6.19	240.00	<1.47	<0.10	<2.18	2.08	380.00	<5.94	<2.65	<10.00	<3.06	5.32	<0.70					
03L010	09-Nov-87	F16	<1.93	<4.81	31.40	<1.47	<0.10	<2.18	1.09	2.65	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L012	09-Nov-87	F16	<1.93	<4.81	164.00	<1.47	<0.10	<2.18	1.34	800.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L013	10-Nov-87	F16	<1.93	<4.81	190.00	<1.47	<0.10	<2.18	1.49	960.00	<5.94	3.47	<10.00	<3.06	<2.70	<0.70					
03L014	23-Nov-87	F16	<1.93	<4.81	180.00	<1.47	0.12	<2.18	15.80	900.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35				
03L014	10-Aug-88	F19		<6.01	111.00		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17				
03L017	10-Nov-87	F16	<1.93	<4.81	124.00	<1.47	<0.10	<2.18	1.49	360.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L018	23-Nov-87	F16	<1.93	<4.81	130.00	<1.47	<0.10	<2.18	2.08	470.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35				
03L018	08-Apr-88	F18		<6.01	67.00		<0.37	<2.50			<5.32	<1.26					<8.17				
03L018	22-Aug-88	F19		<6.01	91.10		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17				
03L020	07-Dec-87	F16	<1.93	33.50	440.00	<1.47	<0.10	3.03	1.29	2250.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L020	17-Aug-88	F19		29.30	320.00		<0.37	<2.50			<5.32	<1.26									
03L029	03-Dec-87	F16	<1.93	<4.81	270.00	<1.47	<0.10	<2.18	1.44	380.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L077	04-Dec-87	F16	<1.93	<4.81	220.00	<1.47	<0.10	<2.18	1.40	160.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L078	23-Nov-87	F16	<1.93	<4.81	150.00	<1.47	<0.10	<2.18	13.40	500.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L078	18-Aug-88	F19		<6.01	93.90		<0.37	<2.50			<5.32	<1.26									
03L079	04-Dec-87	F16	<1.93	<4.81	220.00	<1.47	<0.10	<2.18	1.59	430.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L079	18-Aug-88	F19		<6.01	93.90		<0.37	<2.50			<5.32	<1.26									
03L084	08-Dec-87	F16	<1.93	<4.81	250.00	<1.47	<0.10	2.53	1.40	200.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03L086	11-Aug-88	F19		<6.01	81.00		<0.37	<2.50			<5.32	<1.26									
03L091	03-Dec-87	F16	<1.93	<4.81	175.00	<1.47	0.14	<2.18	1.34	230.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35				
03L091	25-Aug-88	F19		<6.01	75.30		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17				
03L113	18-Nov-87	F16	<1.93	<4.81	67.60	<1.47	<0.10	<2.18	0.94	350.00	<5.94	<2.65	<10.00	<3.06		<0.70	<8.35				
03L113	06-Apr-88	F18		<6.01	39.70		<0.37	<2.50			<5.32	<1.26					<8.17				
03L113	09-Aug-88	F19		<6.01	41.00		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17				
03L113	19-Jul-90	F27	<0.50	<6.01	54.00		<0.37	<2.50	<1.56	290.00	<5.32	<1.26	<25.50								
03L137	17-Oct-89	F24		<4.81	98.00		1.27	17.60			7.58	4.45									
03L137	24-Apr-90	F26																			
03L137	18-Jul-90	F27	<0.50	<6.01	80.40		<0.37	<2.50	<1.56	360.00	<5.32	<1.26	<25.50							<8.17	
03L138	17-Oct-89	F24		9.28	240.00		0.13	11.60			<5.94	8.37									
03L138	24-Apr-90	F26																			
03L138	18-Jul-90	F27	<0.50	6.62	170.00		1.12	<2.50	2.79	570.00	<5.32	4.74	<25.50							<8.17	
03L306	23-Aug-88	F19																			34.00

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)	
TCAAP GW Action Criteria - ug/l (3)						700.00									1.00	20.00
03L007	09-Nov-87	F16				<29.40										
03L010	09-Nov-87	F16				<29.40										
03L012	09-Nov-87	F16				<29.40										
03L013	10-Nov-87	F16				<29.40										
03L014	23-Nov-87	F16				<29.40										
03L014	10-Aug-88	F19				<25.00										
03L017	10-Nov-87	F16				<29.40										
03L018	23-Nov-87	F16				30.10										
03L018	08-Apr-88	F18														
03L018	22-Aug-88	F19				<25.00										
03L020	07-Dec-87	F16				<29.40										
03L020	17-Aug-88	F19														
03L029	03-Dec-87	F16				<29.40										
03L077	04-Dec-87	F16				<29.40										
03L078	23-Nov-87	F16				<29.40										
03L078	18-Aug-88	F19														
03L079	04-Dec-87	F16				<29.40										
03L079	18-Aug-88	F19														
03L084	08-Dec-87	F16				<29.40										
03L086	11-Aug-88	F19														
03L091	03-Dec-87	F16				<29.40										
03L091	25-Aug-88	F19				<25.00										
03L113	18-Nov-87	F16				<29.40										
03L113	06-Apr-88	F18														
03L113	09-Aug-88	F19				<25.00										
03L113	19-Jul-90	F27														
03L137	17-Oct-89	F24														
03L137	24-Apr-90	F26														
03L137	18-Jul-90	F27														
03L138	17-Oct-89	F24														
03L138	24-Apr-90	F26														
03L138	18-Jul-90	F27														
03L306	23-Aug-88	F19														

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
03L806	02-Dec-87	F16														<0.70				
03L811	25-Nov-87	F16														<0.70				
03L813	25-Nov-87	F16														<0.70				
03L822	01-Dec-87	F16														<0.70				
03L832	24-Nov-87	F16														<0.70				
03L846	18-Jul-89	F23																	<12.10	63.10
03L846	19-Oct-89	F24																	<12.10	52.00
03L853	19-Apr-90	F26															<8.17			
03L853	20-Jul-90	F27															<8.17	810.00	22.80	19.50
03M001	16-Nov-87	F16	<1.93	<4.81	26.50	<1.47	0.15	<2.18	0.57		<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03M002	17-Nov-87	F16	<1.93	<4.81	111.00	<1.47	0.15	4.15	2.08	2.55	7.25	<2.65	<10.00	3.86	<2.70	<0.70				
03M003	19-Nov-87	F16	<1.93	<4.81	100.00	<1.47	<0.10	<2.18	1.73	200.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03M003	11-Aug-88	F19		<6.01	81.60		<0.37	<2.50			<5.32	<1.26								
03M004	18-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	1.44	540.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03M004	09-Aug-88	F19		<6.01	120.00		<0.37	<2.50			<5.32	<1.26								
03M005	08-Dec-87	F16	<1.93	<4.81	250.00	<1.47	<0.10	3.03	2.03	410.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03M005	06-Apr-88	F18		<6.01	110.00		<0.37	<2.50			<5.32	<1.26								
03M005	11-Aug-88	F19		<6.01	106.00		<0.37	<2.50			<5.32	<1.26								
03M013	10-Nov-87	F16	<1.93	<4.81	142.00	<1.47	<0.10	<2.18	1.49	400.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03M017	10-Nov-87	F16	<1.93	<4.81	63.70	<1.47	<0.10	2.63	2.28	5.50	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03M020	18-Aug-88	F19		<6.01	167.00		<0.37	<2.50			<5.32	<1.26								
03M505	09-Nov-87	F16	<1.93	<4.81	122.00	<1.47	<0.10	<2.18	1.24	220.00	<5.94	<2.65	<10.00	<3.06	3.19	<0.70				
03U001	16-Nov-87	F16	<1.93	<4.81	59.80	<1.47	<0.10	<2.18	1.24	14.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U002	17-Nov-87	F16	2.62	<4.81	<220.00	<1.47	<0.10	2.48	1.78	1000.00	<5.94	4.49	<10.00	<3.06	<2.70	<0.70				
03U003	19-Nov-87	F16	<1.93	<4.81	99.00	<1.47	<0.10	3.19	1.68	190.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U003	11-Aug-88	F19		<6.01	57.10		<0.37	<2.50			<5.32	<1.26								
03U004	18-Nov-87	F16	2.08	<4.81	65.70	<1.47	<0.10	2.93	1.68	2.60	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U004	09-Aug-88	F19		<6.01	27.00		<0.37	<2.50			<5.32	<1.26								
03U005	23-Nov-87	F16	3.22	26.80	340.00	<1.47	0.11	<2.18	16.30	750.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U005	06-Apr-88	F18		21.30	180.00		<0.37	<2.50			<5.32	<1.26								
03U005	10-Aug-88	F19		13.90	160.00		<0.37	<2.50			<5.32	<1.26								

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)	
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00	
03L806	02-Dec-87	F16														
03L811	25-Nov-87	F16														
03L813	25-Nov-87	F16														
03L822	01-Dec-87	F16														
03L832	24-Nov-87	F16														
03L846	18-Jul-89	F23														
03L846	19-Oct-89	F24														
03L853	19-Apr-90	F26														
03L853	20-Jul-90	F27														
03M001	16-Nov-87	F16				<29.40										
03M002	17-Nov-87	F16				<29.40										
03M003	19-Nov-87	F16				<29.40										
03M003	11-Aug-88	F19														
03M004	18-Nov-87	F16				<29.40										
03M004	09-Aug-88	F19														
03M005	08-Dec-87	F16				<29.40										
03M005	06-Apr-88	F18														
03M005	11-Aug-88	F19														
03M013	10-Nov-87	F16				<29.40										
03M017	10-Nov-87	F16				<29.40										
03M020	18-Aug-88	F19														
03M505	09-Nov-87	F16				<29.40										
03U001	16-Nov-87	F16				<29.40										
03U002	17-Nov-87	F16				<29.40										
03U003	19-Nov-87	F16				<29.40										
03U003	11-Aug-88	F19														
03U004	18-Nov-87	F16				<29.40										
03U004	09-Aug-88	F19														
03U005	23-Nov-87	F16				<29.40										
03U005	06-Apr-88	F18														
03U005	10-Aug-88	F19														

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
03U007	09-Nov-87	F16	<1.93	6.19	280.00	<1.47	<0.10	<2.18	1.78	320.00	<5.94	<2.65	<10.00	5.14	47.90	<0.70				
03U008	09-Nov-87	F16	<1.93	20.60	370.00	<1.47	<0.10	<2.18	1.53	760.00	<5.94	<2.65	<10.00	<3.06	4.26	<0.70				
03U009	20-Nov-87	F16	<1.93	<4.81	190.00	<1.47	<0.10	<2.18	14.80	110.00	6.73	<2.65	<10.00	<3.06	<2.70	<0.70				
03U010	09-Nov-87	F16	<1.93	<4.81	125.00	<1.47	<0.10	<2.18	1.68	200.00	<5.94	2.70	<10.00	<3.06	<2.70	<0.70				
03U012	09-Nov-87	F16	1.98	6.19	220.00	<1.47	<0.10	3.49	3.56	200.00	<5.94	6.43	<10.00	<3.06	5.32	<0.70				
03U013	10-Nov-87	F16	<1.93	7.73	120.00	<1.47	<0.10	<2.18	2.52	160.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U014	04-Dec-87	F16	<1.93	<4.81	180.00	<1.47	0.11	3.03	1.40	8.50	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U014	17-Aug-88	F19		<6.01	138.00		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
03U015	17-Nov-87	F16	<1.93	<4.81	59.80	<1.47	0.15	4.15	2.33	2.70	<5.94	<2.65	<10.00	3.29	<2.70	<0.70	<8.35			
03U015	05-Apr-88	F18		<6.01	40.00		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
03U017	10-Nov-87	F16	<1.93	<4.81	51.50	<1.47	<0.10	3.19	2.43	9.60	<5.94	4.59	<10.00	<3.06	<2.70	<0.70				
03U018	04-Dec-87	F16	<1.93	<4.81	89.20	<1.47	0.17	3.03	2.13	2.20	6.15	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U018	22-Aug-88	F19		<6.01	46.00		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
03U019	23-Nov-87	F16	2.67	<4.81	110.00	<1.47	0.13	3.03	18.30	7.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U019	12-Aug-88	F19		<6.01	95.80		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
03U019	19-Jul-90	F27	<0.50	<6.01	94.70		<0.37	<2.50	<1.56	5.45	<5.32	<1.26	<25.50							
03U020	07-Dec-87	F16	<1.93	<4.81	179.00	<1.47	0.13	4.04	1.58	3.60	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U020	17-Aug-88	F19		<6.01	81.60		<0.37	<2.50			<5.32	<1.26								
03U022	05-Apr-88	F18		<6.01	129.00		0.56	<2.50			<5.32	<1.26								
03U023	10-Nov-87	F16	<1.93	<4.81	58.80	<1.47	<0.10	<2.18	0.79	12.50	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U023	15-Nov-88	F20		<6.01	38.40		<0.37	<2.50			<5.32	<1.26								
03U024	10-Aug-88	F19		<6.01	173.00		<0.37	<2.50			<5.32	<1.26								
03U025	10-Aug-88	F19		<6.01	118.00		<0.37	<2.50			<5.32	<1.26								
03U026	18-Nov-87	F16	3.32	<4.81	80.00	<1.47	<0.10	4.25	1.93	4.45	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U026	08-Apr-88	F18		<6.01	55.70		<0.37	<2.50			<5.32	<1.26					<8.17			
03U026	22-Aug-88	F19		<6.01	66.20		<0.37	4.10			<5.32	<1.26				<0.74	<8.17			
03U026	19-Jul-90	F27	<0.50	<6.01	129.00		<0.37	3.24	<1.56	7.17	<5.32	<1.26	<25.50							
03U027	20-Nov-87	F16	2.97	<4.81	240.00	<1.47	<0.10	2.53	1.39	350.00	9.32	4.08	<10.00	<3.06	<2.70					
03U027	16-Aug-88	F19		<6.01	154.00		<0.37	<2.50			<5.32	<1.26								
03U028	03-Dec-87	F16	<1.93	<4.81	72.50	<1.47	0.22	4.04	3.42	2.20	<5.94	<2.65	<10.00	<3.06	<2.70					
03U028	22-Aug-88	F19		<6.01	39.40		<0.37	2.90			<5.32	<1.26				<0.74	<8.17			
03U029	03-Dec-87	F16	<1.93	<4.81	81.40	<1.47	<0.10	<2.18	2.62	7.20	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U029	17-Aug-88	F19		<6.01	53.90		<0.37	<2.50			<5.32	<1.26				<0.74	8.67			

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
03U007	09-Nov-87	F16				<29.40									
03U008	09-Nov-87	F16				<29.40									
03U009	20-Nov-87	F16				<29.40									
03U010	09-Nov-87	F16				<29.40									
03U012	09-Nov-87	F16				<29.40									
03U013	10-Nov-87	F16				<29.40									
03U014	04-Dec-87	F16	<3.00	1.70		<29.40									
03U014	17-Aug-88	F19				<25.00									
03U015	17-Nov-87	F16				<29.40									
03U015	05-Apr-88	F18				<29.40									
03U017	10-Nov-87	F16				<29.40									
03U018	04-Dec-87	F16	<1.70	<1.00	<10.00	<29.40									
03U018	22-Aug-88	F19				<25.00									
03U019	23-Nov-87	F16				30.10									
03U019	12-Aug-88	F19				<25.00									
03U019	19-Jul-90	F27													
03U020	07-Dec-87	F16				<29.40									
03U020	17-Aug-88	F19													
03U022	05-Apr-88	F18													
03U023	10-Nov-87	F16				<29.40									
03U023	15-Nov-88	F20													
03U024	10-Aug-88	F19													
03U025	10-Aug-88	F19				<25.00									
03U026	18-Nov-87	F16				<29.40									
03U026	08-Apr-88	F18													
03U026	22-Aug-88	F19				<25.00									
03U026	19-Jul-90	F27													
03U027	20-Nov-87	F16				<29.40									
03U027	16-Aug-88	F19													
03U028	03-Dec-87	F16				<29.40									
03U028	22-Aug-88	F19				<25.00									
03U029	03-Dec-87	F16				<29.40									
03U029	17-Aug-88	F19				<25.00									

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho- phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
03U090	03-Dec-87	F16	<1.93	<4.81	220.00	<1.47	0.12	3.03	1.33	75.00	<5.94	<2.65	<10.00	<3.06	<2.70					
03U090	22-Aug-88	F19		<6.01	260.00		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
03U091	10-Aug-88	F19		<6.01	50.20		<0.37	<2.50			<5.32	<1.26								
03U092	20-Nov-87	F16	<1.93	<4.81	29.40	<1.47	0.11	3.03	3.02	3.15	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U092	08-Apr-88	F18		<6.01	20.50		<0.37	<2.50			<5.32	<1.26								
03U092	22-Aug-88	F19		<6.01	<9.10		<0.37	3.53			<5.32	<1.26				<0.74	<8.17			
03U092	18-Jul-90	F27	<0.50	<6.01	32.70		<0.37	3.24	<1.56	3.69	<5.32	<1.26	<25.50							
03U075	10-Nov-87	F16	<1.93	<4.81	51.00	<1.47	<0.10	<2.18	0.99	6.40	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U075	18-Aug-88	F19		<6.01	45.10		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
03U076	10-Nov-87	F16	<1.93	<4.81	133.00	<1.47	<0.10	<2.18	1.24	110.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U076	18-Aug-88	F19		<6.01	61.40		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
03U078	23-Nov-87	F16	6.53	<4.81	100.00	<1.47	<0.10	5.06	1.53	6.50	6.21	<2.65	<10.00	<3.06	<2.70	<0.70				
03U078	18-Aug-88	F19		<6.01	47.40		<0.37	<2.50			<5.32	<1.26								
03U079	04-Dec-87	F16	<1.93	<4.81	82.40	<1.47	<0.10	<2.18	1.44	5.20	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U079	18-Aug-88	F19		<6.01	41.50		<0.37	<2.50			<5.32	<1.26								
03U083	10-Aug-88	F19		<6.01	98.80		<0.37	<2.50			<5.32	<1.26								
03U084	23-Nov-87	F16	<1.93	<4.81	177.00	<1.47	<0.10	<2.18	2.48	160.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U087	20-Nov-87	F16	<1.93	<4.81	67.60	<1.47	<0.10	4.04	2.87	<1.19	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U087	11-Apr-88	F18		<6.01	24.70		<0.37	<2.50			<5.32	<1.26								
03U087	17-Nov-88	F20		<6.01	45.60		<0.37	2.64			<5.32	<1.26								
03U087	27-Mar-91	F30															<8.17	1400.00	27.90	57.30
03U088	17-Nov-87	F16	2.72	<4.81	98.00	<1.47	0.15	5.61	2.08	4.30	<5.94	<2.65	<10.00	4.27	<2.70	<0.70	<8.35			
03U088	05-Apr-88	F18		<6.01	54.60		<0.37	3.51			<5.32	<1.26					<8.17			
03U089	20-Nov-87	F16	3.66	<4.81	80.40	<1.47	0.12	28.00	1.44	5.50	8.80	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U089	05-Apr-88	F18		<6.01	88.20		<0.37	44.40			<5.32	<1.26					<8.17			
03U090	19-Nov-87	F16	1.93	<4.81	61.80	<1.47	<0.10	4.04	1.88	1.50	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U090	06-Apr-88	F18		<6.01	40.20		<0.37	<2.50			<5.32	<1.26					<8.17			
03U090	16-Aug-88	F19		<6.01	53.00		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17			
03U090	19-Jul-90	F27	<0.50	<6.01	35.10		<0.37	2.70	<1.56	5.45	<5.32	<1.26	<25.50							
03U090	(4) 19-Jul-90	F27	<0.50		36.80			2.63	<1.56	3.84	<5.32	<1.26	<25.50							
03U092	23-Nov-87	F16	2.97	<4.81	220.00	<1.47	<0.10	<2.18	2.28	190.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U092	08-Apr-88	F18		<6.01	115.00		<0.37	<2.50			<5.32	<1.26					<8.17			
03U092	25-Aug-88	F19		<6.01	144.00		<0.37	<2.50			<5.32	<1.26					16.70			
03U093	04-Dec-87	F16	<1.93	<4.81	220.00	<1.47	0.19	<2.18	1.29	1800.00	6.21	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U093	17-Aug-88	F19		<6.01	100.00		0.54	<2.50			<5.32	<1.26				<0.74	<8.17			
03U094	04-Dec-87	F16	<1.93	<4.81	240.00	<1.47	0.14	3.03	1.39	66.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)	
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00	
03U030	03-Dec-87	F16				<29.40										
03U030	22-Aug-88	F19				<25.00										
03U031	10-Aug-88	F19														
03U032	20-Nov-87	F16	2.80	3.50		<29.40										
03U032	08-Apr-88	F18														
03U032	22-Aug-88	F19				<25.00										
03U032	18-Jul-90	F27														
03U075	10-Nov-87	F16				<29.40										
03U075	18-Aug-88	F19				<25.00										
03U076	10-Nov-87	F16				<29.40										
03U076	18-Aug-88	F19				<25.00										
03U078	23-Nov-87	F16				<29.40										
03U078	18-Aug-88	F19														
03U079	04-Dec-87	F16				<29.40										
03U079	18-Aug-88	F19														
03U083	10-Aug-88	F19														
03U084	23-Nov-87	F16				<29.40										
03U087	20-Nov-87	F16				<29.40										
03U087	11-Apr-88	F18														
03U087	17-Nov-88	F20														
03U087	27-Mar-91	F30														
03U088	17-Nov-87	F16				<29.40										
03U088	05-Apr-88	F18														
03U089	20-Nov-87	F16				<29.40										
03U089	05-Apr-88	F18														
03U090	19-Nov-87	F16				<29.40										
03U090	06-Apr-88	F18														
03U090	16-Aug-88	F19				<25.00										
03U090	19-Jul-90	F27														
03U090	(4) 19-Jul-90	F27														
03U092	23-Nov-87	F16				<29.40										
03U092	08-Apr-88	F18														
03U092	25-Aug-88	F19				<25.00										
03U093	04-Dec-87	F16				<29.40										
03U093	17-Aug-88	F19				<25.00										
03U094	04-Dec-87	F16	<3.60	<2.20		<29.40										

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)	
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00				
03U094	25-Aug-88	F19		<6.01	92.90		<0.37	<2.50			<5.32	<1.26				<0.74	<8.17				
03U096	04-Dec-87	F16	<1.93	<4.81	41.20	<1.47	0.11	3.54	1.87	2.20	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35				
03U096	25-Aug-88	F19		<6.01	34.10		<0.37	3.21			<5.32	<1.26				<0.74	<8.17				
03U097	20-Nov-87	F16	<1.93	<4.81	290.00	<1.47	<0.10	<2.18	1.63	380.00	7.25	<2.65	<10.00	<3.06	<2.70	<0.70					
03U097	07-Apr-88	F18		<6.01	130.00		<0.37	<2.50			<5.32	<1.26					<8.17				
03U099	19-Nov-87	F16	3.32	<4.81	46.10	<1.47	<0.10	2.78	2.03	350.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03U099	11-Apr-88	F18		<6.01	32.80		<0.37	<2.50			<5.32	<1.26									
03U111	20-Nov-87	F16	<1.93	10.80	470.00	<1.47	0.13	<2.18	3.66	850.00		<2.65	<10.00	<3.06	<2.70	<0.70					
03U111	07-Apr-88	F18		9.84	320.00		<0.37	<2.50			<5.32	<1.26						<8.17			
03U112	20-Nov-87	F16	2.48	<4.81	82.40	<1.47	<0.10	4.04	2.08	3.75	6.73	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35				
03U112	08-Apr-88	F18		<6.01	51.30		<0.37	<2.50			<5.32	<1.26					17.40				
03U112	16-Aug-88	F19		<6.01	61.20		<0.37	2.65			<5.32	<1.26					<0.74	<8.17			
03U112	18-Jul-90	F27	<0.50	<6.01	99.10		<0.37	3.45	<1.56	14.00	<5.32	<1.26	<25.50			<0.74	12.00	11000.00		75.30	
03U112	17-Sep-90	F27					0.42														
03U112	20-Sep-90	F27		<6.01	83.60		0.65	4.02			<5.32	3.31						<8.17	11000.00	33.70	110.00
03U112	28-Mar-91	F30																<8.17	9600.00	22.10	37.40
03U113	18-Nov-87	F16	<1.93	<4.81	53.90	<1.47	<0.10	<2.18	2.23	7.20	<5.94	2.76	<10.00	<3.06	<2.70	<0.70	<8.35				
03U113	06-Apr-88	F18		<6.01	36.40		<0.37	<2.50			<5.32	<1.26					<8.17				
03U113	09-Aug-88	F19		<6.01	25.90		<0.37	2.55			<5.32	<1.26					<0.74	<8.17			
03U113	18-Jul-90	F27	<0.50	<6.01	45.80		0.86	<2.50	<1.56	7.16	<5.32	<1.26	<25.50								
03U114	23-Nov-87	F16	<1.93	<4.81	52.90	<1.47	0.33	4.04	12.40	2.25	<5.94	5.10	<10.00	<3.06	<2.70	<0.70	<8.35				
03U114	11-Apr-88	F18		<6.01	25.20		<0.37	<2.50			22.90	<1.26					<8.17				
03U114	09-Aug-88	F19		<6.01	33.90		<0.37	2.93			<5.32	<1.26					<0.74	<8.17			
03U114	18-Jul-90	F27	<0.50	<6.01	46.20		<0.37	<2.50	<1.56	11.10	<5.32	<1.26	<25.50								
03U121	08-Dec-87	F16	<1.93	<4.81	33.30	<1.47	<0.10	<2.18	2.52	100.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35				
03U121	08-Apr-88	F18		<6.01	29.90		<0.37	<2.50			<5.32	<1.26					<8.17				
03U121	16-Aug-88	F19		<6.01	39.40		<0.37	<2.50			<5.32	<1.26					<0.74	<8.17			
03U121	18-Jul-90	F27	<0.50	<6.01	42.10		<0.37	2.96	<1.56	9.66	<5.32	<1.26	<25.50			<0.74	<8.17	470.00		67.20	
03U121	17-Sep-90	F27		<6.01	36.30			3.22			<5.32	2.67					<8.17	320.00	<10.30	23.20	
03U121	28-Mar-91	F30															<8.17	161.00	20.30	31.70	
03U124	08-Apr-88	F18		<6.01	25.80		<0.37	<2.50			<5.32	<1.26				<0.74					
03U124	18-Aug-88	F19		<6.01	38.00		<0.37	4.88			<5.32	<1.26					<0.74	<8.17			
03U129	08-Dec-87	F16	<1.93	9.28	370.00	<1.47	0.17	<2.18	4.95	380.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
03U129	07-Apr-88	F18		<6.01	160.00		<0.37	<2.50			<5.32	<1.26						<8.17			
03U301	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	<10.00		<50.00	<1.00				<0.20	60.00				
03U301	19-Jul-89	A23		<2.00	<200.00		<0.10	<1.00	30.00		<50.00	3.00				<0.20	10.00	20.00		90.00	
03U301	24-Oct-89	A24		<5.00	35.00		<8.00	<9.00	26.00		<16.00	2.00				<0.20	10.00	20.00		<50.00	
03U301	18-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00	30.00		<50.00	
03U314	20-Apr-89	A22		8.00	200.00		<0.10	<1.00	<10.00		<50.00	<1.00				<0.20	<10.00				
03U314	19-Jul-89	A23		11.00	<200.00		0.10	<1.00	<10.00		<50.00	2.00				<0.20	<10.00	160.00		230.00	

TABLE 3
TCAAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc Zn (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
03U094	25-Aug-88	F19				<25.00									
03U096	04-Dec-87	F16				<29.40									
03U096	25-Aug-88	F19				<25.00									
03U097	20-Nov-87	F16				<29.40									
03U097	07-Apr-88	F18													
03U099	19-Nov-87	F16				<29.40									
03U099	11-Apr-88	F18													
03U111	20-Nov-87	F16				<29.40									
03U111	07-Apr-88	F18													
03U112	20-Nov-87	F16				<29.40									
03U112	08-Apr-88	F18													
03U112	16-Aug-88	F19				<25.00									
03U112	18-Jul-90	F27													
03U112	17-Sep-90	F27													
03U112	20-Sep-90	F27													
03U112	28-Mar-91	F30													
03U113	18-Nov-87	F16	4.20	2.70		<29.40									
03U113	06-Apr-88	F18													
03U113	09-Aug-88	F19				<25.00									
03U113	18-Jul-90	F27													
03U114	23-Nov-87	F16				<29.40									
03U114	11-Apr-88	F18													
03U114	09-Aug-88	F19				<25.00									
03U114	18-Jul-90	F27													
03U121	08-Dec-87	F16				<29.40									
03U121	08-Apr-88	F18													
03U121	16-Aug-88	F19				<25.00									
03U121	18-Jul-90	F27													
03U121	17-Sep-90	F27													
03U121	28-Mar-91	F30													
03U124	08-Apr-88	F18	<0.70	2.20		<25.00									
03U124	18-Aug-88	F19				<25.00									
03U129	08-Dec-87	F16				<29.40									
03U129	07-Apr-88	F18													
03U301	20-Apr-89	A22				10.00									
03U301	19-Jul-89	A23				20.00									
03U301	24-Oct-89	A24				30.00									
03U301	18-Jan-90	A25				<4.00									
03U314	20-Apr-89	A22				80.00									
03U314	19-Jul-89	A23				80.00									

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
03U314	24-Oct-89	A24		11.00	230.00		<8.00	<9.00	<4.00		<16.00	1.00				<0.20	<10.00		140.00	260.00
03U314	19-Jan-90	A25		12.00	300.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		260.00	320.00
03U315	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	50.00		<50.00	9.00				<0.20	<10.00			
03U315	19-Jul-89	A23		<2.00	<200.00		<0.10	<1.00	30.00		<50.00	3.00				<0.20	<10.00		140.00	150.00
03U315	24-Oct-89	A24		<5.00	100.00		<8.00	<9.00	<4.00		<16.00	3.00				<0.20	<10.00		150.00	160.00
03U315	19-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	4.00				<0.20	<10.00		170.00	210.00
03U316	20-Apr-89	A22		<3.00	<200.00		0.20	2.00	300.00		<50.00	66.00				<0.20	<10.00			
03U316	19-Jul-89	A23		<2.00	<200.00		0.10	<1.00	70.00		<50.00	22.00				<0.20	<10.00		20.00	70.00
03U316	24-Oct-89	A24		<5.00	90.00		<8.00	<9.00	<4.00		<16.00	4.00				<0.20	<10.00		20.00	<50.00
03U316	19-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	2.00				<0.20	<10.00		40.00	50.00
03U317	20-Apr-89	A22		<3.00	<200.00		<0.10	1.00	50.00		<50.00	30.00				<0.20	10.00			
03U317	19-Jul-89	A23		<2.00	<200.00		<0.10	<1.00	30.00		<50.00	15.00				<0.20	<10.00		30.00	50.00
03U317	25-Oct-89	A24		<5.00	110.00		<8.00	<9.00				2.00				<0.20	<10.00		30.00	80.00
03U317	19-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	5.00				<0.20	20.00		40.00	60.00
03U521	20-Nov-87	F16	1.98	<4.81	33.30	<1.47	<0.10	2.53	2.97	4.45	6.21	4.59	<10.00	<3.06	<2.70	<0.70				
03U521	11-Apr-88	F18		<6.01	19.40		<0.37	<2.50			<5.32	<1.26								
03U521	18-Nov-88	F20		<6.01	16.80		<0.37	<2.50			<5.32	<1.26								
03U521	25-Apr-90	F26															<8.17			
03U521	19-Jul-90	F27															<8.17	1500.00	27.70	59.40
03U521	(4) 19-Jul-90	F27															<8.17	1400.00	21.50	53.00
03U671	04-Dec-87	F16	<1.93	<4.81	95.10	<1.47	<0.10	3.54	2.03	14.80	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
03U671	22-Aug-88	F19		<6.01	42.10		<0.37	<2.50			<5.32	<1.26								
03U704	10-Nov-87	F16	<1.93	<4.81	45.10	<1.47	1.46	<2.18	1.93	140.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70	<8.35			
03U704	05-Apr-88	F18		<6.01	30.10		<0.37	<2.50			<5.32	<1.26					<8.17			
03U801	03-Dec-87	F16														<0.70				
03U803	01-Dec-87	F16														<0.70				
03U804	01-Dec-87	F16														<0.70				
03U805	01-Dec-87	F16														<0.70				
03U806	02-Dec-87	F16														<0.70				
03U811	25-Nov-87	F16														<0.70				
03U821	30-Nov-87	F16														<0.70				
03U822	01-Dec-87	F16														<0.70				
03U824	01-Dec-87	F16														<0.70				
03U831	25-Nov-87	F16														<0.70				
03U832	24-Nov-87	F16														<0.70				

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
03U314	24-Oct-89	A24				15.00									
03U314	19-Jan-90	A25				<41.00									
03U315	20-Apr-89	A22				80.00									
03U315	19-Jul-89	A23				60.00									
03U315	24-Oct-89	A24				53.00									
03U315	19-Jan-90	A25				<4.00									
03U316	20-Apr-89	A22				1700.00									
03U316	19-Jul-89	A23				180.00									
03U316	24-Oct-89	A24				22.00									
03U316	19-Jan-90	A25				<4.00									
03U317	20-Apr-89	A22				110.00									
03U317	19-Jul-89	A23				400.00									
03U317	25-Oct-89	A24				<4.00									
03U317	19-Jan-90	A25				<4.00									
03U521	20-Nov-87	F16				<29.40									
03U521	11-Apr-88	F18													
03U521	18-Nov-88	F20													
03U521	25-Apr-90	F26													
03U521	19-Jul-90	F27													
03U521	(4) 19-Jul-90	F27													
03U671	04-Dec-87	F16				<29.40									
03U671	22-Aug-88	F19													
03U704	10-Nov-87	F16				<29.40									
03U704	05-Apr-88	F18													
03U801	03-Dec-87	F16													
03U803	01-Dec-87	F16													
03U804	01-Dec-87	F16													
03U805	01-Dec-87	F16													
03U806	02-Dec-87	F16													
03U811	25-Nov-87	F16													
03U821	30-Nov-87	F16													
03U822	01-Dec-87	F16													
03U824	01-Dec-87	F16													
03U831	25-Nov-87	F16													
03U832	24-Nov-87	F16													

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)	
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00				
04U001	16-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	1.19	280.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
04U002	17-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	0.79	360.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
04U003	19-Nov-87	F16	<1.93	<4.81	130.00	<1.47	<0.10	<2.18	0.99	210.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
04U007	09-Nov-87	F16	<1.93	<4.81	186.00	<1.47	<0.10	<2.18	1.68	400.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
04U012	09-Nov-87	F16	<1.93	<4.81	490.00	<1.47	<0.10	2.33	1.24	320.00	<5.94	<2.65	<10.00	<3.06	5.22	<0.70					
04U020	07-Dec-87	F16	<1.93	21.10	910.00	<1.47	<0.10	<2.18	1.53	1100.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
04U020	17-Aug-88	F19		21.20	570.00		<0.37	<2.50			<5.32	1.84									
04U077	04-Dec-87	F16	<1.93	<4.81	240.00	<1.47	<0.10	<2.18	1.34	200.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					
04U510	18-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	2.28	270.00	<5.94	3.78	<10.00	<3.06	<2.70	<0.70					
04U806	02-Dec-87	F16													<0.70						
04U821	30-Nov-87	F16													<0.70						
04U821	19-Apr-90	F26															<8.17				
04U821	23-Jul-90	F27															<8.17	550.00	<10.30	21.50	
04U821	23-Jul-90	F27															<8.17	540.00	<10.30	20.00	
04U821	18-Sep-90	F27																		<9.36	
04U821	20-Sep-90	F27																<8.17	420.00	10.50	31.40
04U832	24-Nov-87	F16														<0.70					
04U850	02-May-89	F22																	<10.30	23.80	
04U850	19-Jul-89	F23																	<12.10	79.80	
04U850	19-Oct-89	F24																	<12.10	35.10	
04U871	23-Aug-88	F19																	28.50		
04U871	08-May-89	F22																	17.40	19.70	
04U871	19-Jul-89	F23																	<12.10	42.60	
04U871	23-Oct-89	F24																	<12.10	45.30	
04U872	24-Aug-88	F19																	<10.30		
04U872	08-May-89	F22																	<10.30	13.90	
04U872	19-Jul-89	F23																	<12.10	35.00	
04U872	23-Oct-89	F24																	<12.10	24.60	
04U875	23-Aug-88	F19																	10.20		
04U875	19-Jul-89	F23																	<12.10	44.40	
04U875	19-Oct-89	F24																	<12.10	53.90	
04U877	23-Aug-88	F19																	34.70		
04U877	02-May-89	F22																	<10.30	15.60	
04U877	18-Jul-89	F23																	<12.10	61.10	
04U877	19-Oct-89	F24																	<12.10	50.20	

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
04U001	16-Nov-87	F16				<29.40									
04U002	17-Nov-87	F16				<29.40									
04U003	19-Nov-87	F16				<29.40									
04U007	09-Nov-87	F16				<29.40									
04U012	09-Nov-87	F16				<29.40									
04U020	07-Dec-87	F16	<1.60	<1.00	<10.00	<29.40									
04U020	17-Aug-88	F19				<29.40									
04U077	04-Dec-87	F16				<29.40									
04U510	18-Nov-87	F16				71.10									
04U806	02-Dec-87	F16													
04U821	30-Nov-87	F16													
04U821	19-Apr-90	F26													
04U821	23-Jul-90	F27													
04U821	(4) 23-Jul-90	F27													
04U821	18-Sep-90	F27													
04U821	20-Sep-90	F27													
04U832	24-Nov-87	F16													
04U850	02-May-89	F22													
04U850	19-Jul-89	F23													
04U850	19-Oct-89	F24													
04U871	23-Aug-88	F19													
04U871	08-May-89	F22													
04U871	19-Jul-89	F23													
04U871	23-Oct-89	F24													
04U872	24-Aug-88	F19													
04U872	08-May-89	F22													
04U872	19-Jul-89	F23													
04U872	23-Oct-89	F24													
04U875	23-Aug-88	F19													
04U875	19-Jul-89	F23													
04U875	19-Oct-89	F24													
04U877	23-Aug-88	F19													
04U877	02-May-89	F22													
04U877	18-Jul-89	F23													
04U877	19-Oct-89	F24													

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAAP GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
04U879	19-Jul-89	F23																	<12.10	36.90
04U879	17-Oct-89	F24																	<12.10	16.30
04U880	18-Jul-89	F23																	<12.10	61.10
04U880	19-Oct-89	F24																	<12.10	52.00
04U881	18-Jul-89	F23																	<12.10	46.30
04U881	18-Oct-89	F24																	<12.10	38.90
04U882	17-Jul-89	F23																	<12.10	63.10
04U882	18-Oct-89	F24																	<12.10	29.40
04U883	14-Oct-88	F20																		82.40
04U883	17-Jul-89	F23																	<12.10	29.40
04U883	18-Oct-89	F24																	<12.10	21.90
191942	30-Nov-87	F16														<0.70				
206688	23-Oct-89	F24																	<12.10	45.30
409595	30-Nov-87	F16														<0.70				
409596	30-Nov-87	F16														<0.70				
409597	30-Nov-87	F16														<0.70				
409598	30-Nov-87	F16														<0.70				
500691	17-Oct-89	F24																	<12.10	52.00
508115	18-Oct-89	F24																	<12.10	65.20
PJ#003	19-Nov-87	F16	<1.93	<4.81	130.00	<1.47	<0.10	<2.18	0.94	330.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
PJ#027	20-Nov-87	F16	<1.93	<4.81	190.00	<1.47	<0.10	<2.18	1.49	250.00	6.21	<2.65	<10.00	<3.06	<2.70	<0.70				
PJ#074	03-Dec-87	F16	<1.93	<4.81	220.00	<1.47	0.15	<2.18	1.10	410.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
PJ#074	19-Aug-88	F19		<6.01	134.00		<0.37	<2.50			<5.32	<1.26								
PJ#309	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	20.00		<50.00	8.00				<0.20	<10.00			
PJ#309	19-Jul-89	A23		<2.00	<200.00		0.20	<1.00	100.00		<50.00	42.00				<0.20	<10.00	20.00	90.00	
PJ#309	23-Oct-89	A24		<5.00	140.00		<8.00	<9.00	7.00		<16.00	7.00				<0.20	<10.00	30.00	<50.00	
PJ#309	18-Jan-90	A25		<5.00	200.00		<8.00	<9.00	<4.00		<16.00	16.00				<0.20	<10.00	30.00	50.00	
PJ#310	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	<10.00		<50.00	24.00				<0.20	<10.00			
PJ#310	19-Jul-89	A23		<2.00	200.00		0.20	<1.00	80.00		<50.00	26.00				<0.20	<10.00	20.00	70.00	
PJ#310	11-Oct-89	A24		<5.00	140.00		<8.00	<9.00	<4.00		<16.00	1.00				<0.20	<10.00	<20.00	1100.00	
PJ#310	19-Jan-90	A25		<5.00	300.00		<8.00	<9.00	39.00		<16.00	87.00				<0.20	<10.00	30.00	<50.00	
PJ#311	20-Apr-89	A22		<3.00	<200.00		<0.10	2.00	20.00		<50.00	50.00				<0.20	<10.00			
PJ#311	19-Jul-89	A23		<2.00	<200.00		<0.10	<1.00	<10.00		<50.00	2.00				<0.20	<10.00	20.00	<50.00	
PJ#311	24-Oct-89	A24		<5.00	120.00		<8.00	<9.00	<4.00		<16.00	2.00				<0.20	<10.00	20.00	<50.00	

TABLE 3
TCAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc Zn (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
04U879	19-Jul-89	F23													
04U879	17-Oct-89	F24													
04U880	18-Jul-89	F23													
04U880	19-Oct-89	F24													
04U881	18-Jul-89	F23													
04U881	18-Oct-89	F24													
04U882	17-Jul-89	F23													
04U882	18-Oct-89	F24													
04U883	14-Oct-88	F20													
04U883	17-Jul-89	F23													
04U883	18-Oct-89	F24													
191942	30-Nov-87	F16													
206688	23-Oct-89	F24													
409595	30-Nov-87	F16													
409596	30-Nov-87	F16													
409597	30-Nov-87	F16													
409598	30-Nov-87	F16													
500691	17-Oct-89	F24													
508115	18-Oct-89	F24													
PJ#003	19-Nov-87	F16				<29.40									
PJ#027	20-Nov-87	F16				<29.40									
PJ#074	03-Dec-87	F16	3.50	5.30		<29.40									
PJ#074	19-Aug-88	F19													
PJ#309	20-Apr-89	A22				40.00									
PJ#309	19-Jul-89	A23				340.00									
PJ#309	23-Oct-89	A24				53.00									
PJ#309	18-Jan-90	A25				<4.00									
PJ#310	20-Apr-89	A22				20.00									
PJ#310	19-Jul-89	A23				270.00									
PJ#310	11-Oct-89	A24				28.00									
PJ#310	19-Jan-90	A25				<1200.00									
PJ#311	20-Apr-89	A22				180.00									
PJ#311	19-Jul-89	A23				50.00									
PJ#311	24-Oct-89	A24				37.00									

TABLE 3
TCAA INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Silver AG (ug/l)	Arsenic AS (ug/l)	Barium BA (ug/l)	Beryllium BE (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Manganese MN (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Antimony SB (ug/l)	Selenium SE (ug/l)	Thallium TL (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Nitrate NIT (ug/l)	Ortho phos- phates PO4ORT (ug/l)	Total Phos- phates TPO4 (ug/l)
TCAA GW Action Criteria - ug/l (3)			0.09	0.20	1000.00	0.08	4.00	50.00	1.00		70.00	5.00	1.00	10.00	0.30	1.00	100.00			
PJ#311	19-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		30.00	160.00
PJ#313	20-Apr-89	A22		<3.00	<200.00		<0.10	<1.00	<10.00		<50.00	<1.00				<0.20	<10.00			
PJ#313	19-Jul-89	A23		<2.00	<200.00		<0.10	<1.00	50.00		<50.00	4.00				<0.20	<10.00		<20.00	80.00
PJ#313	23-Oct-89	A24		<5.00	64.00		<8.00	<9.00	19.00		<16.00	2.00				<0.20	<10.00		20.00	50.00
PJ#313	19-Jan-90	A25		<5.00	<200.00		<8.00	<9.00	<4.00		<16.00	<1.00				<0.20	<10.00		30.00	<50.00
PJ#318	24-Aug-88	F19																	<10.30	
PJ#318	02-May-89	F22																	<10.30	32.80
PJ#318	19-Jul-89	F23																	<12.10	33.10
PJ#318	18-Oct-89	F24																	<12.10	12.60
PJ#502	18-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	1.73	240.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
PJ#503	18-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	1.53	360.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
PJ#506	19-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	0.89	560.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
PJ#507	18-Nov-87	F16	<1.93	<4.81	<220.00	<1.47	<0.10	<2.18	1.39	680.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70				
PJ#508	23-Aug-88	F19		8.53	360.00		<0.37	<2.50			<5.32	<1.26								
PJ#806	02-Dec-87	F16														<0.70				
PJ#806	23-Apr-90	A26																		

TABLE 3
TCAAAP INORGANIC GROUNDWATER QUALITY DATA (1)

Well	Date	Qtr (2)	Gross Alpha Radiation ALPHAG (pCi/l)	Gross Beta Radiation BETAG (pCi/l)	Gross Gamma Radiation GAMMAS (pCi/l)	Zinc ZN (ug/l)	Aluminum AL (ug/l)	Calcium CA (ug/l)	Cobalt CO (ug/l)	Iron FE (ug/l)	Potassium K (ug/l)	Magnesium MG (ug/l)	Molybdenum MO (ug/l)	Sodium NA (ug/l)	Vanadium V (ug/l)
TCAAAP GW Action Criteria - ug/l (3)						700.00			1.00						20.00
PJ#311	19-Jan-90	A25				<4.00									
PJ#313	20-Apr-89	A22				<0.01									
PJ#313	19-Jul-89	A23				60.00									
PJ#313	23-Oct-89	A24				36.00									
PJ#313	19-Jan-90	A25				<4.00									
PJ#318	24-Aug-88	F19													
PJ#318	02-May-89	F22													
PJ#318	19-Jul-89	F23													
PJ#318	18-Oct-89	F24													
PJ#502	18-Nov-87	F16				<29.40									
PJ#503	18-Nov-87	F16				<29.40									
PJ#506	19-Nov-87	F16				<29.40									
PJ#507	18-Nov-87	F16				<29.40									
PJ#508	23-Aug-88	F19													
PJ#806	02-Dec-87	F16													
PJ#806	23-Apr-90	A26													

Table 4

TCAAP PCB Data Groundwater and Surface Water

Notes:

- (1) The chemical names are:

ABHC	Alpha-Benzenehexachloride
ACLDAN	--
AENSLF	Alpha-Endosulfan
ALDRN	Aldrin
BBHC	Beta-Benzenehexachloride
BENSLF	Beta-Endosulfan
DBHC	Delta-Benzenehexachloride
DLDRN	Dieldrin
ENDRN	Endrin
ENDRNA	Endrin Aldehyde
ENDRNK	Endrin Ketone
ESFS04	Endosulfan Sulfate
GCLDAN	--
HPCL	Heptachlor
HPCLE	Heptachlor Epoxide

- (2) Qtr = Quarter. Under this heading, F = FCC and A = Alliant Techsystems, Inc.
- (3) Duplicate sample collected for QA/QC purposes.

Table 4

TCAAP PCB Data Groundwater and Surface Water

Notes:

- (1) The chemical names are:

ABHC	Alpha-Benzenehexachloride
ACLDAN	--
AENSLF	Alpha-Endosulfan
ALDRN	Aldrin
BBHC	Beta-Benzenehexachloride
BENSLF	Beta-Endosulfan
DBHC	Delta-Benzenehexachloride
DLDRN	Dieldrin
ENDRN	Endrin
ENDRNA	Endrin Aldehyde
ENDRNK	Endrin Ketone
ESFS04	Endosulfan Sulfate
GCLDAN	--
HPCL	Heptachlor
HPCLE	Heptachlor Epoxide

- (2) Qtr = Quarter. Under this heading, F = FCC and A = Alliant Techsystems, Inc.
- (3) Duplicate sample collected for QA/QC purposes.

TABLE 4

April 13, 1992

TCAAP PCB DATA - GROUNDWATER AND SURFACE WATER (1)

Location	Date	Qtr (2)	ABHC	ACLDAN	AENSLF	ALDRN	BBHC	BENSLF	DBHC	DLDRN	ENDRN	ENDRNA	ENDRNK	ESFSO4	GCLDAN	HPCL	HPCLE
<u>Groundwater</u>																	
01U636	22-Mar-91	A30	<0.04	<0.02	<0.01	<0.06	<0.01	<0.01	<0.05	<0.03	<0.04	<0.07	<0.03	<0.02	<0.05	<0.06	<0.01
01U640	22-Mar-91	A30	<0.05	<0.11	<0.05	<0.07	<0.01	<0.07	<0.05	<0.18	<0.21	<0.38	<0.16	<0.11	<0.25	<0.07	<0.03
01U640	(3) 22-Mar-91	A30	<0.06	<0.26	<0.11	<0.08	<0.01	<0.16	<0.06	<0.42	<0.48	<0.91	<0.37	<0.26	<0.59	<0.08	<0.08
<u>Surface Water</u>																	
20100	07-May-91	F31	<0.04	<0.02	<0.01	<0.06	<0.01	<0.01	<0.05	<0.03	<0.04	<0.07	<0.03	<0.02	<0.05	<0.06	<0.01
20200	07-May-91	F31	<0.04	<0.02	<0.01	<0.06	<0.01	<0.01	<0.05	<0.03	<0.04	<0.07	<0.03	<0.02	<0.05	<0.06	<0.01
21100	07-May-91	F31	<0.04	<0.02	<0.01	<0.06	<0.01	<0.01	<0.05	<0.03	<0.04	<0.07	<0.03	<0.02	<0.05	<0.06	<0.01
21200	07-May-91	F31	<0.04	<0.02	<0.01	<0.06	<0.01	<0.01	<0.05	<0.03	<0.04	<0.07	<0.03	<0.02	<0.05	<0.06	<0.01
21300	07-May-91	F31	<0.04	<0.02	<0.01	<0.06	<0.01	<0.01	<0.05	<0.03	<0.04	<0.07	<0.03	<0.02	<0.05	<0.06	<0.01
21400	07-May-91	F31	<0.04	<0.02	<0.01	<0.06	<0.01	<0.01	<0.05	<0.03	<0.04	<0.07	<0.03	<0.02	<0.05	<0.06	<0.01
21600	07-May-91	F31	<0.04	<0.02	<0.01	<0.06	<0.01	<0.01	<0.05	<0.03	<0.04	<0.07	<0.03	<0.02	<0.05	<0.06	<0.01

TABLE 4

April 13, 1992

TCAAP PCB DATA - GROUNDWATER AND SURFACE WATER (1)

Location	Date	Qtr (2)	LIN	MEXCLR	PCB016	PCB221	PCB232	PCB242	PCB248	PCB254	PCB260	PPDD	PPDE	PPDT	TXPHEN
<u>Groundwater</u>															
01U636	22-Mar-91	A30	<0.04	<0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.03	<0.50
01U640	22-Mar-91	A30	<0.05	<1.47	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.47	<0.52	<0.17	<2.75
01U640	(3) 22-Mar-91	A30	<0.06	<3.47	<1.30	<1.30	<1.30	<1.30	<1.30	<1.30	<1.30	<1.10	<1.23	<0.41	<6.50
<u>Surface Water</u>															
20100	07-May-91	F31	<0.04	<0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.03	<0.50
20200	07-May-91	F31	<0.04	<0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.03	<0.50
21100	07-May-91	F31	<0.04	<0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.03	<0.50
21200	07-May-91	F31	<0.04	<0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.03	<0.50
21300	07-May-91	F31	<0.04	<0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.03	<0.50
21400	07-May-91	F31	<0.04	<0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.03	<0.50
21600	07-May-91	F31	<0.04	<0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.09	<0.10	<0.03	<0.50

Table 5

Exceedance of Organic Groundwater Action Criteria

Notes:

- (1) Only those concentrations which exceeded the groundwater action criteria during FY 91 are shown. Also shown are values reported as "less than the method detection limit" where the method detection limit was greater than the action criteria.
- (2) Qtr = Quarter. Under this heading, F = FCC; A = Alliant Techsystems, Inc.; and M = MPCA.
- (3) TCAAP GW Action Criteria = groundwater action criteria set forth in revised Table 3.7A of the Federal Facilities Agreement.
- (4) Duplicate sample collected for QA/QC purposes.

Table 5

Exceedance of Organic Groundwater Action Criteria

Notes:

- (1) Only those concentrations which exceeded the groundwater action criteria during FY 91 are shown. Also shown are values reported as "less than the method detection limit" where the method detection limit was greater than the action criteria.
- (2) Qtr = Quarter. Under this heading, F = FCC; A = Alliant Techsystems, Inc.; and M = MPCA.
- (3) TCAAP GW Action Criteria = groundwater action criteria set forth in revised Table 3.7A of the Federal Facilities Agreement.
- (4) Duplicate sample collected for QA/QC purposes.

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCELE	1,2-Di Chloro Ethane 12DCELE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
01U036	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U039	13-Mar-91	F30	<5.00		<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
01U039	30-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U039	30-Jul-91	M32			<0.50				<1.00								
01U060	25-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U064	22-Mar-91	A30	<2.00	14.00	<2.00	350.00			<3.80				<1.00		<1.40		
01U085	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U098	25-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U102	13-Mar-91	F30	170.00	160.00	<10.00	650.00			<19.00		<10.00		<5.00	<13.00	<7.20	<10.00	41.00
01U102	05-Jun-91	F31	180.00	91.00	<5.00	440.00			<9.50		<5.00		<2.50	<6.50	<3.60		16.00
01U102	05-Jun-91	M31	130.00	63.00	<2.50		100.00		<5.00				<1.00		<0.50		14.00
01U102	30-Jul-91	F32	83.00	76.00	<4.90	140.00			<15.00		<9.90		<5.10	<11.00	<4.10	<6.20	
01U102	30-Jul-91	M31	140.00	54.00	<2.50				<5.00				<1.00		<0.50		5.00
01U102	03-Sep-91	F32	120.00	85.00	<5.00	250.00			<5.00		<5.00		<2.50	<6.50	<3.60		5.90
01U103	13-Mar-91	F30	6.20		<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
01U103	30-Jul-91	F32	0.76		<0.49				<1.50				<0.51		<0.41		
01U106	30-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U107	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U108	22-Oct-90	F29	133.00	57.40	<1.00				<1.90				<0.50		<0.72		
01U108	20-Nov-90	F29	100.99	59.55	<1.00				<1.90				<0.50		<0.72		
01U108	18-Dec-90	F29	70.09	35.52	<1.00				<1.90				<0.50		<0.72		
01U108	22-Jan-91	F30	160.00	86.00	<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
01U108	19-Feb-91	F30	94.00	49.10	<1.00				<1.90				<0.50		<0.72		
01U108	19-Mar-91	F30	84.30	50.00	<1.00				<1.90				<0.50		<0.72		
01U108	19-Mar-91	M30	73.00	43.00	<1.30				<2.50				<0.50		<0.30		
01U108	16-Apr-91	F31	240.00	170.00	<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
01U108	18-May-91	F31	94.80	67.00	<1.00				<1.90				<0.50		<0.72		
01U108	18-Jun-91	F31	180.00	120.00	<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
01U108	23-Jul-91	F32	180.00	110.00	<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
01U108	30-Jul-91	F32	180.00	240.00	<12.00				<38.00		<25.00		<13.00	<28.00	<10.00	<16.00	
01U108	19-Aug-91	F32	150.00	84.00	<2.00				<3.80				<1.00		<1.40		
01U108	17-Sep-91	F32	130.00	82.00	<2.00				<3.80				<1.00		<1.44		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCl4	Chloro Form CHCl3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
01U115	19-Mar-91	F30	<1.00	2.86	<1.00				<1.90				<0.50		<0.72		
01U115	19-Mar-91	M30							<1.00								
01U115	05-Jun-91	F31	<1.00	4.21	<1.00				<1.90				<0.50		<0.72		
01U115	05-Jun-91	M31		3.60	<0.50				<1.00								
01U115	30-Jul-91	F32	<0.88	3.42	<0.49				<1.50				<0.51		<0.41		
01U115	03-Sep-91	F32	<1.00	3.10	<1.00				<1.90				<0.50		<0.72		
01U116	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U116	30-Jul-91	F32	<0.88	3.68	<0.49				<1.50				<0.51		<0.41		
01U117	19-Mar-91	F30	5.84	21.40	<1.00	200.00			<1.90				<0.50		<0.72		
01U117	11-Jun-91	M31	8.10		<0.50				<1.00								
01U117	30-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U117	30-Jul-91	F32	<8.80	38.00	<4.90	98.00			<15.00		<9.90		<5.10	<11.00	<4.10	<6.20	
01U118	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U120	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U120	30-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U125	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U125 (4)	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U125	30-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U126	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U126	30-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U127	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U127	30-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U135	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U136	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U137	29-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U137	30-Jul-91	M31			<0.50				<1.00								
01U138	29-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U138	29-Jul-91	M31			<0.50				<1.00								
01U139	29-Jul-91	F32	<0.88	3.89	<0.49				<1.50				<0.51		<0.41		
01U139	29-Jul-91	M31			<0.50				<1.00								
01U139	30-Jul-91	M31			<0.50				<1.00								
01U140	29-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U140	29-Jul-91	M31			<0.50				<1.00								4.90
01U141	29-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U141	29-Jul-91	M31			<0.50				<1.00								

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCLE	1,2-Di Chloro Ethane 12DCLE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
01U350	22-Oct-90	F29	30.57	12.98	<1.00			<1.90					<0.50		<0.72		
01U350	20-Nov-90	F29	30.46	13.73	<1.00			<1.90					<0.50		<0.72		
01U350	18-Dec-90	F29	23.95	13.95	<1.00			<1.90					<0.50		<0.72		
01U350	22-Jan-91	F30	24.40	12.90	<1.00			<1.90					<0.50		<0.72		
01U350	19-Feb-91	F30	27.90	14.70	<1.00			<1.90					<0.50		<0.72		
01U350	19-Mar-91	F30	25.30	13.60	<1.00			<1.90					<0.50		<0.72		
01U350	16-Apr-91	F31	28.90	14.50	<1.00			<1.90					<0.50		1.93		
01U350	18-May-91	F31	<1.00		<1.00			<1.90					<0.50		<0.72		
01U350	18-Jun-91	F31	38.60	19.30	<1.00			<1.90					<0.50		<0.72		
01U350	23-Jul-91	F32	26.30	13.70	<1.00			<1.90					<0.50		<0.72		
01U350	30-Jul-91	F32	19.00	19.00	<0.98			<3.00					<1.00		0.81		
01U350	19-Aug-91	F32	37.10	17.40	<1.00			<1.90					<0.50		0.93		
01U350	17-Sep-91	F32	<1.00	29.40	<1.00			<1.90					<0.50		<0.72		
01U526	13-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
01U604	05-Mar-91	A30	<1.00		<1.00			<1.90					<0.50		<0.72		
01U611	05-Mar-91	A30	<1000.00	40000.00	<1000.00	3900.00		<300.00	<1900.00	<1000.00	<1000.00	<780.00	<500.00	<1300.00	<720.00	<1000.00	
01U615	05-Mar-91	A30	<500.00	8800.00	<500.00	950.00		160.00	<950.00	<500.00	<500.00	<390.00	<250.00	<650.00	<360.00	<500.00	
01U617	02-Oct-90	A29	<1.00		<0.30			<1.50							<0.50		
01U617	05-Mar-91	A30	<1.00	1.17	<1.00			<1.90					<0.50		<0.72		
01U617	05-Mar-91	M30			0.70			<1.00									
01U617	10-Jun-91	A31	<1.00	1.08	<1.00			<1.90					0.68		<0.72		
01U617	03-Sep-91	A32	<1.00	1.71	<1.00			<1.90					<1.00		<0.72		
01U617	03-Sep-91	A32	<1.00	1.80	<1.00			<1.90					<1.00		<0.72		
01U618	05-Mar-91	A30	<1.00	4.97	<1.00			<1.90					<0.50		<0.72		
01U621	02-Oct-90	A29	<1.00		<0.30			<1.50							<0.50		
01U621	05-Mar-91	A30	<1.00		<1.00			<1.90					<0.50		<0.72		
01U621	05-Mar-91	A30	9.35		<1.00			<1.90					<0.50		<0.72		
01U621	10-Jun-91	A31	<1.00		<1.00			<1.90					<0.50		<0.72		
01U621	03-Sep-91	A32	<1.00		<1.00			<1.90					<1.00		<0.72		
01U636	22-Mar-91	A30	<1.00		<1.00			<1.90					<0.50		<0.72		
01U639	22-Mar-91	A30	<1.00		<1.00			<1.90					<0.50		<0.72		
01U639	22-Mar-91	M30			<0.50			<1.00									
01U640	22-Mar-91	A30	<1.00	17.40	<1.00			<1.90					<0.50		<0.72		
01U640	22-Mar-91	A30	<1.00	16.10	<1.00			<1.90					<0.50		<0.72		
01U803	05-Sep-91	F32	<1.00		<1.00			<1.90					<0.50		<0.72		
01U805	05-Sep-91	F32	<1.00		<1.00			<1.90					<0.50		<0.72		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCLE	1,2-Di Chloro Ethane 12DCLE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
01U806	05-Sep-91	F32	<1.00		<1.00				<1.90				<0.50		<0.72		
01U808	05-Sep-91	F32	<1.00		<1.00				<1.90				<0.50		<0.72		
01U901	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U901	13-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U901	11-Jun-91	M31			<0.50				<1.00								
01U901	30-Jul-91	F32	<0.88		<0.49				<1.50				<0.51		<0.41		
01U902	22-Oct-90	F29	3.27	3.26	<1.00				<1.90				<0.50		<0.72		
01U902	20-Nov-90	F29	<1.00	4.82	<1.00				<1.90				<0.50		<0.72		
01U902	18-Dec-90	F29	1.30	3.64	<1.00				<1.90				<0.50		<0.72		
01U902	22-Jan-91	F30	<1.00	2.35	<1.00				<1.90				<0.50		<0.72		
01U902	19-Feb-91	F30	3.85	3.25	70.00				<1.90				<0.50		<0.72		
01U902	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
01U902	19-Mar-91	M30			<0.50		73.00		<1.00								0.70
01U902	16-Apr-91	F31	<1.00		<1.00				<1.90				<0.50		<0.72		
01U902	18-May-91	F31	<1.00	3.09	<1.00				<1.90				<0.50		<0.72		0.87
01U902	05-Jun-91	F31															0.87
01U902	18-Jun-91	F31	<1.00	3.82	<1.00				<1.90				<0.50		<0.72		
01U902	23-Jul-91	F32	<1.00	4.74	<1.00				<1.90				<0.50		<0.72		
01U902	30-Jul-91	F32	4.40	7.10	<0.98				<3.00		6.10		<1.00		<0.82		
01U902	19-Aug-91	F32	<1.00	3.53	<1.00				<1.90				<0.50		<0.72		
01U902	17-Sep-91	F32	<1.00	3.94	<1.00				<1.90				<0.50		<0.72		
03F302	19-Dec-90	A29	<1.00	1840.13	<1.00	72.99			<1.90				<0.50		<0.72		
03F302	19-Mar-91	A30	<50.00	1300.00	<50.00				<95.00	<50.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03F302	05-Jun-91	A31	<50.00	1400.00	<50.00				<95.00	<50.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03F302	05-Sep-91	A32	<50.00	1300.00	<50.00				<95.00	<50.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03F303	19-Dec-90	A29	<1.00	320.82	<1.00				<1.90				<0.50		<0.72		
03F303	19-Mar-91	A30	<10.00	380.00	<10.00				<19.00		<10.00		<5.00	<13.00	<7.20	<10.00	
03F303	05-Jun-91	A31	<10.00	350.00	<10.00				<19.00		<10.00		<5.00	<13.00	<7.20	<10.00	
03F303	05-Sep-91	A32	<20.00	360.00	<20.00				<38.00		<20.00		<10.00	<26.00	<14.00	<20.00	
03F304	19-Dec-90	A29	<1.00	5.41	<1.00				<1.90				<0.50		<0.72		
03F304	19-Mar-91	A30	<1.00	8.34	<1.00				<1.90				<0.50		<0.72		
03F304	05-Jun-91	A31	<1.00	8.00	<1.00				<1.90				<0.50		<0.72		
03F304	05-Jun-91	A31	<1.00	9.42	1.78				<1.90				<0.50		<0.72		
03F304	05-Sep-91	A32	<1.00	7.83	<1.00				<1.90				<0.50		<0.72		
03F305	19-Dec-90	A29	<1.00	1834.76	116.22				<1.90	746.65		148.58	<0.50		<0.72		
03F305	19-Mar-91	A30	<50.00	2100.00	170.00				<95.00	980.00	<50.00	160.00	<25.00	<65.00	<36.00	<50.00	
03F305	19-Mar-91	A30	<50.00	2100.00	170.00				<95.00	980.00	<50.00	160.00	<25.00	<65.00	<36.00	<50.00	
03F305	05-Jun-91	A31	<50.00	2100.00	150.00				<95.00	930.00	<50.00	160.00	<25.00	<65.00	<36.00	<50.00	
03F305	05-Sep-91	A32	<100.00	2400.00	110.00				<190.00	880.00	<100.00	160.00	<50.00	<130.00	<72.00	<100.00	
03F305 (4)	05-Sep-91	A32	<100.00	2900.00	120.00				<190.00	970.00	<100.00	170.00	<50.00	<130.00	<72.00	<100.00	

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
03F306	19-Dec-90	A29	<1.00	6437.77	<1.00				<1.90	1373.84		<0.50			<0.72		
03F306	19-Mar-91	A30	<250.00	7000.00	<250.00	<130.00		<75.00	<480.00	1600.00	<250.00	<200.00	<130.00	<330.00	<180.00	<250.00	
03F306	05-Jun-91	A31	<200.00	6400.00	<200.00	<100.00			<380.00	1600.00	<200.00	<160.00	<100.00	<260.00	<140.00	<200.00	
03F306	05-Sep-91	A32	<250.00	7200.00	<250.00	<130.00		<75.00	<480.00	1500.00	<250.00	<200.00	<130.00	<330.00	<180.00	<250.00	
03F307	19-Dec-90	A29	1114.79	3540.77	912.43	583.88		<1.90	1472.71	1054.81	118.02	480.20			<0.72		
03F307	19-Dec-90	A29	1087.20	3422.75	903.78	554.47		<1.90	1410.92	1044.47	114.86	475.25			<0.72		
03F307	19-Dec-90	A29	<1.00	2864.81	<1.00			<1.90	407.83		111.70	<0.50			<0.72		
03F307	19-Mar-91	A30	<100.00	2900.00	<100.00			<190.00	470.00	<100.00	91.00	<50.00	<130.00	<72.00	<100.00		
03F307	06-Jun-91	A31	<100.00	2500.00	<100.00			<190.00	340.00	<100.00	94.00	<50.00	<130.00	<72.00	<100.00		
03F307	05-Sep-91	A32	<100.00	2700.00	<100.00			<190.00	360.00	<100.00	86.00	<50.00	<130.00	<72.00	<100.00		
03F308	19-Dec-90	A29	<1.00	16.31	<1.00			<1.90				<0.50			<0.72		
03F308	19-Dec-90	A29	<1.00	17.38	<1.00			<1.90				<0.50			<0.72		
03F308	19-Mar-91	A30	<1.00	13.20	<1.00			<1.90				<0.50			<0.72		
03F308	06-Jun-91	A31	<1.00	8.22	<1.00			<1.90				<0.50			<0.72		
03F308	05-Sep-91	A32	<1.00	12.70	<1.00			<1.90				<0.50			<0.72		
03F312	19-Dec-90	A29	<1.00	17.92	1.19			<1.90				<0.50			<0.72		
03F312	19-Mar-91	A30	<1.00	17.00	1.21			<1.90				<0.50			<0.72		
03F312	05-Jun-91	A31	<1.00	18.50	<1.00			<1.90				<0.50			<0.72		
03F312	05-Sep-91	A32		21.80													
03F312	05-Sep-91	A32	<1.00		<1.00			<1.90				<0.50			<0.72		
03L001	07-Mar-91	A30	<1.00		<1.00			<1.90				<0.50			<0.72		
03L001	07-Mar-91	A30	<1.00		<1.00			<1.90				<0.50			<0.72		
03L001	05-Jun-91	A31	<1.00		<1.00			<1.90				<0.50			<0.72		
03L001	(4) 05-Jun-91	A31	<1.00		<1.00			<1.90				<0.50			<0.72		
03L001	04-Sep-91	A32	<1.00		<1.00			<1.90				<0.50			<0.72		
03L002	08-Mar-91	A30	<100.00	1500.00	<100.00			<190.00	320.00	<100.00	<78.00	<50.00	<130.00	<72.00	<100.00		
03L005	29-Mar-91	F30	<1.00		<1.00			<1.90				<0.50			<0.72		
03L007	28-Mar-91	F30	<1.00		<1.00			<1.90				<0.50			<0.72		
03L017	07-Mar-91	A30	<1.00	6.41	<1.00			<1.90				<0.50			<0.72		
03L018	15-Mar-91	A30	<1.00		<1.00			<1.90				<0.50			<0.72		
03L021	14-Mar-91	A30	<25.00	540.00	<25.00			<48.00	70.00	<25.00	74.00	<13.00	<33.00	<18.00	<25.00		
03L077	07-Mar-91	A30	<500.00	7000.00	<500.00	<250.00		<150.00	<950.00	1700.00	<500.00	<390.00	<250.00	<650.00	<360.00	<500.00	
03L078	13-Mar-91	A30	<1.00		<1.00			<1.90				<0.50			<0.72		
03L079	13-Mar-91	A30	<1.00		<1.00			<1.90				<0.50			<0.72		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
03L080	18-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L080	18-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L081	29-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L084	13-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L091	26-Mar-91	F30	<1.00		<1.00								<0.50		<0.72		
03L113	28-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L137	27-Mar-91	F30	<1.00		<1.00				<1.90				<0.50				
03L138	29-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L523	26-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L523	04-Sep-91	F32	<1.00		<1.00				<1.90				<0.50		<0.72		
03L523	(4) 04-Sep-91	F32	<1.00		<1.00				<1.90				<0.50		<0.72		
03L673	11-Mar-91	A30	<100.00	2000.00	<100.00	75.00			<190.00	<100.00	<100.00	<78.00	<50.00	<130.00	<72.00	<100.00	
03L673	11-Mar-91	M30	<20.00	1900.00	<50.00		110.00		<100.00		<20.00		<20.00	<20.00	<10.00	<20.00	<20.00
03L673	17-Jun-91	M31	<20.00	5500.00	<50.00				<100.00		<20.00		<20.00	<20.00	<10.00	<20.00	<20.00
03L802	14-Mar-91	A30	<1.00	36.50	1.61				<1.90				<0.50		<0.72		
03L802	07-Jun-91	A31	<1.00	41.50	1.98				<1.90				<0.50		<0.72		
03L802	04-Sep-91	A32	<1.00	27.40	<1.00				<1.90				<0.50		<0.72		
03L806	11-Mar-91	A30	<500.00	5100.00	<500.00	<250.00		<150.00	<950.00	2400.00	<500.00	<390.00	<250.00	<650.00	<360.00	<500.00	
03L806	07-Jun-91	A31	<200.00	4700.00	410.00	130.00		<12000.00	<380.00	1600.00	<200.00	440.00	<100.00	<260.00	<140.00	<200.00	
03L806	04-Sep-91	A32	<500.00	5400.00	<500.00	<250.00		<150.00	<950.00	1600.00	<500.00	460.00	<250.00	<650.00	<360.00	<500.00	
03L809	21-Mar-91	F30	<100.00	2000.00	170.00				<190.00	630.00	<100.00	270.00	<50.00	<130.00	<72.00	<100.00	
03L811	20-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L822	21-Mar-91	F30	<1.00	7.99	1.88				<1.90				<0.50		<0.72		
03L832	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L841	20-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L846	18-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03L848	18-Mar-91	F30	<10.00	250.00	<10.00				<19.00		<10.00		<5.00	<13.00	<7.20	<10.00	
03L853	21-Mar-91	F30	<1.00	620.00	<1.00				<1.90	130.00			<0.50	47.00	<0.72		
03L854	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
03L856	21-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03L856	(4) 21-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03L858	25-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03L859	19-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03L860	20-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03L861	25-Mar-91	F30	<1.00	9.27	<1.00			<1.90					<0.50		<0.72		
03L861	(4) 25-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03M005	29-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03M017	07-Mar-91	A30	<25.00	400.00	<25.00			<48.00	280.00	<25.00			<13.00	<33.00	<18.00	<25.00	
03M020	14-Mar-91	A30	<500.00	13000.00	<500.00	380.00	<150.00	<950.00	3900.00	<500.00	840.00	<250.00	680.00	<360.00	<500.00		
03M713	18-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03M802	14-Mar-91	A30	<20.00	470.00	<20.00			<38.00	25.00	<20.00			<10.00	<26.00	<14.00	<20.00	
03M802	14-Mar-91	A30	<20.00	490.00	<20.00			<38.00	27.00	<20.00			<10.00	54.00	<14.00	<20.00	
03M806	11-Mar-91	A30	<20.00	200.00	<20.00			<38.00	25.00	<20.00			<10.00	<26.00	<14.00	<20.00	
03M843	21-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03M843	(4) 04-Jun-91	F31	<1.00		<1.00			<1.90					<0.50		<0.72		
03M843	04-Jun-91	F31	<1.00		<1.00			<1.90					<0.50		<0.72		
03M843	03-Sep-91	F32	<1.00	3.76	<1.00			<1.90					<0.50		<0.72		
03M848	18-Mar-91	F30	<10.00	310.00	<10.00	81.00		<19.00		<10.00			<5.00	<13.00	<7.20	<10.00	<4.10
03M848	04-Jun-91	F31															<10.00
03M848	04-Jun-91	F31	<2.50	730.00	7.30	110.00		<4.80					<1.30	<3.30	<1.80		<1.00
03M848	03-Sep-91	F32	<25.00	700.00	<25.00	100.00		<47.50	<25.00	<25.00			<12.50	<32.50	<18.00	<25.00	<10.00
03U003	08-Mar-91	A30	<100.00	1400.00	<100.00			<190.00	250.00	<100.00	<78.00	<50.00	<130.00	<72.00	<100.00		
03U003	06-Jun-91	A31	<1.00	30.30	<1.00			<1.90					<0.50		<0.72		
03U003	04-Sep-91	A32	<1.00		<1.00			<1.90					<0.50		<0.72		
03U004	16-Apr-91	A30	<1.00		<1.00			<1.90					<0.50		<0.72		
03U005	29-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03U007	28-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03U009	28-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
03U014	18-Mar-91	A30	<500.00	8000.00	<500.00	350.00	<150.00	<950.00	6200.00	<500.00	<390.00	<250.00	<650.00	<360.00	<500.00		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCLE	1,2-Di Chloro Ethane 12DCLE	Carbon Tetra Chloride CCl4	Chloro Form CHCl3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
03U015	26-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U016	25-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U016	25-Mar-91	M30			<0.50				<1.00								
03U017	07-Mar-91	A30	<50.00	400.00	59.00				<95.00	620.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03U018	15-Mar-91	A30	<100.00	240.00	<100.00				<190.00	690.00	<100.00	<78.00	<50.00	<130.00	<72.00	<100.00	
03U019	27-Mar-91	F30	<1.00		<1.00				<1.90				<0.50				
03U020	20-Mar-91	A30	<50.00	1800.00	76.00	82.00			<95.00	930.00	<50.00	74.00	<25.00	<65.00	<36.00	<50.00	
03U021	14-Mar-91	A30	<1.00	53.10	4.19				<1.90	27.40			<0.50		<0.72		
03U023	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U026	29-Mar-91	F30	<2.00	54.00	<2.00				<3.80	25.00			<1.00		80.00		<0.82
03U027	14-Mar-91	A30	<5.00	64.00	11.00				<9.50		11.00		<2.50	<6.50	<3.60		
03U028	12-Mar-91	M30	<20.00	890.00	<50.00		140.00		<100.00	99.00	<20.00		<20.00	<20.00	<10.00	<20.00	<20.00
03U028	21-Mar-91	A30	<5.00	9.70	<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
03U029	12-Mar-91	A30	<100.00	990.00	<100.00	120.00			<190.00	150.00	<100.00	<78.00	<50.00	<130.00	<72.00	<100.00	
03U030	21-Mar-91	A30	<1.00	16.50	<1.00				<1.90				<0.50		<0.72		
03U031	18-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U032	26-Mar-91	F30	<1.00	4.07	<1.00				<1.90				<0.50		<0.72		
03U032	04-Jun-91	F31	<1.00	2.96	<1.00				<1.90				<0.50		<0.72		
03U032	04-Sep-91	F32	<1.00		<1.00				<1.90				<0.50		<0.72		
03U032	(4) 04-Sep-91	F32	<1.00		<1.00				<1.90				<0.50		<0.72		
03U075	18-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U077	07-Mar-91	A30	<250.00	5900.00	<250.00	<130.00		<75.00	<480.00	1300.00	<250.00	<200.00	<130.00	<330.00	<180.00	<250.00	
03U078	13-Mar-91	A30	24.00	110.00	<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
03U079	13-Mar-91	A30	<50.00	1100.00	<50.00				<95.00	88.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03U079	13-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U082	26-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U083	26-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U084	13-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCLE	1,2-Di Chloro Ethane 12DCLE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
03U087	27-Mar-91	F30	<1.00		<1.00				<1.90				<0.50				
03U088	26-Mar-91	F30	1.67		<1.00				<1.90				<0.50		<0.72		
03U089	26-Mar-91	F30	2.12		<1.00				<1.90				<0.50		<0.72		
03U090	26-Mar-91	F30	<1.00		1.59				<1.90	37.60			<0.50		2.68		
03U092	29-Mar-91	F30	<1.00	36.10	2.79				<1.90	30.40			<0.50		15.30		
03U092	04-Jun-91	F31	<1.00	36.20	2.14				<1.90	22.50			<0.50		19.40		
03U092	04-Sep-91	F32	<1.00	27.20	1.56				<1.90				<0.50		15.20		
03U093	15-Mar-91	A30	<500.00	8600.00	<500.00	<250.00		<150.00	<950.00	2000.00	<500.00	<390.00	<250.00	<650.00	<360.00	<500.00	
03U093	05-Jun-91	A31	<200.00	4300.00	<200.00	<100.00			<380.00	840.00	<200.00	<160.00	<100.00	<260.00	<140.00	<200.00	
03U093	05-Sep-91	A32	<250.00	3800.00	<250.00	<130.00		<75.00	<480.00	1000.00	<250.00	<200.00	<130.00	<330.00	<180.00	<250.00	
03U094	20-Mar-91	A30	<250.00	7500.00	270.00	<130.00		<75.00	<480.00	5400.00	<250.00	<200.00	<130.00	<330.00	<180.00	<250.00	
03U096	18-Mar-91	A30	<20.00	690.00	74.00				<38.00	600.00	<20.00		<10.00	<26.00	<14.00	<20.00	
03U097	26-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U097	26-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U099	25-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U112	28-Mar-91	F30	<1.00	46.20	<1.00				<1.90				<0.50		42.80		
03U113	28-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U114	29-Mar-91	F30	<5.00	70.00	23.00				<9.50	300.00	<5.00		<2.50	<6.50	<3.60		<2.10
03U114	04-Jun-91	F31	<1.00	53.00	24.10				<1.90	290.00			<0.50		1.72		
03U114	04-Sep-91	F32	<1.00	55.00	13.60				<1.90	165.00			<0.50		<0.72		
03U121	28-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U124	25-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U124	25-Mar-91	M30			<0.50				<1.00								
03U124	04-Jun-91	F31	<1.00		<1.00				<1.90				<0.50		<0.72		
03U301	19-Dec-90	A29	<1.00	1276.82	<1.00	85.51			<1.90				<0.50		<0.72		
03U301	19-Dec-90	M29 +	<20.00	1200.00	<50.00		100.00		<100.00	50.00	<20.00		<20.00	<20.00	<10.00	<20.00	<20.00
03U301	19-Mar-91	A30	<50.00	1100.00	<50.00	82.00			<95.00	72.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03U301	04-Jun-91	A31	<5.00	1000.00	<5.00	93.00			<9.50	57.00	<5.00		<2.50	<6.50	<3.60		
03U301	04-Jun-91	M31	<4.00	1000.00	<10.00				<20.00	54.00	<4.00		<4.00	<4.00	<2.00		<4.00
03U301	05-Sep-91	A32	<50.00	1200.00	<50.00	71.00			<95.00	<50.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03U301	05-Sep-91	A32	<1.00	9.14	<1.00				<1.90				<0.50		<0.72		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
03U314	19-Dec-90	A29	<1.00		<1.00	311.55			<1.90	2080.33			267.65		<0.72		
03U314	19-Dec-90	M29 +	<20.00	5800.00	160.00		350.00		<100.00	2300.00	<20.00	290.00	<20.00	<20.00	<10.00	<20.00	<20.00
03U314	19-Mar-91	A30	<200.00	5800.00	<200.00	200.00			<380.00	2300.00	<200.00	190.00	<100.00	<260.00	<140.00	<200.00	
03U314	19-Mar-91	A30	<200.00	5800.00	<200.00	210.00			<380.00	2300.00	<200.00	190.00	<100.00	<260.00	<140.00	<200.00	
03U314	05-Jun-91	A31	<200.00	6000.00	<200.00	200.00			<380.00	2300.00	<200.00	190.00	<100.00	<260.00	<140.00	<200.00	
03U314	05-Sep-91	A32	<250.00	5400.00	<250.00	170.00		<75.00	<480.00	1900.00	<250.00	<200.00	<130.00	<330.00	<180.00	<250.00	
03U315	19-Dec-90	A29	<1.00	1298.28	<1.00				<1.90	487.13			<0.50		<0.72		
03U315	19-Mar-91	A30	<25.00	940.00	30.00				<48.00	390.00	<25.00	<13.00	<13.00	<33.00	<18.00	<25.00	
03U315	05-Jun-91	A31	<25.00	830.00	43.00				<48.00	330.00	<25.00	<13.00	<13.00	<33.00	<18.00	<25.00	
03U315	05-Sep-91	A32	<25.00	700.00	<25.00				<48.00	250.00	<25.00	<13.00	<13.00	<33.00	<18.00	<25.00	
03U316	19-Dec-90	A29	<1.00	14.91	3.27				<1.90	30.18			<0.50		3.46		
03U316	19-Mar-91	A30	<1.00	14.30	3.55				<1.90	25.80			<0.50		32.30		
03U316	04-Jun-91	A31	<1.00	18.10	3.51				<1.90	29.50			<0.50		3.96		
03U316	04-Jun-91	M31		13.00	1.30				<1.00	28.00					0.40		
03U316	05-Sep-91	A32	<1.00	16.60	2.46				<1.90	23.40			<0.50		3.23		
03U317	19-Dec-90	A29	<1.00	16738.20	<1.00				<1.90	4974.25			<0.50		<0.72		
03U317	19-Dec-90	A29	<1.00	18293.99	<1.00				<1.90	5252.32			<0.50		<0.72		
03U317	19-Mar-91	A30	<500.00	16000.00	<500.00	<250.00		<150.00	<950.00	5700.00	<500.00	<390.00	<250.00	<650.00	<360.00	<500.00	
03U317	04-Jun-91	A31	<100.00	16000.00	280.00				<190.00	6200.00	<100.00	<78.00	<50.00	<130.00	<72.00	<100.00	
03U317	04-Jun-91	M31	<200.00	16000.00	<500.00		<200.00	<100.00	<1000.00	6400.00	<200.00	<200.00	<200.00	<200.00	<100.00	<200.00	<200.00
03U317	05-Sep-91	A32	<500.00	23000.00	<500.00	<250.00		<150.00	<950.00	5700.00	<500.00	<390.00	<250.00	<650.00	<360.00	<500.00	
03U658	20-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U659	12-Mar-91	A30	<50.00	450.00	<50.00				<95.00	<50.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03U659	12-Mar-91	M30		360.00	2.30		72.00		<2.50				<0.50		<0.30		
03U671	19-Mar-91	A30	2.90	58.00	<2.00				<3.80				<1.00		<1.40		
03U672	22-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U672	06-Jun-91	A31	<1.00		<1.00				<1.90				<0.50		<0.72		
03U672	04-Sep-91	A32	<1.00		<1.00				<1.90				<0.50		<0.72		
03U673	11-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U673	11-Mar-91	M30			<0.50				<1.00								
03U673	17-Jun-91	M31			<0.50				<1.00								
03U701	13-Mar-91	A30	<5.00	80.00	9.20				<9.50	82.00	<5.00		<2.50	<6.50	<3.60		
03U702	13-Mar-91	A30	<1.00	15.20	<1.00				<1.90				<0.50		<0.72		
03U703	20-Mar-91	A30	<100.00	2900.00	<100.00	84.00			<190.00	<100.00	<100.00	<78.00	<50.00	<130.00	<72.00	<100.00	
03U704	15-Mar-91	A30	1.00		<1.00				<1.90				<0.50		<0.72		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
03U705	15-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U705	05-Jun-91	A31	<1.00		<1.00				<1.90				<0.50		<0.72		
03U705	05-Jun-91	M31			<0.50				<1.00								
03U705	05-Sep-91	A32	<1.00		<1.00				<1.90				<0.50		<0.72		
03U706	19-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U707	19-Mar-91	A30	<1.00	3.15	<1.00				<1.90				<0.50		<0.72		
03U708	08-Mar-91	A30	20.00	110.00	<5.00				<9.50		<5.00		<2.50	<6.50	<3.60		
03U709	15-Mar-91	A30	<50.00	100.00	<50.00				<95.00	370.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03U709	(4) 15-Mar-91	A30	<50.00	110.00	<50.00				<95.00	380.00	<50.00		<25.00	<65.00	<36.00	<50.00	
03U710	16-Apr-91	A30	<25.00	640.00	32.00				<48.00	59.00	<25.00		<13.00	<33.00	<18.00	<25.00	
03U710	(4) 16-Apr-91	A30	<25.00	640.00	30.00		<190.00		<48.00	62.00	<25.00		<13.00	<33.00	<18.00	<25.00	
03U711	14-Mar-91	A30	14.30	14.80	<1.00				<1.90				<0.50		4.96		
03U711	07-Jun-91	A31	13.00	20.20	<1.00				<1.90				<0.50		3.60		
03U711	04-Sep-91	A32	<1.00		<1.00				<1.90				<0.50		<0.72		
03U801	21-Mar-91	A30	<250.00	7200.00	<250.00	170.00		<75.00	<480.00	<250.00	<250.00	<200.00	<130.00	<330.00	<180.00	<250.00	
03U801	17-Sep-91	M32	<40.00	7300.00	<100.00				<200.00	<40.00	<40.00		<40.00	<40.00	<20.00	<40.00	<40.00
03U801	(4) 17-Sep-91	M32	6.40	800.00	12.00		150.00		<1.00						5.30		<1.00
03U803	18-Sep-91	M32			<0.50				<1.00								
03U804	12-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U804	12-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U804	12-Mar-91	M30			<0.50				<1.00								
03U805	21-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U805	21-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U806	11-Mar-91	A30	<50.00	460.00	76.00				<95.00	72.00	<50.00	140.00	<25.00	<65.00	<36.00	<50.00	
03U806	11-Mar-91	M30		350.00	93.00				<1.00	51.00	PP	200.00			0.90		
03U806	20-Jun-91	M31	<20.00	1200.00	<50.00				<100.00	310.00	<20.00		<20.00	<20.00	<10.00	<20.00	<20.00
03U811	20-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U821	21-Mar-91	F30	<1.00	190.00	<1.00				<1.90	37.00			<0.50	14.00	<0.72		
03U822	21-Mar-91	F30	<1.00	7.94	5.17				<1.90				<0.50		<0.72		
03U824	28-Mar-91	F30	<1.00	43.00	<1.00				<1.90				1.06		<0.72		
03U831	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
03U832	19-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
04J077	07-Mar-91	A30	<50.00	970.00	76.00				<95.00	300.00	<50.00	140.00	<25.00	<65.00	<36.00	<50.00	
04J702	13-Mar-91	A30	<10.00	180.00	<10.00				<19.00	49.00	<10.00		<5.00	<13.00	<7.20	<10.00	
04J702	13-Mar-91	A30	<10.00	190.00	<10.00				<19.00	51.00	<10.00		<5.00	<13.00	<7.20	<10.00	
04J708	08-Mar-91	A30	<1.00	43.50	2.49				<1.90				<0.50		<0.72		
04J713	12-Mar-91	A30	<1.00	39.70	1.14				<1.90				<0.50		<0.72		
04J714	12-Mar-91	A30	<1.00	13.40	<1.00				<1.90				<0.50		<0.72		
04J714	06-Jun-91	A31	<1.00	9.41	<1.00				<1.90				<0.50		<0.72		
04J714	04-Sep-91	A32	<1.00	9.30	<1.00				<1.90				<0.50		<0.72		
04U001	07-Mar-91	A30	<1.00	4.79	<1.00				<1.90				<0.50		<0.72		
04U001	05-Jun-91	A31	<1.00	5.20	<1.00				<1.90				<0.50		<0.72		
04U001	04-Sep-91	A32	<1.00	5.87	<1.00				<1.90				<0.50		<0.72		
04U002	08-Mar-91	A30	<1.00	91.00	2.70				<1.90				<0.50		<0.72		
04U003	08-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
04U003	08-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
04U003	06-Jun-91	A31	<1.00		<1.00				<1.90				<0.50		<0.72		
04U003	04-Sep-91	A32	<1.00	1400.00	26.50				<1.90	190.00	36.70		1.35		3.03		
04U007	28-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
04U020	14-Mar-91	A30	<10.00	120.00	<10.00				<19.00		<10.00		<5.00	<13.00	<7.20	<10.00	
04U027	08-Mar-91	A30	<1.00		<1.00				<1.90				<0.50		<0.72		
04U077	07-Mar-91	A30	<5.00	2400.00	<5.00				<9.50	610.00	<5.00		4.10	<6.50	<3.60		
04U510	28-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
04U673	11-Mar-91	A30	<100.00	990.00	<100.00				<190.00	<100.00	<100.00	<78.00	<50.00	<130.00	<72.00	<100.00	
04U673	11-Mar-91	M30	<20.00	940.00	<50.00				<100.00		<20.00		<20.00	<20.00	<10.00	<20.00	<20.00
04U673	17-Jun-91	M31	<4.00	410.00	<10.00				<20.00		<4.00		<4.00	<4.00	<2.00		<4.00
04U701	13-Mar-91	A30	<10.00	230.00	<10.00				<19.00	54.00	<10.00		<5.00	<13.00	<7.20	<10.00	
04U702	13-Mar-91	A30	<2.00	58.00	<2.00				<3.80				<1.00		<1.40		
04U708	08-Mar-91	A30	<1.00	5.90	<1.00				<1.90				<0.50		<0.72		
04U709	15-Mar-91	A30	<20.00	450.00	<20.00				<38.00	95.00	<20.00		<10.00	<26.00	<14.00	<20.00	

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

April 13, 1992

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
04U711	14-Mar-91	A30	<1.00		<1.00				<1.90				<0.50				
04U711	07-Jun-91	A31	<1.00		<1.00				<1.90				<0.50				<0.72
04U711	04-Sep-91	A32	10.70	24.50	<1.00				<1.90				<0.50			4.10	
04U713	12-Mar-91	A30	<1.00	3.70	<1.00				<1.90				<0.50				<0.72
04U714	12-Mar-91	A30	<1.00	19.30	<1.00				<1.90				<0.50				<0.72
04U714	06-Jun-91	A31	<1.00	14.60	<1.00				<1.90				<0.50				<0.72
04U714	04-Sep-91	A32	<1.00	15.90	<1.00				<1.90				<0.50				<0.72
04U802	20-Mar-91	A30	<1.00	3.06	<1.00				<1.90				<0.50				<0.72
04U806	11-Mar-91	A30	<200.00	3400.00	280.00	<100.00			<380.00	1300.00	<200.00	230.00	<100.00	<260.00	<140.00	<200.00	
04U806	07-Jun-91	A31	<100.00	3900.00	280.00			<3000.00	<190.00	1300.00	<100.00	300.00	<50.00	<130.00	<72.00	<100.00	
04U806	04-Sep-91	A32	<250.00	5600.00	<250.00	<130.00		<75.00	<480.00	1600.00	<250.00	320.00	<250.00	<650.00	<180.00	<250.00	
04U806	(4) 04-Sep-91	A32	<500.00	4700.00	<500.00	<250.00		<150.00	<950.00	1500.00	<500.00	<390.00	<130.00	<330.00	<360.00	<500.00	
04U806	(4) 05-Sep-91	M32	<10.00	1200.00	210.00				<50.00	1300.00	<10.00	<390.00	<10.00	<10.00	<5.00	<10.00	<10.00
04U806	(4) 05-Sep-91	M32	1.40	>3500	310.00		72.00		<0.50	1200.00		290.00	20.00		5.10		1.50
04U806	(4) 05-Sep-91	M32	1.30	>3500	310.00		73.00		<0.50	1100.00		81.00	19.00		5.50		1.40
04U821	21-Mar-91	F30	<1.00	490.00	<1.00				<1.90	97.00			<0.50	40.00	<0.72		
04U821	04-Jun-91	F31	<2.00	490.00	16.00				<3.80	89.00			<1.00		<1.40		
04U821	03-Sep-91	F32	<10.00	410.00	<10.00				<19.00	59.00	<10.00		<5.00	<13.00	<7.20	<10.00	
04U832	19-Mar-91	F30	<1.00	47.60	2.10				<1.90				<0.50		<0.72		
04U841	20-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
04U843	21-Mar-91	F30	<1.00	3.45	1.11				<1.90				<0.50		<0.72		
04U844	19-Mar-91	F30	<20.00	900.00	35.00				<38.00	1500.00	<20.00		<10.00	<26.00	<14.00	<20.00	
04U844	(4) 19-Mar-91	F30	<20.00	940.00	37.00				<38.00	160.00	<20.00		<10.00	<26.00	<14.00	<20.00	
04U845	20-Mar-91	F30	<1.00	100.00	1.08				<1.90				<0.50		<0.72		
04U846	18-Mar-91	F30	<1.00	4.05	<1.00				<1.90				<0.50		<0.72		
04U847	20-Mar-91	F30	<50.00	1200.00	190.00				<95.00	620.00	<50.00	130.00	<25.00	<65.00	<36.00	<50.00	
04U847	(4) 20-Mar-91	F30	<50.00	750.00	110.00				<95.00	400.00	<50.00	79.00	<25.00	<65.00	<36.00	<50.00	
04U847	04-Jun-91	F31	<5.00	1800.00	25.00				<9.50	880.00	<5.00	180.00	5.90	<6.50	6.30		
04U847	03-Sep-91	F32	<5.00	180.00	24.00				<9.50	200.00	<5.00		<2.50	<6.50	<3.60		
04U848	18-Mar-91	F30	<2.00	64.00	<2.00				<3.80				<1.00		<1.40		
04U849	18-Mar-91	F30	<1.00	31.80	2.28				<1.90				<0.50		<0.72		
04U850	15-Mar-91	F30	<20.00	640.00	24.00				<38.00	120.00	<20.00		<10.00	<26.00	<14.00	<20.00	
04U851	18-Mar-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
04U852	18-Mar-91	F30	<1.00	4.67	<1.00				<1.90				<0.50			<0.72	
04U852	(4) 18-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
04U855	18-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
04U859	19-Mar-91	F30	<1.00	5.24	<1.00				<1.90				<0.50			<0.72	
04U860	20-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
04U861	25-Mar-91	F30	<1.00	8.49	<1.00				<1.90				<0.50	31.70	9.67		
04U871	15-Mar-91	F30	<1.00	5.47	<1.00				<1.90				<0.50			<0.72	
04U872	14-Mar-91	F30	<1.00	27.20	0.82				<1.90				<0.50			<0.72	
04U872	16-Sep-91	M32		57.00	1.30				<1.00								
04U875	15-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
04U877	15-Mar-91	F30	<2.00	52.00	<2.00				<3.80				<1.00			<1.40	
04U879	15-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
04U880	14-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
04U881	14-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
04U882	14-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
04U882	16-Sep-91	M32		8.80	<0.50				<1.00								22.00
04U883	14-Mar-91	F30	<1.00		<1.00				<1.90				<0.50			<0.72	
200524	05-Dec-90	M29 +		23.00	1.20				<1.00							0.60	
200524	25-Apr-91	M31 +		14.00	PP				<1.00								
200524	16-Sep-91	M32		15.00	<0.50				<1.00								
200803	05-Dec-90	M29 +		29.00	1.40				<1.00								
200803	25-Apr-91	M31 +		22.00	0.80				<1.00								
200803	16-Sep-91	M32		22.00	<0.50				<1.00								
200812	18-Oct-90	M29 +		94.00	<5.00				<10.00				<2.00		<1.00		<2.00
200812	(4) 07-Jun-91	F31	<2.00	10.00	4.30				<3.80				<1.00		<1.40		<0.82
200812	07-Jun-91	F31	<2.00	120.00	5.20				<3.80				<1.00		<1.40		<0.82
200812	25-Jul-91	M31		77.00	PP				<2.50				<0.50		<0.30		
200812	04-Sep-91	F32	<1.00	110.00	2.83				<1.90				<0.50		<0.72		
206787	04-Sep-91	F32	<1.00		<1.00				<1.90				<0.50			<0.72	
206793	07-Jun-91	F31	<10.00	410.00	21.00				<19.00	94.00	<10.00		<5.00	<13.00	<7.20	<10.00	

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
206797	25-Mar-91	F30	<2.50	120.00	<2.50			<4.80	22.00				<1.30	<3.30	<1.80		
206797	25-Mar-91	M30		56.00	6.20			<1.00									
233221	01-Apr-91	F30	<1.00	8.07	<1.00			<1.90					<0.50		<0.72		
234546	01-Apr-91	F30	<1.00	7.23	<1.00			<1.90					<0.50		<0.72		
234547	01-Apr-91	F30	<1.00	8.11	<1.00			<1.90					<0.50		<0.72		
405651	01-Apr-91	F30	<1.00	6.64	1.45			<1.90					<0.50		<0.72		
409546	18-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
409547	20-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
409548	18-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
409549	18-Mar-91	F30	<5.00	120.00	<5.00			<9.50			<5.00		<2.50	<6.50	<3.60		
409549	05-Jun-91	F31	<1.00	190.00	7.49			<1.90	41.10		<5.00		<0.50		<0.72		
409549	05-Jun-91	F31	<5.00	190.00	9.20			<9.50	42.00		<5.00		<2.50	<6.50	<3.60		
409549	18-Jun-91	F31	<5.00	120.00	<5.00			<9.50			<5.00		<2.50	<6.50	<3.60		
409549	03-Sep-91	F32	<2.00	84.00	<2.00			<3.80					<1.00		<1.44		
409550	21-Mar-91	F30	<50.00	1600.00	76.00			<95.00	620.00	<50.00			<25.00	<65.00	<36.00	<50.00	
409550	12-Sep-91	M32	<40.00	3200.00	<100.0			<200.00	1200.00	<40.00			<40.00	<40.00	<20.00	<40.00	<40.00
409556	18-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
409556	18-Mar-91	F30	<1.00	0.58	<1.00			<1.90					<0.50		<0.72		
409557	20-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
409596	29-Mar-91	F30	<1.00	4.43	1.71			<1.90					<0.50		<0.72		
409596	29-Mar-91	F30	<1.00	6.61	2.35			<1.90					<0.50		<0.72		
409597	29-Mar-91	F30	<5.00	200.00	12.00			<9.50	33.00	<5.00			<2.50	<6.50	<3.60		
409597	29-Mar-91	F30	<5.00	200.00	11.00			<9.50	29.00	<5.00			<2.50	<6.50	<3.60		
500691	18-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
508115	18-Mar-91	F30	<1.00		<1.00			<1.90					<0.50		<0.72		
PJ#003	19-Mar-91	A30	<1.00		<1.00			<1.90					<0.50		<0.72		
PJ#309	19-Dec-90	A29	<1.00	223.18	<1.00			<1.90	36.46				<0.50		<0.72		
PJ#309	19-Mar-91	A30	<5.00	260.00	12.00			<9.50	51.00	<5.00			<2.50	<6.50	<3.60		
PJ#309	05-Jun-91	A31	<10.00	300.00	18.00			<19.00	61.00	<10.00			<5.00	<13.00	<7.20	<10.00	
PJ#309	05-Sep-91	A32	<10.00	260.00	<10.00			<19.00	47.00	<10.00			<5.00	<13.00	<7.20	<10.00	

TABLE 5
EXCEEDANCE OF ORGANIC GROUNDWATER ACTION CRITERIA - ug/l (1)

Well	Date	Qtr (2)	Tetra Chloro Ethene TCLEE	1,1,1-Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Cis 1,2-Di Chloro Ethene C12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCE	1,2-Di Chloro Ethane 12DCE	Carbon Tetra Chloride CCL4	Chloro Form CHCL3	1,2-Di Chloro Propane 12DCLP	Benzene C6H6
TCAAP GW Action Criteria - ug/l (3)			0.70	2.80	0.24	70.00	70.00	70.00	0.02	22.00	3.00	70.00	0.40	3.00	0.19	6.00	0.70
PJ#310	19-Dec-90	A29	<1.00	606.22	27.30				<1.90	160.66			<0.50		<0.72		
PJ#310	19-Mar-91	A30	<20.00	580.00	26.00				<38.00	160.00	<20.00		<10.00	<26.00	<14.00	<20.00	
PJ#310	06-Jun-91	A31	<20.00	470.00	35.00				<38.00	120.00	<20.00		<10.00	<26.00	<14.00	<20.00	
PJ#310	05-Sep-91	A32	<25.00	590.00	<25.00				<48.00	140.00	<25.00		<13.00	<33.00	<18.00	<25.00	
PJ#311	19-Dec-90	A29	<1.00	30.90	<1.00				<1.90				<0.50		<0.72		
PJ#311	19-Mar-91	A30	<1.00	24.80	<1.00				<1.90	58.70			<0.50		<0.72		
PJ#311	06-Jun-91	A31	<1.00	24.80	<1.00				<1.90				<0.50		<0.72		
PJ#311	06-Jun-91	A31	<1.00	25.00	<1.00				<1.90				<0.50		<0.72		
PJ#311	05-Sep-91	A32	<1.00	25.10	<1.00				<1.90				<0.50		<0.72		
PJ#313	19-Dec-90	A29	<1.00	10.30	<1.00				<1.90				<0.50		<0.72		
PJ#313	19-Mar-91	A30	<1.00	9.12	<1.00				<1.90				<0.50		<0.72		
PJ#313	05-Jun-91	A31	<1.00	6.97	<1.00				<1.90				<0.50		<0.72		
PJ#313	05-Sep-91	A32	<1.00	20.30	<1.00				<1.90				<0.50		<0.72		
PJ#318	14-Mar-91	F30	<1.00	3.23	<1.00				<1.90				<0.50		<0.72		
PJ#802	17-Sep-91	M32			<0.50				<1.00								
PJ#806	11-Mar-91	A30	<50.00	910.00	65.00				<95.00	260.00	<50.00	79.00	<25.00	<65.00	<36.00	<50.00	
1831CORDI	22-Jan-91	M30			<0.50				<1.00								
1715HILLV	25-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		0.96		
1747HILLV	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		<0.87
5567FAIRV	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
5567FAIRV	22-Jan-91	M30			<0.50				<1.00								
5589FAIRV	1-Aug-91	M32			<0.50				<1.00								
5589FAIRV	25-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		1.01		
1800LOIS	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
1740PINEW	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
1746PINEW	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
1746PINEW	22-Jan-91	M30			<0.50				<1.00								
1783PINEW	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
5553SCHUT	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
1705TERRA	22-Jan-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		
MNDOT	01-Apr-91	F30	<1.00		<1.00				<1.90				<0.50		<0.72		

Table 6

TCAAP Organic Surface Water Quality Data

Notes:

- (1) This table represents monitoring performed for FCC during FY 91 in accordance with the TCAAP National Pollutant Discharge Elimination System (NPDES) permit. All concentrations are in micrograms per liter ($\mu\text{g/l}$), except oil and grease and total organic carbon which are in milligrams per liter (mg/l) as indicated.
- (2) Sites refer to monitoring locations illustrated on Figure 62 of this report.
- (3) Qtr = Quarter. Under this heading, F = FCC.
- (4) TCAAP SW Action Criteria = surface water action criteria set forth in Table 3.7B of the Federal Facilities Agreement.

Table 6

TCAAP Organic Surface Water Quality Data

Notes:

- (1) This table represents monitoring performed for FCC during FY 91 in accordance with the TCAAP National Pollutant Discharge Elimination System (NPDES) permit. All concentrations are in micrograms per liter ($\mu\text{g/l}$), except oil and grease and total organic carbon which are in milligrams per liter (mg/l) as indicated.
- (2) Sites refer to monitoring locations illustrated on Figure 62 of this report.
- (3) Qtr = Quarter. Under this heading, F = FCC.
- (4) TCAAP SW Action Criteria = surface water action criteria set forth in Table 3.7B of the Federal Facilities Agreement.

TCAAP ORGANIC SURFACE WATER QUALITY DATA - ug/l (1)

Site - ID (2)	Date	Qtr (3)	Tetra Chloro Ethene TCLEE	Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCLE	1,2-Di Chloro Ethane 12DCLE	Carbon Tetra Chloride CCL4
TCAAP SW Action Criteria (4)			8.0	15	0.33	15	15	0.015	18000	6.0	9.4	15	
20100	03-Oct-90	F29											
20100	07-Nov-90	F29	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20100	05-Dec-90	F29											
20100	05-Mar-91	F30											
20100	08-Apr-91	F31											
20100	07-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20100	20-Jun-91	F31											
20100	12-Jul-91	F32											
20100	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20100	03-Sep-91	F32											
20200	03-Oct-90	F29											
20200	07-Nov-90	F29	<1.00	4.14	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20200	05-Dec-90	F29											
20200	10-Jan-91	F30											
20200	11-Feb-91	F30	<1.00	3.23	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20200	05-Mar-91	F30											
20200	08-Apr-91	F31											
20200	07-May-91	F31	<1.00	21.70	<1.00	1.19		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20200	20-Jun-91	F31											
20200	12-Jul-91	F32											
20200	06-Aug-91	F32	<1.00	9.39	<1.00	0.61		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20200	03-Sep-91	F32											
20300	03-Oct-90	F29											
20300	07-Nov-90	F29	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20300	05-Dec-90	F29											
20300	08-Apr-91	F31											
20300	07-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20300	20-Jun-91	F31											
20300	12-Jul-91	F32											
20300	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20300	03-Sep-91	F32											

TABLE 6

April 13, 1992

TCAAP ORGANIC SURFACE WATER QUALITY DATA - ug/l (1)

Site - ID (2)	Date	Qtr (3)	Chloro form CHCL3	1,2-Di Chloro Propane 12DCLP	1,1,2-Trichloro 2,2,1-Trifluoro Ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN	Oil & Grease OILGR (mg/l)	Total Organic Carbon TOC (mg/l)
TCAAP SW Action Criteria (4)			1.9	5700	15		6.6	14300	15		
20100	03-Oct-90	F29								<1.00	
20100	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	13.00
20100	05-Dec-90	F29								<1.00	
20100	05-Mar-91	F30								<1.00	
20100	08-Apr-91	F31								<1000.00	
20100	07-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	11000.00
20100	20-Jun-91	F31								<1000.00	
20100	12-Jul-91	F32								<1000.00	
20100	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	17.00
20100	03-Sep-91	F32								<1000.00	
20200	03-Oct-90	F29								<1.00	
20200	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	12.00
20200	05-Dec-90	F29								<1.00	
20200	10-Jan-91	F30								<1.00	
20200	11-Feb-91	F30	<0.72	<1.00	<1.00	<3.20				<1.00	4.30
20200	05-Mar-91	F30								<1.00	
20200	08-Apr-91	F31								<1000.00	
20200	07-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	4800.00
20200	20-Jun-91	F31								<1000.00	
20200	12-Jul-91	F32								<1000.00	
20200	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	8.00
20200	03-Sep-91	F32								<1000.00	
20300	03-Oct-90	F29								<1.00	
20300	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	5.70
20300	05-Dec-90	F29								<1.00	
20300	08-Apr-91	F31								<1000.00	
20300	07-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	3500.00
20300	20-Jun-91	F31								<1000.00	
20300	12-Jul-91	F32								<1000.00	
20300	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	4.300
20300	03-Sep-91	F32								<1000.00	

TABLE 6

April 13, 1992

TCAAP ORGANIC SURFACE WATER QUALITY DATA - ug/l (1)

Site - ID (2)	Date	Qtr (3)	Tetra Chloro Ethene TCLEE	Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCLE	1,2-Di Chloro Ethane 12DCLE	Carbon Tetra Chloride CCL4
TCAAP SW Action Criteria (4)			8.0	15	0.33	15	15	0.015	18000	6.0	9.4	15	
20400	03-Oct-90	F29											
20400	07-Nov-90	F29	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20400	05-Dec-90	F29											
20400	10-Jan-91	F30											
20400	11-Feb-91	F30	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20400	05-Mar-91	F30											
20400	08-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20400	20-Jun-91	F31											
20400	12-Jul-91	F32											
20400	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20400	03-Sep-91	F32											
20500	03-Oct-90	F29											
20500	07-Nov-90	F29	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20500	05-Dec-90	F29											
20500	05-Mar-91	F30											
20500	08-Apr-91	F31											
20500	08-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20500	20-Jun-91	F31											
20500	12-Jul-91	F32											
20500	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20500	03-Sep-91	F32											
20700	07-Nov-90	F29	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20700	11-Feb-91	F30	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20700	08-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20700	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30

TABLE 6

April 13, 1992

TCAAP ORGANIC SURFACE WATER QUALITY DATA - ug/l (1)

Site - ID (2)	Date	Qtr (3)	Chloro form CHCL3	1,2-Di Chloro Propane 12DCLP	1,1,2-Trichloro 2,2,1-Trifluoro Ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN	Oil & Grease OILGR (mg/l)	Total Organic Carbon TOC (mg/l)
TCAAP SW Action Criteria (4)			1.9	5700	15		6.6	14300	15		
20400	03-Oct-90	F29								<1.00	
20400	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	13.00
20400	05-Dec-90	F29								<1.00	
20400	10-Jan-91	F30								<1.00	
20400	11-Feb-91	F30	<0.72	<1.00	<1.00	<3.20				<1.00	5.90
20400	05-Mar-91	F30								3.600	
20400	08-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	7300.00
20400	20-Jun-91	F31								<1000.00	
20400	12-Jul-91	F32								<1000.00	
20400	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	6.80
20400	03-Sep-91	F32								<1000.00	
20500	03-Oct-90	F29								<1.00	
20500	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	7.40
20500	05-Dec-90	F29								<1.00	
20500	05-Mar-91	F30								<1.00	
20500	08-Apr-91	F31								<1000.00	
20500	08-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	6500.00
20500	20-Jun-91	F31								<1000.00	
20500	12-Jul-91	F32								<1000.00	
20500	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	9.40
20500	03-Sep-91	F32								<1000.00	
20700	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	24.00
20700	11-Feb-91	F30	<0.72	<1.00	<1.00	<3.20				<1.00	8.20
20700	08-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	22000.00
20700	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	22.00

TABLE 6

April 13, 1992

TCAAP ORGANIC SURFACE WATER QUALITY DATA - ug/l (1)

Site - ID (2)	Date	Qtr (3)	Tetra Chloro Ethene TCLEE	Tri Chloro Ethene TRCLE	1,1-Di Chloro Ethene 11DCE	1,2-Di Chloro Ethene 12DCE	Trans 1,2-Di Chloro Ethene T12DCE	Vinyl Chloride C2H3CL	1,1,1-Tri Chloro Ethane 111TCE	1,1,2-Tri Chloro Ethane 112TCE	1,1-Di Chloro Ethane 11DCLE	1,2-Di Chloro Ethane 12DCLE	Carbon Tetra Chloride CCL4
TCAAP SW Action Criteria (4)			8.0	15	0.33	15	15	0.015	18000	6.0	9.4	15	
20800	03-Oct-90	F29											
20800	07-Nov-90	F29	<1.00	0.94	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20800	05-Dec-90	F29											
20800	11-Feb-91	F30	<1.00	1.17	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20800	05-Mar-91	F30											
20800	08-Apr-91	F31											
20800	08-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20800	20-Jun-91	F31											
20800	12-Jul-91	F32											
20800	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20800	03-Sep-91	F32											
20900	07-Nov-90	F29	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20900	11-Feb-91	F30	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20900	08-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
20900	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21000	07-Nov-90	F29	<1.00	0.63	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21000	11-Feb-91	F30	<1.00	0.99	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21000	08-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21000	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21100	07-Nov-90	F29	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21100	07-May-91	F31	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21100	06-Aug-91	F32	<1.00	<0.50	<1.00	<0.50		<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21200	07-May-91	F31											
21300	07-May-91	F31	<1.00	<0.50	<1.00	<0.50	<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21400	07-May-91	F31	<1.00	<0.50	<1.00	<0.50	<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30
21600	07-May-91	F31	<1.00	<0.50	<1.00	<0.50	<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30

TABLE 6

April 13, 1992

TCAAAP ORGANIC SURFACE WATER QUALITY DATA - ug/l (1)

Site - ID (2)	Date	Qtr (3)	Chloro form CHCL3	1,2-Di Chloro Propane 12DCLP	1,1,2-Trichloro 2,2,1-Trifluoro Ethane TCLTFE	Methylene Chloride CH2CL2	Benzene C6H6	Toluene MEC6H5	Total Xylenes TXYLEN	Oil & Grease OILGR (mg/l)	Total Organic Carbon TOC (mg/l)
TCAAAP SW Action Criteria (4)			1.9	5700	15		6.6	14300	15		
20800	03-Oct-90	F29								<1.00	
20800	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	26.00
20800	05-Dec-90	F29								<1.00	
20800	11-Feb-91	F30	<0.72	<1.00	<1.00	<3.20				<1.00	27.90
20800	05-Mar-91	F30								<1.00	
20800	08-Apr-91	F31								<1000.00	
20800	08-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	20000.00
20800	20-Jun-91	F31								<1000.00	
20800	12-Jul-91	F32								<1000.00	
20800	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	22.00
20800	03-Sep-91	F32								<1000.00	
20900	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	24.00
20900	11-Feb-91	F30	<0.72	<1.00	<1.00	<3.20				<1.00	28.90
20900	08-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	22000.00
20900	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	22.00
21000	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	21.00
21000	11-Feb-91	F30	<0.72	<1.00	<1.00	<3.20				<1.00	21.60
21000	08-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	17000.00
21000	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	21.00
21100	07-Nov-90	F29	<0.72	<1.00	<1.00	<3.20				<1.00	2.30
21100	07-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	3000.00
21100	06-Aug-91	F32	<0.72	<1.00	<1.00	<3.20				<1000.00	12.00
21200	07-May-91	F31								<1300.00	17000.00
21300	07-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	5500.00
21400	07-May-91	F31	<0.72	<1.00	<1.00	<3.20				<1300.00	7200.00
21600	07-May-91	F31	<0.72	<1.00	<1.00	<3.20					

Table 7

TCAAP Inorganic Surface Water Quality Data

Notes:

- (1) This table represents monitoring performed for FCC during FY 91 in accordance with the TCAAP National Pollutant Discharge Elimination System (NPDES) permit. All concentration units are indicated below the respective parameters.
- (2) Sites refer to monitoring locations illustrated on Figure 62 of this report.
- (3) Qtr = Quarter. Under this heading, F = FCC.
- (4) TCAAP SW Action Criteria = surface water action criteria set forth in Table 3.7B of the Federal Facilities Agreement. Criteria also exist for cadmium, chromium, and lead, but these are now shown since they involve a calculation using hardness. Refer to Table 3.7B (above) for these calculations.

Table 7

TCAAP Inorganic Surface Water Quality Data

Notes:

- (1) This table represents monitoring performed for FCC during FY 91 in accordance with the TCAAP National Pollutant Discharge Elimination System (NPDES) permit. All concentration units are indicated below the respective parameters.
- (2) Sites refer to monitoring locations illustrated on Figure 62 of this report.
- (3) Qtr = Quarter. Under this heading, F = FCC.
- (4) TCAAP SW Action Criteria = surface water action criteria set forth in Table 3.7B of the Federal Facilities Agreement. Criteria also exist for cadmium, chromium, and lead, but these are now shown since they involve a calculation using hardness. Refer to Table 3.7B (above) for these calculations.

TABLE 7

April 13, 1992

TCAAP INORGANIC SURFACE WATER QUALITY DATA (1)

Site - ID (2)	Date	Qtr (3)	Vanadium V (ug/l)	Biological Oxygen Demand BOD (mg/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (mg/l)	Ammonia NH3 (mg/l)	Chloride CL (mg/l)	PH	Total Suspended Solids TSS (mg/l)
TCAAP SW Action Criteria (4)										
20100	03-Oct-90	F29				0.70		28.40	7.10	2.00
20100	07-Nov-90	F29		<12.00	<50.00	1.60	0.20	30.30	6.30	<1.00
20100	05-Dec-90	F29				1.30			7.10	3.00
20100	05-Mar-91	F30				0.40		37600.00	6.70	21000.00
20100	13-Mar-91	F30								
20100	08-Apr-91	F31				7900.00		3800.00	6.40	8000.00
20100	07-May-91	F31			54.00	4.50		23.80	6.30	<1000.00
20100	21-May-91	F31		<6.00						
20100	20-Jun-91	F31				0.50		22900.00	6.10	3000.00
20100	12-Jul-91	F32				3.00		19200.00	6.70	5000.00
20100	06-Aug-91	F32		<6000.00	<50000.00	0.80	<100.00		6.40	5100.00
20100	15-Aug-91	F32						18700.00		
20100	03-Sep-91	F32				1.20		21300.00	6.20	5000.00
20200	03-Oct-90	F29				8.80		21.30	7.10	<1.00
20200	07-Nov-90	F29		<12.00	<50.00	14.10	<0.10	163.10	8.40	<1.00
20200	05-Dec-90	F29				11.00			8.30	<1.00
20200	10-Jan-91	F30				10.90		77.81	7.10	3.00
20200	11-Feb-91	F30		<6.00	<50.00	8.30	0.66	88.90	7.90	7.00
20200	05-Mar-91	F30				11.70		27600.00	8.00	14000.00
20200	08-Apr-91	F31				8900.00		1300.00	7.90	4000.00
20200	07-May-91	F31			<50.00	10.20		131.000	7.50	1000.00
20200	21-May-91	F31		<6.00						
20200	20-Jun-91	F31				5.10		20600.00	7.70	<1000.00
20200	12-Jul-91	F32				8.60		98000.00	8.20	<1000.00
20200	06-Aug-91	F32		<6000.00	<50000.00	9.40	<100.00		7.80	13600.00
20200	15-Aug-91	F32						57200.00		
20200	03-Sep-91	F32				5.80		840000.00	8.10	<1000.00
20300	03-Oct-90	F29				8.60		20.10	7.40	<1.00
20300	07-Nov-90	F29		<12.00	<50.00	GT15.00	<0.10	65.60	8.30	<1.00
20300	05-Dec-90	F29				1.13			8.20	<1.00
20300	08-Apr-91	F31				8400.00		820.00	7.80	1000.00
20300	07-May-91	F31			<50.00	9.80		52.10	7.50	
20300	21-May-91	F31		<6.00						
20300	20-Jun-91	F31				4.20		77000.00	7.10	<1000.00
20300	12-Jul-91	F32				9.00		77000.00	7.80	<1000.00
20300	06-Aug-91	F32		<6000.00	<50000.00	8.00	<100.00		7.80	2300.00
20300	15-Aug-91	F32						64000.00		
20300	03-Sep-91	F32				4.90		59000.00	8.00	<1000.00

TABLE 7

April 13, 1992

TCAAP INORGANIC SURFACE WATER QUALITY DATA (1)

Site - ID (2)	Date	Qtr (3)	Vanadium V (ug/l)	Biological Oxygen Demand BOD (mg/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (mg/l)	Ammonia NH3 (mg/l)	Chloride CL (mg/l)	PH	Total Suspended Solids TSS (mg/l)
TCAAP SW Action Criteria (4)										
20400	03-Oct-90	F29				8.90		11.70	7.70	<1.00
20400	07-Nov-90	F29		<12.00	<50.00	11.80	0.40	52.30	7.40	3.00
20400	05-Dec-90	F29				10.80			8.00	3.00
20400	10-Jan-91	F30				11.30		62.30	7.60	<1.00
20400	11-Feb-91	F30		<6.00	<50.00	7.50	0.29	59.40	6.80	<1.00
20400	05-Mar-91	F30				11.10			7.50	4000.00
20400	08-Apr-91	F31				7900.00		600.00	7.50	2000.00
20400	08-May-91	F31			<50.000	10.60		36.50	6.80	5000.00
20400	21-May-91	F31		<6.00						
20400	20-Jun-91	F31				3.70		43100.00	7.40	3000.00
20400	12-Jul-91	F32				9.10		47600.00	7.40	4000.00
20400	06-Aug-91	F32		<6000.00	<5000.00	8.20	<100.00		7.20	<1000.00
20400	15-Aug-91	F32						22500.00		
20400	03-Sep-91	F32				5.60		49500.00	7.50	2000.00
20500	03-Oct-90	F29				9.40		4.37	8.20	5.00
20500	07-Nov-90	F29		<12.00	<50.00	GT15.00	0.30	598.40	7.60	5.00
20500	05-Dec-90	F29				11.60			7.10	6.00
20500	05-Mar-91	F30				12.00		341000.00	7.40	4000.00
20500	13-Mar-91	F30								
20500	08-Apr-91	F31				8000.00		4000.00	7.30	6000.00
20500	08-May-91	F31			<50.00	11.00	<0.10	104.00	7.10	<1000.00
20500	21-May-91	F31		<6.00						
20500	20-Jun-91	F31				4.00		105000.00	7.00	<1000.00
20500	12-Jul-91	F32				9.100		126000.00	7.10	2000.00
20500	06-Aug-91	F32		<6000.00	<5000.00	7.80	<100.00		6.90	<1000.00
20500	15-Aug-91	F32						65700.00		
20500	03-Sep-91	F32				4.60		980000.00	7.10	14000.00
20700	07-Nov-90	F29		<12.00	65.00	13.80	<0.10	26.800	7.80	15.00
20700	11-Feb-91	F30		<6.00	96.00	3.00	3.10	47.100	7.90	4.00
20700	08-May-91	F31			54.00	10.20	<0.10	22.000	6.70	14000.00
20700	21-May-91	F31		<6.00						
20700	06-Aug-91	F32		10000.00	63000.00	6.000	<100.00		7.900	41200.00
20700	15-Aug-91	F32						16400.00		

TABLE 7

April 13, 1992

TCAAP INORGANIC SURFACE WATER QUALITY DATA (1)

Site - ID (2)	Date	Qtr (3)	Vanadium V (ug/l)	Biological Oxygen Demand BOD (mg/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (mg/l)	Ammonia NH3 (mg/l)	Chloride CL (mg/l)	PH	Total Suspended Solids TSS (mg/l)
TCAAP SW Action Criteria (4)										
20800	03-Oct-90	F29				5.80		24.90	7.50	23.00
20800	07-Nov-90	F29		<12.00	89.00	GT15.00	0.10	30.20	7.80	12.00
20800	05-Dec-90	F29				11.60			7.50	6.00
20800	11-Feb-91	F30		<6.00	84.00	4.00	2.53	49.80	6.60	3.00
20800	05-Mar-91	F30				4.60		51600.00	7.50	5000.00
20800	08-Apr-91	F31				7300.00		2400.00	7.70	22000.00
20800	08-May-91	F31			58.00	9.80	<0.10	22.60	6.90	13000.00
20800	21-May-91	F31		<6.00						
20800	20-Jun-91	F31				4.50		19700.00	7.20	12000.00
20800	12-Jul-91	F32				5.80		17700.00	7.50	27000.00
20800	06-Aug-91	F32		8900.00	65300.00	5.60	<100.00		7.90	68500.00
20800	15-Aug-91	F32						17400.00		
20800	03-Sep-91	F32				4.50		20800.00	8.10	52000.00
20900	07-Nov-90	F29		<12.00	65.00	14.10	0.20	24.20	8.40	15.00
20900	11-Feb-91	F30		<6.00	100.00	3.20	2.94	45.30	6.60	4.00
20900	08-May-91	F31			65.00	10.80	<0.10	21.80	6.60	13000.00
20900	21-May-91	F31		<6.00						
20900	06-Aug-91	F32		10000.00	67700.00	7.40	<100.00		8.20	51100.00
20900	15-Aug-91	F32						16400.00		
21000	07-Nov-90	F29		<12.00	84.00	13.20	<0.10	32.40	7.60	28.00
21000	11-Feb-91	F30		<6.00	77.00	2.50	2.38	54.60	6.80	3.00
21000	08-May-91	F31			56.00	9.60	<0.10	23.50	7.30	14000.00
21000	21-May-91	F31		<6.00						
21000	06-Aug-91	F32		9200.00	51200.00	5.800	<100.00		7.80	64300.00
21000	15-Aug-91	F32						19100.00		
21100	07-Nov-90	F29		<12.00	<50.00	13.200	<0.10	84.00	7.50	<1.00
21100	07-May-91	F31			<50.00	6.000	<0.10	28.00	7.20	<1000.00
21100	21-May-91	F31		<6.00						
21100	06-Aug-91	F32		<6000.00	<50000.00	4.600	<100.00		8.00	<1000.00
21100	15-Aug-91	F32						98000.00		
21200	07-May-91	F31			61.00	7.900	<0.10	26.20	6.60	2000.00
21200	21-May-91	F31		<6.00						
21300	07-May-91	F31			<50.00	9.400	<0.10	9.33	6.30	30000.00
21300	21-May-91	F31		8.00						
21400	07-May-91	F31			<50.00	6.900		27.80	6.30	<1000.00
21400	21-May-91	F31		<6.00						
21600	07-May-91	F31			<50.00	8.500	<0.10	32.20	6.60	16000.00
21600	21-May-91	F31		<6.00						

Table 8

Site A Performance Data

Table 8
Site A Performance Data

Date	Volume of Water Treated	TRCLE			TCLEE			1,2-DCE		
		Influent Conc. (ppb)	Effluent Conc. (ppb)	Pounds Removed	Influent Conc. (ppb)	Effluent Conc. (ppb)	Pounds Removed	Influent Conc. (ppb)	Effluent Conc. (ppb)	Pounds Removed
13-Sep-88	0	380		0	620		0	540		0
21-Sep-88	58,000	58		0.11	130		0.18	120		0.16
27-Sep-88	44,000	37		0.02	81		0.04	88		0.04
04-Oct-88	43,000	38		0.01	110		0.03	85		0.03
19-Oct-88	99,000	39		0.03	120		0.09	78		0.07
25-Oct-88	48,000	21		0.01	49		0.03	43		0.02
08-Nov-88	110,000	26		0.02	57		0.05	41		0.04
29-Nov-88	136,000	19		0.03	39		0.06	32		0.04
06-Dec-88	50,000	16		0.01	31		0.01	38		0.01
20-Dec-88	90,000	19		0.01	41		0.03	35		0.03
16-Jan-89	152,000	24		0.03	9		0.03	36		0.04
21-Feb-89	195,000	16		0.03	24		0.03	24		0.05
21-Mar-89	151,000	13		0.02	22		0.03	39		0.04
21-Apr-89	156,000	16		0.02	30		0.03	32		0.05
23-May-89	161,000	10		0.02	17		0.03	27		0.04
23-Jun-89	159000	8		0.01	15		0.02	24		0.03
17-Jul-89	107,000	9		0.01	16		0.01	23		0.02
28-Aug-89	297,000	11		0.02	16		0.04	28		0.06
03-Oct-89	221,000	6		0.02	10		0.02	23		0.05
24-Oct-89	110,000	8	<1.0	0.01	15	<0.50	0.01	28	<0.50	0.02
22-Nov-89	157,000	11	<1.0	0.01	20	<0.50	0.02	34	<0.50	0.04
19-Dec-89	120,000	8	<1.0	0.01	14	<0.50	0.02	27	<0.50	0.03
23-Jan-90	120,830	11	<1.0	0.01	17	<0.50	0.02	33	<0.50	0.03
20-Feb-90	129,450	11	<1.0	0.01	18	<0.50	0.02	37	<0.50	0.04
20-Mar-90	120,330	11	<2.5	0.01	17	<0.50	0.02	32	<0.50	0.03
16-Apr-90	109,540	11	<1.0	0.01	17	<0.50	0.02	24	<0.50	0.03
15-May-90	104,020	9	<1.0	0.01	14	<0.50	0.01	19	<0.50	0.02
19-Jun-90	106,400	10	<1.0	0.01	18	<0.50	0.01	17	<0.50	0.02
17-Jul-90	82,380	10	<1.0	0.01	20	<0.50	0.01	13	<0.50	0.01
21-Aug-90	105,710	10	<1.0	0.01	19	<0.50	0.02	15	<0.50	0.01
18-Sep-90	129,200	10	<1.0	0.01	19	<0.50	0.02	15	<0.50	0.02
20-Oct-90	88,210	12	<1.0	0.01	28	<0.50	0.02	14	<0.50	0.01
20-Nov-90	41,470	13	<1.0	0.00	28	<0.50	0.01	17	<0.50	0.01
18-Dec-90	135285	13	<1.0	0.01	22	<0.50	0.03	24	<0.50	0.01
22-Jan-91	127985	12	<1.0	0.01	22	<0.50	0.02	18	<0.50	0.01
19-Feb-91	88420	14	<1.0	0.01	25	<0.50	0.02	25	<0.50	0.01
19-Mar-91	93610	13	<1.0	0.01	23	<0.50	0.02	19	<0.50	0.01
16-Apr-91	114120	14	<1.0	0.01	26	<0.50	0.02	15	<0.50	0.01
21-May-91	173580	14	<1.0	0.01	26	<0.50	0.04	15	<0.50	0.01
18-Jun-91	119070	18	<1.0	0.01	25	<0.50	0.03	15	<0.50	0.01
23-Jul-91	159550	13	<1.0	0.01	24	<0.50	0.04	24	<0.50	0.01
19-Aug-91	142790	16	<1.0	0.01	34	<0.50	0.03	15	<0.50	0.01
17-Sep-91	145410	15	<1.0	0.01	29	<0.50	0.04	14	<0.50	0.01
SUBTOTALS	5101360.00			0.66			1.28			1.24

Note: Minor discrepancies may exist between data presented in this table versus data retrieved from the IRDMS, since the data in this table is unadjusted, raw laboratory data.

Table 9

TGRS Groundwater Capture and Treatment Requirements

TABLE 9
TGRS GROUNDWATER CAPTURE AND
TREATMENT REQUIREMENTS

TABLE 1 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS			
Substance	Contaminant Specific Requirements(a) (ppb)	Acceptable Risk Level(b) 10^{-6} (ppb)	Expected level in discharge (ppb)
<u>VOLATILE ORGANIC COMPOUNDS (VOC)</u>			
BENZENE	5 (MCL)	0.67	NO
TOULUENE	200 (MCLGP)	-	NO
CIS 1,2-DICHLOROETHENE plus TRANS 1,2-DICHLOROETHENE	70 (MCLGP)	-	<1
1,1-DICHLOROETHENE	7 (MCL)	0.033	<1
1,1,1-TRICHLOROETHANE	200 (MCL)	22	<1
1,1,2-TRICHLOROETHANE	6.1 (RAL)	0.6	<1
1,2-DICHLOROETHANE	5 (MCL)	0.38	-
1,1,2-TRICHLOROETHANE	5 (MCL)	2.8	6
1,2-DICHLOROPROPANE	6 (MCLGP)	0.56	-
1,1,2,2-TETRACHLOROETHANE	6.9 (RAL)	0.7	-
CARBON TETRACHLORIDE	5 (MCL)	0.3	-
1,1,2-TRICHLOROTRIFLUOROETHANE	- (GA)	-	-
CHLOROFORM	5 (RAL)	0.19	<1
VINYL CHLORIDE	2 (MCL)	0.015	<1
XYLENE	440 (MCLGP)	-	NO
1,1-DICHLOROETHANE	- (GA)	-	-
<u>METALS</u>			
ARSENIC	50 (MCL)	0.25	NA
BARIUM	1000 (MCL)	1000 (MCL)	NA
CYANIDE	200 (MCL)	200 (WQC)	NA
CADMIUM	5 (MCLP)	10 (WQC)	NA
LEAD	20 (MCLGP)	0.031	NA
NICKEL	150 (HA)	15.4 (WQC)	NA
MERCURY	2 (MCL)	2.0 (MCL)	NA

TABLE 9 (Cont'd)

TGRS GROUNDWATER CAPTURE AND
TREATMENT REQUIREMENTS

TABLE 1 - CONTINUATION			
Substance	Contaminant specific requirements(a) (ppb)	Acceptable Risk Level(b) 10^{-6} (ppb)	Expected level in discharge (ppb)
CHROMIUM	50 (MCL)	50 (MCL)	NA
ZINC	5000 (MCL)	500 (MCL)	NA
<u>POLYCHLORINATED BIPHENYL</u>			
TOTAL		0.008	NA
<u>RADIONUCLIDES</u>			
total ALPHA EMITTING	15 pci/l (MCL)		
total BETA EMITTING	50 pci/l (MCL)		
total GAMMA EMITTING	50 pci/l		
RADON			
<u>AIR EMISSIONS</u>			
RADON (At stack)			
VOC (total at stack)	20ppm (ATSDR)		
VOC (total at boundary)	2ppm (ATSDR)		
BENZENE	500ppm (CAA § 112)		
VINYL CHLORIDE	10ppm (CAA § 112)		

TABLE 9 (Cont'd)

TGRS GROUNDWATER CAPTURE AND
TREATMENT REQUIREMENTS

****Notes for Table 1****

- (a) Applicable to all phases, capture and discharge
- (b) Receptor based criteria for Phase 2. Laboratory detection limits may be substituted for criteria levels with U.S. EPA approval. Values are based on 10^{-6} risk level for carcinogens and for non-carcinogens the stricter limit determined by MCL, AIC or Water Quality criteria adjusted for ingestion of drinking water only.

- * MCL Maximum Contaminant Level
- * MCL Maximum Contaminant Level Proposed
- * MCLG Maximum Contaminant Level Goal
- * MCLGP Maximum Contaminant Level Proposed
- * HA Lifetime Health Advisory
- * RAL Recommended Allowable Level - State of Minnesota
- * SMCL Secondary Maximum Contaminant Level
- * ND None detectable
- * NA Not significantly affected by remedy - not expected to be migrating from sources and will remain at background levels

- * CAA Clean Air Act
- * AIC Chronic Acceptable Intake
- * WQC Water Quality Criteria - adapted for ingestion of drinking water only - concentrations represent 1×10^{-6} risk levels

- * GA Group Action Criteria of 10 ppb adopted

- * ATSDR Agency for Toxic Substances and Disease Registry recommended action level for BGRS.

Table 10

Summary of BGRS Pumping Test Results

TABLE 10
SUMMARY OF BGRS PUMPING TEST RESULTS

<u>Well</u>	<u>Transmissivities (ft²/day)</u>
B1	27,254
B2	38,417
B3	26,920
B4	26,226
B5	34,273
B6	30,300

Table 11

1991 Extraction Well Practical Operating Pumping Rates

TABLE 11

1991 EXTRACTION WELL
PRACTICAL OPERATING PUMPING RATES

<u>Well Name</u>	<u>GPM</u>	<u>Well Name</u>	<u>GPM</u>
B1	200	B10	250
B2	200	B11	100
B3	200	B12	190
B4	200	SC1	40
B5	200	SC2	45
B6	275	SC3	100
B7	300	SC4	45
B8	135	SC5	100
B9	150		
		TOTAL	<u>2,730</u>

Table 12

Extraction Well Shut Down Sequence

TABLE 12
EXTRACTION WELL
SHUT DOWN SEQUENCE

1st	B3
2nd	B4
3rd	B1 and B2
4th	B5 and B6
5th	B7 and B8
6th	B9 and B10
7th	B11, SC-1 and B12
8th	SC2 and SC3
9th	SC4 and SC5

Note:

The SC-1 well and associated treatment system is controlled by a run permissive switch. The switch is controlled by the TGRS PLC. When the PLC orders B11 to operate, SC-1 is given permission to run. When the PLC orders B11 to shut down, permission is withdrawn for SC-1 to operate. SC-1 shuts down.

Table 13

TGRS Extraction Well Water Pumped for the Year 1991

TABLE 13

ALLIANT TECHSYSTEMS, INC. TGRS EXTRACTION WELL WATER PUMPED FOR THE YEAR 1991																		
MONTH	VOLUME OF WATER PUMPED (GALLONS)															TOTAL		
	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC1	SC2	SC3		SC4	SC5
OCTOBER	7,555,100	9,661,420	5,206,510	8,965,200	7,788,000	12,018,700	13,046,100	5,449,100	6,599,100	11,249,400	5,043,300	8,668,120	1,595,540	2,345,880	4,139,100	1,793,900	4,604,500	115,728,970
NOVEMBER	7,297,100	8,447,210	8,019,140	7,799,800	7,100,900	10,298,300	11,271,600	4,707,400	5,776,800	9,769,400	4,368,100	7,395,020	1,324,510	2,118,570	3,584,000	1,567,800	4,079,800	104,925,450
DECEMBER	8,982,500	9,156,720	8,095,290	8,837,200	9,632,100	11,831,500	12,944,000	5,376,500	6,665,600	11,151,100	4,634,300	8,368,110	1,338,640	2,164,620	3,918,000	1,618,000	4,708,500	119,422,680
JANUARY	8,822,900	9,205,810	8,901,590	9,097,200	9,101,600	11,982,500	13,177,400	5,522,000	6,428,100	11,246,400	4,503,700	8,381,270	1,550,140	2,153,000	3,807,100	1,773,200	4,696,900	120,350,810
FEBRUARY	7,681,500	8,262,370	7,846,390	8,153,000	8,206,700	10,668,800	11,612,500	4,970,600	5,844,600	9,963,500	4,030,400	7,442,530	1,315,890	1,955,370	3,384,200	1,543,900	4,305,300	107,187,550
MARCH	8,145,900	8,821,570	9,126,100	8,978,800	9,144,200	11,699,900	13,320,000	5,412,000	6,574,500	10,957,600	4,533,700	8,079,270	1,373,650	1,728,140	3,864,900	1,726,700	4,702,400	118,189,330
APRIL	8,315,100	6,727,510	7,796,530	8,487,200	8,441,700	11,127,200	12,510,600	5,310,900	6,281,000	10,565,300	4,303,800	7,835,600	1,519,230	1,858,330	3,865,800	1,728,500	4,719,000	111,393,300
MAY	9,362,400	8,725,180	8,359,320	9,086,100	9,528,900	11,953,800	13,047,100	5,613,200	6,828,500	11,306,300	4,729,700	8,207,460	1,494,060	2,121,820	4,046,300	1,729,400	4,898,200	121,037,740
JUNE	9,143,800	7,255,500	8,850,070	8,844,700	9,069,900	11,551,000	12,813,900	5,204,800	6,550,500	10,942,700	4,469,500	7,906,690	1,313,930	1,963,660	3,889,700	1,624,500	4,673,300	116,068,150
JULY	7,412,100	8,675,410	8,573,520	8,709,200	9,376,400	11,547,900	13,337,000	5,419,000	6,865,500	11,055,000	4,483,500	7,942,120	1,416,000	1,862,590	3,840,200	1,653,700	4,616,300	116,785,440
AUGUST	8,688,500	8,891,090	8,994,330	9,102,500	9,063,400	11,089,800	13,157,900	5,348,800	6,437,700	11,099,900	4,522,300	7,798,260	1,228,550	1,719,630	4,149,000	1,752,100	4,108,700	117,152,460
SEPTEMBER	8,076,000	8,570,170	8,752,260	8,613,900	8,738,100	11,412,100	12,842,600	5,051,800	6,231,300	10,737,500	4,471,700	7,304,790	1,641,460	1,732,830	4,123,300	1,716,300	4,069,600	114,085,710
TOTAL	99,482,900	102,399,960	98,521,050	104,674,800	105,191,900	137,181,500	153,080,700	63,386,100	77,083,200	130,044,100	54,094,000	95,329,240	17,111,600	23,724,440	46,611,600	20,228,000	54,182,500	1,382,327,590

Table 14

**TGRS Treatment Center Water Metered Volume
for the Year 1991**

TABLE 14

ALLIANT TECHSYSTEMS, INC. TGRS TREATMENT CENTER WATER METERED VOLUME FOR THE YEAR 1991						
MONTH	VOLUME OF WATER PUMPED (GALLONS)					
	METER #1	METER #2	METER #3	METER #4	METER #5	METER #6
OCTOBER	53413000	60032000	41600000	67229000	63017000	53810000
NOVEMBER	49642000	53250000	35905000	62570000	0	49655000
DECEMBER	58875000	58597000	44571000	67956000	0	57074000
JANUARY	58098000	60471000	45409000	68530000	16926000	57348000
FEBRUARY	51368000	54142000	40675000	60808000	59413000	50545000
MARCH	57884000	62827000	44283000	67932000	66023000	56086000
APRIL	54434000	56808000	41640000	64678000	62898000	52679000
MAY	58204000	62010000	46692000	68241000	68093000	56731000
JUNE	56229000	60296000	43941000	66893000	66361000	54790000
JULY	56096000	60227000	46228000	65458000	66415000	54544000
AUGUST	56366000	60739000	47022000	65574000	66785000	54645000
SEPTEMBER	55557000	58914000	45736000	64078000	65376000	51714000
TOTAL	666,166,000	708,313,000	523,702,000	789,947,000	601,307,000	649,621,000

TOTAL OF METERS #1 AND #2: 1,374,479,000

Table 15

Down Time Days

TABLE 15**DOWN TIME DAYS**

<u>Well Name</u>	<u>1991 Days Down</u>	<u>1990 Days Down</u>	<u>1989 Days Down</u>	<u>Well Name</u>	<u>1991 Days Down</u>	<u>1990 Days Down</u>	<u>1989 Days Down</u>
B1	9	7	55	B9	8	8	44
B2	8	8	33	B10	7	4	42
B3	20	5	33	B11	8	6	34
B4	8	4	35	B12	7	4	38
				SC1	11		
B5	10	4	36	SC2	7	5	49
B6	8	4	36	SC3	7	4	33
B7	7	4	41	SC4	7	4	34
B8	8	5	33	SC5	7	4	34

Table 16

Down Time Days by Category - 1991

TABLE 16
DOWN TIME DAYS
BY CATEGORY - 1991

<u>Problem</u>	<u>Down Time Day:</u>	<u>%</u>	<u>Affected Wells/System</u>
System Modifications	0.1	0.9	Extraction Wells
Trouble Shooting/Repairs	1.3	11.8	Treatment Center
Trouble Shooting/Repair	1.5	13.6	Pumphouses
Preventive Maintenance	1	9.1	Entire System
TCAAP Power System Failures	7.1	64.5	Entire System Down
TOTAL DAYS DOWN	11	100	

Anticipated Down Time 1992

Scheduled Maintenance	3-Jan	Wells
Scheduled Maintenance	4-Jan	Treatment Center
Scheduled Maintenance	1	Forcemain
TCAAP Electrical System Failures	10-May	Entire System
Trouble Shooting/Repairs	5-Jan	Wells
Trouble Shooting/Repairs	4-Jan	Treatment Center
System Modifications	1	Treatment Center

Table 17

Vertical Hydraulic Gradients

Table 17

Vertical Hydraulic Gradients

**TABLE 17
VERTICAL HYDRAULIC GRADIENTS**

WELLS		04/02/87	09/08/87	11/17/87	11/24/87	11/30/87	12/14/87	01/11/88	05/02/88	05/20/88	06/23/88	07/27/88	09/01/88	09/21/88	10/14/88	12/02/88	01/13/89
03U001 <-->	03M001	0.016		0.002	0.001	0.001	0.001	0.004	0.001	0.002	0.005	0.009	0.006	0.002	0.002	0.002	0.002
03M001 <-->	03L001	0.002	0.001	-0.001	-0.000	-0.000	-0.001	-0.004	0.001	0.000	0.000	-0.006	-0.004	0.001	0.000	-0.001	0.000
03L001 <-->	04U001	-0.018		-0.004	-0.004	-0.004	-0.004	-0.004	-0.005	-0.005	-0.005	-0.003	-0.003	-0.004	-0.005	-0.003	-0.004
03U002 <-->	03M002	-0.004	-0.001	-0.008	-0.007		-0.005	-0.006	-0.007	-0.005	-0.009	-0.007	0.004	0.004	-0.001	0.001	-0.017
03M002 <-->	03L002	-0.001	-0.001	-0.001	-0.001		-0.001	-0.001	-0.000	-0.001	-0.001	-0.001	-0.001	-0.000	-0.001	-0.001	-0.001
03L002 <-->	04U002	-0.005	-0.002	-0.001	-0.001	-0.002	-0.001	-0.001	-0.002	-0.001	-0.003	-0.005	-0.002	-0.002	-0.002	-0.002	-0.003
03U003 <-->	03M003			-0.001	-0.082		0.001	0.004	-0.002	-0.001	-0.004	-0.001	-0.001	-0.002	-0.000	0.002	-0.002
03M003 <-->	03L003	-0.012	-0.015	-0.014	0.073		-0.012	-0.007	-0.018	-0.015	-0.020	-0.020	-0.017	-0.017	-0.014	-0.011	-0.017
03L003 <-->	04U003	-0.066	-0.072	-0.060	-0.061	-0.059	-0.060	-0.054	-0.067	-0.066	-0.077	-0.063	-0.059	-0.063	-0.053	-0.057	-0.056
04U003 <-->	PJ#003						-0.009		-0.009	-0.010	-0.023	-0.015	-0.011	-0.011	-0.009	-0.010	-0.009
03U004 <-->	03M004	-0.018	-0.008	-0.010	-0.010	-0.010	-0.010	-0.003	-0.011	-0.011	-0.012	-0.012	-0.011	-0.011	-0.009	-0.008	-0.008
03M004 <-->	03L004	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.000	-0.001
03U005 <-->	03M005								0.002	0.002	0.004	0.001	0.001	0.002	0.004	0.001	0.002
03M005 <-->	03L005								-0.018	-0.018	-0.024	-0.018	-0.018	-0.018	-0.024	-0.018	-0.018
03U007 <-->	03M007				-0.001		-0.001	-0.001	-0.001	-0.001	-0.000	-0.000	-0.001	-0.001	-0.001	-0.001	-0.001
03M007 <-->	03L007				-0.006		-0.006	-0.006	-0.007	-0.006	-0.007	-0.006	-0.003	-0.006	-0.006	-0.004	-0.005
03L007 <-->	04U007				0.002		0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.002
03U010 <-->	03M010				-0.002		-0.002	-0.002	-0.002	-0.001	-0.002	-0.001	0.000	0.000	0.001	-0.000	0.000
03M010 <-->	03L010				-0.008		-0.010	-0.011	-0.013	-0.013	-0.013	-0.011	-0.012	-0.013	-0.012	-0.012	-0.013
03U012 <-->	03M012			0.003	-0.001		-0.001	0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.000
03M012 <-->	03L012			-0.002	-0.001		-0.000	-0.006	-0.001	-0.001	-0.001	-0.001	-0.000	-0.001	-0.001	-0.005	-0.000
03L012 <-->	04U012			-0.002	-0.002		-0.003	-0.001	-0.002	-0.002	-0.002	-0.002	-0.003	-0.002	-0.002	-0.000	-0.003
03U013 <-->	03M013		-0.001	-0.001	-0.001		-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
03M013 <-->	03L013		-0.001	-0.002	-0.002		-0.002	-0.009	-0.002	-0.001	-0.002	-0.001	-0.001	-0.002	-0.002	-0.001	-0.001
03U014 <-->	03L014		-0.000	0.001	0.001		0.001	0.001	0.001	0.011	-0.001	-0.001	-0.000	0.000	0.001	0.001	0.001
03U017 <-->	03M017	-0.006	-0.001	-0.001	-0.002		-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.002	-0.001
03M017 <-->	03L017	-0.001	-0.001	-0.001	0.002			-0.001	-0.001	-0.001	-0.001	0.002	-0.001	-0.001	-0.001	-0.001	0.000
03U018 <-->	03L018	-0.005	-0.002		-0.002	-0.002	-0.003	-0.002	-0.002	-0.003	-0.004	-0.004	-0.002	-0.002	-0.002	-0.001	-0.001
03U020 <-->	03M020	-0.005	0.004	-0.002	-0.002	-0.002	-0.002	-0.004	-0.003	-0.003	-0.004	-0.003	-0.002	-0.002	-0.001	-0.003	0.003
03M020 <-->	03L020	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001
03L020 <-->	04U020	-0.011	-0.016	-0.012	-0.013	-0.012	-0.011	-0.029	-0.016	-0.017	-0.040	0.005	-0.017	-0.016	-0.013	-0.012	-0.012
03U021 <-->	03L021						-0.002		-0.003								-0.002
03U027 <-->	03L027		-0.000	-0.000	-0.000	-0.000	-0.000	-0.001	-0.000	-0.000	-0.001	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
03L027 <-->	04U027		-0.034	-0.035	-0.035	-0.035	-0.035	-0.040	-0.040	-0.040	-0.047	-0.044	-0.037	-0.040	-0.035	-0.030	-0.030
04U027 <-->	PJ#027		-0.002	-0.002	-0.003	-0.004	-0.003		-0.003	-0.003	-0.003	-0.003	-0.002	-0.002	-0.002	-0.002	-0.002
03U028 <-->	03L028	-0.001	-0.001	-0.001		-0.001	-0.000	0.000	-0.001	-0.001	-0.002	-0.010	-0.001	-0.001	-0.001	-0.000	-0.001
03U029 <-->	03L029	0.000				-0.003	0.012	0.013	-0.005	-0.004	-0.006	-0.006	0.001	-0.003	0.011	0.000	-0.004

NEGATIVE VALUES DENOTE DOWNWARD GRADIENTS

**TABLE 17
VERTICAL HYDRAULIC GRADIENTS**

WELLS		03/31/89	07/07/89	10/05/89	12/21/89	01/11/90	05/16/90	07/16/90	02/28/91	06/03/91	09/03/91	09/27/91
03U001 <-->	03M001	-0.002	-0.003	-0.005	-0.004	-0.005	-0.004	-0.002	-0.005	-0.005	-0.005	-0.005
03M001 <-->	03L001	-0.008	-0.004	-0.002	-0.004	-0.004	-0.004	-0.005	-0.004	-0.003	-0.004	-0.005
03L001 <-->	04U001	-0.003	-0.002	-0.004	-0.004	-0.003	-0.004	-0.004	-0.004	-0.003	-0.004	-0.003
03U002 <-->	03M002	-0.009	-0.101	-0.010	-0.009	-0.008	-0.009	-0.008	-0.009	-0.008	-0.007	-0.008
03M002 <-->	03L002	-0.001	0.163	-0.001	-0.001	-0.001	-0.002	-0.001	-0.001	-0.001	-0.004	-0.001
03L002 <-->	04U002	-0.016	-0.011	-0.013	-0.014	-0.014	-0.013	-0.013	-0.014	-0.014	-0.013	-0.015
03U003 <-->	03M003	-0.012	-0.016	-0.015	-0.004	-0.006	-0.007	-0.005	-0.005	-0.004	-0.004	-0.004
03M003 <-->	03L003	-0.033		-0.037	-0.019	-0.023	-0.021	-0.020	-0.021	-0.021	-0.021	-0.020
03L003 <-->	04U003	-0.018		-0.015	-0.039	-0.034	-0.031	-0.032	-0.030	-0.028	-0.030	-0.029
04U003 <-->	PJ#003	-0.007		-0.009	-0.010	-0.014	-0.008	-0.008	-0.009	-0.009	-0.010	-0.009
03U004 <-->	03M004	-0.012		-0.014	-0.012	-0.012	-0.013		-0.012			-0.013
03M004 <-->	03L004	-0.001		-0.001	0.000	-0.001	-0.001		-0.001			-0.001
03U005 <-->	03M005	0.005		0.005	0.005	0.005	0.005		0.002			0.001
03M005 <-->	03L005	-0.025		-0.024	-0.024	-0.024	-0.024		-0.018			-0.018
03U007 <-->	03M007	-0.001		-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
03M007 <-->	03L007	-0.006		-0.006	-0.006	-0.006	-0.007	-0.008	-0.005	-0.006	-0.005	-0.009
03L007 <-->	04U007	0.002		0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.003
03U010 <-->	03M010	-0.001		-0.000	-0.001	0.000						0.000
03M010 <-->	03L010	-0.011		-0.014	-0.013	-0.013						-0.008
03U012 <-->	03M012	-0.000		-0.000	-0.000	-0.000	-0.001	-0.001	-0.000	-0.001	-0.000	-0.001
03M012 <-->	03L012	-0.002		-0.001	0.000	-0.001	0.000	-0.001	-0.002	-0.001	-0.001	-0.002
03L012 <-->	04U012	-0.003		-0.003	-0.004	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003
03U013 <-->	03M013	-0.001		-0.001	-0.000	-0.000	-0.000		0.000			-0.000
03M013 <-->	03L013	-0.001		-0.002	-0.002	-0.001	-0.001		-0.001			-0.002
03U014 <-->	03L014	0.001		0.001	0.002	0.001	0.002		0.002	0.002	0.001	0.002
03U017 <-->	03M017	-0.002		-0.001	-0.002	-0.000	-0.002		-0.002			-0.002
03M017 <-->	03L017	-0.002		-0.000	0.004	-0.001	-0.001		-0.001			-0.002
03U018 <-->	03L018	-0.003	-0.004	-0.003	-0.003	-0.003	-0.003		-0.002			-0.003
03U020 <-->	03M020	-0.004	-0.026	-0.004	0.001	-0.002	-0.003	-0.003	-0.004	-0.003	-0.004	-0.004
03M020 <-->	03L020	0.003		0.001	-0.002	0.003	0.001	0.002	0.003	0.002	0.003	0.003
03L020 <-->	04U020	-0.013		-0.030	-0.013	-0.013	-0.010	-0.010	-0.011	-0.009	-0.011	-0.008
03U021 <-->	03L021	-0.003		-0.003	-0.003	-0.003	-0.003		-0.003			-0.006
03U027 <-->	03L027	-0.000		0.005	-0.000	-0.000	-0.001		-0.001			-0.001
03L027 <-->	04U027	-0.041		-0.046	-0.042	-0.041	-0.041		-0.041			-0.040
04U027 <-->	PJ#027	-0.001		-0.002	-0.002	-0.002	-0.000		-0.001			-0.002
03U028 <-->	03L028	-0.001		-0.001	-0.001	-0.001	-0.001		-0.001			-0.001
03U029 <-->	03L029	0.008		-0.001	0.008							

NEGATIVE VALUES DENOTE DOWNWARD GRADIENTS

**TABLE 17
VERTICAL HYDRAULIC GRADIENTS**

WELLS		04/02/87	09/08/87	11/17/87	11/24/87	11/30/87	12/14/87	01/11/88	05/02/88	05/20/88	06/23/88	07/27/88	09/01/88	09/21/88	10/14/88	12/02/88	01/13/89
03U077 <-->	03L077	-0.001	0.000	-0.008	-0.007	-0.000	-0.008	-0.008	-0.007	-0.007	-0.008	-0.001	0.001	0.001	-0.005	0.000	-0.000
03L077 <-->	04U077	0.029	0.018	0.031	0.025	-0.053	-0.134	0.032	0.018	0.018	0.035	0.010	0.003	-0.061	0.016	0.011	
04U077 <-->	04J077													0.031		0.000	
03U078 <-->	03L078	-0.010	-0.009	0.003	0.006	0.006	0.004	0.003	-0.004	0.000	-0.009	-0.000	0.006	0.010	0.005	-0.004	-0.001
03U079 <-->	03L079	-0.004	-0.004	0.011	0.019	0.010	0.011	0.009	0.006	0.008	-0.001	0.008	0.001	0.009	0.010	-0.001	0.004
03U084 <-->	03L084								-0.009	-0.009	-0.009	-0.013	-0.010	-0.011	-0.011	-0.011	
03U113 <-->	03L113								-0.002	-0.002			-0.002	-0.002			-0.001
03U701 <-->	04U701	0.000	0.001	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	0.001	0.001	-0.001	0.000	0.002	0.001
03U702 <-->	04U702	0.005	0.005	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.002	0.004	0.003	0.001	0.002	0.004	0.003
04U702 <-->	04J702															0.003	0.002
03U708 <-->	04U708	-0.007	-0.007	-0.007	-0.007	-0.006	-0.005	-0.006	-0.009	-0.007	-0.011	-0.010	-0.003	-0.002	-0.005	-0.004	-0.007
04U708 <-->	04J708																
03U709 <-->	04U709	-0.002	-0.000	-0.005	-0.004	-0.001	-0.004	-0.003	-0.005	-0.004	-0.005	-0.004	0.002	0.003	-0.002	-0.000	-0.003
03U711 <-->	04U711		-0.006		-0.005	-0.004	-0.004	-0.002	-0.005	-0.005	-0.008	-0.003	-0.020	-0.006	-0.004	-0.003	-0.005
03M713 <-->	04U713																0.027
04U713 <-->	04J713																-0.026
04U714 <-->	04J714																0.003
04U714 <-->	04J714																0.000
PD3U3 <-->	PD3L3	-0.058	-0.070	-0.066	-0.057	-0.061	-0.085	-0.047	-0.055	-0.058	-0.073	-0.076	-0.072	-0.068	-0.065	-0.049	-0.052
PD3L3 <-->	PD3U4	0.007	0.007	-0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.007	0.007	0.007	0.008	-0.050
T2M3 <-->	T2L3	0.019	0.022	-0.002	0.003	-0.004	-0.044	0.029	-0.010	-0.006	-0.024	-0.001	-0.013	-0.016	0.007	-0.012	-0.007
T2L3 <-->	T2U4	-0.051	-0.057	-0.033	-0.044	-0.034	-0.022	-0.038	-0.022	-0.021	-0.028	-0.033	0.138	-0.020	-0.026	-0.033	-0.014
T2U4 <-->	T2PJ	-0.006	-0.005	-0.001	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.004	-0.004	-0.070	-0.003	-0.003	-0.003	-0.003
T6U3 <-->	T6M3	0.004	0.005	-0.006	-0.002	-0.007	-0.006	0.004	-0.006	-0.005	-0.003	0.005	0.004	-0.005	0.002	0.004	-0.003
T6M3 <-->	T6L3	-0.001	-0.002	-0.001	0.002	-0.001	0.003	-0.002	-0.001	-0.001	-0.001	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001
T6L3 <-->	T6U4	-0.007	-0.008	-0.002	-0.007	-0.001	-0.007	-0.005	-0.003	-0.002	-0.004	-0.007	-0.006	-0.002	-0.006	-0.006	-0.003
T6U4 <-->	T6PJ	-0.000	0.000	0.014	-0.001	0.002	0.001	0.000	0.001	0.001	0.000	-0.000	0.001	0.001	0.001	0.001	0.001

**TABLE 17
VERTICAL HYDRAULIC GRADIENTS**

WELLS			03/31/89	07/07/89	10/05/89	12/21/89	01/11/90	05/16/90	07/16/90	02/28/91	06/03/91	09/03/91	09/27/91
03U077	<-->	03L077	0.011		-0.012	-0.017	-0.012	-0.012		-0.012			-0.012
03L077	<-->	04U077			0.015	0.003	0.000	0.001		0.001			0.002
04U077	<-->	04J077			-0.043	-0.049	-0.048	-0.041		-0.037			-0.037
03U078	<-->	03L078	0.001		-0.003	-0.001	0.000	0.005		0.006			0.013
03U079	<-->	03L079	0.009		0.007	0.005	0.011	0.012		0.014			0.019
03U084	<-->	03L084	-0.015		-0.013	-0.013	-0.014	-0.014		-0.015			-0.014
03U113	<-->	03L113	-0.001		-0.002	-0.001	-0.001	-0.001		-0.001			-0.002
03U701	<-->	04U701	-0.003		-0.008	-0.010	-0.010	-0.009		-0.009			-0.009
03U702	<-->	04U702	-0.002		-0.002	0.002	-0.004	-0.004		-0.004			-0.004
04U702	<-->	04J702	-0.011		-0.010	-0.030	-0.015	-0.012		-0.011			-0.010
03U708	<-->	04U708	-0.006		-0.010	-0.008	-0.008	-0.007		-0.007			-0.006
04U708	<-->	04J708	-0.030		-0.019	-0.021	-0.020	-0.023		-0.022			-0.023
03U709	<-->	04U709	-0.003	-0.008	-0.010	-0.003	-0.009	-0.009		-0.009			-0.009
03U711	<-->	04U711	-0.006	0.012	-0.007	-0.006	-0.006	-0.005	0.005	-0.007	-0.006	0.006	0.005
03M713	<-->	04U713	0.027	0.011	0.035	0.032	0.031	0.030	0.031	0.032	0.033	0.036	0.034
04U713	<-->	04J713	-0.039	-0.134	-0.049	-0.049	-0.048	-0.045	-0.047	-0.051	-0.052	-0.055	-0.053
04U714	<-->	04J714	-0.148		-0.003	-0.003	-0.002	-0.003	-0.002	-0.003	-0.003	-0.002	-0.003
PD3U3	<-->	PD3L3	-0.057		-0.063	-0.050	-0.050	-0.043	-0.048	-0.043	-0.038	-0.043	-0.040
PD3L3	<-->	PD3U4	0.007		0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.009
T2M3	<-->	T2L3	0.039		-0.010	-0.005	-0.005	0.001	0.001	-0.003	0.004	0.003	0.005
T2L3	<-->	T2U4	-0.020		-0.007	-0.015	-0.007	-0.002	-0.002	-0.004	-0.001	-0.003	-0.001
T2U4	<-->	T2PJ	-0.002		-0.001	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	-0.003	-0.003
T6U3	<-->	T6M3	-0.010	-0.004	-0.010	-0.011	-0.011	-0.011	-0.011	-0.012	-0.012	-0.011	-0.011
T6M3	<-->	T6L3	-0.001		-0.001	-0.001	-0.001	-0.000	-0.001	-0.001	0.000	-0.001	-0.000
T6L3	<-->	T6U4	-0.004		-0.004	-0.004	-0.004	-0.003	-0.003	-0.004	-0.005	-0.004	-0.004
T6U4	<-->	T6PJ	0.001		0.001	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001

NEGATIVE VALUES DENOTE DOWNWARD GRADIENTS

Table 18

TGRS VOC Mass Loading Summary

TABLE 18

TGRS VOC MASS LOADING SUMMARY
(lbs/day)

<u>Well</u>	<u>% Contribution to VOC Mass Removal</u>	<u>FY 1991 Total Pounds VOC Mass Removal (3 Quarters)</u>
B1	4.1	1,098
B2	1.1	294
B3	0.05	13
B4	9.8	2,622
B5	23.8	6,369
B6	12.9	3,452
B7	0.06	16
B8	0.6	161
B9	1.6	428
B10	0.1	27
B11	0.03	8
B12	0.02	5
SC1	0.6	161
SC2	5.6	1,500
SC3	1.7	455
SC4	0.03	8
SC5	37.9	10,143
	FY 1991 Total Daily Average	26,760 lbs. 73.3 lbs/day
	TGRS 1990 Total	18,005 lbs.
	TGRS 1989 Total	19,510 lbs.
	BGRS 1988 Total	4,800 lbs.
	BGRS 1987 Total	2,100 lbs.
	Historical Total	71,175 lbs.

Table 19

Historical VOC Concentration in TGRS Extraction Wells

TABLE 19
HISTORICAL VOC CONCENTRATION IN TGRS EXTRACTION WELLS
concentration: ug/l

WELL	DATE	111TCE	112TCE	11DCE	11DCE	12DCE	C12DCE	C2H3CL	CHCL3	T12DCE	TCLER	TRCLE
03F302 (B1)	871117	9.70	0.30	3.80	5.00	< 0.02	51.40	< 0.20	11.30	< 0.20	0.60	1040.00
03F302 (B1)	871215	22.80	0.26	9.10	12.80	< 0.20	69.00	< 0.20	20.80	1.10	1.50	2110.00
03F302 (B1)	871215	23.20	0.28	12.30	10.80	< 0.20	177.00	< 0.20	26.00	0.70	1.20	2120.00
03F302 (B1)	880112	23.00	< 4.00	12.00	20.00	< 4.00	182.00	< 4.00	18.00	< 4.00	< 4.00	2580.00
03F302 (B1)	880428	41.00	< 10.00	12.00	14.00	< 10.00	124.00	< 10.00	22.00	< 10.00	< 10.00	2895.00
03F302 (B1)	880719	24.00	0.49	7.50	18.00	< 0.20	234.00	< 0.20	< 0.20	1.20	2.70	4300.00
03F302 (B1)	881021	24.00	< 0.50	10.00	14.00	< 1.00	135.00	< 0.50	0.50	0.66	2.20	4800.00
03F302 (B1)	890106	35.00	< 1.00	16.00	18.00	< 1.00	158.00	< 1.00	< 1.00	< 1.00	2.40	2850.00
03F302 (B1)	890316	31.00	< 10.00	< 10.00	11.00	< 10.00	130.00	< 10.00	< 10.00	< 10.00	< 10.00	5800.00
03F302 (B1)	890420	27.00 J	0.60 J	14.00 J	13.00 J	< 0.20 UJ	100.00 J	< 1.00 UJ	0.70 J	0.70 J	1.60 J	4500.00 J
03F302 (B1)	890719	44.00	< 20.00	22.00	< 20.00	< 20.00	120.00	< 100.00	< 20.00	< 20.00	< 20.00	2700.00
03F302 (B1)	891024	62.00	< 20.00	< 20.00	< 20.00	< 20.00	67.00	< 100.00	< 20.00	< 20.00	< 20.00	2300.00
03F302 (B1)	900118	43.00 J	< 20.00	< 20.00	< 20.00	< 20.00	110.00	< 100.00	< 20.00	< 20.00	< 20.00	2100.00 J
03F302 (B1)	900118	56.00 J	< 20.00	< 20.00	< 20.00	< 20.00	91.00	< 100.00	< 20.00	< 20.00	< 20.00	2700.00 J
03F302 (B1)	900508	3.60	< 0.50	2.20	2.40	< 0.50	28.00	< 0.50	< 0.50	< 0.50	< 0.50	1300.00
03F302 (B1)	900713	85.00	< 25.00	23.00	18.00	< 5.00	120.00	< 38.00	< 12.00	< 7.50	< 25.00	1900.00
03F302 (B1)	900713	83.00	< 25.00	22.00	18.00	< 5.00	120.00	< 38.00	< 12.00	< 7.50	< 25.00	1900.00
03F302 (B1)	901219	< 1.00	< 1.00	< 1.00	< 0.78	< 0.50		< 1.90	< 0.72		< 1.00	1840.13
03F302 (B1)	910319	< 50.00	< 50.00	< 50.00	< 39.00	< 25.00		< 95.00	< 36.00	< 15.00 T	< 50.00	1300.00
03F302 (B1)	910605	< 50.00	< 50.00	< 50.00	< 39.00	< 25.00		< 95.00	< 36.00	< 15.00 T	< 50.00	1400.00
03F302 (B1)	910905	< 50.00	< 50.00	< 50.00	< 39.00	< 25.00		< 95.00	< 36.00	< 15.00 R	< 50.00	1300.00
03F303 (B2)	871117	18.10	< 0.20	9.90	9.00	< 0.20	31.50	< 0.20	9.20	< 0.20	6.70	190.00
03F303 (B2)	871215	19.10	< 0.20	8.10	10.20	< 0.20	28.90	< 0.20	8.90	0.30	8.90	282.00
03F303 (B2)	880112	27.00	< 0.20	11.00	17.00	< 0.20	60.00	< 0.20	11.00	< 0.20	15.00	375.00
03F303 (B2)	880112	26.00	< 0.20	11.00	11.00	< 0.20	49.00	< 0.20	7.00	< 0.20	16.00	390.00
03F303 (B2)	880428	18.50	< 0.20	8.20	10.30	< 0.20	41.90	< 0.20	< 0.20	< 0.20	10.70	274.00
03F303 (B2)	880719	28.00	< 0.20	5.00	13.00	< 0.20	48.00	< 0.20	< 0.20	< 0.20	18.00	700.00
03F303 (B2)	881021	22.00	< 0.50	5.20	7.60	< 1.00	32.00	< 0.50	< 0.50	< 0.50	14.00	1000.00
03F303 (B2)	890106	20.00	< 1.00	7.60	11.00	< 1.00	61.00	< 1.00	< 1.00	< 1.00	13.00	61.00
03F303 (B2)	890316	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	61.00	< 10.00	11.00	1200.00
03F303 (B2)	890420	14.00	< 0.20	6.90	5.70	< 0.20	38.00	< 1.00	0.80	0.30	11.00	1100.00
03F303 (B2)	890719	20.00	< 4.00	9.00	6.80	< 4.00	48.00	< 20.00	< 4.00	< 4.00	17.00	860.00
03F303 (B2)	891024	19.00	< 5.00	< 5.00	< 5.00	< 5.00	28.00	< 25.00	< 5.00	< 5.00	12.00	850.00
03F303 (B2)	900118	24.00 J	< 5.00	6.20	< 5.00	< 5.00	33.00	< 25.00	< 5.00	< 5.00	8.60	650.00 J
03F303 (B2)	900508	15.00	< 0.50	5.50	4.50	< 0.50	20.00	< 0.50	< 0.50	< 0.50	8.60	700.00
03F303 (B2)	900713	24.00	< 5.00	6.90	5.90	< 1.00	29.00	< 7.50	< 2.50	< 1.50	11.00	510.00
03F303 (B2)	901219	11.64	< 1.00	< 1.00	< 0.78	< 0.50		< 1.90	< 0.72		< 1.00	320.82
03F303 (B2)	910319	16.00	< 10.00	< 10.00	< 7.80	< 5.00		< 19.00	< 7.20	< 3.00 T	< 10.00	380.00
03F303 (B2)	910605	13.00	< 10.00	< 10.00	< 7.80	< 5.00		< 19.00	< 7.20	< 15.00 T	< 10.00	350.00
03F303 (B2)	910905	< 20.00	< 20.00	< 20.00	< 16.00	< 10.00		< 38.00	< 14.00	< 6.00 R	< 20.00	360.00

Notes: J - concentration estimated U - analyte not detected

TABLE 19
HISTORICAL VOC CONCENTRATION IN TGRS EXTRACTION WELLS

concentration: ug/l

WELL	DATE	111TCE	112TCE	11DCE	11DCLE	12DCLE	C12DCE	C2H9CL	CHCL3	T12DCE	TCLBB	TRCLE
03F304 (B3)	871117	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	5.10
03F304 (B3)	871215	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.11	< 0.20	0.39	< 0.20	< 0.20	8.33
03F304 (B3)	880112	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.10	< 0.20	< 0.20	< 0.20	< 0.20	8.20
03F304 (B3)	880428	1.26	< 0.20	< 0.20	< 0.20	< 0.20	1.14	< 0.20	< 0.20	< 0.20	< 0.20	8.02
03F304 (B3)	880428	0.86	< 0.20	< 0.20	< 0.20	< 0.20	1.16	< 0.20	< 0.20	< 0.20	< 0.20	6.62
03F304 (B3)	880719	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	9.50
03F304 (B3)	890316	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	6.00
03F304 (B3)	890420	0.20	< 0.20	< 0.30	0.20	< 0.20	0.50	< 1.00	< 0.20	< 0.20	< 0.20	11.00
03F304 (B3)	890719	< 0.20	< 0.20	0.20	< 0.20	< 1.00	0.40	< 5.00	< 1.00	< 0.20	< 0.20	4.60
03F304 (B3)	891024	0.50	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 1.00	< 0.20	< 0.20	< 0.20	5.40
03F304 (B3)	900118	0.70	0.40	< 0.20	< 0.20	< 0.20	0.40	< 1.00	< 0.20	< 0.20	< 0.20	5.10
03F304 (B3)	900508	1.80	1.30	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	6.70
03F304 (B3)	900713	5.90	1.10	0.40	0.20	< 0.20	< 0.50	< 1.50	< 0.50	< 0.30	< 1.00	7.30
03F304 (B3)	901219	6.44	1.53	< 1.00	< 0.78	< 0.50		< 1.90	< 0.72		< 1.00	5.41
03F304 (B3)	910319	9.82	1.62	< 1.00	< 0.78	< 0.50		< 1.90	< 0.72	< 0.30 T	< 1.00	8.34
03F304 (B3)	910605	8.21	2.03	< 1.00	< 0.78	< 0.50		< 1.90	< 0.72	< 0.30 T	< 1.00	8.00
03F304 (B3)	910605	8.81	1.96	1.78	< 0.78	< 0.50		< 1.90	< 0.72	< 0.30 T	< 1.00	9.42
03F304 (B3)	910905	8.32	1.82	< 1.00	< 0.78	< 0.50		< 1.90	< 0.72	< 0.30 R	< 1.00	7.83
03F305 (B4)	871117	17.60	2.40	2.20	2.00	< 0.20	0.80	< 0.20	0.40	< 0.20	0.80	22.90
03F305 (B4)	871215	31.00	3.10	4.10	6.14	< 0.20	1.55	< 0.20	0.47	< 0.20	1.10	54.00
03F305 (B4)	880112	39.00	2.30	3.60	5.50	< 0.20	1.60	< 0.20	0.75	< 0.20	0.86	61.00
03F305 (B4)	880428	34.90	1.86	4.19	2.49	< 0.20	1.38	< 0.20	< 0.20	< 0.20	0.82	26.30
03F305 (B4)	880719	85.00	8.60	2.40	1.80	< 0.20	0.73	< 0.20	< 0.20	< 0.20	6.50	38.00
03F305 (B4)	890106	44.00	2.30	4.70	3.60	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.10	21.00
03F305 (B4)	890316	68.00	1.80	8.20	14.00	1.30	< 1.00	< 1.00	1.90	11.00	2.00	68.00
03F305 (B4)	890420	58.00 J	1.60 J	15.00 J	19.00 J	< 0.20 UJ	3.30 J	< 1.00 UJ	0.40 J	< 0.20 UJ	1.40 J	100.00 J
03F305 (B4)	890719	110.00	2.60	49.00	34.00	< 1.00	7.80	< 5.00	< 1.00	< 1.00	1.30	140.00
03F305 (B4)	891023	240.00	< 2.00	77.00	67.00	< 2.00	13.00	< 10.00	< 2.00	< 2.00	< 2.00	430.00
03F305 (B4)	900118	330.00	< 4.00	79.00	110.00	< 4.00	26.00	< 20.00	< 4.00	< 4.00	< 4.00	590.00
03F305 (B4)	900508	500.00	2.30	140.00	100.00	1.60	23.00	< 0.50	1.20	< 0.50	0.60	1100.00
03F305 (B4)	900508	460.00	2.30	130.00	90.00	1.50	22.00	< 0.50	1.20	< 0.50	0.60	1200.00
03F305 (B4)	900713	770.00	< 20.00	210.00	170.00	< 4.00	46.00	< 30.00	< 10.00	< 6.00	< 20.00	1600.00
03F305 (B4)	901219	746.65	< 1.00	116.22	148.58	< 0.50		< 1.90	< 0.72		< 1.00	1834.76
03F305 (B4)	910319	980.00	< 50.00	170.00	160.00	< 25.00		< 95.00	< 36.00	< 15.00 T	< 50.00	2100.00
03F305 (B4)	910319	980.00	< 50.00	170.00	160.00	< 25.00		< 95.00	< 36.00	< 15.00 T	< 50.00	2100.00
03F305 (B4)	910605	930.00	< 50.00	150.00	160.00	< 25.00		< 95.00	< 36.00	< 15.00 T	< 50.00	2100.00
03F305 (B4)	910905	880.00	< 100.00	110.00	160.00	< 50.00		< 190.00	< 72.00	< 30.00 R	< 100.00	2900.00
03F305 (B4)	910905	970.00	< 100.00	120.00	170.00	< 50.00		< 190.00	< 72.00	< 30.00 R	< 100.00	2400.00

Notes: J - concentration estimated U - analyte not detected

TABLE 19
HISTORICAL VOC CONCENTRATION IN TGRS EXTRACTION WELLS
concentration: ug/l

WELL	DATE	111TCE	112TCE	11DCE	11DCLE	12DCLE	C12DCE	C2H3CL	CHCL3	T12DCE	TCLER	TRCLE
03F306 (B5)	871117	845.00	1.30	130.00	90.00	2.50	17.00	0.20	15.80	< 0.20	0.40	1500.00
03F306 (B5)	871215	1150.00	1.46	48.80	143.00	4.40	27.40	< 0.20	15.30	0.60	0.36	2130.00
03F306 (B5)	880112	1224.00	< 4.00	171.00	185.00	< 4.00	5.70	< 4.00	9.20	< 4.00	< 4.00	2420.00
03F306 (B5)	880428	100.00	< 0.20	160.00	120.00	< 0.20	38.00	< 0.20	< 0.20	< 0.20	< 0.20	530.00
03F306 (B5)	880719	1500.00	3.80	135.00	236.00	8.00	34.00	< 0.20	< 0.20	< 0.20	< 0.20	2920.00
03F306 (B5)	881021	475.00	2.00	90.00	55.00	< 1.00	25.00	< 0.50	2.00	< 0.50	1.10	1400.00
03F306 (B5)	890106	450.00	1.30	55.00	75.00	3.60	18.00	< 1.00	< 1.00	< 1.00	1.50	300.00
03F306 (B5)	890316	1200.00	< 10.00	170.00	150.00	< 10.00	33.00	< 10.00	< 10.00	< 10.00	< 10.00	2800.00
03F306 (B5)	890420	960.00 J	1.00 J	330.00 J	200.00 J	3.20 J	39.00 J	1.30 J	0.90 J	0.40 J	0.70 J	2800.00 J
03F306 (B5)	890420	1400.00 J	2.00 J	290.00 J	150.00 J	3.10 J	100.00 J	1.10 J	0.90 J	0.40 J	0.80 J	2700.00 J
03F306 (B5)	890719	800.00	< 5.00	300.00	130.00	< 5.00	30.00	< 25.00	< 5.00	< 5.00	< 5.00	2200.00
03F306 (B5)	891023	940.00	< 20.00	290.00	130.00	< 20.00	< 20.00	< 100.00	< 20.00	< 20.00	< 20.00	2700.00
03F306 (B5)	900118	1200.00	< 40.00	220.00	170.00	< 40.00	< 40.00	< 200.00	< 40.00	< 40.00	< 40.00	3300.00
03F306 (B5)	900508	1100.00	2.40	250.00	120.00	3.30	33.00	< 0.50	2.20	< 0.50	1.40	4200.00
03F306 (B5)	900713	1500.00	< 50.00	340.00	190.00	< 10.00	32.00	< 75.00	< 25.00	< 15.00	< 50.00	4700.00
03F306 (B5)	900713	1400.00	< 50.00	350.00	200.00	< 10.00	33.00	< 75.00	< 25.00	< 15.00	< 50.00	4900.00
03F306 (B5)	901219	1373.84	< 1.00	< 1.00	< 0.78	< 0.50		< 1.90	< 0.72		< 1.00	6437.77
03F306 (B5)	910319	1600.00	< 250.00	< 250.00	< 200.00	< 130.00		< 480.00	< 180.00	< 75.00 T	< 250.00	7000.00
03F306 (B5)	910605	1600.00	< 200.00	< 200.00	< 160.00	< 100.00		< 380.00	< 140.00	< 60.00 T	< 200.00	6400.00
03F306 (B5)	910905	1500.00	< 250.00	< 250.00	< 200.00	< 130.00		< 480.00	< 180.00	< 75.00 R	< 250.00	7200.00

03F307 (B6)	871117	480.00	3.00	60.00	48.00	< 0.20	18.00	< 0.20	< 0.20	< 0.20	3.00	2370.00
03F307 (B6)	871215	90.80	1.80	110.00	45.00	4.10	16.30	< 0.20	13.10	0.40	1.70	3275.00
03F307 (B6)	880112	786.00	< 4.00	61.40	103.00	< 4.00	27.00	< 4.00	131.00	< 4.00	< 4.00	3300.00
03F307 (B6)	880428	550.00	< 4.00	100.00	75.00	< 4.00	31.00	< 4.00	< 4.00	< 4.00	< 4.00	3400.00
03F307 (B6)	880719	893.00	2.00	69.00	82.00	5.00	22.00	< 0.20	< 0.20	< 0.20	2.30	2860.00
03F307 (B6)	880719	887.00	1.90	76.00	66.00	5.00	22.00	< 0.20	< 0.20	< 0.20	2.30	3020.00
03F307 (B6)	881021	400.00	1.00	70.00	55.00	3.20	18.00	< 0.50	1.80	< 0.50	1.40	3200.00
03F307 (B6)	881021	605.00	1.20	55.00	70.00	2.80	17.00	< 0.50	2.00	< 0.50	1.50	2900.00
03F307 (B6)	890316	900.00	< 10.00	64.00	98.00	< 10.00	59.00	< 10.00	< 10.00	< 10.00	< 10.00	4174.00
03F307 (B6)	890420	530.00	2.00	150.00	83.00	3.90	23.00	1.00	0.60	0.20	2.20	3600.00
03F307 (B6)	890719	620.00	< 4.00	200.00	100.00	< 4.00	25.00	< 20.00	< 4.00	< 4.00	< 4.00	2400.00
03F307 (B6)	890719	640.00	< 4.00	210.00	100.00	< 4.00	25.00	< 20.00	< 4.00	< 4.00	< 4.00	2400.00
03F307 (B6)	891023	590.00	< 20.00	170.00	82.00	< 20.00	< 20.00	< 100.00	< 20.00	< 20.00	< 20.00	3300.00
03F307 (B6)	900119	570.00	< 20.00	91.00	110.00	< 20.00	20.00	< 100.00	< 20.00	< 20.00	< 20.00	2700.00
03F307 (B6)	900508	550.00	2.30	130.00	80.00	3.40	22.00	< 0.50	1.20	< 0.50	1.50	3200.00
03F307 (B6)	900713	570.00	< 50.00	160.00	130.00	< 10.00	< 25.00	< 75.00	< 25.00	< 15.00	< 50.00	2800.00
03F307 (B6)	901219	1410.92	< 1.00	912.43	111.70	480.20		< 1.90	< 0.72		< 1.00	3422.75
03F307 (B6)	901219	407.83	1054.81	< 1.00	114.86	< 0.50		< 1.90	< 0.72		1087.20	2864.81
03F307 (B6)	910319	470.00	< 100.00	< 100.00	91.00	< 50.00		< 190.00	< 72.00	< 30.00 T	< 100.00	2900.00
03F307 (B6)	910606	340.00	< 100.00	< 100.00	94.00	< 50.00		< 190.00	< 72.00	< 30.00 T	< 100.00	2500.00
03F307 (B6)	910905	360.00	< 100.00	< 100.00	86.00	< 50.00		< 190.00	< 72.00	< 30.00 R	< 100.00	2700.00

Notes: J - concentration estimated U - analyte not detected

Table 20

1991 Influent/Effluent Sampling Summary

TABLE 20

1991 SAMPLING SUMMARY ($\mu\text{g/l}$)
SHUT DOWN SEQUENCE

<u>Compound</u>	<u>Average Influent</u>	<u>Range Influent</u>	<u>Average Effluent</u>	<u>Range Effluent</u>
Vinyl Chloride	BD	BD	BD	BD
1,1-dichloroethene	18.52	BD - 54	BD	BD
Trans-1,2-dichloroethene	BD	BD	BD	BD
1,1-dichloroethane	25.5	BD - 51.6	BD	BD
Cis-1,2-dichloroethene				
Chloroform	BD	BD - 1.61	BD	BD
1,1,1-trichloroethane	622	315 - 2900	BD	BD
1,2-dichloroethane	BD	BD - 2.6	BD	BD
Trichloroethene	1,661	1300 - 2000	0.93	BD - 3.48
1,1,2-trichloroethane	BD	BD - 1.26	BD	BD
Tetrachloroethene	BD	BD - 1.92	BD	BD

Note:

BD - Below Detection Limits. BD assumed zero for averaging purposes.

Table 21

**Historical Metals and Cyanide Concentrations
for TGRS Treatment System**

TABLE 21
HISTORICAL METALS AND CYANIDE CONCENTRATIONS FOR TGRS TREATMENT SYSTEM
 CONCENTRATION: UG/L

WELL	DATE	AS	BA	CD	CR	CU	CYN	HG	NI	PB	ZN
TGRSE	871111	< 1.00	69.00	< 5.00	< 10.00	< 25.00		< 0.40	< 40.00	4.00	33.00
TGRSE	871201	1.00	297.00	< 5.00	< 10.00	< 25.00		< 0.40 T	< 40.00	11.00	17.10
TGRSE	871229	< 1.00	72.00	< 5.00	< 10.00	< 25.00	< 5.00	2.80 T	< 40.00	< 3.00	39.00
TGRSE	880119	1.00	250.00	< 5.00	< 10.00	105.00	< 5.00	< 0.40 T	< 40.00	13.00	170.00
TGRSE	880428	7.60	294.00	< 5.00	< 10.00	126.00	< 5.00	< 0.40	< 40.00	14.00	240.00
TGRSE	880428	4.00	310.00	< 5.00	< 10.00	54.00	< 5.00	< 0.40	139.00	10.00	200.00
TGRSE	880524	0.11	364.00	< 5.00	< 10.00	35.00	< 23.00	< 0.40	< 40.00	15.00	291.00
TGRSE	880622	11.00	466.00	12.00	28.00	97.00	< 5.00	< 0.40	42.00	26.00	339.00
TGRSE	880719	2.00	63.00	< 5.00	< 10.00	25.00	< 5.00	< 0.40	< 40.00	4.00	58.00
TGRSE	880825	4.00	123.00	< 5.00	< 10.00	117.00	< 5.00	< 0.40	40.00	8.00	88.00
TGRSE	880921	2.00	138.00	< 5.00	< 10.00	124.00	< 5.00	< 0.40	< 40.00	13.00	80.00
TGRSE	881024	1.00	89.00	< 5.00	< 10.00	< 25.00	< 5.00	< 0.40	< 40.00	5.00	26.00
TGRSE	890420	3.00	300.00	0.30	1.00	80.00	< 10.00	< 0.20	< 50.00	2.00 J	130.00
TGRSE	890719	< 2.00	500.00 J	0.20	8.00 J	10.00 U	< 10.00	< 0.20 UJ	< 50.00	< 1.00 UJ	140.00 U
TGRSE	890719	< 2.00	200.00 J	0.20	2.00 J	20.00 U		< 0.20 UJ	< 50.00	1.00 J	190.00 U
TGRSE	891012	< 50.00	570.00	< 8.00	< 9.00	140.00	< 10.00	< 0.20	< 16.00	2.00	390.00
TGRSE	900119	< 5.00	600.00	< 8.00	< 9.00	47.00	< 10.00	< 0.20	< 16.00	3.00	< 360.00 U
TGRSE	900410	< 2.00	300.00	< 10.00	< 100.00	50.00	< 17.00 UJ	< 0.20	< 50.00	1.00	< 130.00 U
TGRSE	900508	< 0.00	70.00	< 10.00	< 10.00	< 10.00	< 10.00	< 0.00 UJ	< 20.00	< 0.00 UJ	< 10.00
TGRSE	900713	< 0.00	< 200.00	< 10.00	< 100.00	40.00	20.00	< 0.00	< 50.00	< 100.00	720.00
TGRSE	900814	< 0.00	600.00	0.30	< 0.00	180.00	< 10.00	< 0.00	< 50.00	20.00	390.00
TGRSE	900912	< 2.00	530.00	0.10	2.00	89.00	< 10.00	< 0.20	< 21.00	< 1.00	< 320.00 U
TGRSE	901015	< 6.01	1810.00	< 0.37	< 2.50	12.40		< 0.74	< 5.32	< 1.26	68.06
TGRSE	901113	< 6.01	153.00	< 0.37	< 2.50	< 1.56		< 0.74	< 5.32	< 1.26	< 25.00
TGRSE	901211	< 6.01	130.40	< 0.37	< 2.50	< 1.56		< 0.74	< 5.32	< 1.26	< 25.00
TGRSE	910111	< 6.01	120.00	< 0.37	< 2.50	5.23		< 0.74	< 5.32	< 1.26	31.50
TGRSE	910111		105.00	< 5.00	< 15.00	< 20.00			< 63.10	< 100.00	
TGRSE	910213	< 6.01	157.26	< 5.00	< 15.00	37.15		< 0.74	< 5.32	< 1.26	53.92
TGRSE	910319	< 6.01	415.00	< 5.00	< 15.00	113.00	< 8.17	< 0.74	< 5.32	< 1.26	164.00
TGRSE	910319								< 63.10	< 100.00	
TGRSE	910410	< 6.01	141.00	< 5.00	< 15.00	29.10	< 8.17		< 5.32	1.51	311.00
TGRSE	910507	< 6.01	103.00	< 5.00	< 15.00	< 20.00	< 8.17		< 5.32	< 1.26	21.40
TGRSE	910604	< 6.01	92.70	< 5.00	< 15.00	< 20.00	< 8.17	< 0.74	< 63.10	< 100.00	13.20

NOTE: CONCENTRATION ESTIMATED
 U - ANALYTE NOT DETECTED
 T - CONCENTRATION ESTIMATED, HOLDING TIME EXCEEDED

TABLE 21
HISTORICAL METALS AND CYANIDE CONCENTRATIONS FOR TGRS TREATMENT SYSTEM
 CONCENTRATION: UG/L

WELL	DATE	AS	BA	CD	CR	CU	CYN	HG	NI	PB	ZN
TGRSE	910604								< 5.32	< 1.26	
TGRSE	910702	< 6.01	215.00	< 5.00	< 15.00	35.10	< 8.17	< 0.74	< 63.10	< 100.00	381.00
TGRSE	910702								< 5.32	< 1.26	
TGRSE	910806	< 6.01	109.00	< 5.00	< 15.00	< 20.00	< 8.17	< 0.74	< 63.10	< 1.26	857.00
TGRSE	910806									< 100.00	
TGRSE	910905	< 6.01	101.00	< 5.00	< 15.00	< 20.00	< 8.17	< 0.74	< 5.32	< 1.26	31.50
TGRSE	910905								< 63.10	< 100.00	

NOTE: CONCENTRATION ESTIMATED

U - ANALYTE NOT DETECTED

T - CONCENTRATION ESTIMATED, HOLDING TIME EXCEEDED

Table 22

Total Phosphorus and Ortho Phosphate Concentrations

TABLE 22
TOTAL PHOSPHORUS AND ORTHO PHOSPHATE CONCENTRATIONS
 CONCENTRATION: UG/L

<i>LOCATION</i>	<i>DATE</i>	<i>TOTAL PHOSPHORUS</i>	<i>ORTHO PHOSPHATE</i>
TGRSE	870112	107.0	48.0 T
TGRSE	870112	106.0	45.0 T
TGRSE	871117	60.0	37.0 T
TGRSE	871208	47.0	34.0
TGRSE	880428	1560.0	0.0
TGRSE	880428	1080.0	0.0
TGRSE	880503	0.0	38.0
TGRSE	880503	0.0	36.0
TGRSE	880503	0.0	43.0
TGRSE	880503	0.0	37.0
TGRSE	880524	624.0	38.0
TGRSE	880622	1840.0	30.0
TGRSE	880719	67.0	47.0
TGRSE	880719	6.0	< 5.0
TGRSE	880825	338.0	41.0
TGRSE	880921	70.0	29.0
TGRSE	881024	54.0	32.0
TGRSE	890420	510.0	40.0
TGRSE	890523	110.0	20.0
TGRSE	890613	190.0	50.0
TGRSE	890719	210.0 J	40.0
TGRSE	890719	50.0 J	40.0
TGRSE	890815	220.0	40.0
TGRSE	890912	290.0	< 20.0 UJ
TGRSE	891012	120.0	50.0 J
TGRSE	891114	90.0	50.0
TGRSE	891212	960.0	880.0
TGRSE	900119	140.0	50.0
TGRSE	900213	70.0	80.0
TGRSE	900313	170.0	80.0
TGRSE	900410	190.0	100.0
TGRSE	900508	80.0	50.0
TGRSE	900508	50.0	90.0
TGRSE	900612	120.0 J	120.0
TGRSE	900713	220.0	40.0
TGRSE	900814	120.0	40.0
TGRSE	900912	120.0	70.0
TGRSE	901113	76.6	
TGRSE	901211		183.1
TGRSE	901214	177.0	
TGRSE	910111	75.8	34.7
TGRSE	910213	43.5	26.8
TGRSE	910319	530.0	
TGRSE	910326		33.8
TGRSE	910410	78.6	26.0
TGRSE	910507	74.5	32.8
TGRSE	910604	35.1	26.7
TGRSE	910702	61.4	
TGRSE	910806	56.9	< 10.3
TGRSE	910808		68.4
TGRSE	910905	36.5	35.2

NOTES:

J - CONCENTRATION ESTIMATED
 U - ANALYTE NOT DETECTED
 T - CONCENTRATION ESTIMATED, HOLDING TIME EXCEEDED

Table 23

**Target Volatile Organic Compounds
Building 103 VOC Remediation**

TABLE 23

**TARGET VOLATILE ORGANIC COMPOUNDS
BUILDING 103 VOC REMEDIATION**

1. trans-1,2-dichloroethylene
2. trichloroethylene
3. 1,1-dichloroethylene
4. 1,1-dichloroethane
5. chloroform
6. 1,1,1-trichloroethane
7. tetrachloroethylene
8. cis-1,2-dichloroethylene
- 9 vinyl chloride
10. 1,2-dichloroethane
11. 1,1,2-trichloroethane
12. carbon tetrachloride
13. methylene chloride
14. 1,2-dichloroethene

Table 24

**Effluent Target Compounds
Building 103 VOC Remediation**

TABLE 24
EFFLUENT TARGET COMPOUNDS
BUILDING 103 VOC REMEDIATION

Monthly

Total Phosphorus
Ortho Phosphate

pH

Quarterly

METALS:

Chromium
Copper
Lead
Zinc

Annually

Hazardous Substance List

VOCs
Semi-Volatiles
Metals
PCB/Pesticides

Table 25

Building 103, Groundwater Elevations

TABLE 25
BUILDING 103, TCAAP
GROUNDWATER ELEVATIONS

WELL ID	12/06/88	03/29/89	06/07/89	09/08/89	11/21/89	01/03/90	05/07/90	07/03/90	10/02/90	3/06/91	6/04/91	9/03/91
01U047										875.31	877.70	876.16
01U048										875.01	877.77	876.26
01U052										876.00	878.93	877.80
01U065										874.93	876.70	875.94
01U128										872.41	875.96	873.78
01U601	883.84	884.13	883.90	883.90		882.89	883.74	884.21	883.85	883.25	885.07	884.01
01U602										883.45	884.05	883.56
01U603	876.07	875.88	877.38	878.19		876.36	877.61	878.62	877.92	876.42	879.13	877.48
01U604	875.16	874.51	876.13	877.11		876.17	876.37	877.25	877.01	876.27	878.03	876.51
01U605	875.99	DRY	877.45	877.04		DRY	876.45	878.64	877.67	DRY	879.08	877.81
01U607	885.18	887.00	884.70	885.91		882.31	885.25	885.33	884.08	883.59	886.34	884.77
01U608										883.31	884.17	883.46
01U609	882.99	882.67	883.15	883.17		882.44	n/a	883.43	883.38	882.54	883.94	883.59
01U611	883.43	882.52	NM	NM		889.36	883.27	883.88	883.54	882.99	884.54	883.72
01U612	877.03	DRY	NM	877.25		DRY	877.25	877.71	877.21	DRY	878.29	877.28
01U613	NM	885.29	NM	884.46		881.84	883.66	884.20	883.22	882.53	884.74	884.48
01U615	874.52	874.27	875.04	876.62		874.61	874.79	876.19	876.59	874.72	877.45	875.96
01U616	878.69	876.68	878.20	879.23		878.57	878.79	880.46	881.05	878.51	881.55	880.38
01U617	875.17	874.66	875.99	877.08		875.15	875.64	877.20	877.24	875.44	878.20	876.77
01U618	877.34	877.05	878.59	879.70		877.06	877.37	879.42	879.70	877.01	880.80	880.85
01U619	881.54	881.48	882.15	882.05		880.43	881.14	882.32	882.14	880.45	883.56	882.04
01U620	876.19	875.84	877.27	878.61		876.06	876.33	878.23	878.60	876.03	879.55	876.11
01U621	876.04	875.39	877.03	877.04		875.82	876.35	878.20	878.21	875.97	879.30	877.78
01U622										DRY	882.60	882.61
01U623	875.84	875.62	876.27	877.10		875.97	875.87	876.74	877.58	875.90	876.86	877.22
01U624A	DRY	DRY	DRY	878.33	DRY	DRY	DRY	877.83	878.25	DRY	879.12	877.59
01U624B	875.89	875.54	876.84	878.24	876.46	875.83	876.04	877.82	878.23	875.81	879.06	877.58
01U624C	875.88	875.52	876.83	878.23	876.45	875.81	876.03	877.79	878.21	875.80	879.04	877.55
01U624D	875.89	875.54	876.86	878.24	876.47	875.84	876.05	877.80	878.23	875.81	879.04	877.55
01U625A	876.57	875.49	876.48	878.01	877.26	876.65	876.85	878.42	878.80	876.66	879.68	878.20
01U625B	876.55	874.75	875.71	877.28	877.30	876.60	876.80	878.40	878.77	876.68	879.72	878.20
01U625C	876.55	874.74	875.70	877.28	877.30	876.60	876.80	878.42	878.77	876.68	879.72	878.20
01U625D	876.56	874.76	875.71	877.28	877.31	876.59	876.78	878.42	878.75	876.67	879.72	878.20
01U626A	875.55	874.15	875.56	876.99	876.99	876.75	877.22	877.99	878.06	877.07	878.99	877.58
01U626B	875.68	874.41	875.28	876.87	876.63	875.88	876.13	877.65	877.93	876.07	878.96	877.43
01U626C	875.78	874.47	875.37	876.95	876.66	875.91	876.13	877.69	877.99	876.07	879.03	877.48
01U626D	875.85	874.51	875.42	876.99	876.71	875.97	876.19	877.76	878.05	876.11	879.07	877.53
01U627A	876.58	874.70	876.78	877.83	878.06	878.41	878.70	878.96	878.85	878.79	879.74	878.63
01U627B	876.08	874.66	875.73	877.16	877.01	876.22	876.48	878.05	878.26	876.43	879.28	877.76
01U627C	876.03	874.65	875.64	877.10	876.88	876.09	876.37	877.97	878.21	876.26	879.19	877.69
01U627D	876.07	874.63	875.67	877.13	876.82	876.15	876.39	877.98	878.20	876.28	879.22	877.70
01U628A	875.88	875.06	876.95	877.65	876.08	875.71	876.54	878.16		875.81	878.85	877.55
01U628B	876.02	875.33	877.00	877.85	876.37	875.89	876.55	878.20		876.03	879.02	877.67
01U628C	875.72	875.21	876.58	877.65	876.30	875.67	876.13	877.76		875.86	878.77	877.33
01U628D	875.72	875.19	876.55	877.65	876.24	875.66	876.12	877.76		875.85	878.78	877.33

Notes: All elevations are in mean sea level.
 NM : Not Measured.

Table 26

**Building 103, Monitoring Well
Quarterly Sampling Results**

TABLE 26
Building 103, Tcaap
 1991 Annual Assessment Report
 Monitoring Well Quarterly Sampling Results
 concentration: ug/L

WELL	DATE	C12DCE	C2H3CL	CH2CL2	11DCE	11DCLE	12DCE	T12DCE	CHCL3	12DCLE	111TCE	TRCLE	CCL4	112TCE	TCLEE
OW104 (01U604)	08/13/87	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND
	12/01/87	ND	ND	1.00	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND
	02/29/88	1.00	ND	ND	ND	1.50	NA	ND	ND	ND	ND	0.60	ND	NA	ND
	05/26/88	1.80	ND	ND	ND	2.00	NA	ND	ND	ND	ND	1.50	ND	ND	ND
	05/08/90	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	05/08/90 Dup	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	03/05/91	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OW111 (01U611)	08/13/87	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/87	3900	120 *	ND	ND	74	NA	ND	ND	ND	ND	110000	ND	NA	ND
	03/01/88	1800	ND	ND	ND	ND	NA	ND	ND	ND	33	38000	ND	NA	ND
	05/26/88	1500	ND	77	ND	ND	NA	ND	ND	ND	ND	60000	ND	ND	ND
	05/08/90	3300	ND	ND	ND	ND	NA	ND	ND	ND	ND	35000	ND	ND	ND
	03/05/91	NA	ND	ND	ND	ND	3900	ND	ND	ND	ND	40000	ND	ND	ND
OW115 (01U615)	05/08/90	1200	ND	ND	ND	ND	NA	270	ND	ND	ND	6500	ND	ND	ND
	03/05/91	NA	ND	ND	ND	ND	950	160	ND	ND	ND	8800	ND	ND	ND
OW117 (01U617)	08/13/87	6.20	ND	NA	0.50	1.90	NA	ND	ND	ND	ND	1.40	NA	ND	ND
	12/01/87	6.50	ND	ND	ND	3.20	NA	ND	ND	ND	ND	1.40	ND	NA	ND
	02/29/88	3.40	ND	ND	0.30	1.40	NA	ND	ND	ND	ND	1.10	ND	NA	ND
	05/26/88	4.00	ND	ND	ND	1.70	NA	ND	ND	ND	ND	1.90	ND	ND	ND
	05/26/88 Dup.	4.00	ND	ND	0.40	2.00	NA	ND	ND	ND	ND	2.00	ND	ND	ND
	05/08/90	4.90	ND	ND	0.40	0.80	NA	0.40	ND	ND	ND	2.00	ND	ND	ND
	07/03/90	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	10/02/90	4.80	ND	NA	ND	0.50	NA	0.50	ND	ND	ND	2.10	ND	ND	ND
	03/05/91	NA	ND	ND	ND	ND	3.33	ND	ND	ND	ND	1.17	ND	ND	ND
	06/10/91	NA	ND	ND	ND	ND	3.68	ND	ND	0.68	ND	1.08	ND	ND	ND
	09/03/91	NA	ND	ND	ND	ND	4.32	NA	ND	ND	ND	1.71	ND	ND	ND
	09/03/91 Dup	NA	ND	ND	ND	ND	4.35	NA	ND	ND	ND	1.80	ND	ND	ND

TABLE 26
Building 103, Tcaap
1991 Annual Assessment Report
Monitoring Well Quarterly Sampling Results
concentration: ug/L

<u>WELL</u>	<u>DATE</u>	<u>C12DCE</u>	<u>C2H3CL</u>	<u>CH2CL2</u>	<u>11DCE</u>	<u>11DCLE</u>	<u>12DCE</u>	<u>T12DCE</u>	<u>CHCL3</u>	<u>12DCLE</u>	<u>111TCE</u>	<u>TRCLE</u>	<u>CCL4</u>	<u>112TCE</u>	<u>TCLEB</u>
OW118	08/13/87	2.50	ND	NA	0.60	2.40	NA	ND	ND	ND	ND	7.70	NA	ND	ND
(01U618)	11/30/87	2.30	ND	ND	ND	ND	NA	2.30	ND	ND	ND	8.60	ND	NA	ND
	11/30/87	2.40	ND	ND	ND	ND	NA	2.40	ND	ND	ND	8.80	ND	NA	ND
	02/29/88	1.50	ND	ND	ND	ND	NA	ND	ND	ND	0.60	8.90	ND	NA	ND
	02/29/88 Dup	1.40	ND	ND	ND	ND	NA	ND	ND	ND	ND	4.50	ND	NA	ND
	05/26/88	2.40	ND	ND	ND	ND	NA	ND	ND	ND	ND	7.00	ND	ND	ND
	05/08/90	1.30	ND	ND	ND	0.30	NA	ND	ND	ND	ND	6.00	ND	ND	ND
	03/05/91	NA	ND	ND	ND	ND	0.79	ND	ND	ND	ND	4.97	ND	ND	ND
OW119	05/08/90	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	2.50	ND	ND	ND
(01U619)	03/05/91	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.76	ND	ND	ND
OW121	05/08/90	ND	ND	1.20	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
(01U621)	07/03/90	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	10/02/90	ND	ND	NA	ND	ND	NA	ND	ND	ND	ND	1.17	ND	ND	ND
	03/05/91	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.35
	03/05/91 Dup	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/10/91	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/03/91	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND

ND = Not detected above method detection limit.

NA = Not analyzed

NS = Not sampled (well cover corroded in place)

* = Vinyl chloride & dichlorodifluoromethane co-elute. Compound calculated as dichlorodifluoromethane.

Compound too low to confirm.

See Table 2 for abbreviations of chemicals

Table 27

Building 103, Treatment System Concentrations

TABLE 27
BUILDING 103, TCAAP
TREATMENT SYSTEM CONCENTRATIONS

WELL	DATE	C12DCE	C2H3CL	CH2CL2	I1DCE	I1DCLE	I2DCE	T12DCE	CHCL3	I2DCLE	I11TCE
EFF	901002	36	< 3.8	< 1	< 0.3	< 0.5		3.9	< 0.5	< 0.2	< 1.2
EFF	901002	36	< 1.5	< 2.5	< 0.75	0.3		3.6	< 1.2	< 0.5	< 0.5
EFF	901106	32	< 3	< 2	< 0.6	< 0.4		2.8	< 1	< 0.2	< 1
EFF	901106	18	< 1.5	< 1	< 0.3	< 0.2		0.8	< 0.5	< 0.4	< 0.5
EFF	901204	< 0.5	< 1.5	< 1	< 0.3	< 0.2		< 0.3	< 0.5	< 0.2	< 0.5
EFF	901204	< 0.5	< 1.5	< 1	< 0.3	< 0.2		< 0.3	< 0.5	< 0.2	< 0.5
EFF	910121		< 1.9	< 3.2	< 1	< 0.78	0.592		< 0.72	< 0.5	< 1
EFF	910121		< 1.9	< 3.2	< 1	< 0.78	< 0.5		< 0.72	< 0.5	< 1
EFF	910208		< 1.9	< 3.2	< 1	< 0.78	< 0.5		< 0.72	< 0.5	< 1
EFF	910208		< 1.9	< 3.2	< 1	< 0.78	< 0.5		< 0.72	< 0.5	< 1
EFF	910305	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10
EFF	910305										
EFF	910402	< 0.5	< 1.5	< 1	< 0.3	< 0.2		< 0.3	< 0.5	< 0.2	< 0.5
EFF	910402	< 0.5	< 1.5	< 1	< 0.3	< 0.2		< 0.3	< 0.5	< 0.2	< 0.5
EFF	910507		< 1.9	< 3.2	< 1	< 0.78	< 0.5	< 0.3	< 0.72	< 0.5	< 1
EFF	910507		< 1.9	< 3.2	< 1	< 0.78	< 0.5	< 0.3	< 0.72	< 0.5	< 1
EFF	910604		< 1.9	< 3.2	< 1	< 0.78	< 0.5	< 0.3	< 0.72	< 0.5	< 1
EFF	910604		< 1.9	< 3.2	< 1	< 0.78	< 0.5	< 0.3	< 0.72	< 0.5	< 1
EFF	910702		< 1.9	< 3.2	< 1	< 0.78	< 0.5		< 0.72	< 1	< 1
EFF	910702		< 1.9	< 3.2	< 1	< 0.78	< 0.5		< 0.72	< 1	< 1
EFF	910808	3.5	< 1.5	< 2	< 0.3	< 0.4		< 0.6	< 0.5	0.4	< 1
EFF	910808	2.3	< 3	< 1	< 0.6	< 0.2		< 0.3	< 1	< 0.4	1.4
EFF	910903	< 0.5	< 1.5	< 1	< 0.3	< 0.2		< 0.3	< 0.5	< 0.2	< 0.5
EFF	910903	< 0.5	< 1.5	< 1	< 0.3	< 0.2		< 0.3	< 0.5	< 0.2	< 0.5
INF	901002	89	< 15	17	< 3	< 2		19	< 5	< 2	< 5
INF	901106	55	< 7.5	< 5	< 1.5	< 1		9.6	< 2.5	< 1	< 2.5
INF	901204	69	< 15	< 10	< 3	< 2		14	< 5	< 2	< 5
INF	910121		< 9.5	< 16	< 5	< 3.9	< 30		< 3.6	< 2.5	7
INF	910208		< 19	< 32	< 10	< 7.8	35		< 7.2	< 5	< 10
INF	910305		< 1.9	< 3.2	< 1	< 0.78	23.8	2.78	< 0.72	< 0.5	< 1
INF	910402	25	< 1.5	< 1	< 0.3	< 0.2		3.6	< 0.5	< 0.2	< 0.5
INF	910507		< 1.9	< 3.2	< 1	< 0.78	30.1	10.6	< 0.72	< 0.5	< 1
INF	910604		< 1.9	< 3.2	< 1	< 0.78	31	7.8	< 0.72	< 0.5	< 1
INF	910702		< 19	< 32	< 10	< 7.8	46		< 7.2	< 10	< 10
INF	910808	62	< 7.5	< 5	< 1.5	1.3		7.6	< 2.5	< 1	< 2.5
INF	910903	47	< 3.8	2.9	< 0.75	< 0.5		8.6	< 1.2	< 0.5	< 1.2

concentration: ug/l

TABLE 27
BUILDING 103, TCAAP
TREATMENT SYSTEM CONCENTRATIONS

WELL	DATE	CCL4	TRCLE	TCLEE	P4	PO4ORT	CR	CU	PB	ZN
EFF	901002	1.1	120	< 1	210	60	< 100	10	< 100	< 10
EFF	901002	1.2	100	< 2.5						
EFF	901106	< 0.3	39	< 1	240	80				
EFF	901106	< 0.6	63	< 2						
EFF	901204	< 0.3	< 0.5	< 1	100	40				
EFF	901204	< 0.3	< 0.5	< 1						
EFF	910121	< 1.3	0.778	< 1	140	88.9				
EFF	910121	< 1.3	0.778	< 1						
EFF	910208	< 1.3	< 0.5	< 1	130	54.5				
EFF	910208	< 1.3	< 0.5	< 1						
EFF	910305	< 10	< 10	< 10	89.3	51.8	< 15	< 20	< 100	< 13
EFF	910305								< 1.26	
EFF	910402	< 0.3	< 0.5	< 1	120	74.2				
EFF	910402	< 0.3	< 0.5	< 1						
EFF	910507	< 1.3	0.884	< 1	81.2	37.9				
EFF	910507	< 1.3	0.841	< 1						
EFF	910604	< 1.3	< 0.5	< 1	43.2	< 20	< 15	< 20	< 100	21
EFF	910604	< 1.3	< 0.5	< 1					< 1.26	
EFF	910702	< 1.3	1.17	< 1	93.2	90				
EFF	910702	< 1.3	1.12	< 1						
EFF	910808	< 0.6	12	< 2	98.3	71.1				
EFF	910808	< 0.3	14	< 1						
EFF	910903	< 0.3	< 0.5	< 1	100	40.5	< 15	< 20	< 1.26	17
EFF	910903	< 0.3	< 0.5	< 1						
INF	901002	< 3	460	< 10						
INF	901106	< 1.5	270	< 5						
INF	901204	< 3	300	< 10						
INF	910121	< 6.5	150	< 5						
INF	910208	< 13	190	< 10						
INF	910305	< 1.3	120	< 1						
INF	910402	< 0.3	120	< 1						
INF	910507	< 1.3	180	< 1						
INF	910604	< 1.3	160	< 1						
INF	910702	< 13	290	< 10						
INF	910808	< 1.5	300	< 5						
INF	910903	< 0.75	350	< 2.5						

concentration: ug/l

Table 28

Building 103, Effluent Priority Pollutants

TABLE 28
Building 103, TCAAP
 1991 ANNUAL RESULTS
 EFFLUENT PRIORITY POLLUTENTS
 (3/5/91)

VOLATILE FRACTION	<u>COMPOUND</u>	<u>CONCENTRATION (ug/l)</u>
	CHLOROMETHANE	< 10
	BROMOMETHANE	< 10
	VINYL CHLORIDE	< 10
	CHLOROETHANE	< 10
	METHYLENE CHLORIDE	< 10
	ACETONE	17
	CARBON DISULFIDE	< 10
	1,1-DICHLOROETHENE	< 10
	1,1-DICHLOROETHANE	< 10
	CIS-1,1-DICHLOROETHENE	< 10
	CHLOROFORM	< 10
	1,2-DICHLOROETHANE	< 10
	2-BUTANONE	< 10
	1,1,1-TRICHLOROETHANE	< 10
	CARBON TETRACHLORIDE	< 10
	VINYL ACETATE	< 10
	BROMODICHLOROMETHANE	< 10
	1,2-DICHLOROPROPANE	< 10
	CIS-1,3-DICHLOROPROPENE	< 10
	TRICHLOROETHENE	< 10
	DIBROMOCHLOROMETHANE	< 10
	1,1,2-TRICHLOROETHANE	< 10
	BENZENE	< 10
	TRANS-1,3-DICHLOROPROPENE	< 10
	BROMOFORM	< 10
	4-METHYL-2-PENTANONE	< 10
	2-HEXANONE	< 10
	TETRACHLOROETHENE	< 10
	1,1,2,2-TETRACHLOROETHANE	< 10
	TOLUENE	< 10
	CHLOROBENZENE	< 10
	ETHYLBENZENE	< 10
	STYRENE	< 10
	TOTAL XYLENES	< 10
	TRANS-1,2-DICHLOROETHENE	< 10

TABLE 28
Building 103, TCAAP
 1991 ANNUAL RESULTS
 EFFLUENT PRIORITY POLLUTENTS
 (3/5/91)

METALS	<u>COMPOUND</u>	<u>CONCENTRATION (ug/l)</u>
	ALUMINUM	< 107
	ANTIMONY	< 37.9
	ARSENIC	< 6.01
	LEAD	< 1.26/100
	SELENIUM	< 75/14.9/14.9
	SILVER	< 0.5
	THALLIUM	< 2.5/100
	BARIUM	86
	BERYLLIUM	< 2.5
	CADMIUM	< 5
	CALCIUM	71000
	CHROMIUM	< 15
	COBALT	< 25
	COPPER	< 20
	IRON	1331
	MAGNESIUM	15204
	MANGANESE	805
	NICKEL	< 63.1
	POTASSIUM	2647
	SODIUM	48900
	VANADIUM	< 20
	ZINC	< 13
	MERCURY	0.74
	MOLYBDENUM	< 30.9

TABLE 28
Building 103, TCAAP
 1991 ANNUAL RESULTS
 EFFLUENT PRIORITY POLLUTENTS
 (3/5/91)

SEMI-VOLATILES FRACTION	<u>COMPOUND</u>	<u>CONCENTRATION (ug/l)</u>
	PHENOL	< 10
	BIS(2-CHLOROETHYL)ETHER	< 10
	2-CHLOROPHENOL	< 10
	1,3-DICHLOROBENZENE	< 10
	1,4-DICHLOROBENZENE	< 10
	BENZYL ALCOHOL	< 10
	1,2-DICHLOROBENZENE	< 10
	2-METHYLPHENOL	< 10
	BIS(2-CHLOROISOPROPYL)ETHER	< 10
	4-METHYLPHENOL	< 10
	N-NITROSO-DI-N-PROPYLAMINE	< 10
	HEXACHLOROETHANE	< 10
	NITROBENZENE	< 10
	ISOPHORONE	< 10
	2-NITROPHENOL	< 10
	2,4-DIMETHYLPHENOL	< 10
	BENZOIC ACID	< 10
	BIS(2-CHLOROETHOXY)METHANE	< 10
	2,4-DICHLOROPHENOL	< 10
	1,2,4-TRICHLOROBENZENE	< 10
	NAPHTHALENE	< 10
	4-CHLOROANILINE	< 10
	HEXACHLOROBUTADIENE	< 10
	4-CHLORO-3-METHYLPHENOL	< 10
	2-METHYLNAPHTHALENE	< 10
	HEXACHLOROCYCLOPENTADIENE	< 10
	2,4,6-TRICHLOROPHENOL	< 10
	2,4,5-TRICHLOROPHENOL	< 10
	2-CHLORONAPHTHALENE	< 10
	2-NITROANILINE	< 10
	DIMETHYL PHTHALATE	< 10
	ACENAPHTHYLENE	< 10
	3-NITROANILINE	< 10
	ACENAPHTHENE	< 10
	2,4-DINITROPHENOL	< 10
	4-NITROPHENOL	< 10
	DIBENZOFURAN	< 10
	2,4-DINITROTOLUENE	< 10
	2,6-DINITROTOLUENE	< 10
	DIETHYLPHTHALATE	< 10
	4-CHLOROPHENYL-PHENYLEETHER	< 10

TABLE 28
 Building 103, TCAAP
 1991 ANNUAL RESULTS
 EFFLUENT PRIORITY POLLUTENTS
 (3/5/91)

SEMI-VOLATILES FRACTION	<u>COMPOUND</u>	<u>CONCENTRATION (ug/l)</u>
	FLUORENE	< 10
	4-NITROANILINE	< 10
	4,6-DINITRO-2-METHYLPHENOL	< 10
	N-NITROSODIPHENYLAMINE	< 10
	4-BROMOPHENYL-PHENYLETHER	< 10
	HEXACHLOROBENZENE	< 10
	PENTACHLOROPHENOL	< 10
	PHENANTHRENE	< 10
	ANTHRACENE	< 10
	DI-N-BUTYLPHTHALATE	< 10
	FLUORANTHENE	< 10
	PYRENE	< 10
	BUTYLBENZYLPHTHALATE	< 10
	3,3-DICHLOROBENZIDINE	< 10
	BENZO(A)ANTHRACENE	< 10
	BIS(2-ETHYLHEXYL)PHTHALATE	12 B
	CHRYSENE	< 10
	DI-N-OCTYL PHTHALATE	< 10
	BENZO(B)FLUORANTHENE	< 10
	BENZO(K)FLUORANTHENE	< 10
	BENZO(A)PYRENE	< 10
	INDENO(1,2,3-CD)PYRENE	< 10
	DIBENZO(A,H)ANTHRACENE	< 10
	BENZO(G,H,I)PERYLENE	< 10

TABLE 28
Building 103, TCAAP
1991 ANNUAL RESULTS
EFFLUENT PRIORITY POLLUTENTS
(3/5/91)

	<u>COMPOUND</u>	<u>CONCENTRATION (ug/l)</u>
PESTICIDES/ PCBs	ALPHA-BHC	NA
	BETA-BHC	NA
	DELTA-BHC	NA
	GAMMA-BHC	NA
	HEPTACHLOR	NA
	ALDRIN	NA
	HEPTACHLOR EPOXIDE	NA
	ENDOSULFAN I	NA
	DIELDRIN	NA
	4,4-DDE	NA
	ENDRIN	NA
	ENDOSULFAN II	NA
	4,4-DDD	NA
	ENDOSULFAN SULFATE	NA
	4,4-DDT	NA
	METHOXYCHLOR	NA
	ENDRIN KETONE	NA
	ALPHA CHLORDANE	NA
	GAMMA CHLORDANE	NA
	TOXAPHENE	NA
	PCB-1016	NA
	PCB-1221	NA
	PCB-1232	NA
	PCB-1242	NA
	PCB-1248	NA
	PCB-1254	NA
	PCB-1260	NA

NA - NOT ANALYZED

Table 29

Building 502 1991 Site I Monitoring Data

TABLE 29
 BUILDING 502
 1991 SITE I MONITORING DATA
 (µg/l)

<u>Compound</u>	<u>01U640</u>	<u>01U640 Dup.</u>	<u>01U636</u>	<u>01U064</u>	<u>01U639</u>
1,1,1-trichloroethane	8.04	8.92	1.92	4.5	ND
1,1-dichloroethane	ND	ND	ND	14	ND
trans-1,2-dichloroethene	ND	ND	ND	13	ND
1,2-dichloroethene	ND	ND	ND	350	ND
trichloroethene	16.1	17.4	.755	14	1.07
Remaining VOCs	ND	ND	ND	ND	ND
PCB, All Arochlors	ND	ND	ND	-	-

Notes:

ND - Not Detected
 - - Not Analyzed

Table 30

FY 93 Groundwater Quality Monitoring Plan

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)											
			Q37			Q38			Q39			Q40		
			10/92	11/92	12/92	1/93	2/93	3/93	4/93	5/93	6/93	7/93	8/93	9/93
A	01U038		---	---	---	---	---	---	---	---	---	---	---	---
	01U039		---	---	---	---	---	1	---	---	---	---	---	---
	01U040		---	---	---	---	---	---	---	---	---	---	---	---
	01U041		---	---	---	---	---	---	---	---	---	---	---	---
	01U063		---	---	---	---	---	---	---	---	---	---	---	---
	01U067		---	---	---	---	---	---	---	---	---	---	---	---
	01U102		---	---	---	---	---	1,7	---	---	1,7	---	---	1
	01U103		---	---	---	---	---	1	---	---	---	---	---	1
	01U104		---	---	---	---	---	---	---	---	---	---	---	---
	01U105		---	---	---	---	---	1	---	---	---	---	---	---
	01U106		---	---	---	---	---	1	---	---	---	---	---	---
	01U107		---	---	---	---	---	---	---	---	---	---	---	---
	01U108		1	1	1	1	1	1	1	1	1	1	1	1
	01U109		---	---	---	---	---	---	---	---	---	---	---	---
	01U110		---	---	---	---	---	---	---	---	---	---	---	---
	01U115		---	---	---	---	---	1	---	---	1	---	---	1
	01U116		---	---	---	---	---	1	---	---	---	---	---	---
	01U117		---	---	---	---	---	1,7	---	---	1	---	---	1
	01U118		---	---	---	---	---	---	---	---	---	---	---	---
	01U119		---	---	---	---	---	1	---	---	---	---	---	---
	01U120		---	---	---	---	---	1	---	---	---	---	---	---
	01U125		---	---	---	---	---	1	---	---	---	---	---	---
	01U126		---	---	---	---	---	1	---	---	---	---	---	---
	01U127		---	---	---	---	---	1	---	---	---	---	---	---
	01U133		---	---	---	---	---	---	---	---	---	---	---	---
	01U135		---	---	---	---	---	1	---	---	---	---	---	---
	01U136		---	---	---	---	---	1	---	---	---	---	---	---
	01U137		---	---	---	---	---	1	---	---	---	---	---	---
	01U138		---	---	---	---	---	1	---	---	---	---	---	---
	01U139		---	---	---	---	---	1,7	---	---	---	---	---	1
	01U140		---	---	---	---	---	1,7	---	---	---	---	---	1
	01U141		---	---	---	---	---	1	---	---	---	---	---	---
	01U350(2)		1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
	01U901		---	---	---	---	---	1	---	---	---	---	---	1
	01U902		1	1	1	1	1	1,7	1	1	1	1	1	1
	03U023		---	---	---	---	---	1	---	---	---	---	---	---
	134318		---	---	---	---	---	---	---	---	---	---	---	---
	MNDOT		---	---	---	---	---	---	---	---	---	---	---	---

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)				
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93	
B	01U011		---	---	---	---	
	01U022		---	---	---	---	
	01U033		---	---	---	---	
	01U034		---	---	---	---	
	01U035		---	---	---	---	
	01U036		---	1	---	---	
	01U037		---	---	---	---	
	01U100		---	---	---	---	
	01U101		---	---	---	---	
	01U122		---	---	---	---	
	03U011		---	---	---	---	
	03U022		---	---	---	---	
	03U082(4)		---	---	---	---	
	C	01U043		---	---	---	---
		01U045(3)		---	4	---	---
01U046			---	---	---	---	
01U085			---	1	---	---	
03U024			---	---	---	---	
03U025			---	---	---	---	
03U083			---	1,7	---	---	
D	03U017		---	1(A)	---	---	
	03U018		---	1(A)	---	---	
	03U093		---	1(A)	---	1(A)	
	03U096		---	1(A)	---	---	
	03U316		---	1(A)	---	1(A)	
	03U317		---	1(A)	---	1(A)	
	03U716		---	---	---	---	
	03M017		---	1(A)	---	---	
	03L017		---	1(A)	---	---	
	03L018		---	1(A)	---	---	

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
E	03U015		---	1	---	---
	03U088		---	---	---	---
	03U089		---	1	---	---
	03U704		Refer to Gravel Pit Area			
F	03U019		---	1	---	---
	03U026		---	1	---	---
	03U090		Refer to Site 129-15			
	03U092		---	1	---	---
	03U112		---	1,4	---	---
	03U113		---	1	---	---
	03U114		---	1	---	---
	03U121		---	1,4	---	---
	03L113		---	1	---	---
	03L137		Refer to Bedrock Valley			
G	03U014		---	1(A)	---	---
	03U020		---	1(A)	---	---
	03U094		---	1(A)	---	---
	03U314		---	1(A)	---	1(A)
	03U315		---	1(A)	---	1(A)
	03U715		---	---	---	---
	03M020		---	1(A)	---	---
	03L014		---	---	---	---
	03L020		---	---	---	---
	04U020		---	1(A)	---	---
	PJ#074		---	---	---	---
PJ#508		Refer to Misc. Wells				

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
H	01U060		---	---	---	---
	01U098		---	1	---	---
	03U099		---	1	---	---
I	01U003		Refer to Site J			
	01U004		---	---	---	---
	01U053		Refer to Site J			
	01U054		---	---	---	---
	01U064		---	1(A)	---	---
	01U132		---	---	---	---
	01U631		---	---	---	---
	01U632		---	---	---	---
	01U634		---	---	---	---
	01U635		---	---	---	---
	01U636		---	1,5(A)	---	---
	01U638		---	---	---	---
	01U639		---	1(A)	---	---
	01U640		---	1,5(A)	---	---
	01U642		---	---	---	---
	01U652		---	---	---	---
	01U666		---	---	---	---
	01U667		---	---	---	---
	01U668		---	---	---	---
	01U675		---	---	---	---
	03U003		Refer to SW Boundary			
	03U004		---	1(A)	---	---
	03U027		---	1(A)	---	---
	03U028		---	1(A)	---	---
	03U029		---	1(A)	---	---
	03U030		---	1(A)	---	---
	03U078		Refer to SW Boundary			
	03U079		Refer to SW Boundary			
	03U301		---	1(A)	---	1(A)

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
I (CONT.)	03U647		---	---	---	---
	03U648		---	---	---	---
	03U658		---	1(A)	---	---
	03U659		---	1(A)	---	---
	03U672		Refer to SW Boundary			
	03U674		---	---	---	---
	03U675		---	---	---	---
	03U676		---	---	---	---
	03U703		Refer to SW Boundary			
	03U710		Refer to SW Boundary			
	03M003		Refer to SW Boundary			
	03M004		---	---	---	---
	03L003		Refer to SW Boundary			
	03L004		---	---	---	---
	03L027		---	---	---	---
	03L028		---	---	---	---
	03L029		---	---	---	---
	03L078		Refer to SW Boundary			
	03L079		Refer to SW Boundary			
	03L080		---	1(A)	---	---
	03F302		Refer to SW Boundary			
	03F303		Refer to SW Boundary			
	03F312		Refer to SW Boundary			
	04U003		Refer to SW Boundary			
	04U027		---	1(A)	---	---
	PJ#003		Refer to SW Boundary			
	PJ#027		---	---	---	---

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
J	01U003		---	---	---	---
	01U050		---	---	---	---
	01U051		---	---	---	---
	01U053		---	---	---	---
	01U054		---	---	---	---
	01U062		---	---	---	---
	01U524		---	---	---	---
	01U525		---	---	---	---
	01U526		---	1	---	---
	01U527		---	---	---	---
K	01U047		---	---	---	---
	01U048		---	---	---	---
	01U052		---	---	---	---
	01U065		---	---	---	---
	01U128		---	1(A)	---	---
	01U601		---	---	---	---
	01U602		---	---	---	---
	01U603		---	---	---	---
	01U604		---	1(A)	---	---
	01U605		---	---	---	---
	01U607		---	---	---	---
	01U608		---	---	---	---
	01U609		---	---	---	---
	01U611		---	1(A)	---	---
	01U612		---	---	---	---
	01U613		---	---	---	---
	01U615		---	1(A)	---	---
	01U616		---	---	---	---
	01U617		---	1(A)	---	1(A)
	01U618		---	1(A)	---	---
	01U619		---	1(A)	---	---
	01U620		---	---	---	---
	01U621		---	1(A)	---	1(A)
01U622		---	---	---	---	
01U623		---	---	---	---	

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)				
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93	
K (CONT.)	01U624		---	---	---	---	
	01U625		---	---	---	---	
	01U626		---	---	---	---	
	01U627		---	---	---	---	
	01U628		---	---	---	---	
	03U013		---	---	---	---	
	03U075		---	1(A)	---	---	
	03U076		---	---	---	---	
	03M013		---	---	---	---	
	03L013		---	---	---	---	
	129-3	03U087		---	1,4	---	---
		03U521		---	---	---	---
	129-5	01U072		---	---	---	---
03U097			---	1	---	---	
03U111			---	---	---	---	
03U129			---	---	---	---	
129-15	03U016		---	1	---	---	
	03U032		---	1	---	---	
	03U090		---	1	---	---	
	03U124		---	1	---	---	
	03L091		---	1	---	---	

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)				
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93	
SOUTHWEST BOUNDARY	01U050		Refer to Site J				
	01U051		Refer to Site J				
	01U053		Refer to Site J				
	01U062		---	---	---	---	
	01U803		---	---	---	---	
	01U805		---	---	---	---	
	01U806		---	---	---	---	
	01U807		---	---	---	---	
	03U001		---	---	---	---	
	03U002		---	---	---	---	
	03U003		---	1(A)	1(A)	1(A)	
	03U021		---	1(A)	---	---	
	03U077		---	1(A)	---	---	
	03U078		---	1(A)	---	---	
	03U079		---	1(A)	---	---	
	03U084		---	1(A)	---	---	
	03U671		---	1(A)	---	---	
	03U672		---	1(A)	---	1(A)	
	03U673		---	1(A)	---	1(A)	
	03U701		---	1(A)	---	---	
	03U702		---	1(A)	---	---	
	03U703		---	1(A)	---	---	
	03U708		---	1(A)	---	---	
	03U709		---	1(A)	---	---	
	03U710		---	1(A)	---	---	
	03U711		---	1(A)	---	1(A)	
	03U801		---	1(A)	---	---	
	03U803		---	---	---	---	
	03U804		---	1(A)	---	---	
	03U805		---	1(A)	---	---	
	03U806		---	1(A)	---	1(A)	
	234357	Phillips Pet.		Refer to Off-Post			

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
SOUTHWEST BOUNDARY (CONT.)	03M001		---	---	---	---
	03M002		---	---	---	---
	03M003		---	---	---	---
	03M713		---	1(A)	---	---
	03M802		---	1(A)	---	---
	03M806		---	1(A)	---	---
	03L001		---	1(A)	---	1(A)
	03L002		---	1(A)	---	---
	03L003		---	---	---	---
	03L021		---	1(A)	---	---
	03L077		---	1(A)	---	---
	03L078		---	1(A)	---	---
	03L079		---	1(A)	---	---
	03L084		---	1(A)	---	---
	03L673		---	1(A)	---	---
	03L802		---	1(A)	---	1(A)
	03L806		---	1(A)	---	1(A)
	03F302		---	1(A)	---	1(A)
	03F303		---	1(A)	---	1(A)
	03F304		---	1(A)	---	1(A)
	03F305		---	1(A)	---	1(A)
	03F306		---	1(A)	---	1(A)
	03F307		---	1(A)	---	1(A)
	03F308		---	1(A)	---	1(A)
	03F312		---	1(A)	---	1(A)

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
SOUTHWEST BOUNDARY (CONT.)	04U001		---	1(A)	---	1(A)
	04U002		---	1(A)	---	---
	04U003		---	1(A)	---	1(A)
	04U077		---	1(A)	---	---
	04U673		---	1(A)	---	1(A)
	04U701		---	1(A)	---	---
	04U702		---	1(A)	---	---
	04U708		---	1(A)	---	---
	04U709		---	1(A)	---	---
	04U711		---	1(A)	---	1(A)
	04U713		---	1(A)	---	---
	04U714		---	1(A)	---	1(A)
	04U802		---	1(A)	---	---
	04U806		---	1(A)	---	1(A)
	234319	Hide & Tallow #1	Refer to Off-Post			
	04J077		---	1(A)	---	---
	04J702		---	1(A)	---	---
	04J708		---	1(A)	---	---
	04J713		---	1(A)	---	---
	04J714		---	1(A)	---	1(A)
PJ#003		---	1(A)	---	---	
PJ#309		---	1(A)	---	1(A)	
PJ#310		---	1(A)	---	1(A)	
PJ#311		---	1(A)	---	1(A)	
PJ#313		---	1(A)	---	1(A)	
PJ#802		---	---	---	---	
PJ#806		---	1(A)	---	---	
GRAVEL PIT	03U704		---	1(A)	---	---
	03U705		---	1(A)	---	1(A)
	03U706		---	1(A)	---	---
	03U707		---	1(A)	---	---
	03L522		To Be Abandoned			
	03L523		To Be Abandoned			

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
BEDROCK VALLEY	03U005		---	1	---	---
	03M005		---	1	---	---
	03L005		---	1	---	---
	03L081		---	1	---	---
	03L137		---	---	---	---
	03L138		---	1	---	---
MISC. WELLS	01U012		---	---	---	---
	01U044		---	---	---	---
	01U130		Refer to SW Boundary Area			
	01U131		---	---	---	---
	03U006		---	---	---	---
	03U007(4)		---	---	---	---
	03U008		---	---	---	---
	03U009(4)		---	---	---	---
	03U010		---	---	---	---
	03U012		---	---	---	---
	03U031		---	1(A)	---	---
	03M007		---	---	---	---
	03M010		---	---	---	---
	03M012		---	---	---	---
	03L007(4)		---	---	---	---
	03L010		---	---	---	---
	03L012		---	---	---	---
	03L086		---	---	---	---
	04U007(4)		---	---	---	---
	04U012		---	---	---	---
	04U510(4)		---	---	---	---

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
MISC. WELLS (CONT.)	PJ#501		---	---	---	---
	PJ#502		---	---	---	---
	PJ#503		---	---	---	---
	PJ#506		---	---	---	---
	PJ#507		---	---	---	---
	PJ#508		---	---	---	---
OFF-POST	01U803		---	---	---	---
	01U807		---	---	---	---
	01U813		---	---	---	---
	01U901		Refer to Site A			
	01U902		Refer to Site A			
(Lacustrine) (Deposits)	01L811		---	---	---	---
	01L813		---	---	---	---
	01L816		---	---	---	---
	01L821		---	---	---	---
	01L822		---	---	---	---
	01L823		---	---	---	---
(Hillside) (Formation)	234353	Lentsch Ice	---	---	---	---
	234356	Nordquist P43	---	---	---	---
	234357	Phillips Pet.	---	---	---	---
	234425	Lee	Denied Access		---	---
	234430	Cmiel	---	---	---	---
	234463		---	---	---	---

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
OFF-POST (CONT.) (Upper) (Hillside) (Formation)	03U672		Refer to SW Boundary Area			
	03U673		Refer to SW Boundary Area			
	03U711		Refer to SW Boundary Area			
	03U801		Refer to SW Boundary Area			
	03U803		Refer to SW Boundary Area			
	03U804		Refer to SW Boundary Area			
	03U805		Refer to SW Boundary Area			
	03U806		Refer to SW Boundary Area			
	03U811		---	1	---	---
	03U815		---	---	---	---
	03U821		---	1	---	---
	03U822		---	1	---	---
	03U824		---	1	---	---
	03U831		---	1	---	---
03U832		---	1	---	---	
409550	PCA6U3	---	1	---	1	
409596	BS118U3	---	1	---	---	
(Middle) (Hillside) (Formation)	03M802		Refer to SW Boundary Area			
	03M806		Refer to SW Boundary Area			
	03M843		---	1	---	---
	03M848		---	1	---	---
(Lower) (Hillside) (Formation)	03L673		Refer to SW Boundary Area			
	03L802		Refer to SW Boundary Area			
	03L806		Refer to SW Boundary Area			
	03L809		---	1	---	---
	03L811		---	1	---	---
	03L813		---	---	---	---
	03L822		---	1	---	---
	03L832		---	1	---	---
03L841		---	1	---	---	

TABLE 30
FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
OFF-POST (CONT.)						
(Lower)	03L846		---	1	---	---
(Hillside)	03L848		---	1	---	---
(Formation)	03L853		---	1	---	---
	03L854		---	1	---	---
	03L856		---	1	---	---
	03L858		---	1	---	---
	03L859		---	1	---	---
	03L860		---	1	---	---
	03L861		---	1	---	---
	409546	PCA2L3	---	1	---	---
	409556	PCA4L3	---	1	---	---
	409557	PCA1L3	---	1	---	---
	409597	BS118L3	---	1	---	---
(St.)						---
(Peter)	200814	Amer. Linen	---	---	---	---
(Formation)						
(Prairie)	04U673		Refer to SW Boundary Area			
(du Chien)	04U711		Refer to SW Boundary Area			
(Formation)	04U802		Refer to SW Boundary Area			
	04U806		Refer to SW Boundary Area			
	04U821		---	1	---	---
	04U832		---	1	---	---
	04U841		---	1	---	---
	04U843		---	1	---	---
	04U844		---	1	---	---
	04U845		---	1	---	---
	04U846		---	1	---	---
	04U847		---	1	---	1
	04U848		---	1	---	---
	04U849		---	1	---	---

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
OFF-POST (CONT.)	04U850		---	1	---	---
	04U851		---	1	---	---
	04U852		---	1	---	---
	04U854		---	1	---	---
	04U855		---	1	---	---
	04U859		---	1	---	---
	04U860		---	1	---	---
	04U861		---	1	---	---
	04U871		---	1	---	---
	04U872		---	1	---	---
	04U875		---	1	---	---
	04U877		---	1	---	---
	04U879		---	1	---	---
	04U880		---	1	---	---
	04U881		---	1	---	---
	04U882		---	1	---	1
	04U883		---	1	---	---
	139035	Watergate Marina	---	---	---	---
	191942	Model Stone	---	---	---	---
	200154	UM Golf Course	---	---	---	---
	200524	St. Anthony #5	Denied Access			
	200803	St. Anthony #4	Denied Access			
	200804	St. Anthony #3	Denied Access			
	200812	Gross Golf	---	1	1	1
	206787	MV High School	---	1	---	---
	206791	New Brighton #7	---	1	---	---
	206793	New Brighton #3	---	1	---	---
	206797	New Brighton #6	---	1	---	---
	233221	Reuben Meats	---	1	---	---
	233533	Roselawn Cem.	---	---	---	---
	234319	Hide & Tallow #1	---	---	---	---
	234337	Mengelkoch #3	---	---	---	---
	234547	Hnywell Ridgway	---	1	---	---
	409547	PCA1U4	---	1	---	---
	409548	PCA2U4	---	1	---	---
	409549	PCA3U4	---	1	---	---
409555	PCA5U4	---	1	---	---	
500691	04U414	---	1	---	---	
508115	04U322	---	1	---	---	

TABLE 30

FISCAL YEAR 1993 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
OFF-POST (CONT.)						
(Prairie)	PJ#318		---	1	---	
(du Chien)	PJ#802		Refer to SW Boundary Area			
(/Jordan)	PJ#806		Refer to SW Boundary Area			
(Formation)	200148	Paper Calmerson	Pump Decommissioned - No Access			
(Jordan)	201082	NW Hospital	---	---	---	---
(Formation)						
(Unknown)	134318	Seutter	---	---	---	---
(Formation)	200264		---	---	---	---
	206688	Cloverpond	Denied Access			
	233222	Lowry Gr. Trail.	---	---	---	---
	234335	Mengelkoch #1	---	---	---	---
	234546	Hnywell Ridgway	---	1	---	---
	235539		---	---	---	---
	235735	Flour City Arch	---	---	---	---
	405651	Metal-Matic	---	1	---	---
	BOYLE		---	---	---	---

NOTES:

- (1) The numbers represent analytical parameter categories. The individual parameters within each category are outlined in Appendix E.
 - (2) The following metals; Arsenic, Barium, Cadmium, Chromium, Lead and Nickel are being sampled for and not the entire Category 2 parameter list.
 - (3) Just Total Phosphates from Category 4 will be analyzed.
 - (4) Monitoring for Category 1 to be conducted once every other year, with the next sampling event scheduled for FY 94.
- (A) Indicates that the sampling will be conducted by Alliant Techsystems, Inc.

Table 31

Interim Remedial Action Treatment System Monitoring

TABLE 31

INTERIM REMEDIAL ACTION (IRA) TREATMENT SYSTEM MONITORING

TGRS

<u>Location</u>	<u>Sampling Frequency</u>	<u>Parameters</u>
Treatment System Influent	Monthly	Cat. 1
Treatment System Effluent	Monthly	Cat. 1, Arsenic, Lead, Mercury, Cadmium, Chromium, Copper, Nickel, Zinc and pH
	Annually	Priority Pollutants

SITE A

<u>Location</u>	<u>Sampling Frequency</u>	<u>Parameters</u>
Treatment System Influent (Well 01U350)	Monthly	Cat. 1, Cat. 2, Total and Ortho Phosphorus, Nitrogen (nitrate + nitrite), zinc
Treatment System Effluent	Monthly	Cat. 1, Cat. 2, Total and Ortho Phosphorus, Nitrogen (nitrate + nitrite), zinc
Between Carbon Vessels of Treatment Plant	Monthly	Cat. 1, Cat. 2, Total and Ortho Phosphorus, Nitrogen (nitrate + nitrite), zinc

SITE K

<u>Location</u>	<u>Sampling Frequency</u>	<u>Parameters</u>
Treatment System Influent	Quarterly	CH ₂ CL ₂ , 111TCE, 11DCLE, T12DCE, TRCLE, CCL ₄
Treatment System Effluent	Monthly	Ortho and Total Phosphorus
	Quarterly	Lead, Zinc, Chromium, Copper, CH ₂ CL ₂ , 111TCE, 11DCLE, T12DCE, TRCLE, CCL ₄

Note: Parameter lists for Categories 1, 2, and 4 are presented in Appendix E.

Table 32

FY 93 Groundwater Level Monitoring Plan

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)											
			Q37			Q38			Q39			Q40		
			10/92	11/92	12/92	1/93	2/93	3/93	4/93	5/93	6/93	7/93	8/93	9/93
A	01U038		X	---	X	---	X	X	X	---	X	---	X	---
	01U039		X	---	X	---	X	X	X	---	X	---	X	---
	01U040		X	---	X	---	X	X	X	---	X	---	X	---
	01U041		X	---	X	---	X	X	X	---	X	---	X	---
	01U063		X	---	X	---	X	X	X	---	X	---	X	---
	01U067		X	---	X	---	X	X	X	---	X	---	X	---
	01U102		X	---	X	---	X	X	X	---	X	---	X	X
	01U103		X	---	X	---	X	X	X	---	X	---	X	---
	01U104		X	---	X	---	X	X	X	---	X	---	X	---
	01U105		X	---	X	---	X	X	X	---	X	---	X	---
	01U106		X	---	X	---	X	X	X	---	X	---	X	---
	01U107		X	---	X	---	X	X	X	---	X	---	X	---
	01U108		X	---	X	---	X	X	X	---	X	---	X	X
	01U109		X	---	X	---	X	X	X	---	X	---	X	---
	01U110		X	---	X	---	X	X	X	---	X	---	X	---
	01U115		X	---	X	---	X	X	X	---	X	---	X	X
	01U116		X	---	X	---	X	X	X	---	X	---	X	---
	01U117		X	---	X	---	X	X	X	---	X	---	X	---
	01U118		X	---	X	---	X	X	X	---	X	---	X	---
	01U119		X	---	X	---	X	X	X	---	X	---	X	---
	01U120		X	---	X	---	X	X	X	---	X	---	X	---
	01U125		X	---	X	---	X	X	X	---	X	---	X	---
	01U126		X	---	X	---	X	X	X	---	X	---	X	---
	01U127		X	---	X	---	X	X	X	---	X	---	X	---
	01U133		X	---	X	---	X	X	X	---	X	---	X	---
	01U135		X	---	X	---	X	X	X	---	X	---	X	---
	01U136		X	---	X	---	X	X	X	---	X	---	X	---
	01U350		X	---	X	---	X	X	X	---	X	---	X	X
	01U901		X	---	X	---	X	X	X	---	X	---	X	---
	01U902		X	---	X	---	X	X	X	---	X	---	X	X
	03U023		---	---	---	---	---	X	---	---	---	---	---	X (A)
	134318		---	---	---	---	---	---	---	---	---	---	---	---
	MNDOT		Not Accessible											

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)				
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93	
B	01U011		---	X	---	---	
	01U022		---	X	---	---	
	01U033		---	X	---	---	
	01U034		---	X	---	---	
	01U035		---	X	---	---	
	01U036		---	X	---	---	
	01U037		---	X	---	---	
	01U100		---	X	---	---	
	01U101		---	X	---	---	
	01U122		---	X	---	---	
	03U011		---	X	---	X(A)	
	03U022		---	X	---	X(A)	
	03U082		---	X	---	X(A)	
	C	01U043		---	X	---	---
		01U045		---	X	---	---
01U046			---	X	---	---	
01U085			---	X	---	---	
03U024			---	X	---	X(A)	
03U025			---	X	---	X(A)	
03U083			---	X	---	X(A)	
D	03U017		---	X(A)	---	X(A)	
	03U018		---	X(A)	---	X(A)	
	03U093		---	X(A)	---	X(A)	
	03U096		---	X(A)	---	X(A)	
	03U316		---	X(A)	---	X(A)	
	03U317		---	X(A)	---	X(A)	
	03U716		---	X(A)	---	X(A)	
	03M017		---	X(A)	---	X(A)	
	03L017		---	X(A)	---	X(A)	
	03L018		---	X(A)	---	X(A)	

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
E	03U015		---	X	---	X(A)
	03U088		---	X	---	X(A)
	03U089		---	X	---	X(A)
	03U704		Refer to Gravel Pit area			
F	03U019		---	X	---	X(A)
	03U026		---	X	---	---
	03U090		Refer to Site 129-15			
	03U092		---	X	---	X
	03U112		---	X	---	X(A)
	03U113		---	X	---	X(A)
	03U114		---	X	---	X
	03U121		---	X	---	---
	03L113		---	X	---	X(A)
	03L137		Refer to Bedrock Valley			
G	03U014		---	X(A)	---	X(A)
	03U020		---	X(A)	---	X(A)
	03U094		---	X(A)	---	X(A)
	03U314		---	X(A)	---	X(A)
	03U315		---	X(A)	---	X(A)
	03U715		---	X(A)	---	X(A)
	03M020		---	X(A)	---	X(A)
	03L014		---	X(A)	---	X(A)
	03L020		---	X(A)	---	X(A)
	04U020		---	X(A)	---	X(A)
	PJ#074		---	---	---	---
PJ#508		Refer to Misc. Wells				

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
H	01U060		---	X	---	---
	01U098		---	X	---	---
	03U099		---	X	---	---
I	01U003		Refer to Site J			
	01U004		---	---	---	---
	01U053		Refer to Site J			
	01U054		---	---	---	---
	01U064		---	X(A)	---	X(A)
	01U132		---	---	---	---
	01U631		---	---	---	---
	01U632		---	---	---	---
	01U634		---	---	---	---
	01U635		---	---	---	---
	01U636		---	X(A)	---	X(A)
	01U638		---	---	---	---
	01U639		---	X(A)	---	X(A)
	01U640		---	X(A)	---	X(A)
	01U642		---	---	---	---
	01U652		---	---	---	---
	01U666		---	---	---	---
	01U667		---	---	---	---
	01U668		---	---	---	---
	01U675		---	---	---	---
	03U003		Refer to SW Boundary			
	03U004		---	X(A)	---	X(A)
	03U027		---	X(A)	---	X(A)
	03U028		---	X(A)	---	X(A)
	03U029		---	X(A)	---	X(A)
	03U030		---	X(A)	---	X(A)
	03U078		Refer to SW Boundary			
	03U079		Refer to SW Boundary			
	03U301		---	X(A)	---	X(A)
	OW543U3		---	X(A)	---	X(A)

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
I (CONT.)	03U647		---	X(A)	---	X(A)
	03U648		---	X(A)	---	X(A)
	03U658		---	X(A)	---	X(A)
	03U659		---	X(A)	---	X(A)
	03U672		Refer to SW Boundary			
	03U674		---	X(A)	---	X(A)
	03U675		---	---	---	---
	03U676		---	---	---	---
	03U703		Refer to SW Boundary			
	03U710		Refer to SW Boundary			
	03M003		Refer to SW Boundary			
	03M004		---	X(A)	---	X(A)
	03L003		Refer to SW Boundary			
	03L004		---	X(A)	---	X(A)
	03L027		---	X(A)	---	X(A)
	03L028		---	X(A)	---	X(A)
	03L029		---	X(A)	---	X(A)
	03L078		Refer to SW Boundary			
	03L079		Refer to SW Boundary			
	03L080		---	X(A)	---	X(A)
	03F302		---	X(A)	---	X(A)
	03F303		---	X(A)	---	X(A)
	03F312		---	X(A)	---	X(A)
	04U003		Refer to SW Boundary			
	04U027		---	X(A)	---	X(A)
	PJ#003		Refer to SW Boundary			
	PJ#027		---	X(A)	---	X(A)

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
J	01U003		---	X	---	---
	01U050		---	X	---	---
	01U051		---	X	---	---
	01U053		---	X	---	---
	01U054		---	X	---	---
	01U062		---	X	---	---
	01U524		---	X	---	---
	01U525		---	X	---	---
	01U526		---	X	---	---
	01U527		---	X	---	---
K	01U047		---	X(A)	---	X(A)
	01U048		---	X(A)	---	X(A)
	01U052		---	X(A)	---	X(A)
	01U065		---	X(A)	---	X(A)
	01U128		---	X(A)	---	X(A)
	01U601		---	X(A)	---	X(A)
	01U602		---	X(A)	---	X(A)
	01U603		---	X(A)	---	X(A)
	01U604		---	X(A)	---	X(A)
	01U605		---	X(A)	---	X(A)
	01U607		---	X(A)	---	X(A)
	01U608		---	X(A)	---	X(A)
	01U609		---	X(A)	---	X(A)
	01U611		---	X(A)	---	X(A)
	01U612		---	X(A)	---	X(A)
	01U613		---	X(A)	---	X(A)
	01U615		---	X(A)	---	X(A)
	01U616		---	X(A)	---	X(A)
	01U617		---	X(A)	---	X(A)
	01U618		---	X(A)	---	X(A)
	01U619		---	X(A)	---	X(A)
	01U620		---	X(A)	---	X(A)
	01U621		---	X(A)	---	X(A)
	01U622		---	X(A)	---	X(A)
	01U623		---	X(A)	---	X(A)
	01U624		---	X(A)	---	X(A)
	01U625		---	X(A)	---	X(A)
	01U626		---	X(A)	---	X(A)
01U627		---	X(A)	---	X(A)	
01U628		---	X(A)	---	X(A)	

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
K (CONT.)	03U013		---	X(A)	---	X(A)
	03U075		---	X(A)	---	X(A)
	03U076		---	X(A)	---	X(A)
	03M013		---	X(A)	---	X(A)
	03L013		---	X(A)	---	X(A)
129-3	03U087		---	X	---	X(A)
	03U521		---	X	---	---
129-5	01U072		---	X	---	---
	03U097		---	X	---	---
	03U111		---	X	---	X(A)
	03U129		---	X	---	---
129-15	03U016		---	X	---	X(A)
	03U032		---	X	---	X
	03U090		---	X	---	X(A)
	03U124		---	X	---	X
	03L091		---	X	---	---
SOUTHWEST BOUNDARY	01U050		Refer to Site J			
	01U051		Refer to Site J			
	01U053		Refer to Site J			
	01U062		---	X	---	---
	01U803		---	---	---	---
	01U805		---	---	---	---
	01U806		---	---	---	---
	01U807		---	---	---	---
	03U001		---	X(A)	---	X(A)
	03U002		---	X(A)	---	X(A)
	03U003		---	X(A)	---	X(A)
	03U021		---	X(A)	---	X(A)
	03U077		---	X(A)	---	X(A)
	03U078		---	X(A)	---	X(A)
	03U079		---	X(A)	---	X(A)
03U084		---	X(A)	---	X(A)	

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)				
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93	
SOUTHWEST BOUNDARY (CONT.)	03U671		---	X(A)	---	X(A)	
	03U672		---	X(A)	---	X(A)	
	03U673		---	X(A)	---	X(A)	
	03U701		---	X(A)	---	X(A)	
	03U702		---	X(A)	---	X(A)	
	03U703		---	X(A)	---	X(A)	
	03U708		---	X(A)	---	X(A)	
	03U709		---	X(A)	---	X(A)	
	03U710		---	X(A)	---	X(A)	
	03U711		---	X(A)	---	X(A)	
	03U801		---	X(A)	---	X(A)	
	03U803		---	---	---	---	
	03U804		---	X(A)	---	X(A)	
	03U805		---	X(A)	---	X(A)	
	03U806		---	X(A)	---	X(A)	
	03U809		---	X(A)	---	X(A)	
	234357	Phillips Pet.	Refer to Off-Post				
	409550	PCA 6U3	---	X	---	X(A)	
		03M001		---	X(A)	---	X(A)
		03M002		---	X(A)	---	X(A)
		03M003		---	X(A)	---	X(A)
		03M713		---	X(A)	---	X(A)
		03M802		---	X(A)	---	X(A)
		03M806		---	X(A)	---	X(A)
		03L001		---	X(A)	---	X(A)
		03L002		---	X(A)	---	X(A)
		03L003		---	X(A)	---	X(A)
		03L021		---	X(A)	---	X(A)
		03L077		---	X(A)	---	X(A)
	03L078		---	X(A)	---	X(A)	
	03L079		---	X(A)	---	X(A)	
	03L084		---	X(A)	---	X(A)	
	03L673		---	X(A)	---	X(A)	
	03L802		---	X(A)	---	X(A)	
	03L806		---	X(A)	---	X(A)	

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)				
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93	
SOUTHWEST BOUNDARY (CONT.)	03F302		---	X(A)	---	X(A)	
	03F303		---	X(A)	---	X(A)	
	03F304		---	X(A)	---	X(A)	
	03F305		---	X(A)	---	X(A)	
	03F306		---	X(A)	---	X(A)	
	03F307		---	X(A)	---	X(A)	
	03F308		---	X(A)	---	X(A)	
	03F312		---	X(A)	---	X(A)	
	04U001		---	X(A)	---	X(A)	
	04U002		---	X(A)	---	X(A)	
	04U003		---	X(A)	---	X(A)	
	04U077		---	X(A)	---	X(A)	
	04U673		---	X(A)	---	X(A)	
	04U701		---	X(A)	---	X(A)	
	04U702		---	X(A)	---	X(A)	
	04U708		---	X(A)	---	X(A)	
	04U709		---	X(A)	---	X(A)	
	04U711		---	X(A)	---	X(A)	
	04U713		---	X(A)	---	X(A)	
	04U714		---	X(A)	---	X(A)	
	04U802		---	X(A)	---	X(A)	
	04U806		---	X(A)	---	X(A)	
	234319	Hide & Tallow #1	Refer to Off-Post				
	04J077		---	X(A)	---	X(A)	
	04J702		---	X(A)	---	X(A)	
	04J708		---	X(A)	---	X(A)	
	04J713		---	X(A)	---	X(A)	
	04J714		---	X(A)	---	X(A)	
	PJ#003		---	X(A)	---	X(A)	
	PJ#309		---	X(A)	---	X(A)	
	PJ#310		---	X(A)	---	X(A)	
	PJ#311		---	X(A)	---	X(A)	
	PJ#313		---	X(A)	---	X(A)	
PJ#802		---	X(A)	---	X(A)		
PJ#806		---	X(A)	---	X(A)		

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
GRAVEL PIT	03U704		---	X(A)	---	X(A)
	03U705		---	X(A)	---	X(A)
	03U706		---	X(A)	---	X(A)
	03U707		---	X(A)	---	X(A)
	03L522		To Be Abandoned			
	03L523		To Be Abandoned			
		Staff Guage 1		X(A)		X(A)
		Staff Guage 2		X(A)		X(A)
		Staff Guage 3		X(A)		X(A)
	BEDROCK VALLEY	03U005		---	X	---
03M005			---	X	---	---
03L005			---	X	---	---
03L081			---	X	---	---
03L137			---	X	---	X
03L138			---	X	---	X
MISC. WELLS		01U012		---	X	---
	01U044		---	X	---	---
	01U130		---	X	---	---
	01U131		---	---	---	---
	03U006		---	X	---	X(A)
	03U007		---	X	---	X(A)
	03U008		---	X	---	X(A)
	03U009		---	X	---	X(A)
	03U010		---	X	---	X(A)
	03U012		---	X(A)	---	X(A)
	03U031		---	X(A)	---	X(A)
	03M007		---	X	---	X(A)
	03M010		---	X	---	---
	03M012		---	X(A)	---	X(A)

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
MISC. WELLS (CONT.)	03L007		---	X	---	X(A)
	03L010		---	X	---	---
	03L012		---	X(A)	---	X(A)
	03L086		---	X	---	---
	04U007		---	X	---	X(A)
	04U012		---	X(A)	---	X(A)
	04U510		---	X	---	---
	PJ#501		---	---	---	---
	PJ#502		---	---	---	---
	PJ#503		---	---	---	---
	PJ#506		---	---	---	---
	PJ#507		---	---	---	---
	PJ#508		---	---	---	---
	OFF-POST (Lacustrine) (Deposits) (Hillside) (Formation)	01U803		---	---	---
01U807			---	---	---	---
01U813			---	---	---	---
01U901			Refer to Site A			
01U902			Refer to Site A			
01L811			---	X	---	---
01L813			---	X	---	---
01L816			---	X	---	---
01L821			---	X	---	---
01L822			---	X	---	---
01L823		---	X	---	---	
234353	Lentsch Ice	---	---	---	---	
234356	Nordquist P43	---	---	---	---	
234357	Phillips Pet.	---	---	---	---	
234425	Lee	Denied Access				
234430	Cmiel	---	---	---	---	
234463		---	---	---	---	

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
OFF-POST (CONT.)						
(Upper)	03U672		Refer to SW Boundary Area			
(Hillside)	03U673		Refer to SW Boundary Area			
(Formation)	03U711		Refer to SW Boundary Area			
	03U801		Refer to SW Boundary Area			
	03U803		Refer to SW Boundary Area			
	03U804		Refer to SW Boundary Area			
	03U805		Refer to SW Boundary Area			
	03U806		Refer to SW Boundary Area			
	03U811		---	X	---	---
	03U815		---	X	---	---
	03U821		---	X	---	---
	03U822		---	X	---	---
	03U824		---	X	---	---
	03U831		---	X	---	---
	03U832		---	X	---	---
	409550	PCA6U3	Refer to SW Boundary Area			
	409596	BS118U3	---	X	---	---
(Middle)	03M802		Refer to SW Boundary Area			
(Hillside)	03M806		Refer to SW Boundary Area			
(Formation)	03M843		---	X	---	X
	03M848		---	X	---	X

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
OFF-POST (CONT.)	03L673		Refer to SW Boundary Area			
	03L802		Refer to SW Boundary Area			
	03L806		Refer to SW Boundary Area			
(Lower (Hillside) (Formation)	03L809		---	X	---	X(A)
	03L811		---	X	---	---
	03L813		---	X	---	---
	03L822		---	X	---	---
	03L832		---	X	---	---
	03L841		---	X	---	X(A)
	03L846		---	X	---	---
	03L848		---	X	---	---
	03L853		---	X	---	---
	03L854		---	X	---	---
	03L856		---	X	---	---
	03L858		---	X	---	---
	03L859		---	X	---	---
	03L860		---	X	---	---
	03L861		---	X	---	---
	409546	PCA2L3	---	X	---	---
	409556	PCA4L3	---	X	---	---
	409557	PCA1L3	---	X	---	---
	409597	BS118L3	---	X	---	---
(St.) (Peter) (Formation)	200814	Amer. Linen	---	---	---	---
(Prairie) (du Chien) (Formation)	04U673		Refer to SW Boundary Area			
	04U711		Refer to SW Boundary Area			
	04U802		Refer to SW Boundary Area			
	04U806		Refer to SW Boundary Area			
	04U821		---	X	---	X
	04U832		---	X	---	---
	04U841		---	X	---	X(A)
	04U843		---	X	---	---
	04U844		---	X	---	---
	04U845		---	X	---	---
	04U846		---	X	---	---
	04U847		---	X	---	X
	04U848		---	X	---	---
	04U849		---	X	---	---

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
OFF-POST	04U850		---	X	---	---
(CONT.)	04U851		---	X	---	---
	04U852		---	X	---	---
	04U854		---	X	---	---
	04U855		---	X	---	---
	04U859		---	X	---	---
	04U860		---	X	---	---
	04U861		---	X	---	---
	04U871		---	X	---	---
	04U872		---	X	---	---
	04U875		---	X	---	---
	04U877		---	X	---	---
	04U879		---	X	---	---
	04U880		---	X	---	---
	04U881		---	X	---	---
	04U882		---	X	---	---
	04U883		---	X	---	---
	139035	Watergate Marina	---	---	---	---
	191942	Model Stone	---	---	---	---
	200154	UM Golf Course	---	---	---	---
	200524	St. Anthony #5	Denied Access			
	200803	St. Anthony #4	Denied Access			
	200804	St. Anthony #3	Denied Access			
	200812	Gross Golf	Not Accessible			
	206787	MV High School	Not Accessible			
	206791	New Brighton #7	Not Accessible			
	206793	New Brighton #3	Not Accessible			
	206797	New Brighton #6	---	X(2)	---	---
	233221	Reuben Meats	Not Accessible			
	233533	Roselawn Cem.	---	---	---	---
	234319	Hide & Tallow #1	---	---	---	---
	234337		---	---	---	---
	234547	Hnywell Ridgway	Not Accessible			
	409547	PCA1U4	---	X	---	---
	409548	PCA2U4	---	X	---	---
	409549	PCA3U4	---	X	---	X
	409555	PCA5U4	---	X	---	---
	500691	04U414	---	X	---	---
	508115	04U322	---	X	---	---

TABLE 32

FISCAL YEAR 1993 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q37 12/92	Q38 3/93	Q39 6/93	Q40 9/93
OFF-POST (CONT.)						
(Prairie)	PJ#318		---	X	---	---
(du Chien)	PJ#802		Refer to SW Boundary Area			
(/Jordan)	PJ#806		Refer to SW Boundary Area			
(Formation)	200148	Paper Calmerson	Pump Decommissioned - No Access			
(Jordan)	201082	NW Hospital	---	---	---	---
(Formation)						
(Unknown)	134318	Seutter	---	---	---	---
(Formation)	200264		---	---	---	---
	206688	Cloverpond	Denied Access			
	233222	Lowry Gr. Trail.	---	---	---	---
	234335	Mengelkoch #1	---	---	---	---
	234546	Hnywell Ridgway	Not Accessible			
	235539		---	---	---	---
	235735	Flour City Arch	---	---	---	---
	405651	Metal-Matic	Not Accessible			
	BOYLE		---	---	---	---

NOTES:

- (1) "X" denotes a water level measurement.
- (2) Water level will be measured if the wellhead is accessible.
- (A) Indicates that the sampling will be conducted by Alliant Technosystems, Inc.

Table 33

**National Pollutant Discharge Elimination System
(NPDES) Monitoring Plan**

TABLE 33

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MONITORING PLAN

SAMPLE LOCATIONS
(GRAB SAMPLING)
(See FCC DWG. No. 46814)

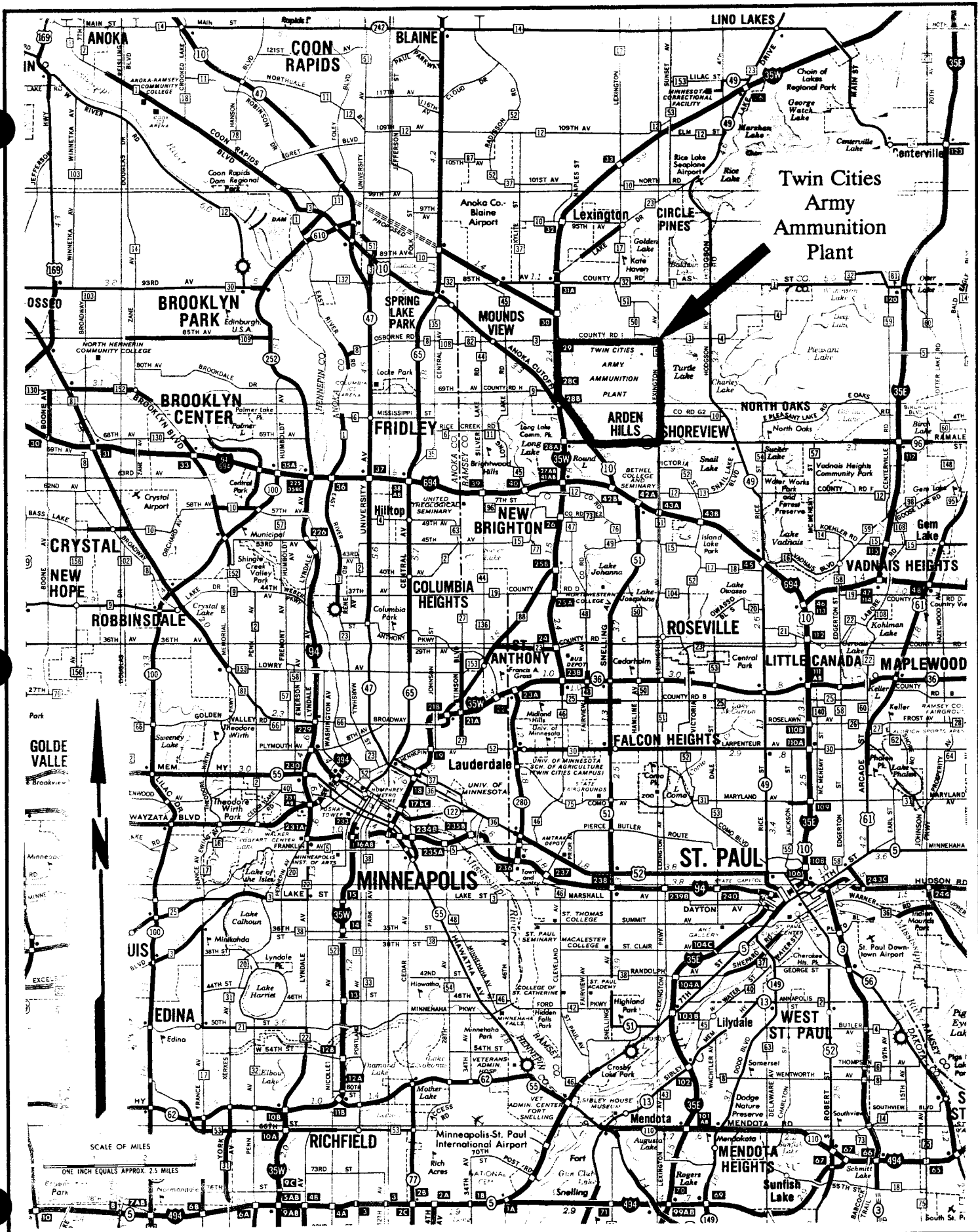
SAMPLE POINT >>>	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	FIELD	D.I.
***OLD DESIGNATION**>>	20500	20700	20200	20300	20400	20800	20100	20900	21000	21100	21200	21300	21400	21600	WATER	WATER			
	A	B	C	D	E	F	G	H	I	J	K	L	M	P					
	ROUND LAKE	RICE CREEK	BLDG 103/114	BLDG 113/115	BLDG 104/115	RICE CREEK	MARSDEN LAKE	RICE CREEK	RICE CREEK	CULVERT AREA	N INLET LEINGTM	MID INLET LEINGTM	S INLET LEINGTM	HARLINE	BLANK	BLANK			
ANALYSIS	UNITS	OUTFALL	IN	OUTFALL	OUTFALL	OUT	OUT	& LEI	& LONG LK	RUNOFF	RUNOFF	RUNOFF	RUNOFF	RUNOFF					
VOLUME	GAL/DAY	MMM	000	MMM	MMM	MMM	MMM	EST	EST	EST	EST	EST	EST	EST	III	III			
pH	-	MMM	000	MMM	MMM	MMM	MMM	000	000	000	AAA	AAA	AAA	AAA	MMM	MMM			
SUSPENDED SOLIDS	MG/L	MMM	000	MMM	MMM	MMM	MMM	000	000	000	AAA	AAA	AAA	AAA	MMM	MMM			
CHEMICAL OXYGEN DEMAND	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
TOTAL ORGANIC CARBON	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
BIOLOGICAL OXYGEN DEMAND	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
DISSOLVED OXYGEN	MG/L	MMM	000	MMM	MMM	MMM	MMM	000	000	000	AAA	AAA	AAA	AAA	MMM	MMM			
FECAL COLIFORM BACTERIA	No./100mL	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
OIL	MG/L	MMM	000	MMM	MMM	MMM	MMM	000	000	000	AAA	AAA	AAA	AAA	MMM	MMM			
AMMONIA	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
CYANIDE	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
CADMIUM	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
CHLORIDE	MG/L	MMM	000	MMM	MMM	MMM	MMM	000	000	000	AAA	AAA	AAA	AAA	MMM	MMM			
CHROMIUM (TOTAL)	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
COPPER	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
LEAD	MG/L	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	
MERCURY	ug/L	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	
NICKEL	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
PHOSPHORUS (TOTAL)	MG/L	MMM	000	MMM	MMM	MMM	MMM	000	000	000	AAA	AAA	AAA	AAA	MMM	MMM			
PHOSPHORUS (ORTHOPHOSPHATE)	MG/L	MMM	000	MMM	MMM	MMM	MMM	000	000	000	AAA	AAA	AAA	AAA	MMM	MMM			
SILVER	MG/L	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	
ZINC	MG/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
TRICHLOROETHYLENE	ug/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
1,1,1-TRICHLOROETHANE	ug/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
METHYLENE CHLORIDE	ug/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
1,1-DICHLOROETHYLENE	ug/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
1,1-DICHLOROETHANE	ug/L	000	000	000	000	000	000	000	000	000	AAA	AAA	AAA	AAA	000	000			
POLYCHLORINATED BIPHENYLS	ug/L	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	
GROSS ALPHA	pCur/L	000	000	AAA	000	AAA	000	000	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	000	
GROSS BETA	pCur/L	000	000	AAA	000	AAA	000	000	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	000	
GAMA SPECTRAL ANALYSIS	pCur/L	000	000	AAA	000	AAA	000	000	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	000	
24-HR pH METER/RECORDER	-	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	III	III			

III - No analysis required
 MMM - Analysis required monthly. At least two of the monthly samples are to be collected after/during rainfall of at least 0.5 inches
 000 - Analysis required quarterly
 AAA - Analysis required annually (May, 1990)
 EST - Estimated, Quarterly

FIGURES

Figures

Note: Figures 3-22 are simply reductions of Plan Sheets 5-24 and are intended to provide the reader with a general illustration of the groundwater flow and groundwater quality conditions. For detailed review of wells and data, the reader should refer to the plan sheets.



TWIN CITIES ARMY AMMUNITION PLANT

Site Location Map



Wenck

Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
Environmental Engineers Maple Plain, MN 55359

APRIL 1992

Figure 1

GROUNDWATER HYDROGRAPHS

TWIN CITIES ARMY AMMUNITION PLANT

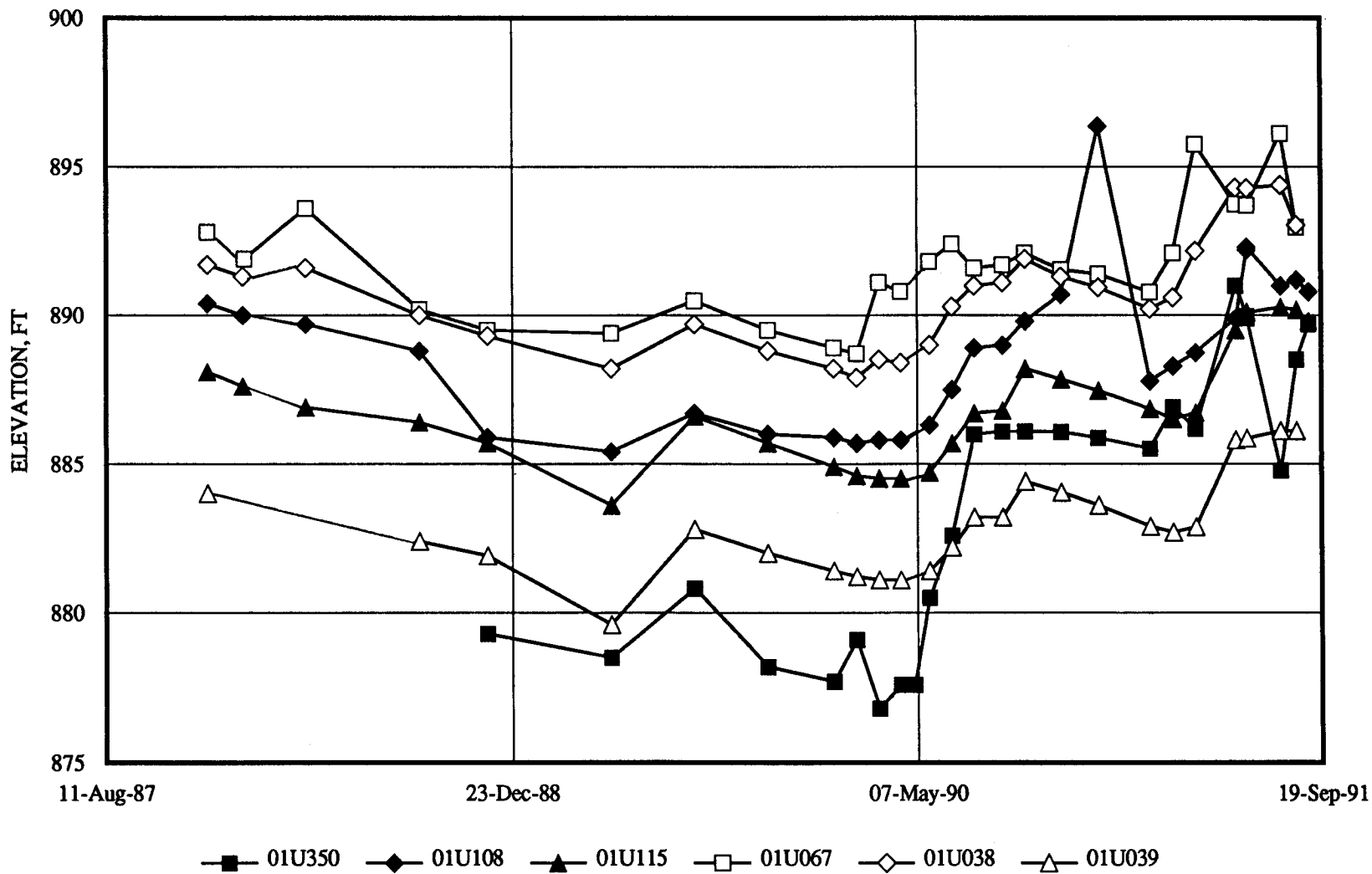
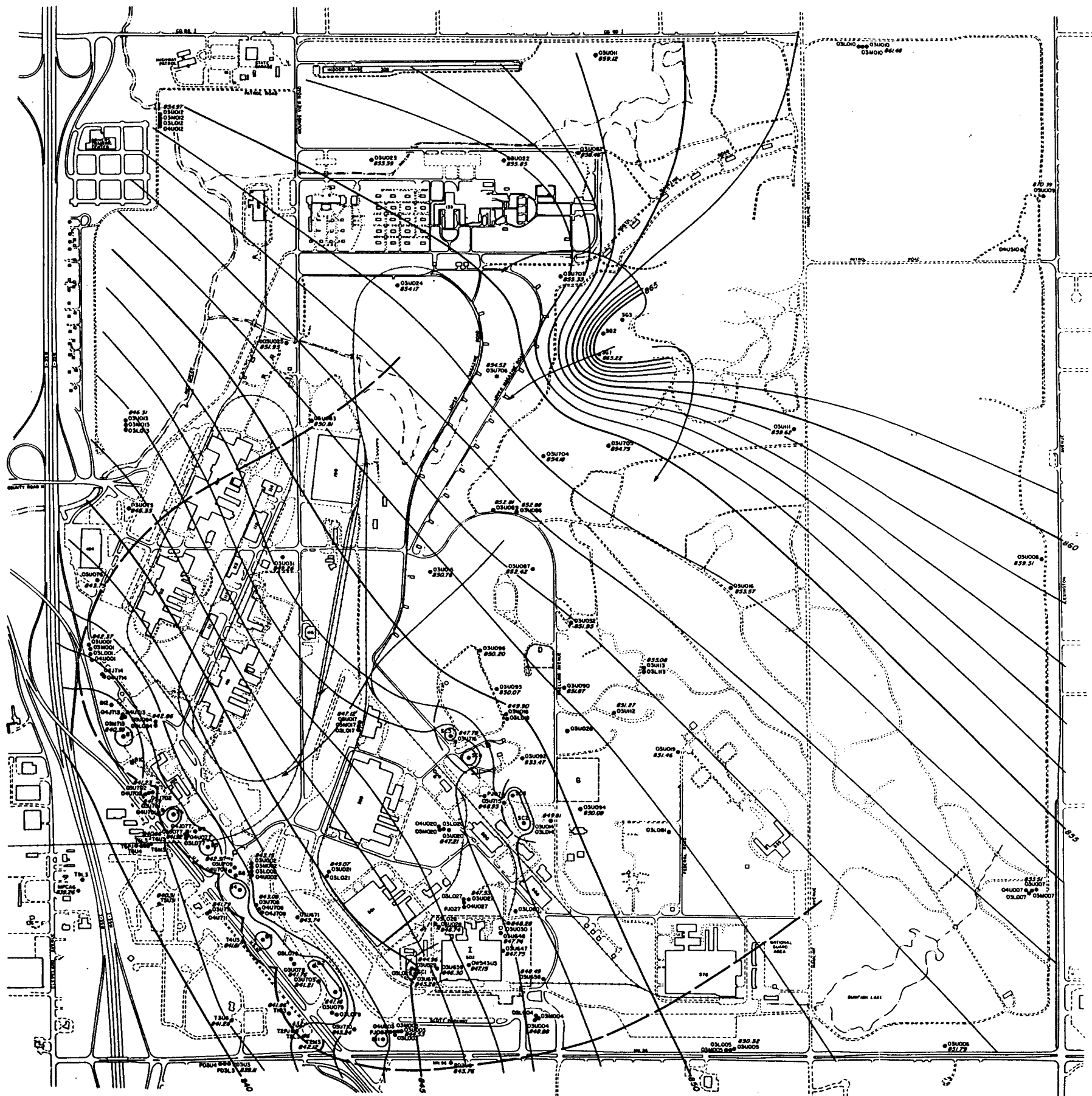


Figure 2 SITE A
WENCK ASSOCIATES, INC.



SCALE: 1" = 1200'

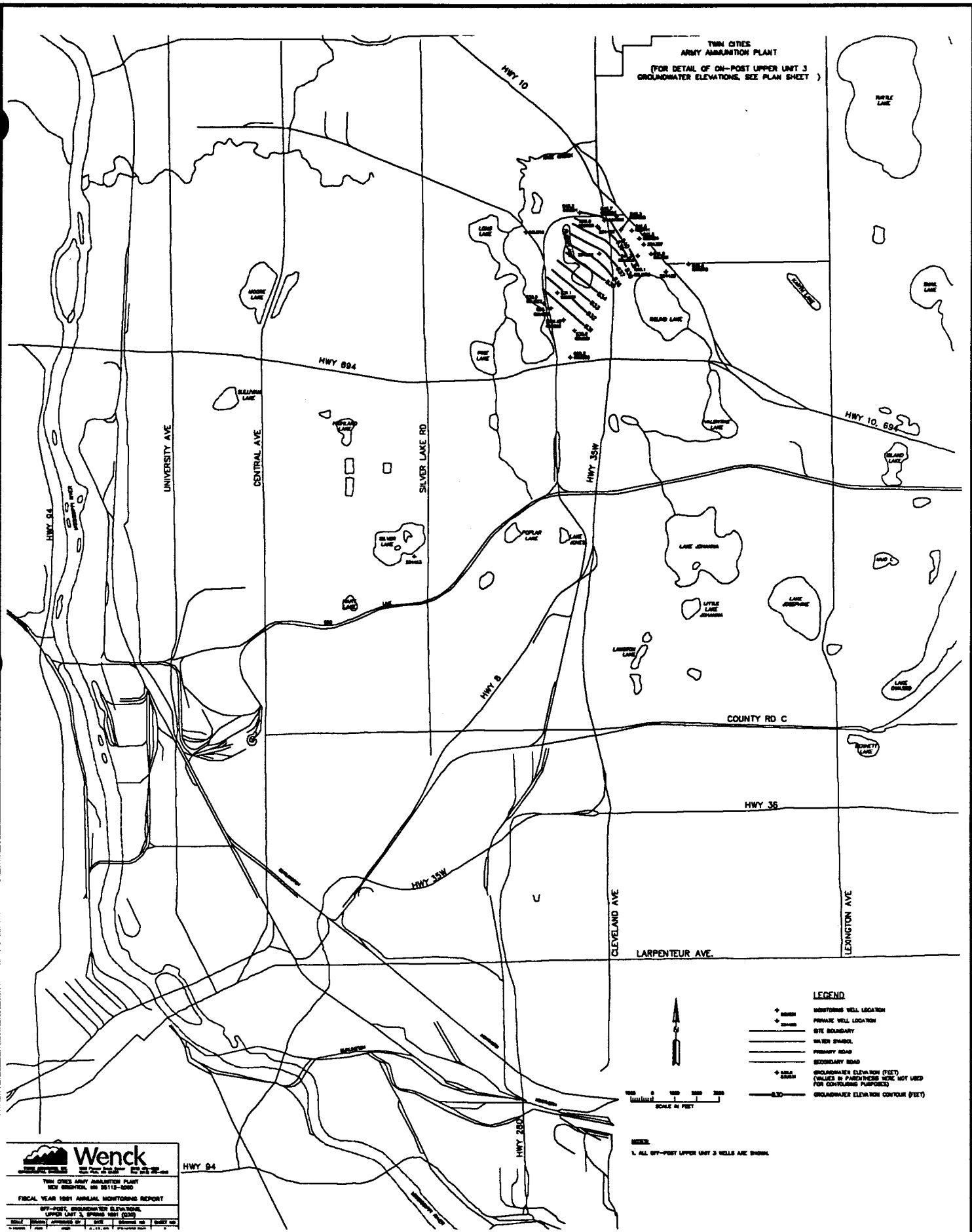
LEGEND

- 847.34 GROUNDWATER ELEVATION IN FEET AMSL (2-28-91)
- GROUNDWATER CONTOUR
- ← DIRECTION OF GROUNDWATER FLOW
- LIMIT OF CAPTURE

CRA

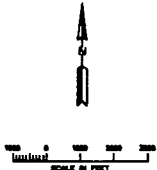
4530-40-23/01/92-M

figure 3
 UPPER UNIT 3 GROUNDWATER CONTOURS
 Twin Cities Army Ammunition Plant



TWIN CITIES
ARMY AMMUNITION PLANT
(FOR DETAIL OF ON-POST UPPER UNIT 3
GROUNDWATER ELEVATIONS, SEE PLAN SHEET)

- LEGEND**
- ◆ MONITORING WELL LOCATION
 - ◆ PRIVATE WELL LOCATION
 - SITE BOUNDARY
 - WATER BODIES
 - PRIMARY ROAD
 - SECONDARY ROAD
 - ◆ ELEVATION MARKER
 - GROUNDWATER ELEVATION (FEET) (UNLESS OTHERWISE NOTED, NOT USED FOR CONTOURING PURPOSES)
 - GROUNDWATER ELEVATION CONTOUR (FEET)



NOTE:
1. ALL OFF-POST UPPER UNIT 3 WELLS ARE SHOWN.

Wenck
WENCK ASSOCIATES, INC. 1800 PIONEER CREEK CENTER DRIVE MAPLE PLAIN, MN 55359

TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRUNSWICK, MN 56113-0000

FISCAL YEAR 1991 ANNUAL MONITORING REPORT

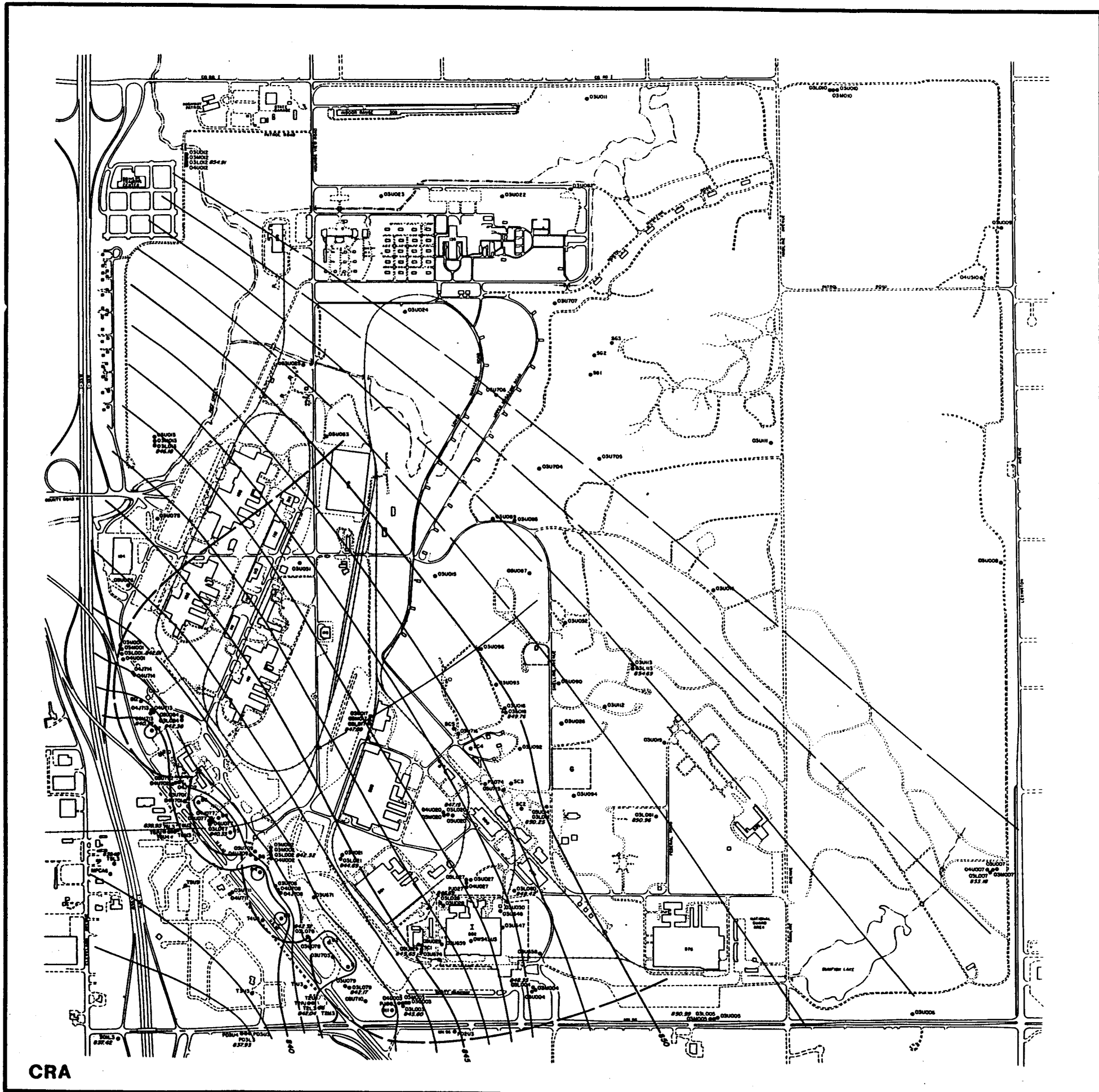
OFF-POST, GROUNDWATER ELEVATIONS,
 UPPER UNIT 3, SPRING 1991 (Q30)

SCALE: (UNLESS OTHERWISE NOTED) 1" = 1000' (AS SHOWN ON SHEET)

TWIN CITIES ARMY AMMUNITION PLANT
 Off-Post, Groundwater Elevations,
 Upper Unit 3, Spring 1991 (Q30)

Wenck
 Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 4



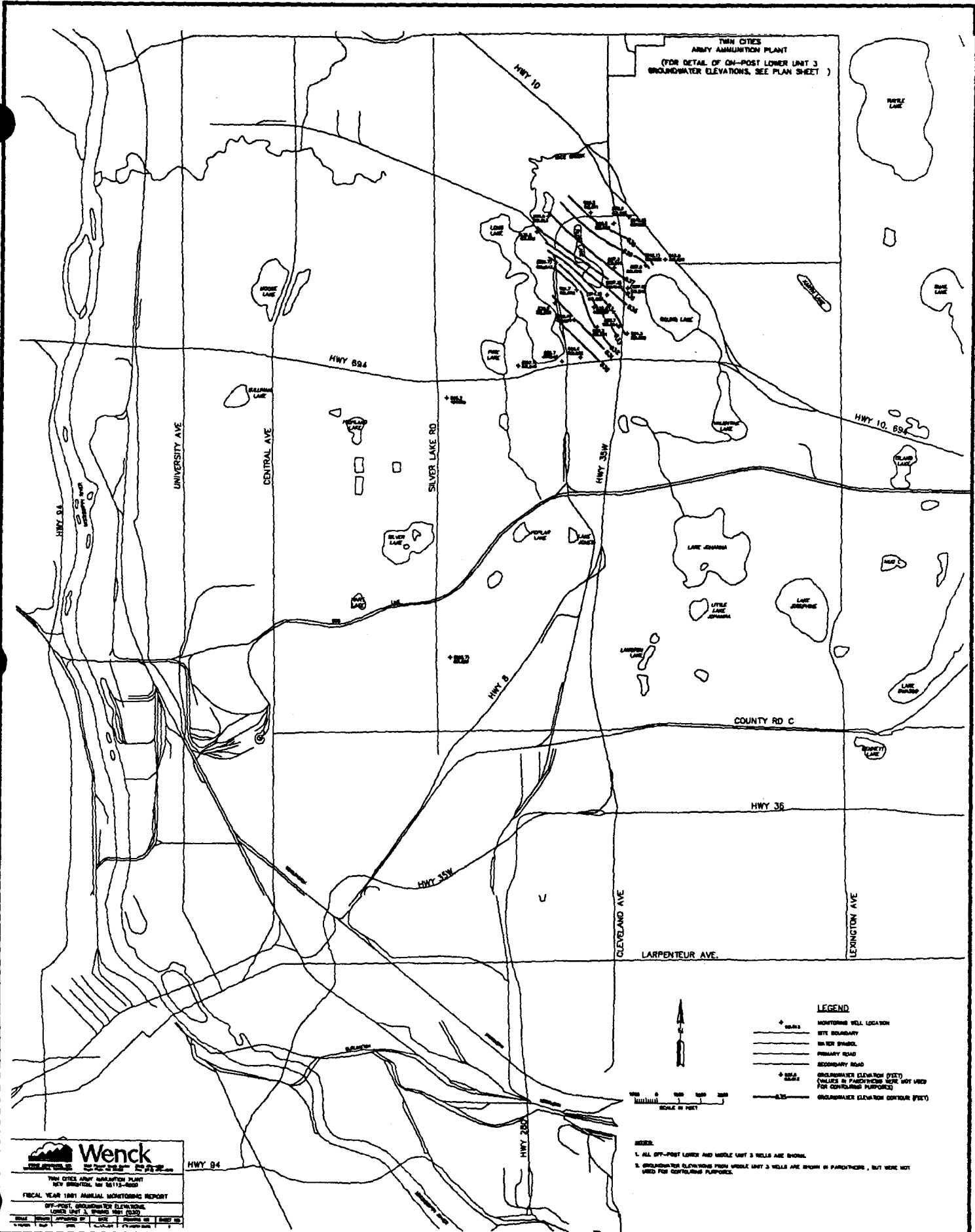
SCALE: 1" = 1200'

LEGEND

- 847.34 GROUNDWATER ELEVATION IN FEET AMSL (2-28-91)
- GROUNDWATER CONTOUR
- ← DIRECTION OF GROUNDWATER FLOW
- - - LIMIT OF CAPTURE

CRA

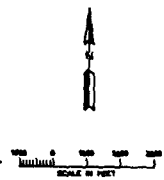
figure 5
 LOWER UNIT 3 GROUNDWATER CONTOURS
Twin Cities Army Ammunition Plant



TWIN CITIES
ARMY AMMUNITION PLANT
(FOR DETAIL OF ON-POST LOWER UNIT 3
GROUNDWATER ELEVATIONS, SEE PLAN SHEET)

LEGEND

- MONITORING WELL LOCATION
- SITE BOUNDARY
- WATER BODY
- PRIMARY ROAD
- SECONDARY ROAD
- GROUNDWATER ELEVATION (FEET)
(VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- GROUNDWATER ELEVATION CONTOUR (FEET)



NOTES:
1. ALL OFF-POST LOCATED AND UNCLE SAM'S WELLS ARE SHOWN.
2. GROUNDWATER ELEVATIONS FROM UNCLE SAM'S WELLS ARE SHOWN IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING PURPOSES.

Wenck
TWIN CITIES ARMY AMMUNITION PLANT
SITE BOUNDARY, HWY 10-69A
FISCAL YEAR 1991 ANNUAL MONITORING REPORT
OFF-POST, GROUNDWATER ELEVATIONS
LOWER UNIT 3, SPRING 1991 (Q30)

TWIN CITIES ARMY AMMUNITION PLANT

Off-Post, Groundwater Elevations,
Lower Unit 3, Spring 1991 (Q30)

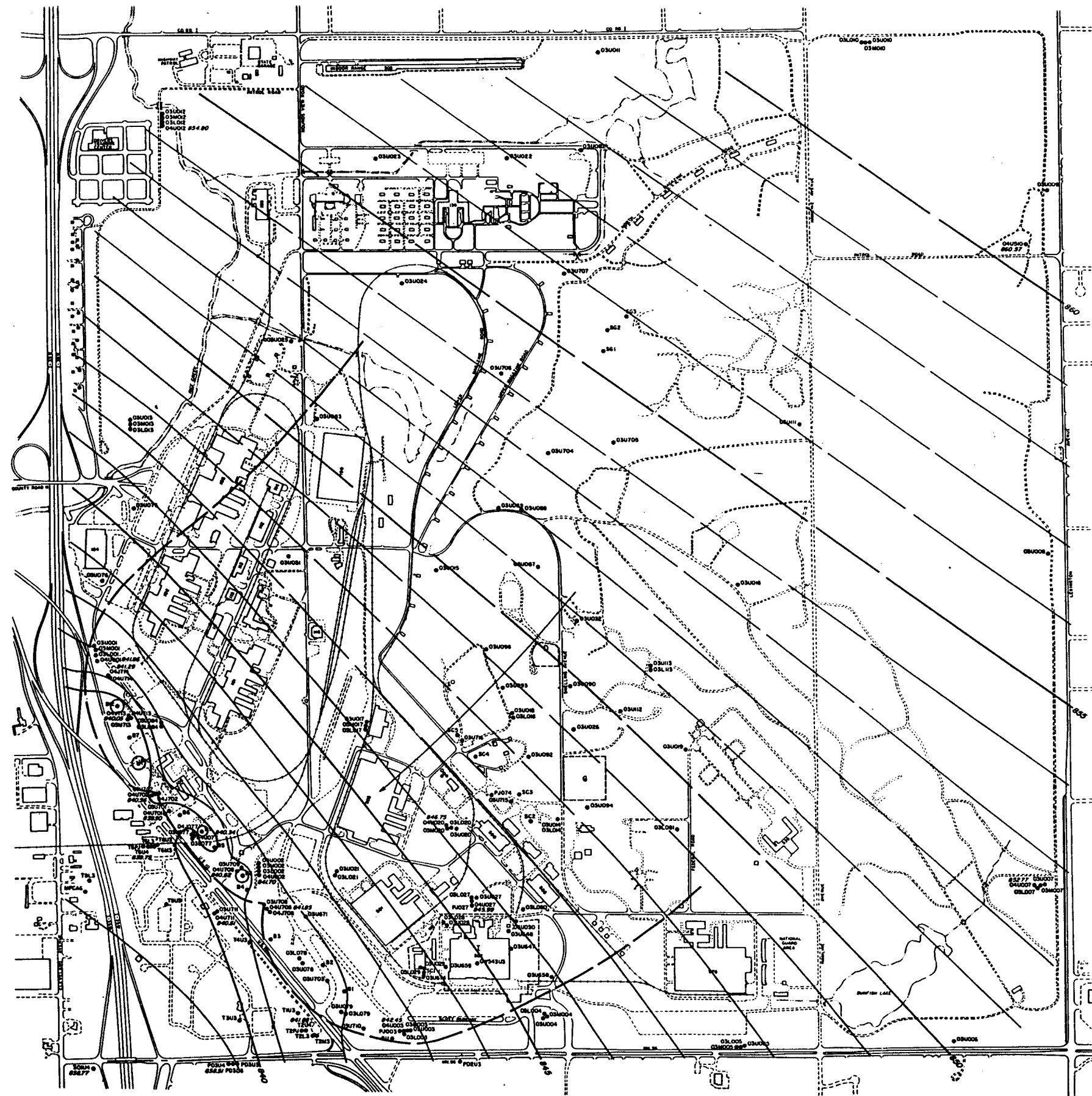


Wenck

Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
Environmental Engineers Maple Plain, MN 55359

April 1992

Figure 6



SCALE: 1" = 1200'

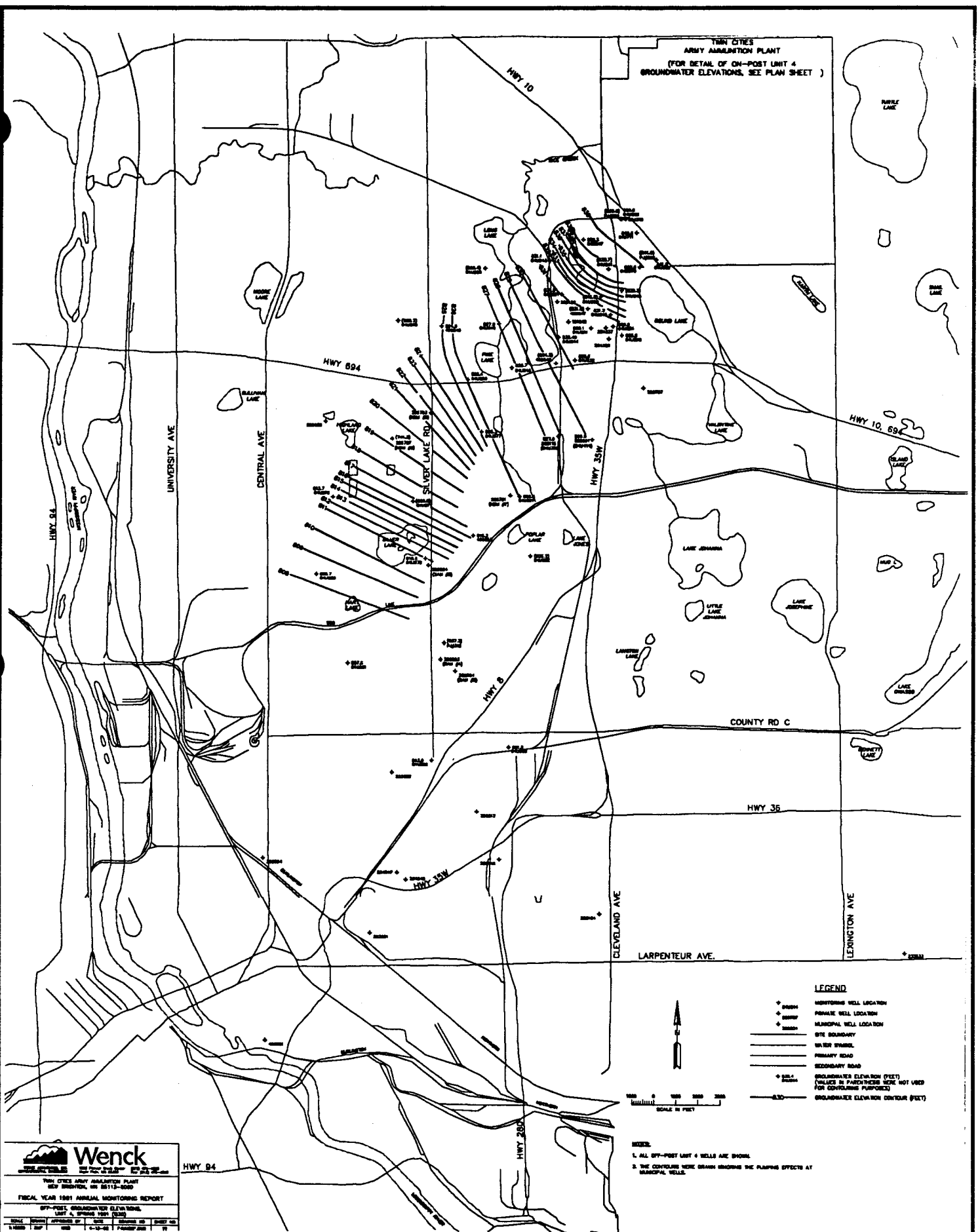
LEGEND

- 847.34 GROUNDWATER ELEVATION IN FEET AMSL (2-28-91)
- GROUNDWATER CONTOUR
- ← DIRECTION OF GROUNDWATER FLOW
- - - LIMIT OF CAPTURE

CRA

figure 7
UNIT 4 GROUNDWATER CONTOURS
Twin Cities Army Ammunition Plant

TWIN CITIES
 ARMY AMMUNITION PLANT
 (FOR DETAIL OF ON-POST UNIT 4
 GROUNDWATER ELEVATIONS, SEE PLAN SHEET)



Wenck
 ENVIRONMENTAL ENGINEERS
 TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRISTON, MN 55113-0000
 FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 OFF-POST GROUNDWATER ELEVATIONS
 UNIT 4, SPRING 1991 (Q30)
 DATE: 1991 APR 22 BY: J. J. JOHNSON
 SCALE: 1" = 1000' 4-12-91 1: 1000000

LEGEND

- ◆ MONITORING WELL LOCATION
- ◆ PRIVATE WELL LOCATION
- ◆ MUNICIPAL WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- PRIMARY ROAD
- SECONDARY ROAD
- ◆ GROUNDWATER ELEVATION (FEET)
 (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- GROUNDWATER ELEVATION CONTOUR (FEET)

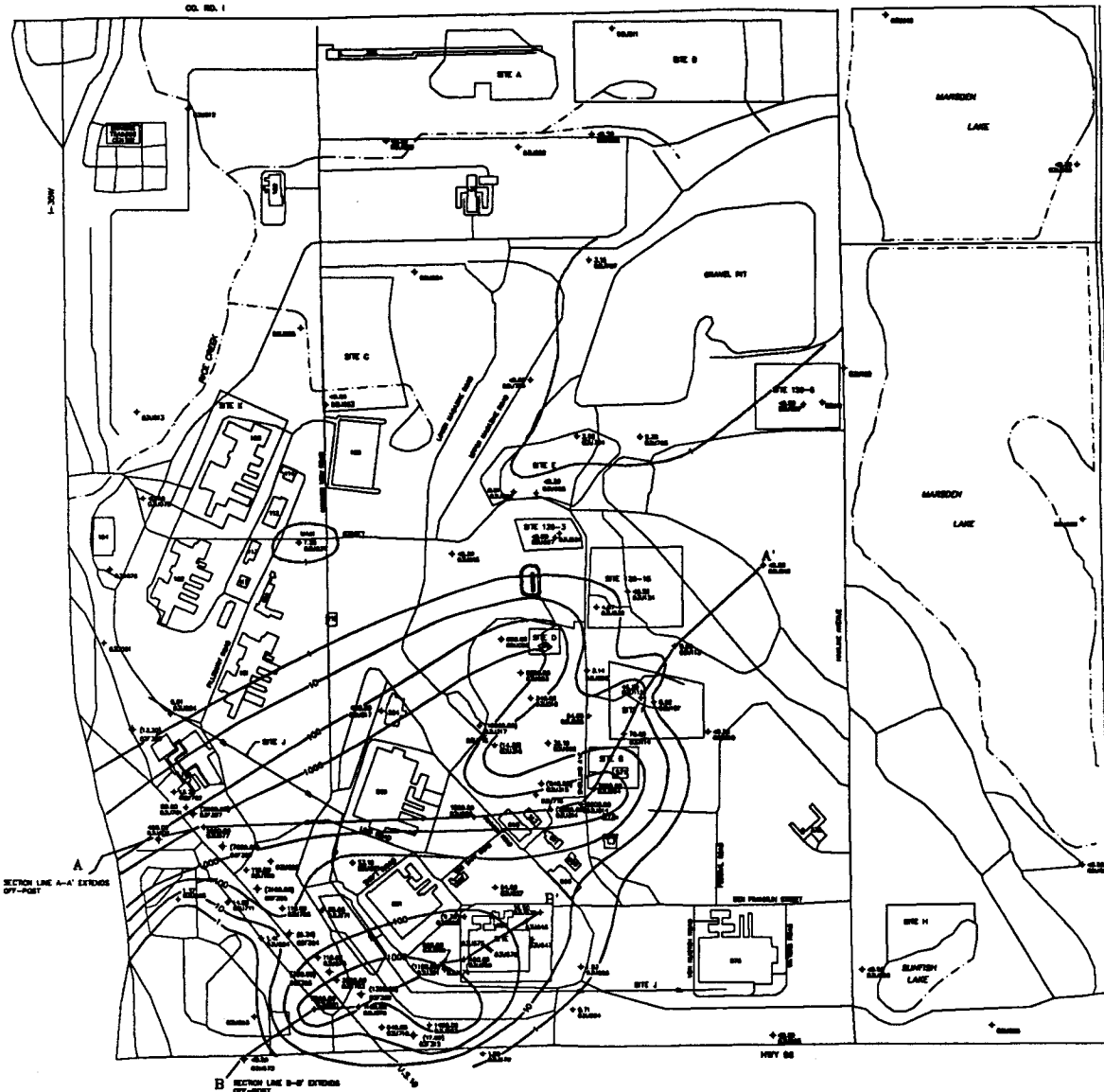
SCALE IN FEET
 0 1000 2000 3000

- NOTES:
1. ALL OFF-POST UNIT 4 WELLS ARE BROWN.
 2. THE CONTOURS WERE DRAWN SHOWING THE PLANNING EFFECTS AT MUNICIPAL WELLS.

TWIN CITIES ARMY AMMUNITION PLANT
 Off-Post, Groundwater Elevations,
 Upper Unit 4, Spring 1991 (Q30)

Wenck
 Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 8

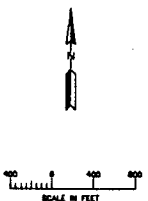


LEGEND

- ◆ MONITORING WELL LOCATION
- ◆ RECOVERY WELL LOCATION
- SITE BOUNDARY
- WATER CHANNEL
- PRIMARY ROAD
- SECONDARY ROAD
- ◆ TRICHLOROETHENE CONCENTRATION (µg/L)
(WELLS IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- RECONCENTRATION CONTOUR (µg/L)
- CROSS SECTION LINE

- NOTES:**
1. ALL UPPER UNIT 3 WELLS AT THE SITE ARE SHOWN.
 2. 03F AND 03J RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT CONCENTRATIONS WERE NOT USED FOR CONTOURING.
 3. RECOVERY WELL NAME CONVERSIONS:

03F302	0-1
03F303	0-2
03F304	0-3
03F305	0-4
03F306	0-5
03F307	0-6
03F308	0-7
03F312	0-11
03J301	0C-1
03J314	0C-2
03J313	0C-3
03J316	0C-4
03J317	0C-5
 4. THE CONCENTRATION AT 03J325 (6.70 µg/L) IS SHOWN IN PARENTHESES, BUT WAS NOT USED FOR CONTOURING SINCE HISTORICAL DATA HAS ALWAYS BEEN GREATER THAN 150 µg/L.



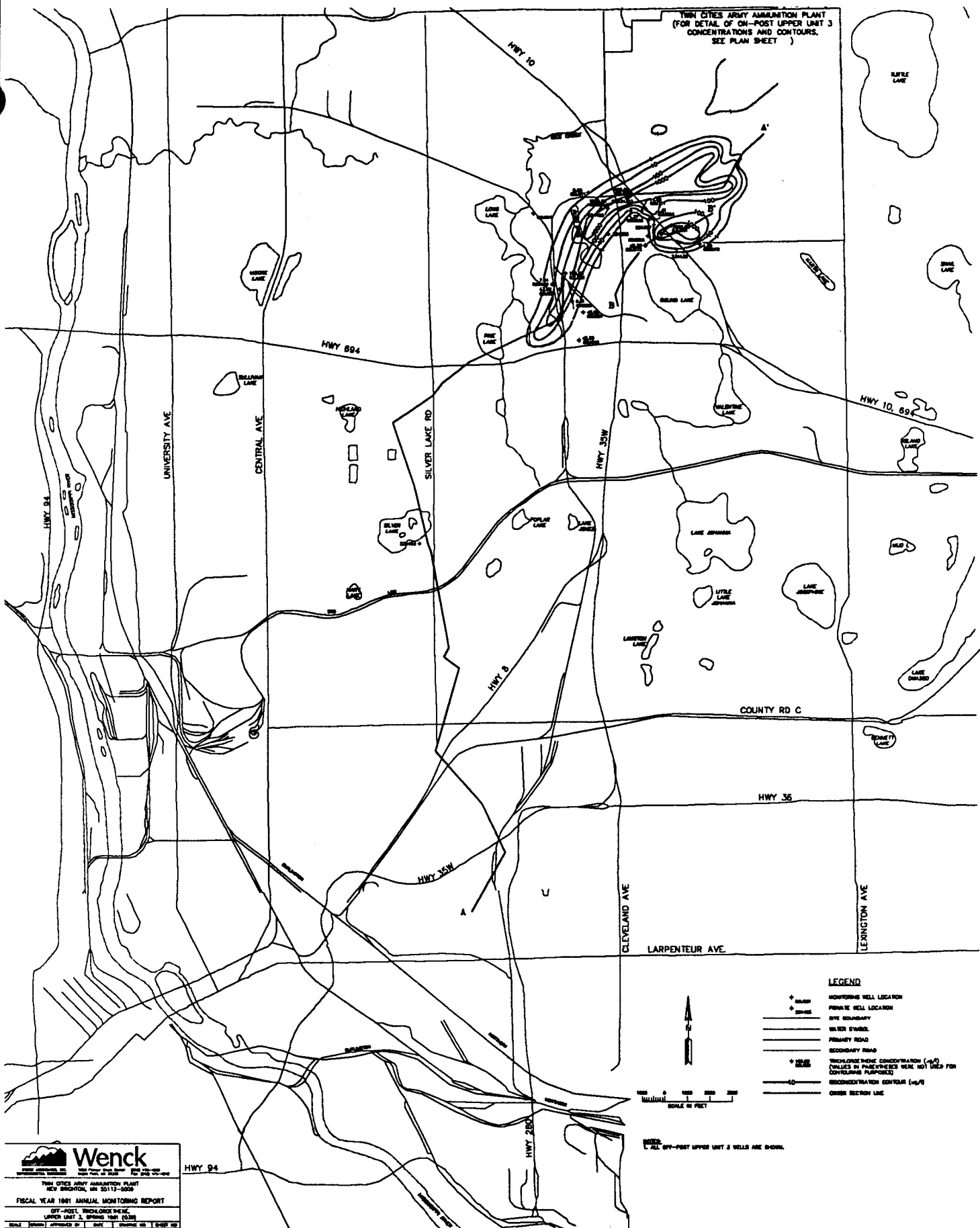
Wenck
 TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRIDGEMAN, MN 56112-8000
 FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 ON-POST TRICHLOROETHENE
 UPPER UNIT 3, SPRING 1991 (Q30)
 SCALE: DRAWING APPROVED BY DATE: 03/28/91 BY: [Signature]
 1" = 400' 03/28/91

TWIN CITIES ARMY AMMUNITION PLANT
 On-Post, Trichloroethene
 Upper Unit 3, Spring 1991 (Q30)

Wenck
 Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 9

TWIN CITIES ARMY AMMUNITION PLANT
 (FOR DETAIL OF ON-POST UPPER UNIT 3
 CONCENTRATIONS AND CONTOURS,
 SEE PLAN SHEET)



- LEGEND**
- ◆ MONITORING WELL LOCATION
 - PRIVATE WELL LOCATION
 - SITE BOUNDARY
 - WATER FEATURE
 - PRIMARY ROAD
 - SECONDARY ROAD
 - ◆ MONITORING WELL LOCATION
 - TRICHLOROETHENE CONCENTRATION (10/1) CONTOUR IN PARALLELS WERE NOT USED FOR CONTOURING PURPOSES
 - TRICHLOROETHENE CONTOUR (10/1)
 - CROSS SECTION LINE

NOTE: 1. ALL OFF-POST UPPER UNIT 3 WELLS ARE SHOWN.

Wenck
 Environmental Engineers
 1800 Pioneer Creek Center
 Maple Plain, MN 55359
 Phone: (612) 835-1100
 Fax: (612) 835-1101

TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRIDGTON, MN 55112-0009

FISCAL YEAR 1991 ANNUAL MONITORING REPORT

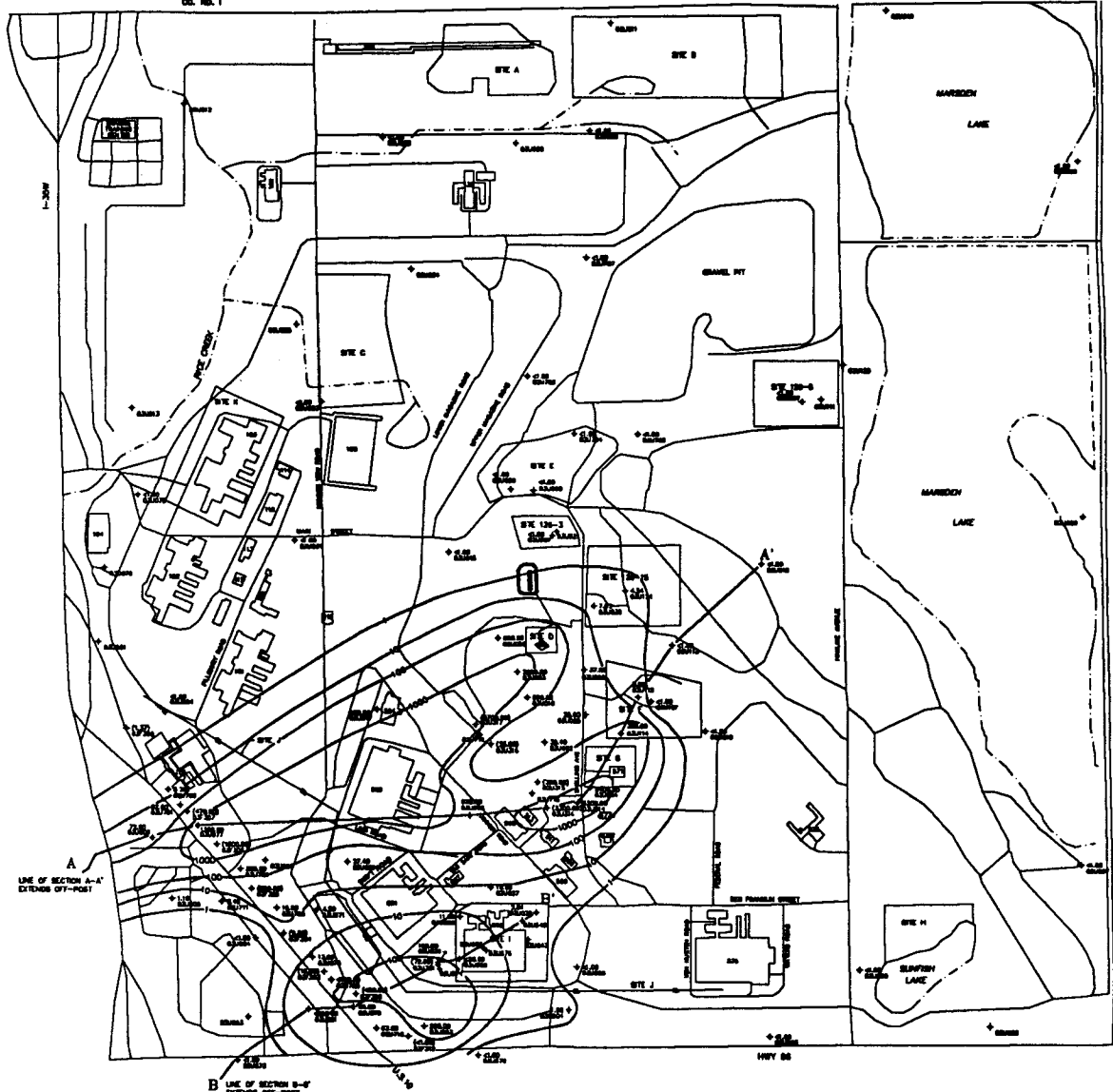
OFF-POST, TRICHLOROETHENE,
 UPPER UNIT 3, SPRING 1991 (Q30)

SCALE	DATE	APPROVED BY	DATE	REVISED BY	DATE
1"=500'	08/91	WEN	08-13-91	WEN	08-13-91

TWIN CITIES ARMY AMMUNITION PLANT
 Off-Post, Trichloroethene,
 Upper Unit 3, Spring 1991 (Q30)

Wenck
 Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 10



A
LINE OF SECTION A-A'
EXTENDS OFF-POST

B
LINE OF SECTION B-B'
EXTENDS OFF-POST

LEGEND

- ◆ MONITORING WELL LOCATION
- ◆ RECOVERY WELL LOCATION
- SITE BOUNDARY
- WATER POND
- PRIMARY ROAD
- SECONDARY ROAD
- ◆ 1,1,1-TRICHLOROETHANE CONCENTRATION (µg/l)
(VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING)
- 10
- 100
- 1000
- CROSS SECTION LINE

- NOTES: 1. ALL UPPER UNIT 3 WELLS AT THE SITE ARE SHOWN.
2. OFF-POST AND RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
3. RECOVERY WELL NAME CONVERSIONS:

OLP302	W-1
OLP303	W-2
OLP304	W-3
OLP305	W-4
OLP306	W-5
OLP307	W-6
OLP308	W-7
OLP309	W-8
OLP310	W-9
OLP311	W-10
OLP312	W-11
OLP313	W-12
OLP314	W-13
OLP315	W-14
OLP316	W-15
OLP317	W-16
OLP318	W-17
OLP319	W-18
OLP320	W-19
OLP321	W-20



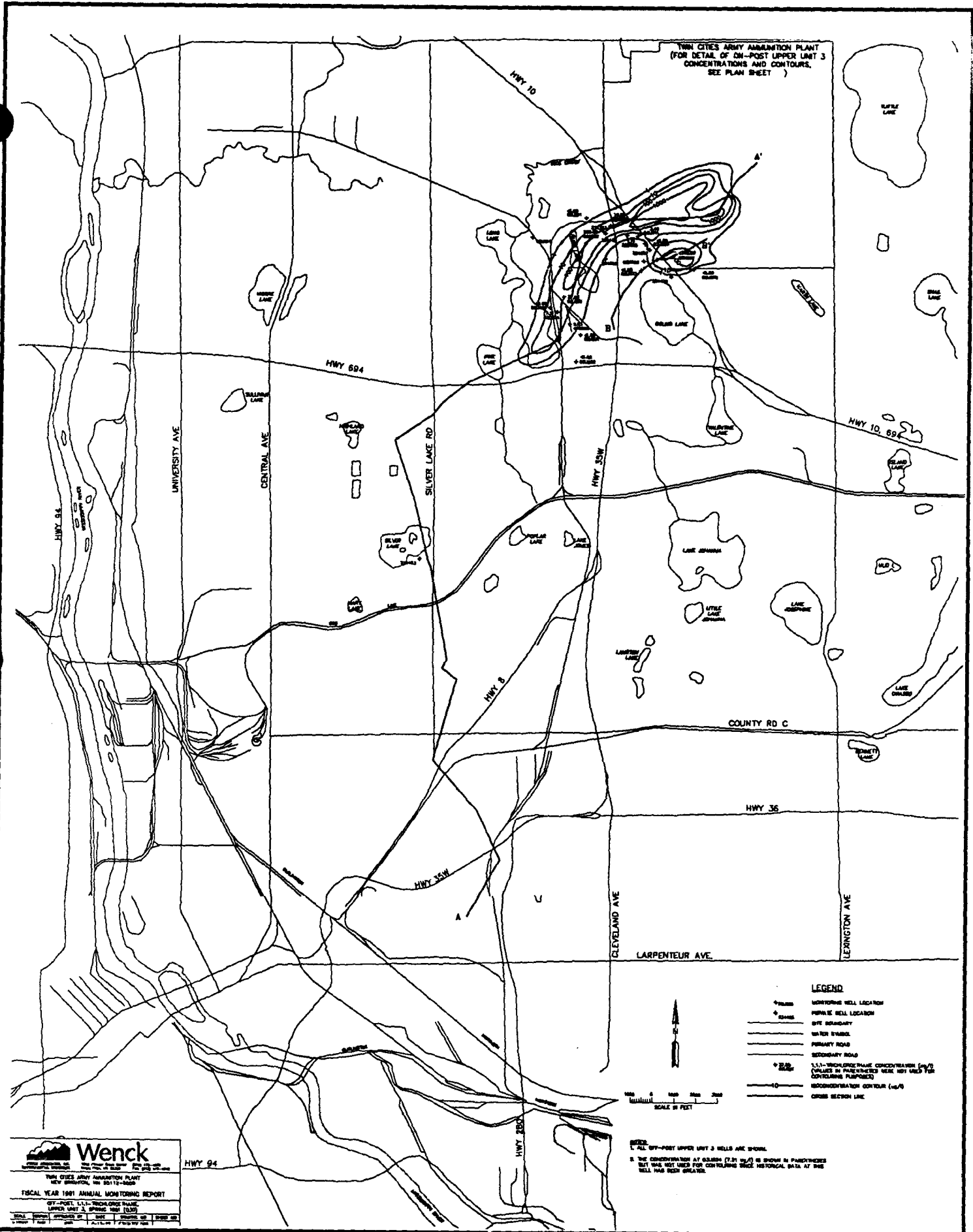
Wenck
 Environmental Engineers
 1800 Pioneer Creek Center
 Maple Plain, MN 55359
 Phone: (612) 835-1100
 Fax: (612) 835-1101
 Telex: 251111 WENCK

TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRUNSWICK, MN 55113-8000
 FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 ON-POST, 1,1,1-TRICHLOROETHANE,
 UPPER UNIT 3, SPRING 1991 (Q30)
 SCALE: MONITORING APPROVED BY: DATE: 8/10/91 BY: GIBBY
 2-1000 1-000 0 1-13-91 1-000/11/1000

TWIN CITIES ARMY AMMUNITION PLANT
 On-Post, 1,1,1 Trichloroethane
 Upper Unit 3, Spring 1991 (Q30)

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 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 11



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TWIN CITIES ARMY AMMUNITION PLANT
NEW BRUNSWICK, NJ 08912-9600
FISCAL YEAR 1991 ANNUAL MONITORING REPORT
OFF-POST, 1,1,1-TRICHLOROETHANE
UPPER UNIT 3, SPRING 1991 (Q3)

TWIN CITIES ARMY AMMUNITION PLANT

Off-Post, 1,1,1-Trichloroethane,
Upper Unit 3, Spring 1991 (Q3)

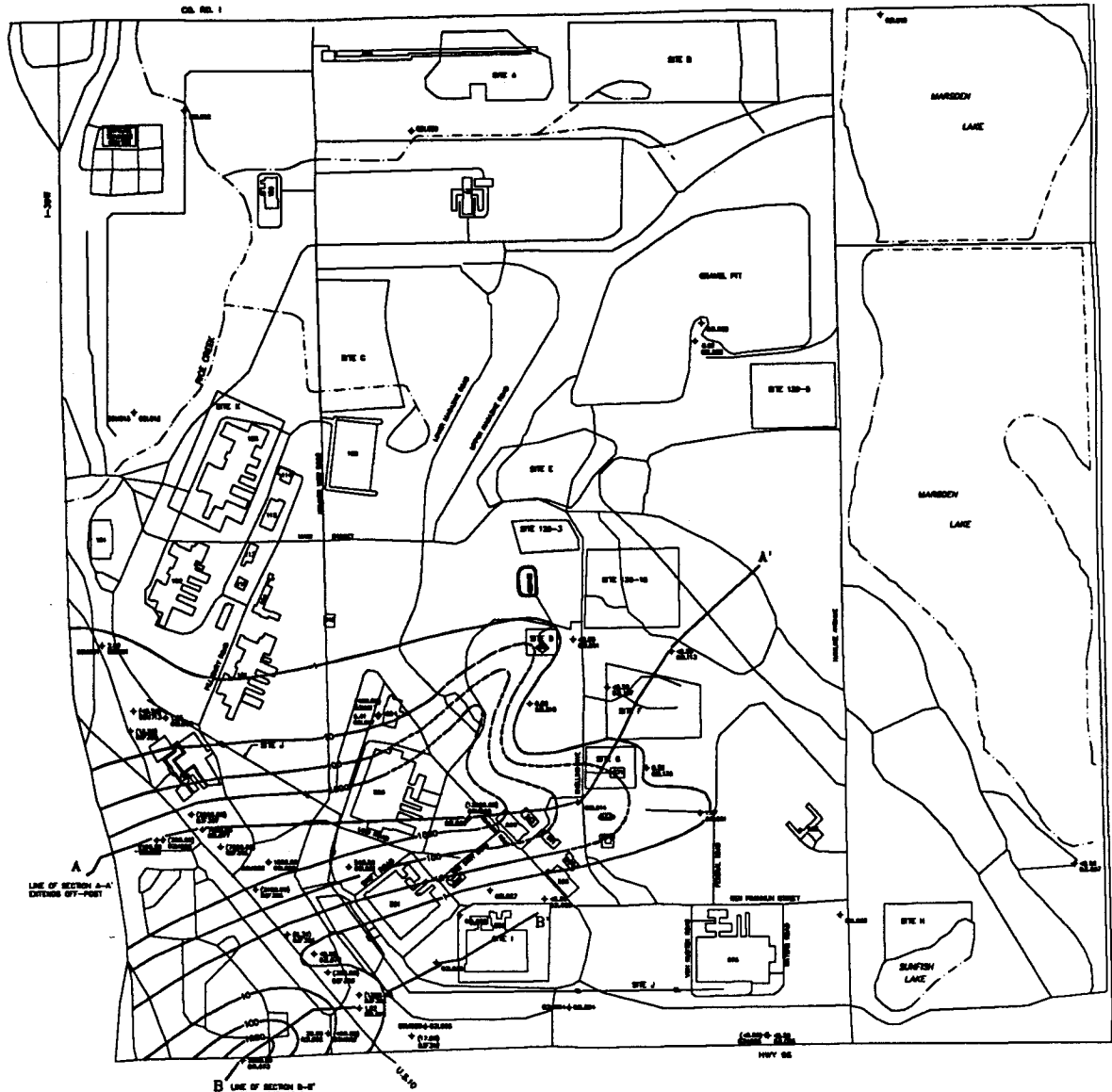


Wenck

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Environmental Engineers Maple Plain, MN 55359

April 1992

Figure 12



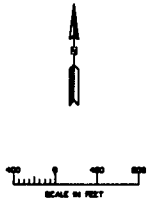
A
LINE OF SECTION A-A'
EXTENDS 67'-POST

B
LINE OF SECTION B-B'
EXTENDS 67'-POST

- LEGEND**
- ◆ MONITORING WELL LOCATION
 - ◆ RECOVERY WELL LOCATION
 - WATER SHED
 - - - SITE BOUNDARY
 - PRIMARY ROAD
 - SECONDARY ROAD
 - ◆ TRICHLOROETHENE CONCENTRATION (ug/l)
VALUES IN PARENTHESES WERE NOT USED FOR CONTROLLING PURPOSES
 - SECOND CONCENTRATION CENTER (ug/l)
 - CROSS SECTION LINE

- NOTES:**
1. ALL LOWER UNIT 3 WELLS AT THE SITE ARE SHOWN.
 2. WELLS LAST 3 WELLS WITH DATA FOR QUARTER 30 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTROLLING.
 3. R2F RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTROLLING.
 4. RECOVERY WELL NAME CORRECTIONS:

03F260	R-1
03F263	R-2
03F264	R-3
03F265	R-4
03F267	R-5
03F268	R-6
03F269	R-7
03F270	R-11
 5. A TRICHLOROETHENE CONCENTRATION OF 47600 ug/l WAS ASSUMED AT GLENN FOR CONTROLLING PURPOSES. THIS WAS THE CONCENTRATION ON AUGUST 17, 1988, THE LAST TIME THIS WELL WAS SAMPLED.



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 1800 Pioneer Creek Center
 Maple Plain, MN 55359
 (612) 835-1100

TWIN CITIES ARMY AMMUNITION PLANT
 NEW SECTION, 081112-0000

FISCAL YEAR 1991 ANNUAL MONITORING REPORT

ON-POST TRICHLOROETHENE
 LOWER UNIT 3, SPRING 1991 (Q30)

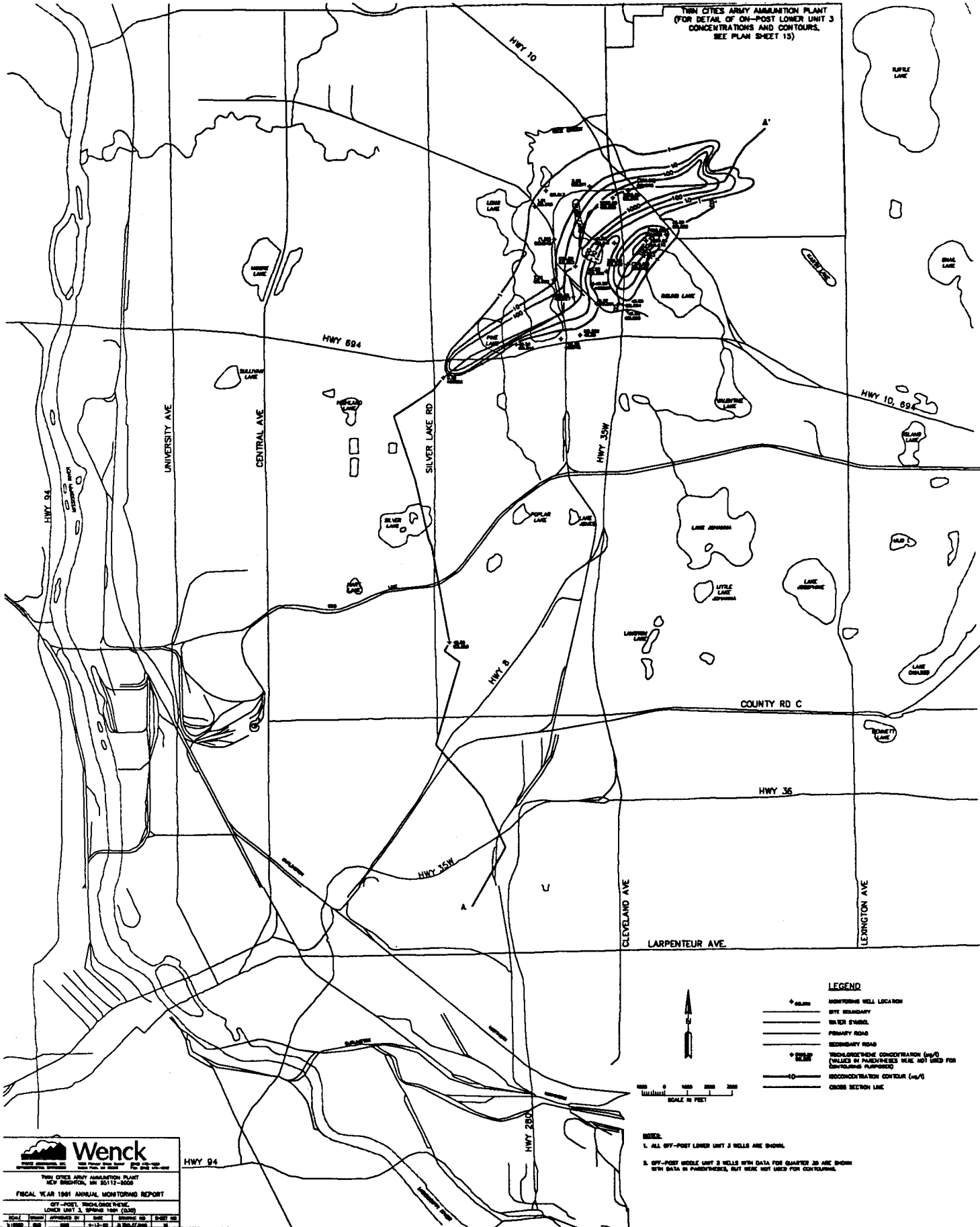
SCALE: APPROX. 1" = 100' (SEE PLAN FOR EXACT SCALE)

TWIN CITIES ARMY AMMUNITION PLANT
 On-Post, Trichloroethene
 Lower Unit 3, Spring 1991 (Q30)

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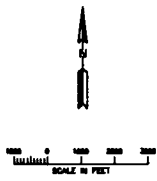
April 1992
 Figure 13

TWIN CITIES ARMY AMMUNITION PLANT
 (FOR DETAIL OF ON-POST LOWER UNIT 3
 CONCENTRATIONS AND CONTOURS, SEE PLAN SHEET 15)



LEGEND

- MONITORING WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- PRIMARY ROAD
- SECONDARY ROAD
- TRICHLOROETHENE CONCENTRATION (ML/D)
 (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- SECONDARY ROAD
- CONCENTRATION CONTOUR (ML/D)
- CROSS SECTION LINE



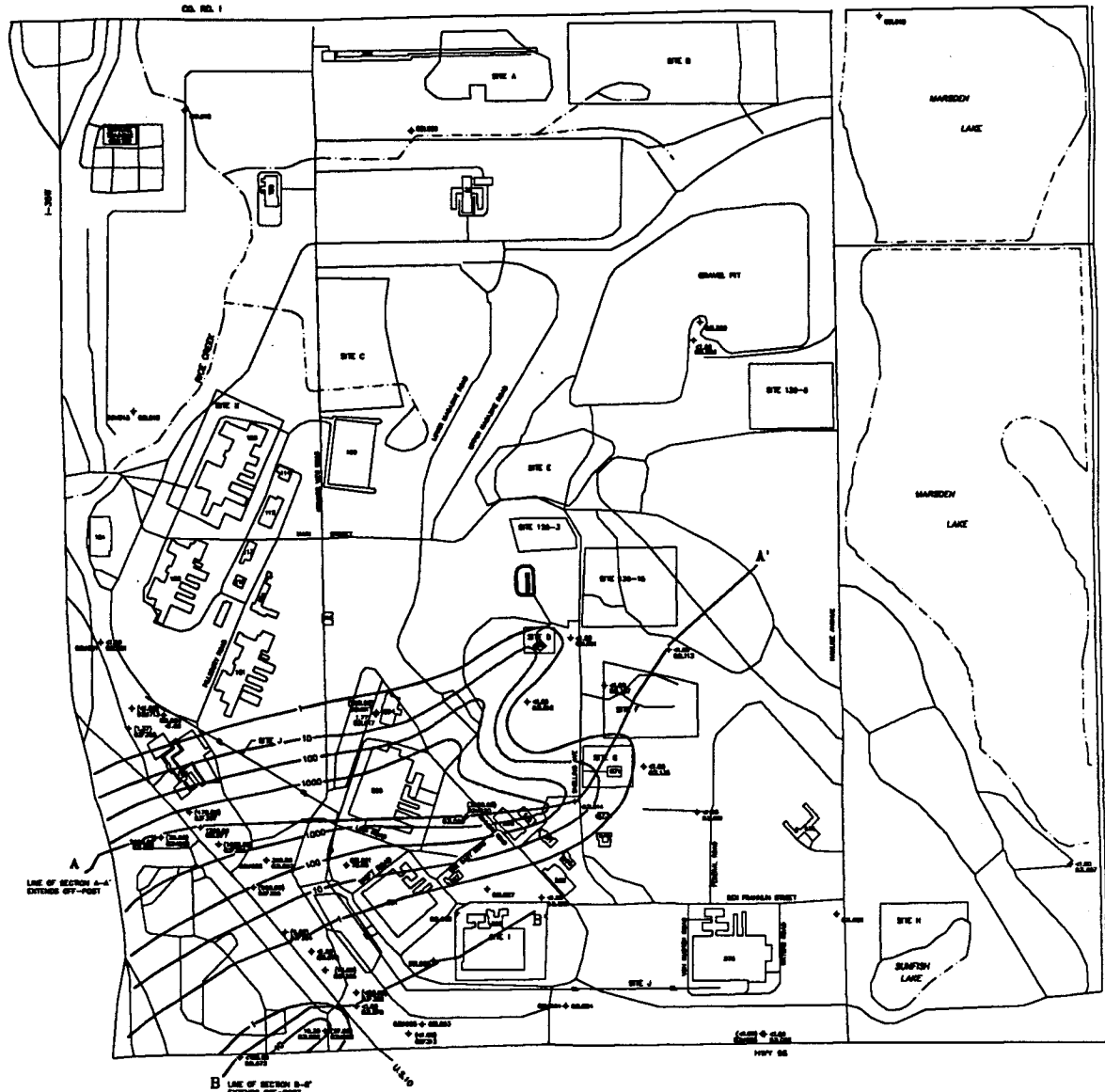
NOTES:
 1. ALL OFF-POST LOWER UNIT 3 WELLS ARE SHOWN.
 2. OFF-POST MIDDLE UNIT 3 WELLS WITH DATA FOR QUARTER 3B ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.

Wenck
 TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRIDGTON, MN 55112-3000
 FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 OFF-POST, TRICHLOROETHENE
 LOWER UNIT 3, SPRING 1991 (Q30)
 SCALE: APPROVED BY: DATE: DRAWING NO: SHEET NO:
 1:1000 1/10/91 55112-3000-01-01

TWIN CITIES ARMY AMMUNITION PLANT
 Off-Post, Trichloroethene
 Lower Unit 3, Spring 1991 (Q30)

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 Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 14



LEGEND

- ◆ MONITORING WELL LOCATION
- ◆ RECOVERY WELL LOCATION
- SITE BOUNDARY
- - - WATER CHANNEL
- PRIMARY ROAD
- SECONDARY ROAD
- ◆ 1,1,1-TRICHLOROETHANE CONCENTRATION (ug/l)
(VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- RECONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE

- NOTES:
1. ALL LOWER UNIT 3 WELLS AT THE SITE ARE SHOWN.
 2. MIDDLE UNIT 3 WELLS WITH DATA FOR QUARTER 30 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
 3. Q/P RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES BUT WERE NOT USED FOR CONTOURING.
 4. RECOVERY WELL NAME CORRECTIONS:

83F302	B-1
83F303	B-2
83F304	B-3
83F305	B-4
83F307	B-6
83F307	B-7
83F308	B-7
83F312	B-11
 5. A 1,1,1-TRICHLOROETHANE CONCENTRATION OF 1300UG/L WAS ANNOUNCED AT 03:00H FOR CONTOURING PURPOSES. THIS WAS THE CONCENTRATION ON AUGUST 17, 1988. THE LAST TIME THIS WELL WAS SAMPLED.



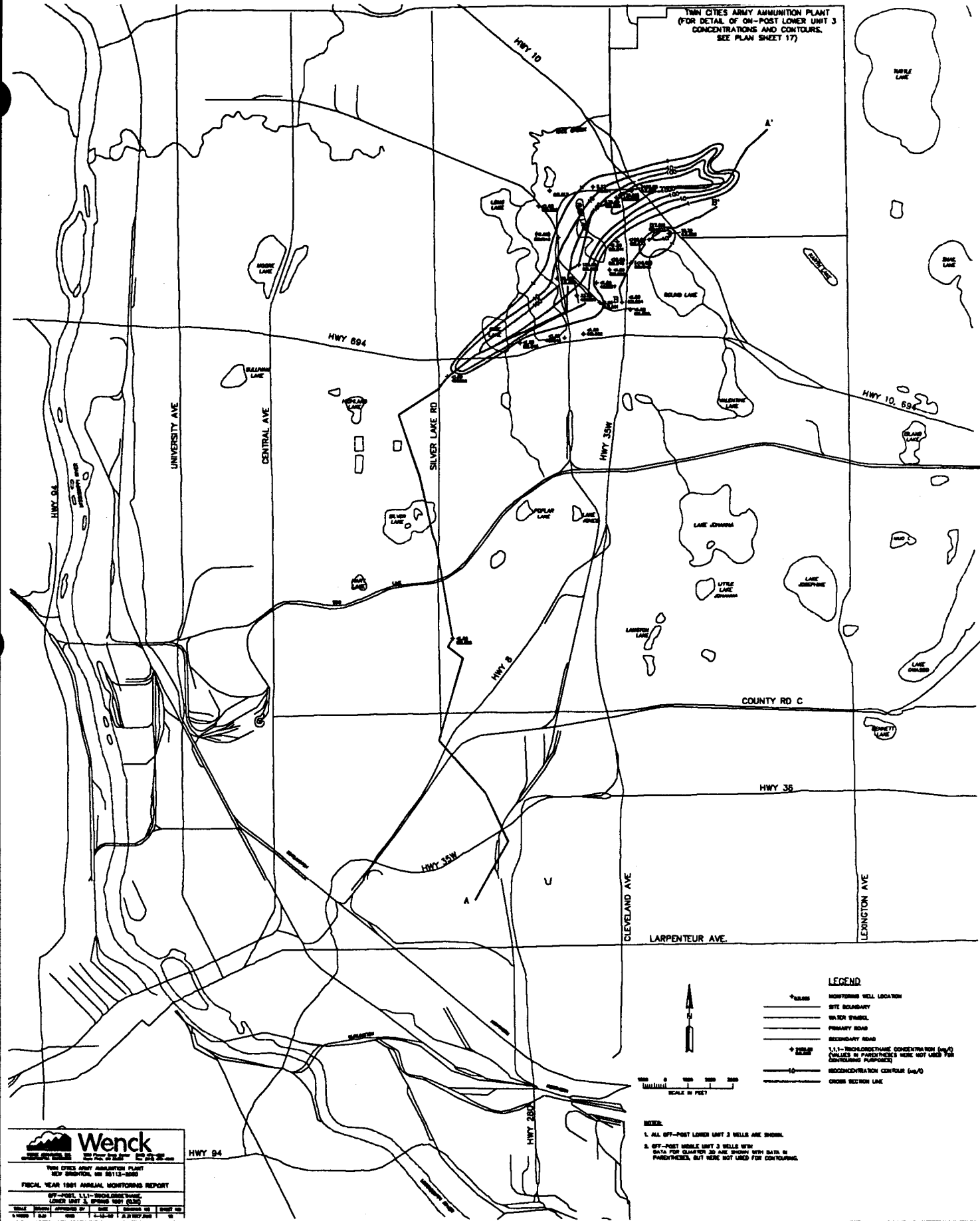
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 Environmental Engineers
 1800 Pioneer Creek Center
 Maple Plain, MN 55359
 Phone: 612-835-1100
 Fax: 612-835-1101
 Telex: 251111 WENCK
 TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRIDGTON, MN 55112-0003
 FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 ON-POST, 1,1,1-TRICHLOROETHANE
 LOWER UNIT 3, SPRING 1991 (Q30)
 DATE: 1991-05-01
 BY: C-12-28
 PLOT: 1/28/91

TWIN CITIES ARMY AMMUNITION PLANT
 On-Post, 1,1,1 Trichloroethane
 Lower Unit 3, Spring 1991 (Q30)

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 Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 15

TWIN CITIES ARMY AMMUNITION PLANT
 (FOR DETAIL OF ON-POST LOWER UNIT 3
 CONCENTRATIONS AND CONTOURS,
 SEE PLAN SHEET 17)



LEGEND

- ▲ MONITORING WELL LOCATION
- SITE BOUNDARY
- WATER CHANNEL
- PRIMARY ROAD
- SECONDARY ROAD
- ▲ 1,1,1-TRICHLOROETHANE CONCENTRATION (mg/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- 10 SECOND CONCENTRATION CONTOUR (mg/l)
- CROSS SECTION LINE

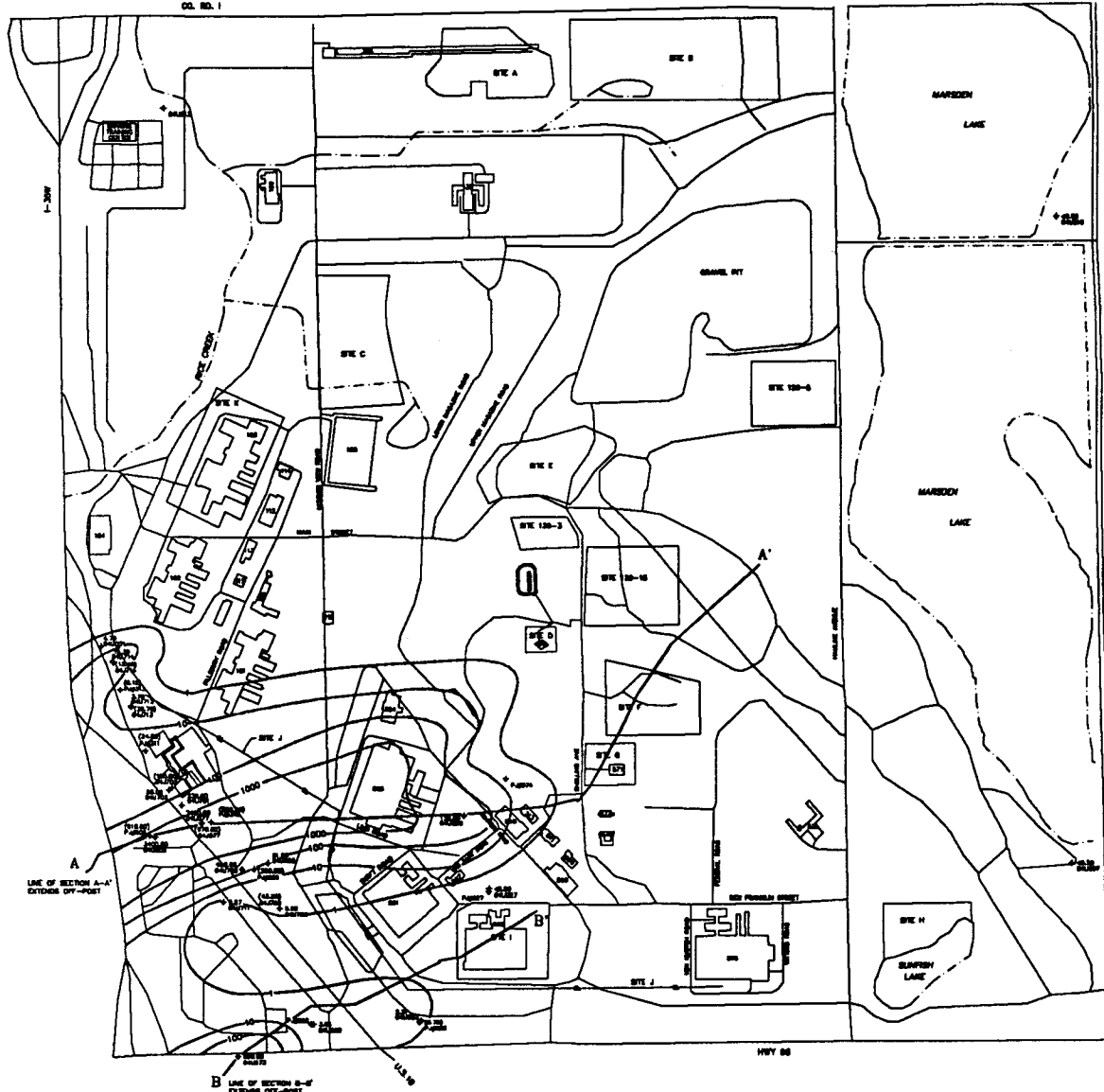
- NOTES:**
1. ALL OFF-POST LOWER UNIT 3 WELLS ARE SHOWN.
 2. OFF-POST WELLS LOWER UNIT 3 WELLS WITH DATA FOR QUANTIFIED DATA SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.

Wenck
 TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRUNSWICK, NJ 07115-0001
 FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 OFF-POST, 1,1,1-TRICHLOROETHANE
 LOWER UNIT 3, SPRING 1991 (Q30)
 SCALE: 1" = 1000'

TWIN CITIES ARMY AMMUNITION PLANT
 Off-Post, 1,1,1-Trichloroethane,
 Lower Unit 3, Spring 1991 (Q30)

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 Environmental Engineers Maple Plain, MN 55359

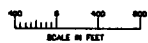
April 1992
 Figure 16



LEGEND

- ◆ MONITORING WELL LOCATION
- ◆ RECOVERY WELL LOCATION
- SITE BOUNDARY
- WATER SWAMP
- PRIMARY ROAD
- SECONDARY ROAD
- ◆ P-25 MONITORING WELL
- TRICHLOROETHENE CONCENTRATION (µg/l)
(VALUES IN PARENTHESES WERE NOT USED FOR CONTINGENCY PLANNING)
- RECOVERY WELL CONTOUR (µg/l)
- CROSS SECTION LINE

- NOTES:**
1. ALL BUT 4 WELLS AT THE SITE ARE SHOWN.
 2. ALL DATA WELLS (SHOWN WITH DATA FOR QUANTITIES 20 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTINGENCY.
 3. ALL P-25 RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTINGENCY.
 4. P-25 MONITORING WELLS WITH DATA FOR QUANTITIES 20 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTINGENCY.
 5. RECOVERY WELL NAME CORRECTIONS:
P-25 200 2-2
P-25 200 2-3
P-25 201 2-10
P-25 203 2-13



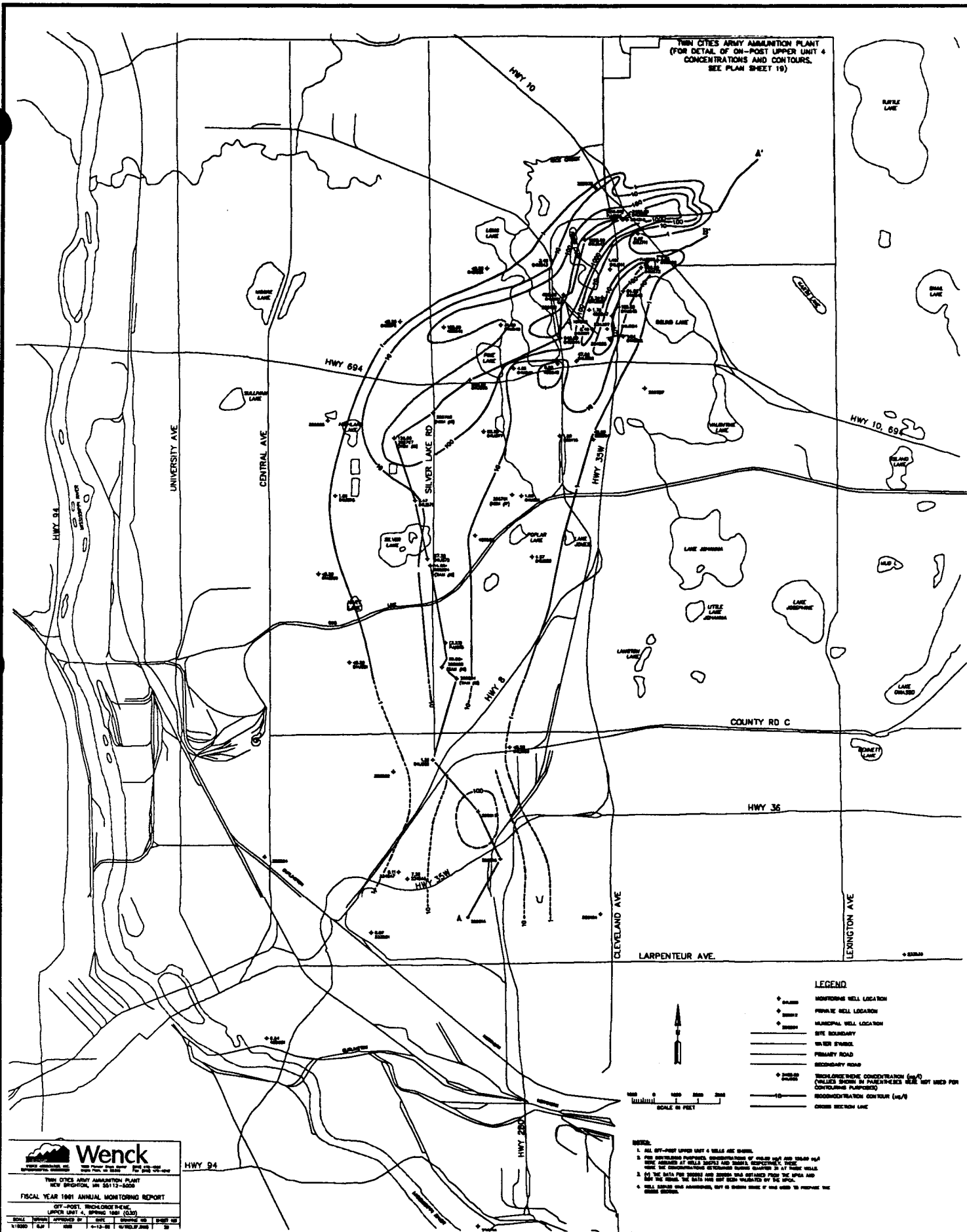
Wenck
Environmental Engineers
 TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRIDGES, MN 55113-8620
 FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 00-0001 TRICHLOROETHENE
 UPPER UNIT 4, SPRING 1991 (Q30)
 SCALE: 1"=200' APPROVED BY: DATE: 04-13-91 SHEET 001
 11:00AM 000 100 0-13-91 000000000 0

TWIN CITIES ARMY AMMUNITION PLANT
 On-Post, Trichloroethene
 Upper Unit 4, Spring 1991 (Q30)

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 Figure 17

TWIN CITIES ARMY AMMUNITION PLANT
 (FOR DETAIL OF ON-POST UPPER UNIT 4
 CONCENTRATIONS AND CONTOURS,
 SEE PLAN SHEET 19)



LEGEND

- ◆ MONITORING WELL LOCATION
- ◆ PRIVATE WELL LOCATION
- ◆ MUNICIPAL WELL LOCATION
- SITE BOUNDARY
- WATER CHANNEL
- PRIMARY ROAD
- SECONDARY ROAD
- ◆ TRICHLOROETHENE CONCENTRATION (ug/l)
- 10000 ug/l (WATER-BENCH MARK, NOT USED FOR CONTOURING PURPOSES)
- 10
- 2500
- 500
- 100
- 25
- 10
- CROSS SECTION LINE

SCALE IN FEET

0 1000 2000 3000

- NOTES:**
1. ALL OFF-POST UPPER UNIT 4 WELLS ARE SHOWN.
 2. FOR MONITORING PURPOSES, CONCENTRATIONS OF 10000 ug/l AND 10000 ug/l WERE ASSIGNED AT WELLS 20111 AND 20112, RESPECTIVELY. THESE WERE THE CONCENTRATIONS AT THESE WELLS QUARANTINED AT THESE WELLS.
 3. FOR THE DATA FOR THESE WELLS, DATA WAS OBTAINED FROM THE UPPER AND LOWER UNIT 4, SPRING 1991 (Q30).
 4. WELL LOCATIONS AND MONITORING DATA IN OTHER SHEETS OF THIS REPORT TO PREPARE THE FINAL REPORT.

Wenck
 Environmental Engineers
 1800 Pioneer Creek Center
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 Fax: (612) 835-1101

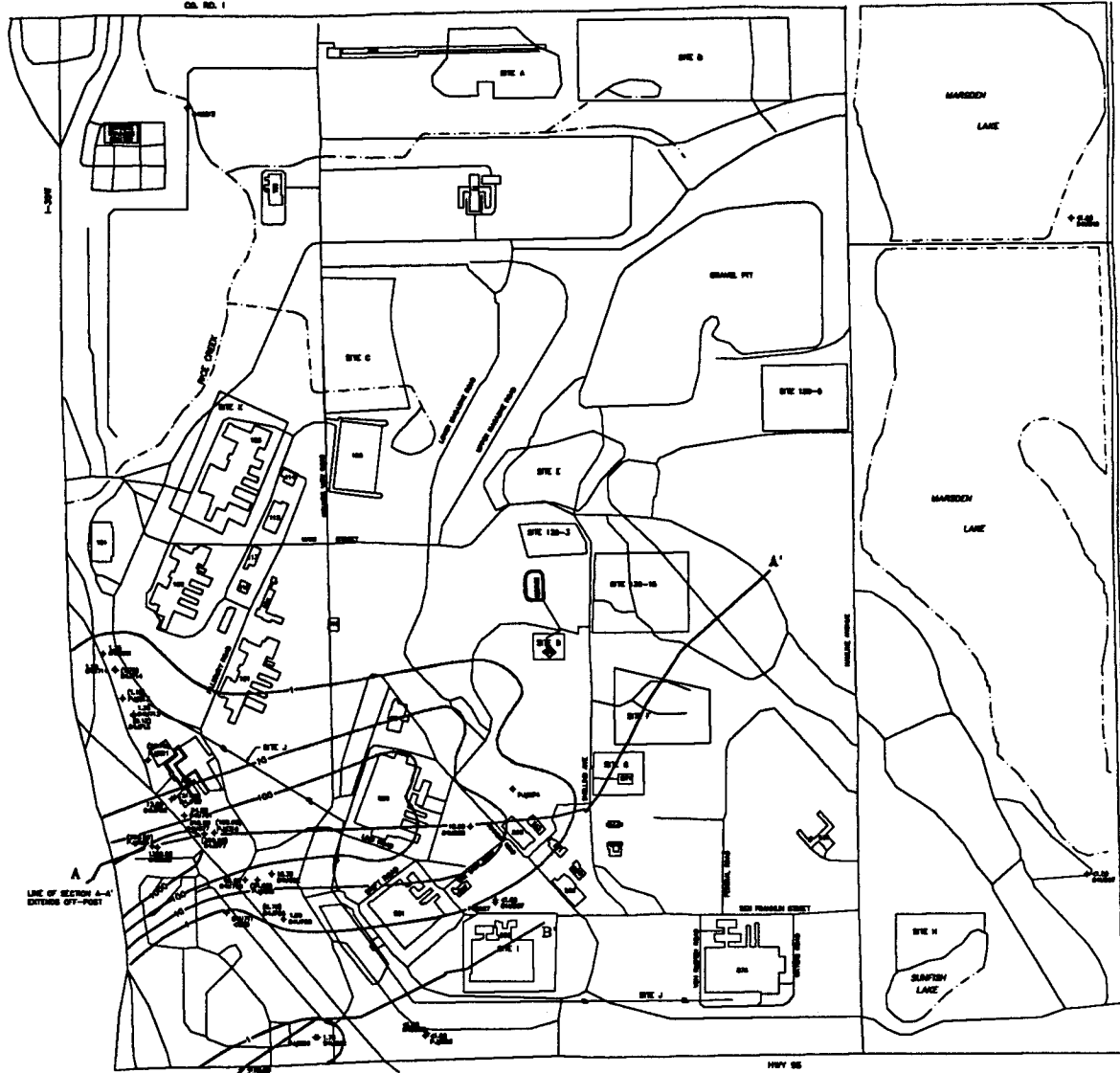
TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRINCHON, MN 55112-4000
 FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 OFF-POST, TRICHLOROETHENE
 UPPER UNIT 4, SPRING 1991 (Q30)

SCALE: 1" = 1000'
 APPROVED BY: [Signature]
 DATE: 4-15-92
 BY: [Signature]

TWIN CITIES ARMY AMMUNITION PLANT
 Off-Post, Trichloroethene
 Upper Unit 4, Spring 1991 (Q30)

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 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 18



LEGEND

- ◆ MONITORING WELL LOCATION
- ◆ RECOVERY WELL LOCATION
- SITE BOUNDARY
- - - - - WATER SHED
- ==== PRIMARY ROAD
- ==== SECONDARY ROAD
- ◆ 1,1,1-TRICHLOROETHANE CONCENTRATION (mg/L)
(VALUES IN PARENTHESES WERE NOT USED FOR
CONTOURING PURPOSES)
- 10 --- RECONCENTRATION CONTOUR (mg/L)
- CROSS SECTION LINE

- NOTES:
1. ALL LAST 4 WELLS AT THE SITE ARE SHOWN.
 2. ALL ON-POST WELLS (JORDAN WELLS) WITH DATA FOR QUARTER 30 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
 3. ALL P&W RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
 4. P&W MONITORING WELLS WITH DATA FOR QUARTER 30 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
 5. RECOVERY WELL NAME CONVERSIONS

- PJ4308 8-8
- PJ4310 8-9
- PJ4311 8-10
- PJ4313 8-12



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 1800 Pioneer Creek Center
 Maple Plain, MN 55359
 (612) 835-1100

TWIN CITIES ARMY AMMUNITION PLANT
 NEW BRIDGTON, MN 55119-8288

FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 ON-POST, 1,1,1-TRICHLOROETHANE,
 UPPER UNIT 4, SPRING 1991 (Q30)

SCALE: DRAWING APPROVED BY DATE: 0-10-92
 1-000 RAB 889 0-10-92 0204112000 21

TWIN CITIES ARMY AMMUNITION PLANT

On-Post, 1,1,1 Trichloroethane
 Upper Unit 4, Spring 1991 (Q30)



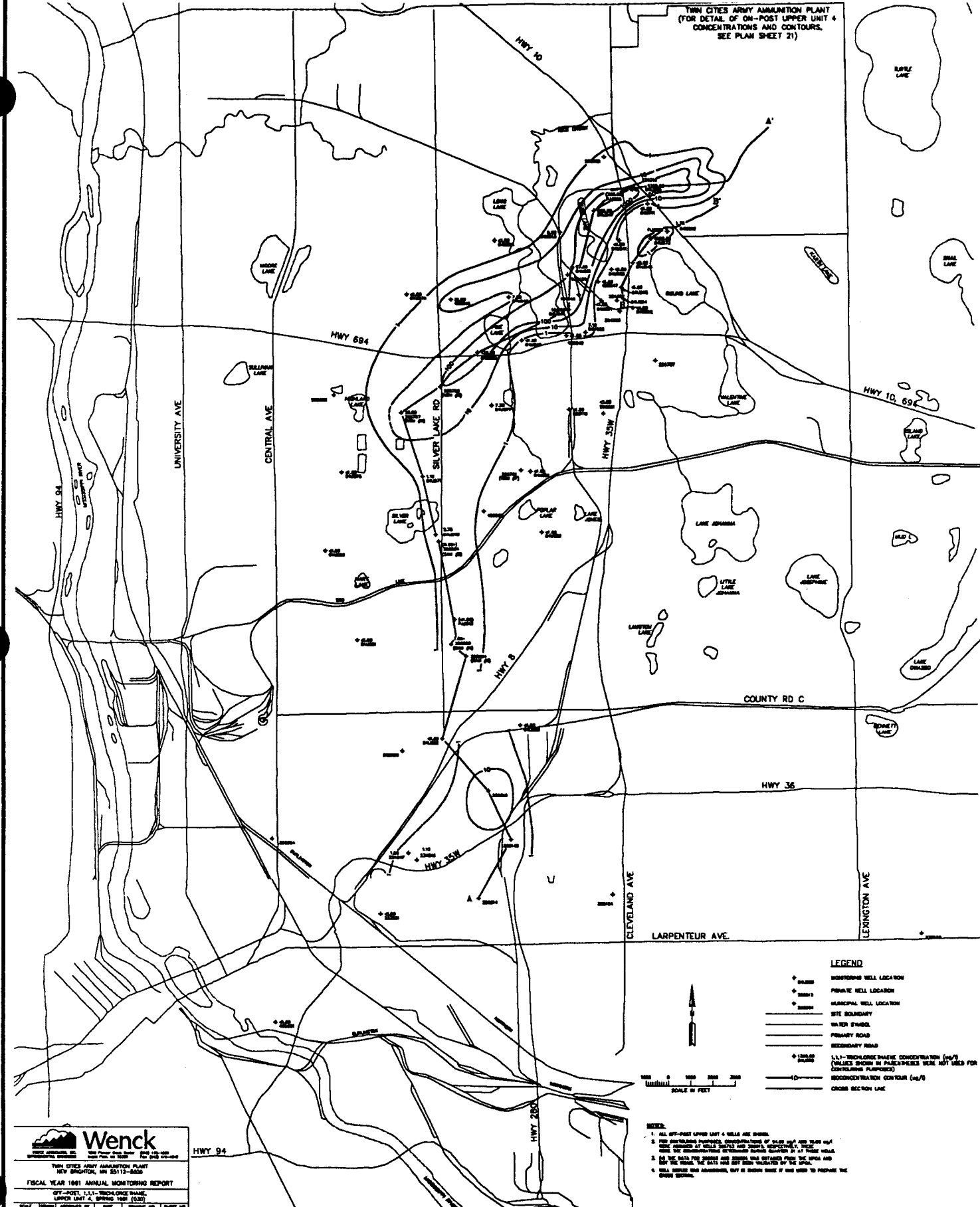
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 Environmental Engineers Maple Plain, MN 55359

April 1992

Figure 19

TWIN CITIES ARMY AMMUNITION PLANT
 (FOR DETAIL OF ON-POST UPPER UNIT 4
 CONCENTRATIONS AND CONTOURS,
 SEE PLAN SHEET 21)



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 1800 Pioneer Creek Center
 Maple Plain, MN 55359
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 Fax: (612) 835-1101

TWIN CITIES ARMY AMMUNITION PLANT
 OFF-POST, 1,1,1-TRICHLOROETHANE,
 UPPER UNIT 4, SPRING 1991 (Q30)

FISCAL YEAR 1991 ANNUAL MONITORING REPORT

SCALE: 1" = 1000' DATE: 04-13-92 DRAWN BY: JMS

LEGEND

- ◆ MONITORING WELL LOCATION
- ◆ PRIVATE WELL LOCATION
- ◆ MUNICIPAL WELL LOCATION
- SITE BOUNDARY
- WATER EVIDENCE
- PRIMARY ROAD
- SECONDARY ROAD
- ◆ 1,1,1-TRICHLOROETHANE CONCENTRATION (ug/l)
- (VALUES SHOWN IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- 100 CONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE

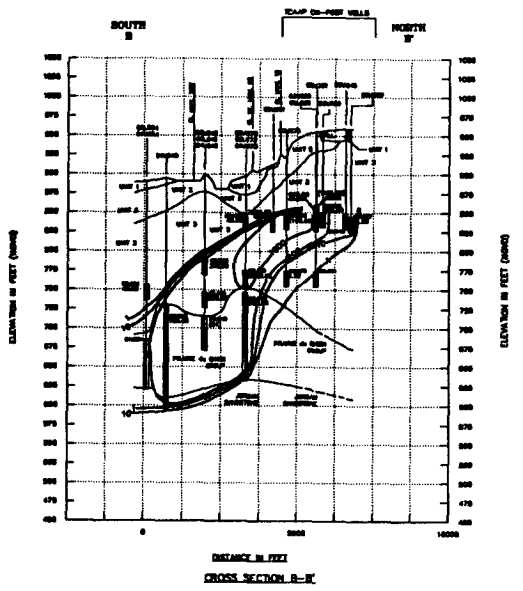
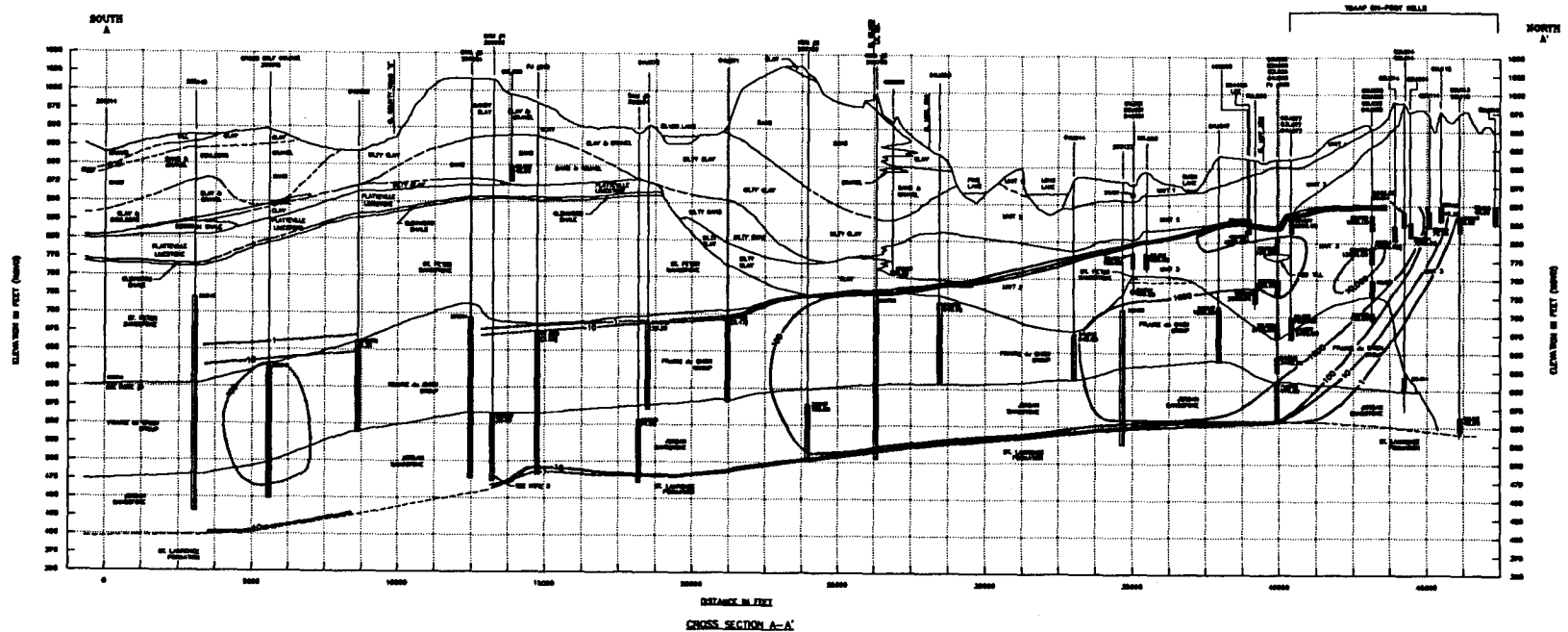
- NOTES:**
- ALL OFF-POST UPPER UNIT 4 WELLS ARE SHOWN.
 - THE MONITORING PURPOSE, CONCENTRATIONS OF 1,1,1-TCE AND DATE FOR EACH WELL ARE LISTED AT THE END OF EACH WELL IDENTIFICATION NUMBER.
 - THE DATA FOR THESE AND OTHER WELLS OBTAINED FROM THE UPPER UNIT 4 OFF-POST WELLS ARE SHOWN IN PARENTHESES.
 - WELL NUMBER WAS OBTAINED, BUT IS SHOWN IN CASE OF THIS WELLS TO PREPARE THE CROSS SECTION.

TWIN CITIES ARMY AMMUNITION PLANT

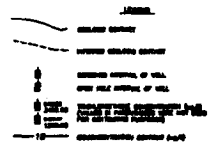
Off-Post, 1,1,1-Trichloroethane,
 Upper Unit 4, Spring 1991 (Q30)

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 Environmental Engineers Maple Plain, MN 55359

April 1992
 Figure 20



- LEGEND**
- 1) THE DATA REPRESENTED ON THIS SECTION IS BASED ON THE DATA COLLECTED AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 - 2) THE DATA REPRESENTED ON THIS SECTION IS BASED ON THE DATA COLLECTED AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 - 3) THE DATA REPRESENTED ON THIS SECTION IS BASED ON THE DATA COLLECTED AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 - 4) THE DATA REPRESENTED ON THIS SECTION IS BASED ON THE DATA COLLECTED AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 - 5) THE DATA REPRESENTED ON THIS SECTION IS BASED ON THE DATA COLLECTED AT THE TIME OF THE SURVEY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.
- SYMBOLS**
- GROUND SURFACE
 - WATER TABLE
 - TRICHLOROETHENE CONCENTRATION
 - TRAP ON-POW WELLS



SCALE
 1" = 100'
 1" = 100'

Wenck
 ENVIRONMENTAL ENGINEERS

TWIN CITIES ARMY AMMUNITION PLANT
 1610 BRUNNEN AVENUE, SUITE 1000
 MINNEAPOLIS, MN 55425

FISCAL YEAR 1991 ANNUAL MONITORING REPORT
 TRICHLOROETHENE CROSS SECTIONS A-A' AND B-B'

DATE: 1991 APRIL 15 BY: JES/MLP
 SCALE: 1" = 100' SHEET NO. 1 OF 1

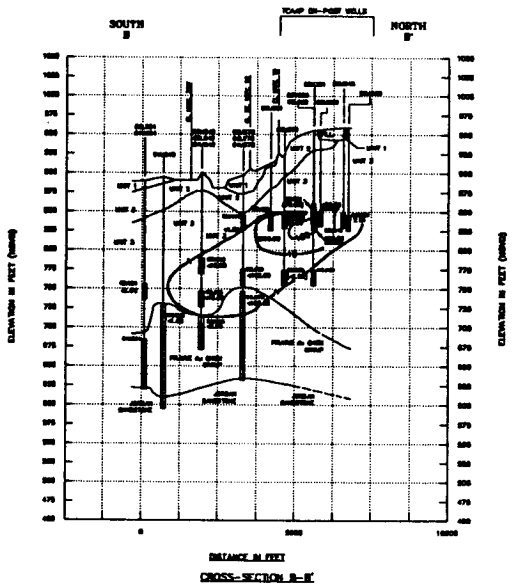
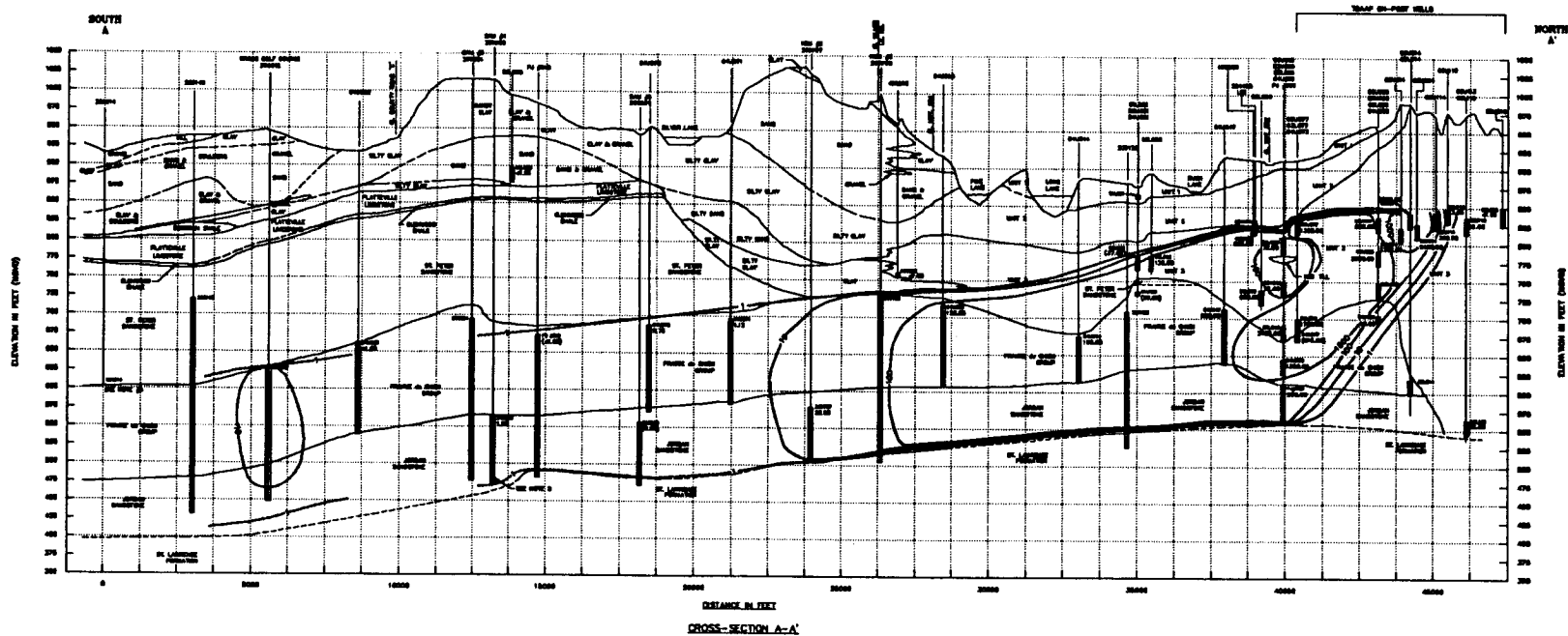
TWIN CITIES ARMY AMMUNITION PLANT

Trichloroethene Cross Sections A-A' and B-B'

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 Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
 Environmental Engineers Maple Plain, MN 55359

APRIL 1992

Figure 21



- LEGEND**
- GROUND SURFACE
 - - - WATER TABLE
 - MONITORING WELL
 - MONITORING POINT
 - △ MONITORING POINT
 - MONITORING POINT
- NOTES**
1. THIS CROSS SECTION REPRESENTS THE DATA FROM MONITORING POINTS AND MONITORING WELLS AS OF THE DATE OF THE REPORT.
 2. THE DATA FROM MONITORING POINTS AND MONITORING WELLS IS SUBJECT TO THE ACCURACY OF THE DATA PROVIDED BY THE USER.
 3. THE DATA FROM MONITORING POINTS AND MONITORING WELLS IS SUBJECT TO THE ACCURACY OF THE DATA PROVIDED BY THE USER.
 4. THE DATA FROM MONITORING POINTS AND MONITORING WELLS IS SUBJECT TO THE ACCURACY OF THE DATA PROVIDED BY THE USER.
 5. THE DATA FROM MONITORING POINTS AND MONITORING WELLS IS SUBJECT TO THE ACCURACY OF THE DATA PROVIDED BY THE USER.
- SCALE**
- 1" = 100'
- 1" = 100'

Wenck
 CONSULTING ENGINEERS
 1800 PIONEER CREEK CENTER
 MAPLE PLAIN, MN 55359
 PHONE (612) 835-1100
 FAX (612) 835-1101
 WWW.WENCK.COM

TWIN CITIES ARMY AMMUNITION PLANT

1,1,1-Trichloroethane Cross Sections A-A' and B-B'

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 Environmental Engineers Maple Plain, MN 55359

APRIL 1992

Figure 22

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

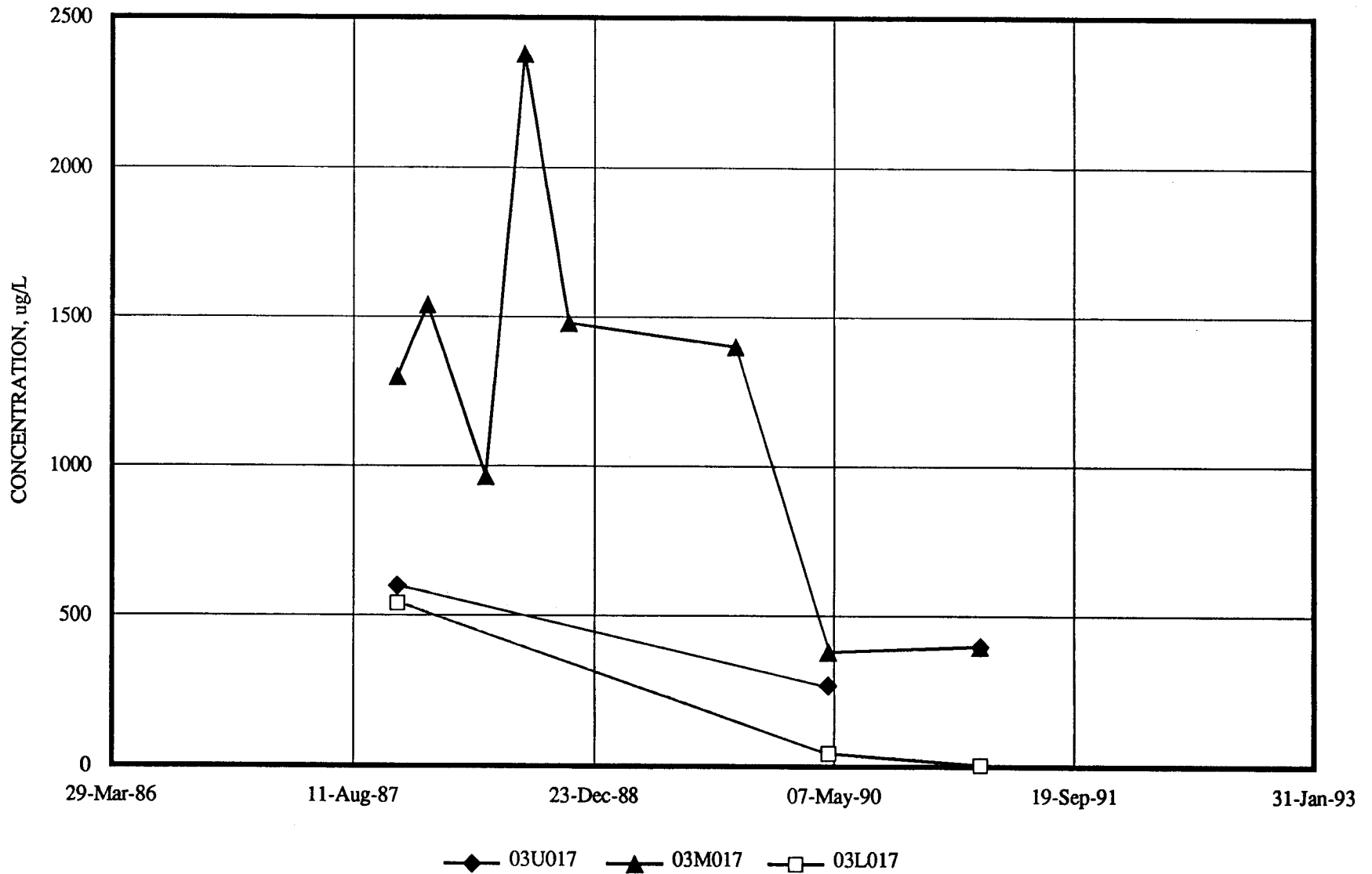


Figure 23, SITE D
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

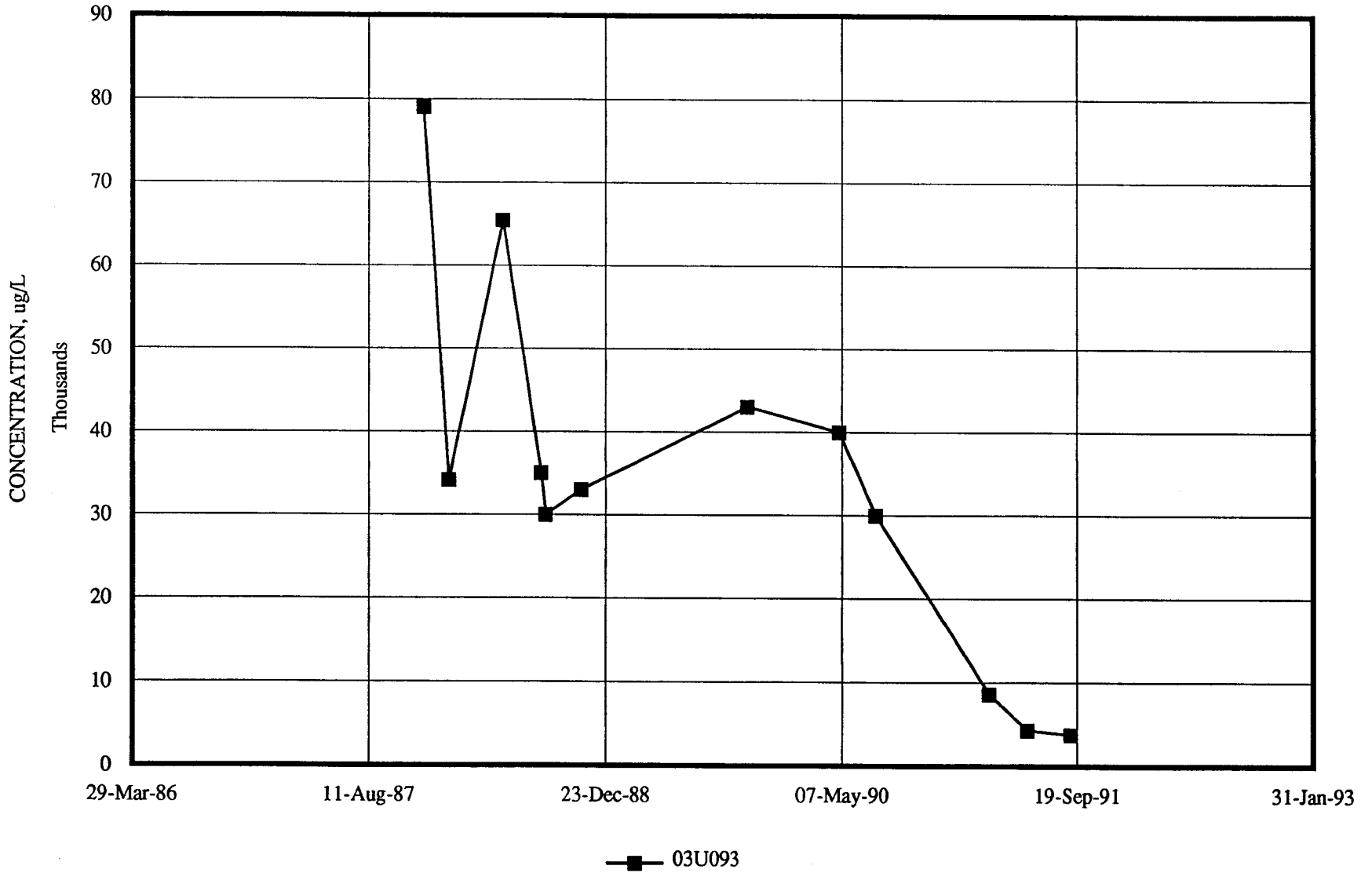


Figure 24, SITE D
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

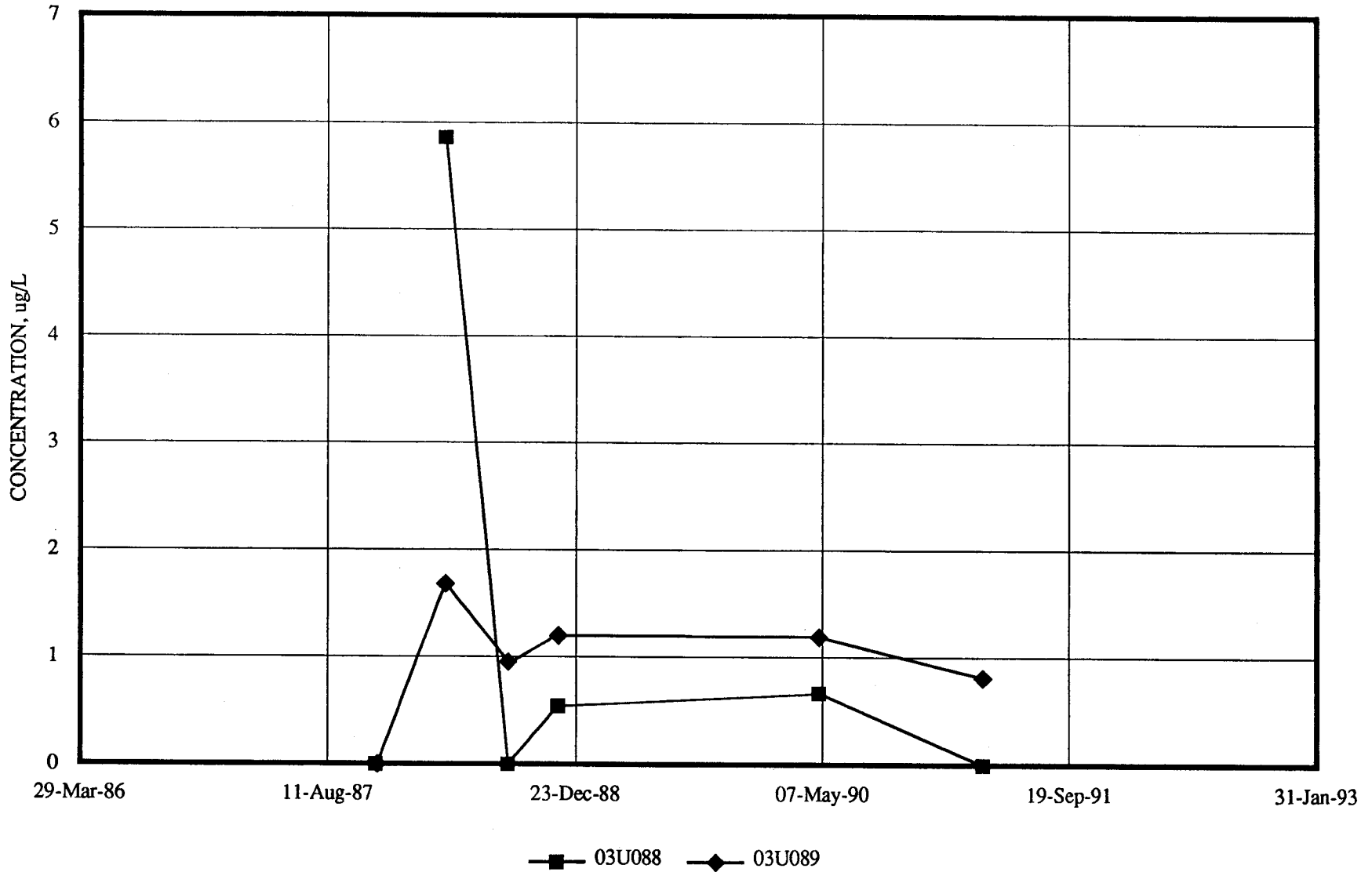


Figure 25, SITE E
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

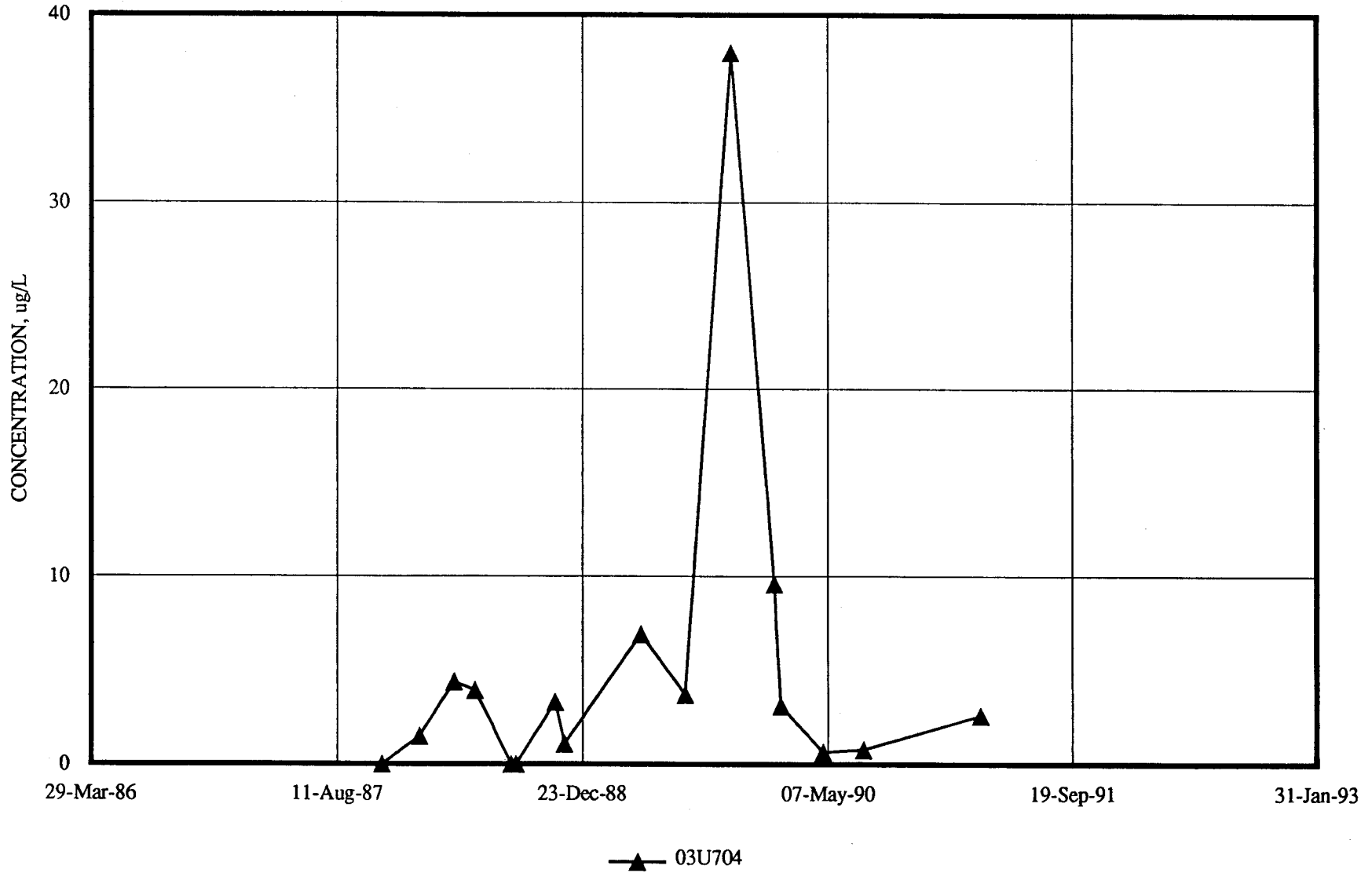


Figure 26, SITE E
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

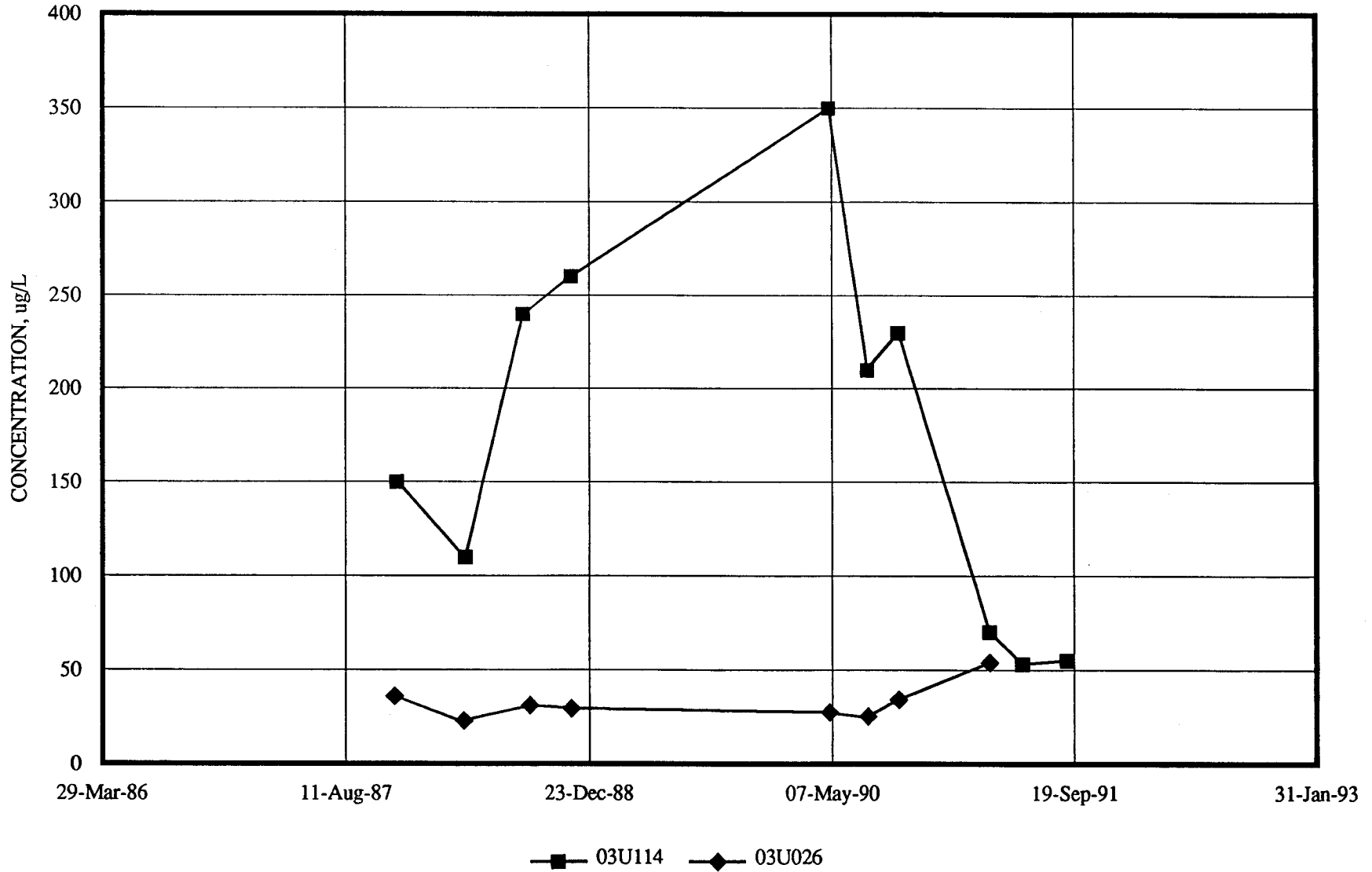


Figure 27, SITE F
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

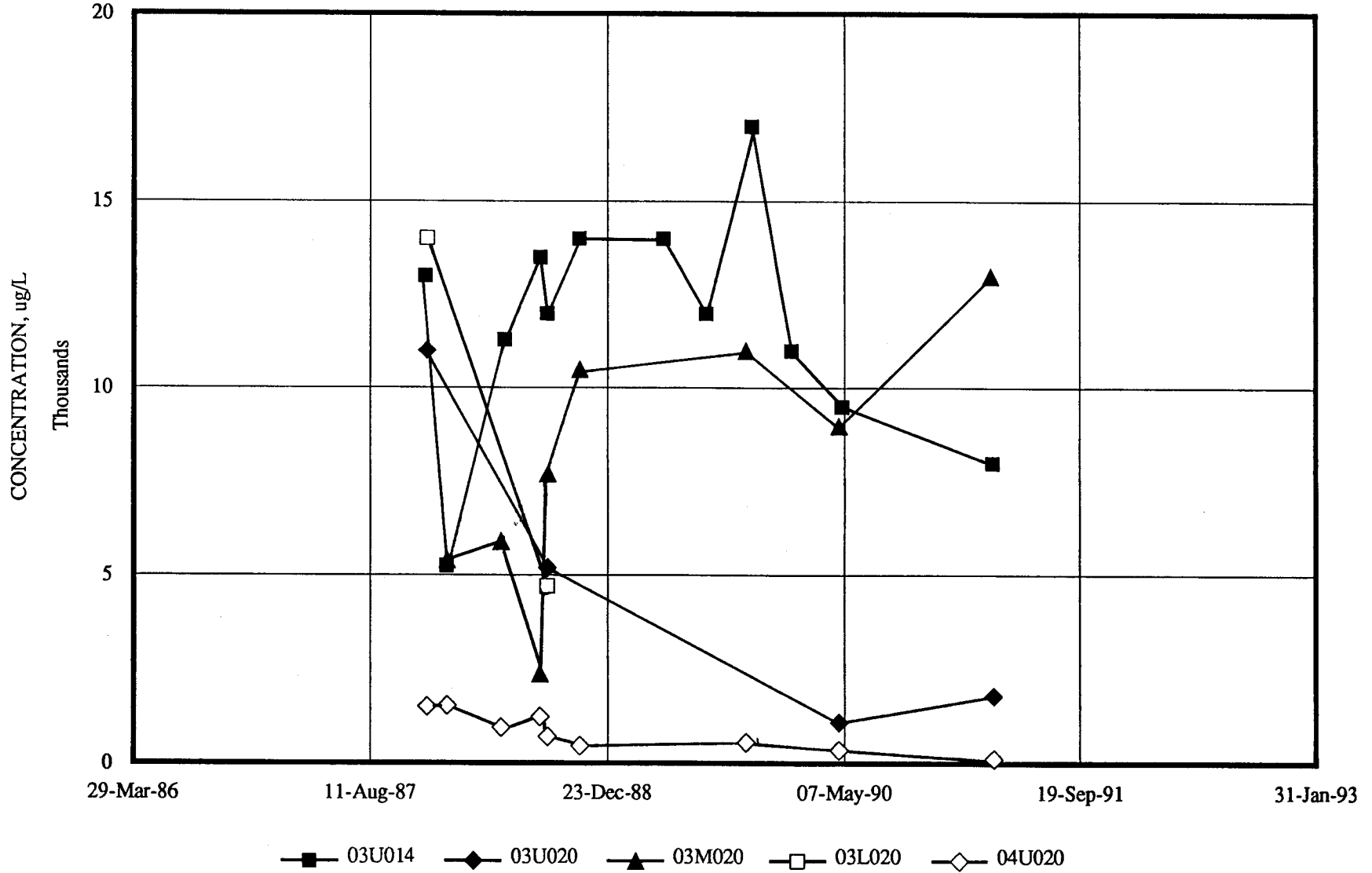


Figure 28, SITE G
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

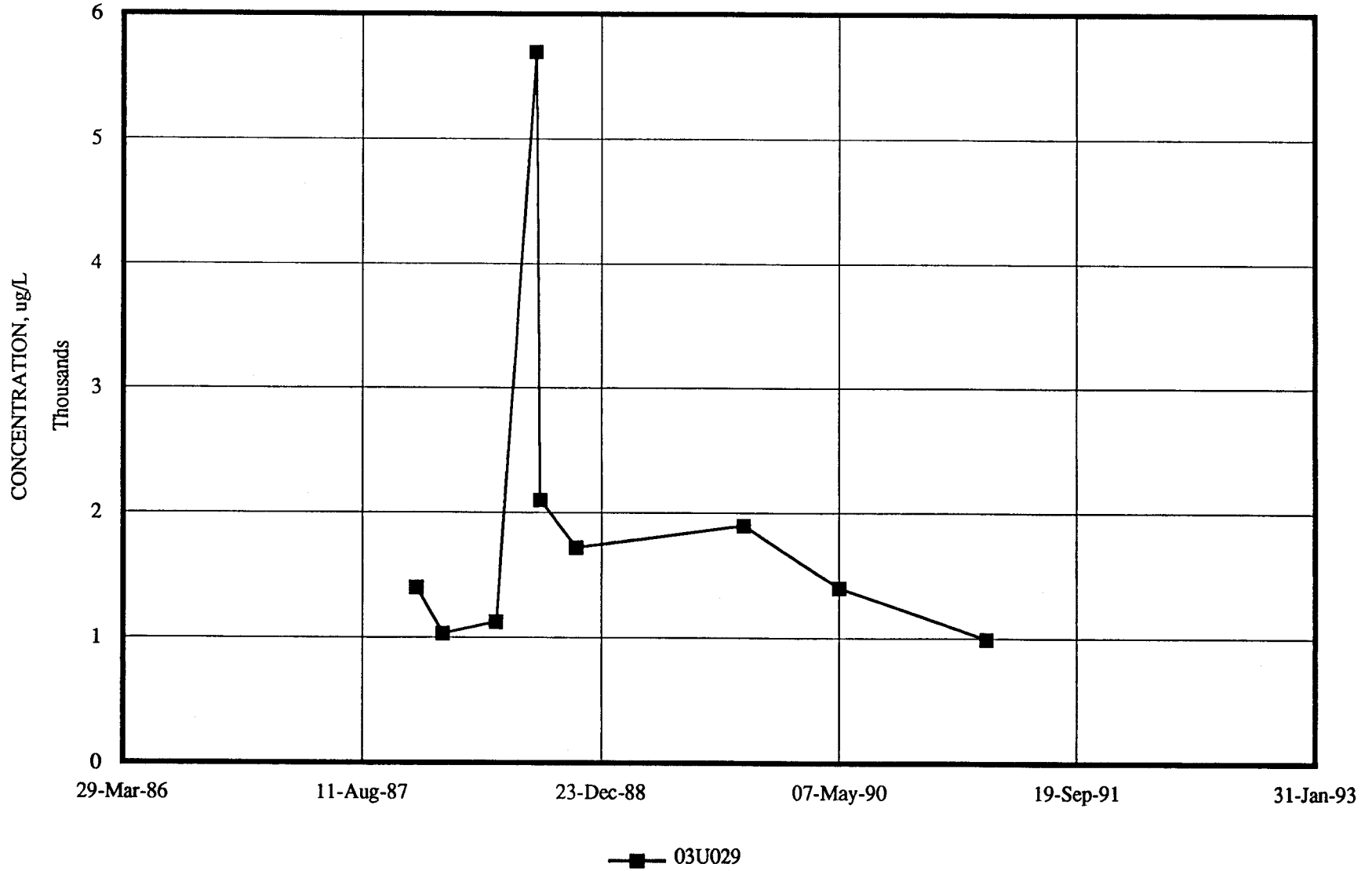


Figure 29, SITE I
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

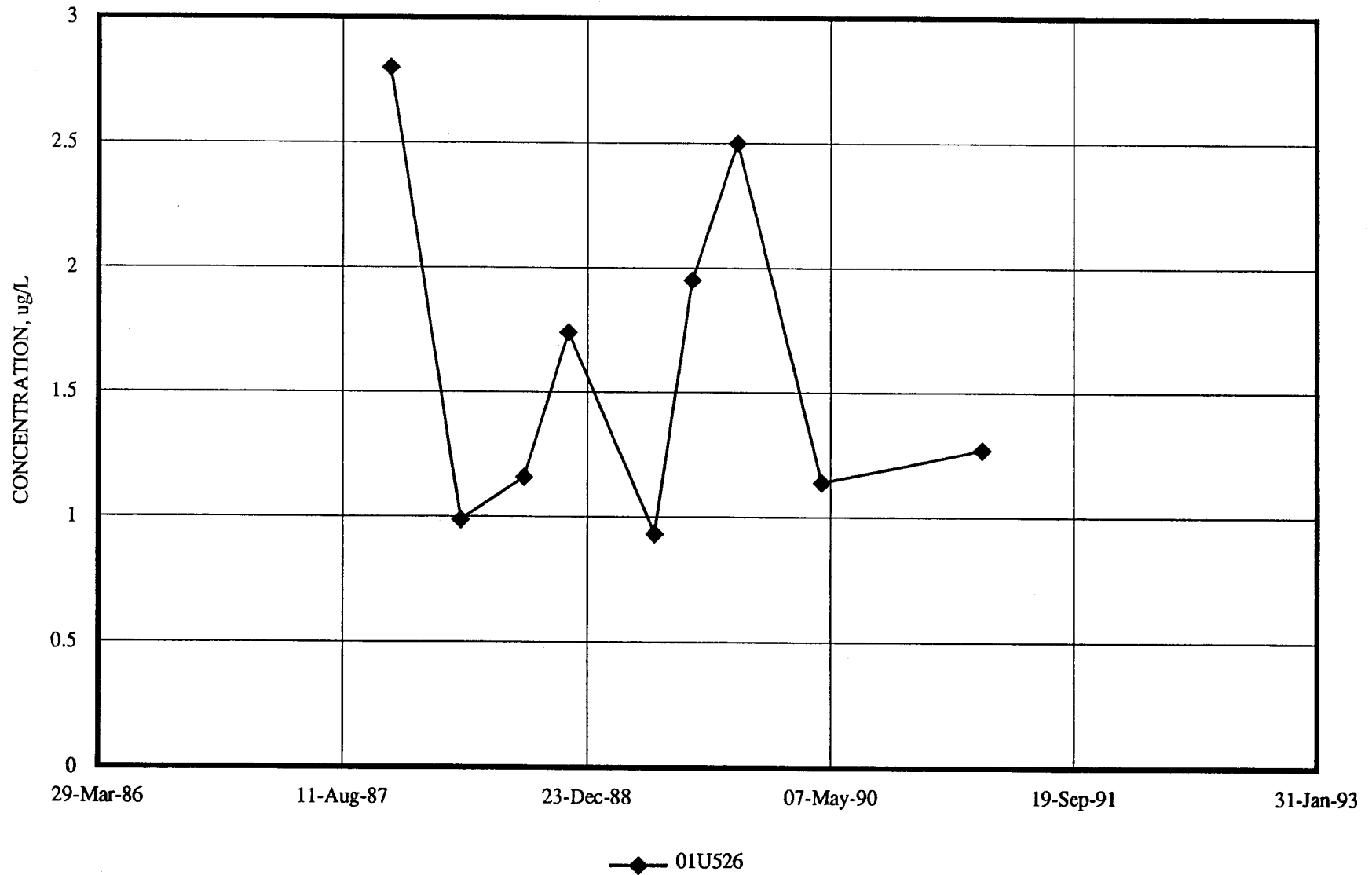


Figure 30, SITE J
WENCK ASSOCIATES, INC.

TRCLE AND 111TCE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

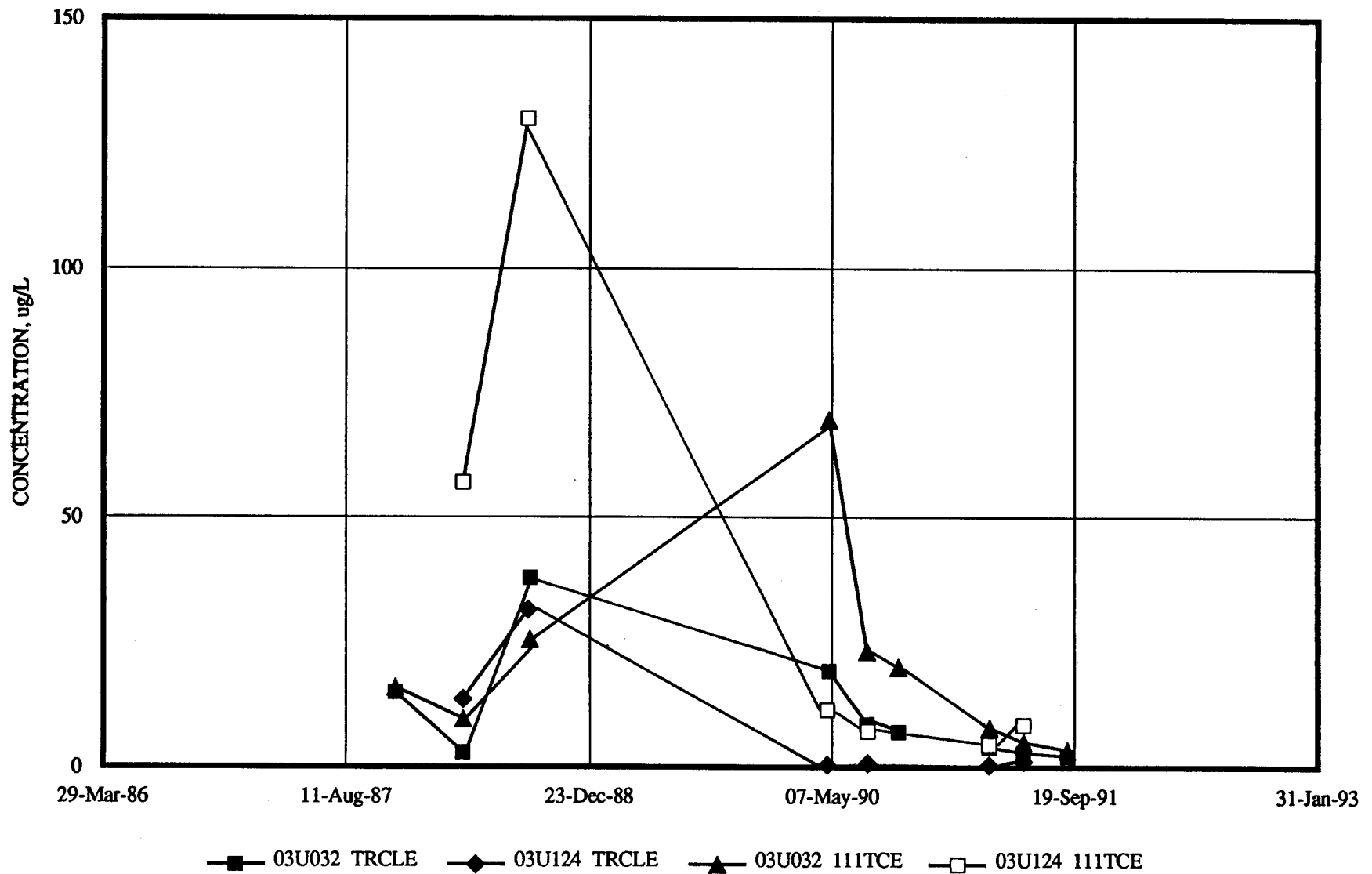


Figure 31, SITE 129-15

WENCK ASSOCIATES, INC.

TRCLE is TRICHLOROTHENE 111TCE is 1,1,1-TRICHLOROTHANE

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

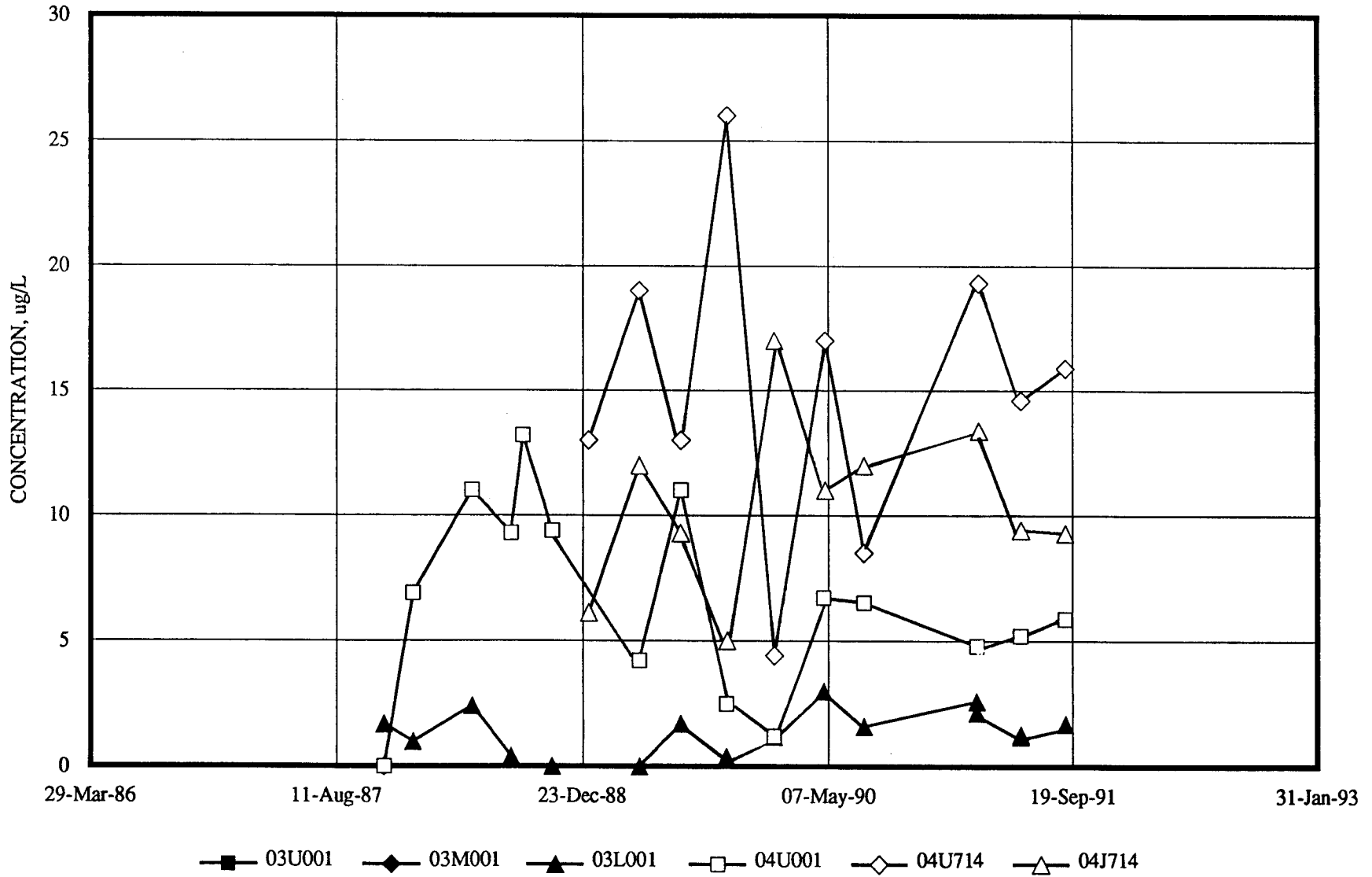


Figure 32, 001 AND 714 WELL NESTS
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

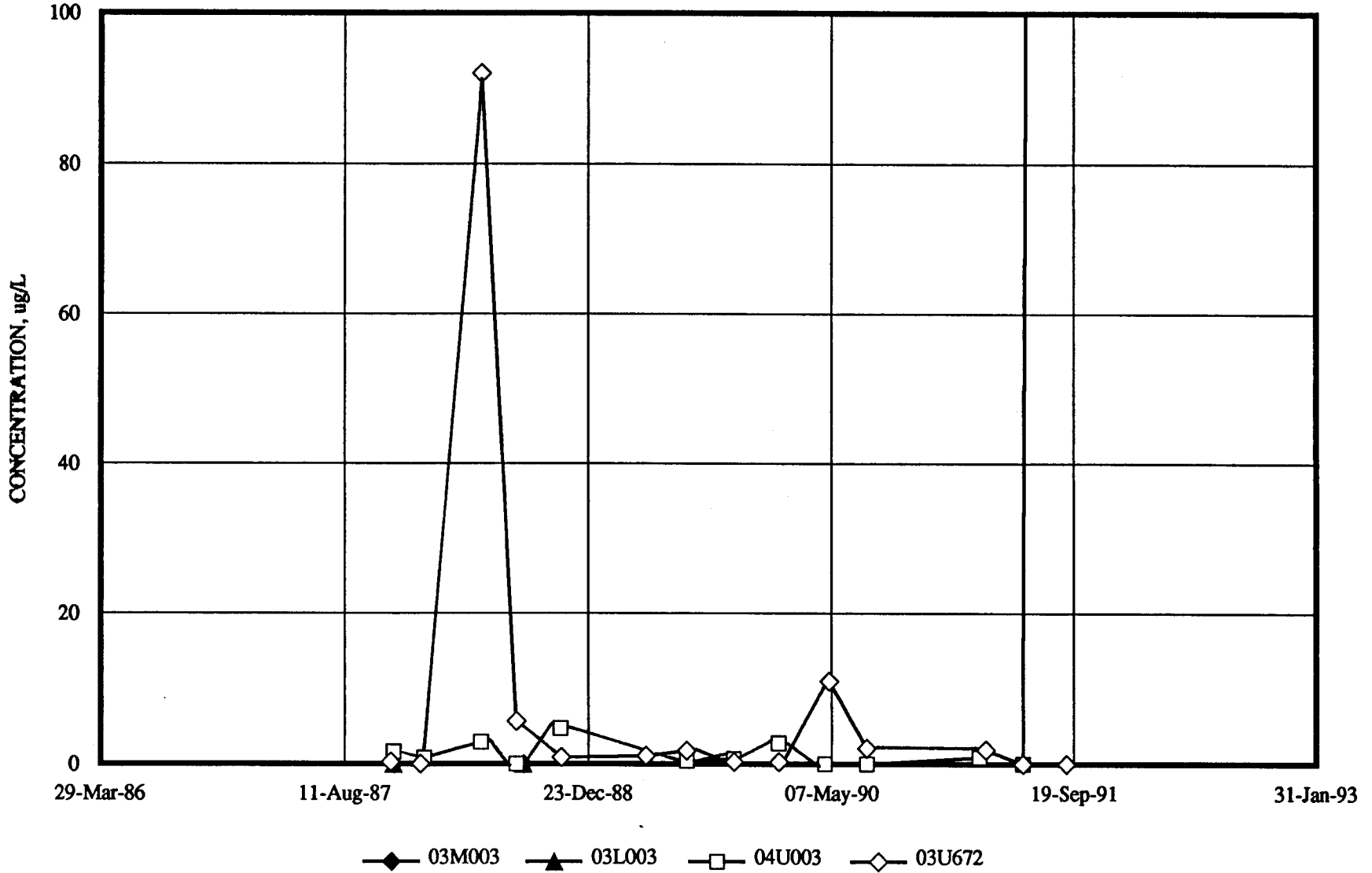


Figure 33, 003 WELL NEST AND 672
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

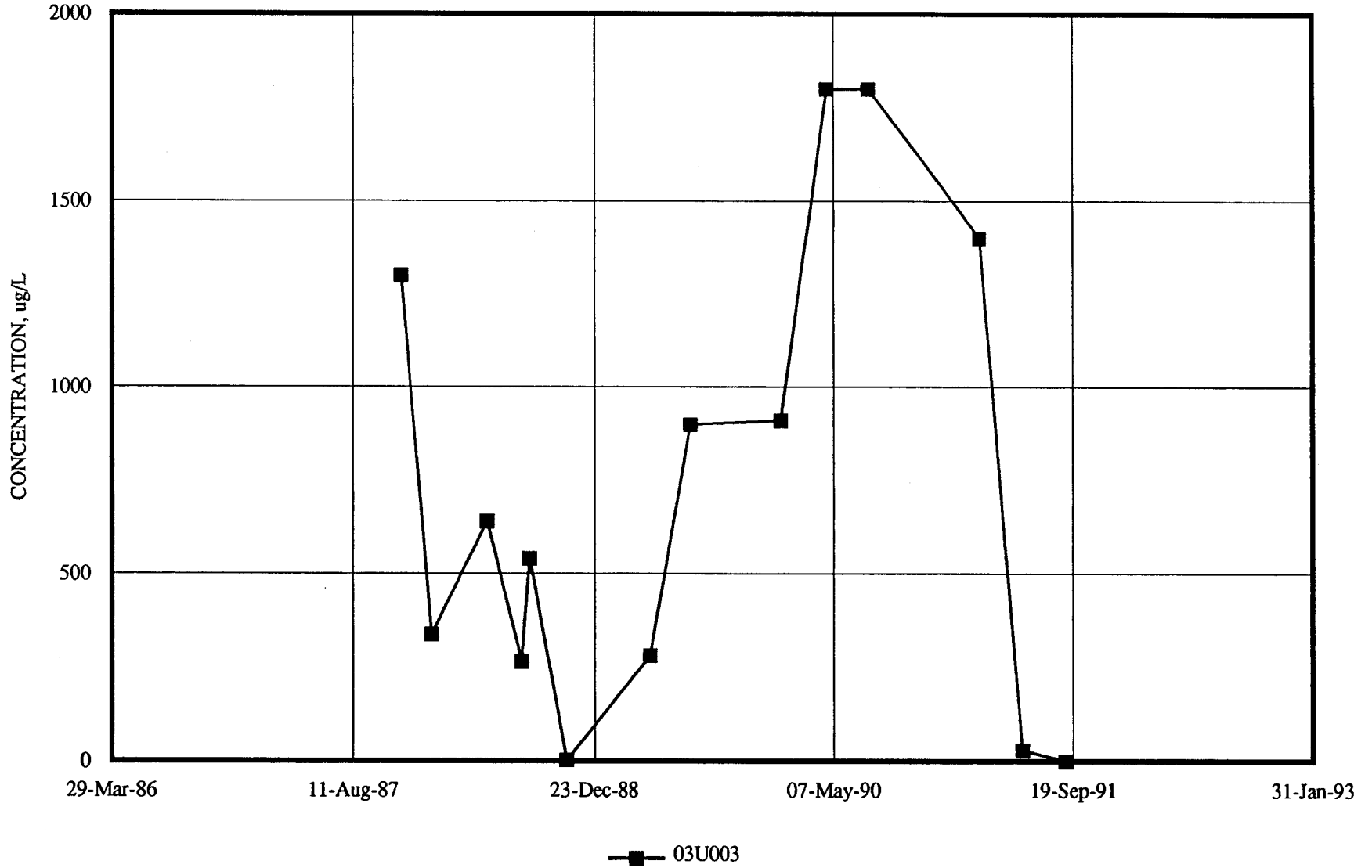


Figure 34, 03U003
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

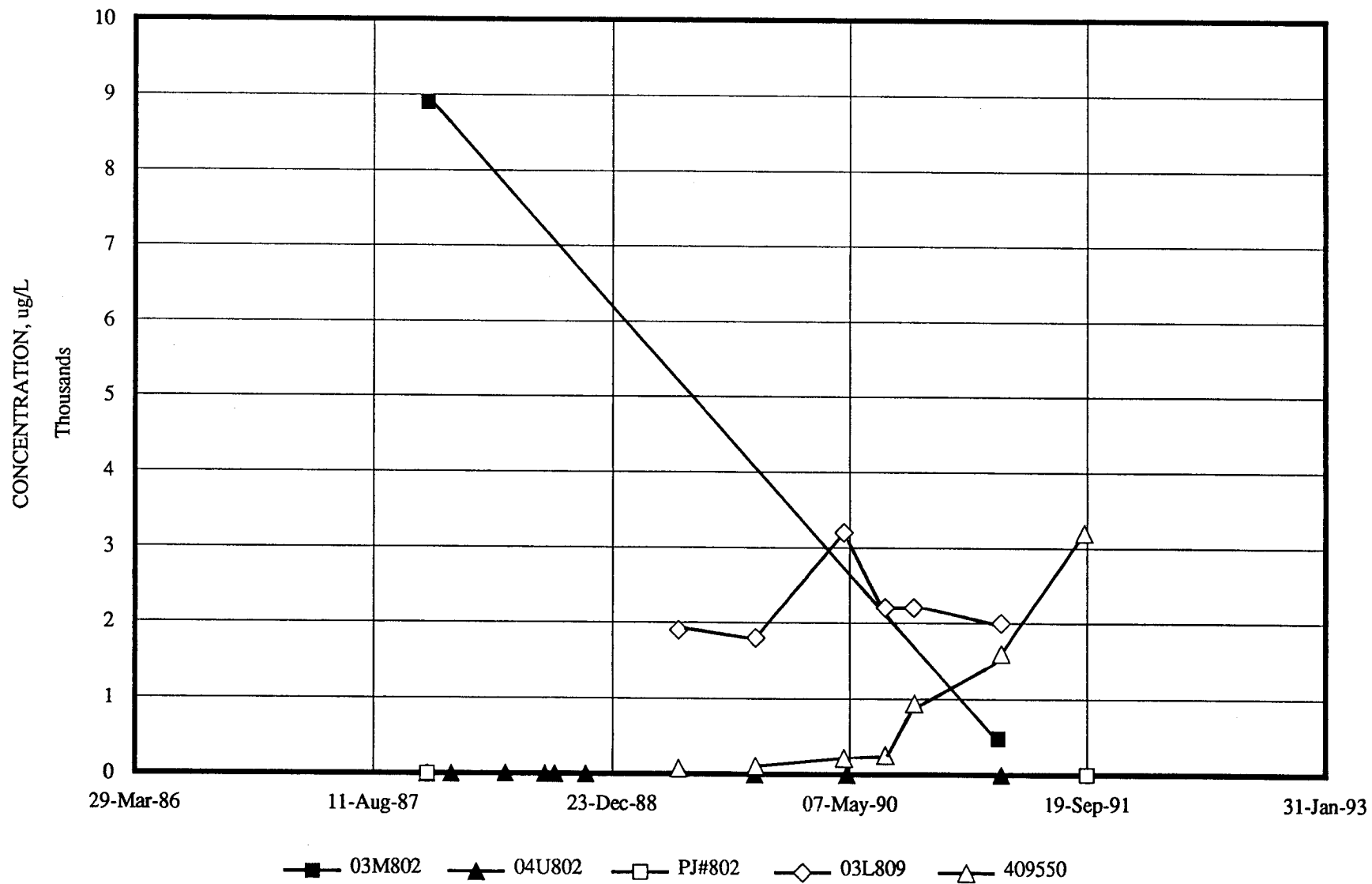


Figure 35, 802 WELL NEST, 03L809, 409550
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

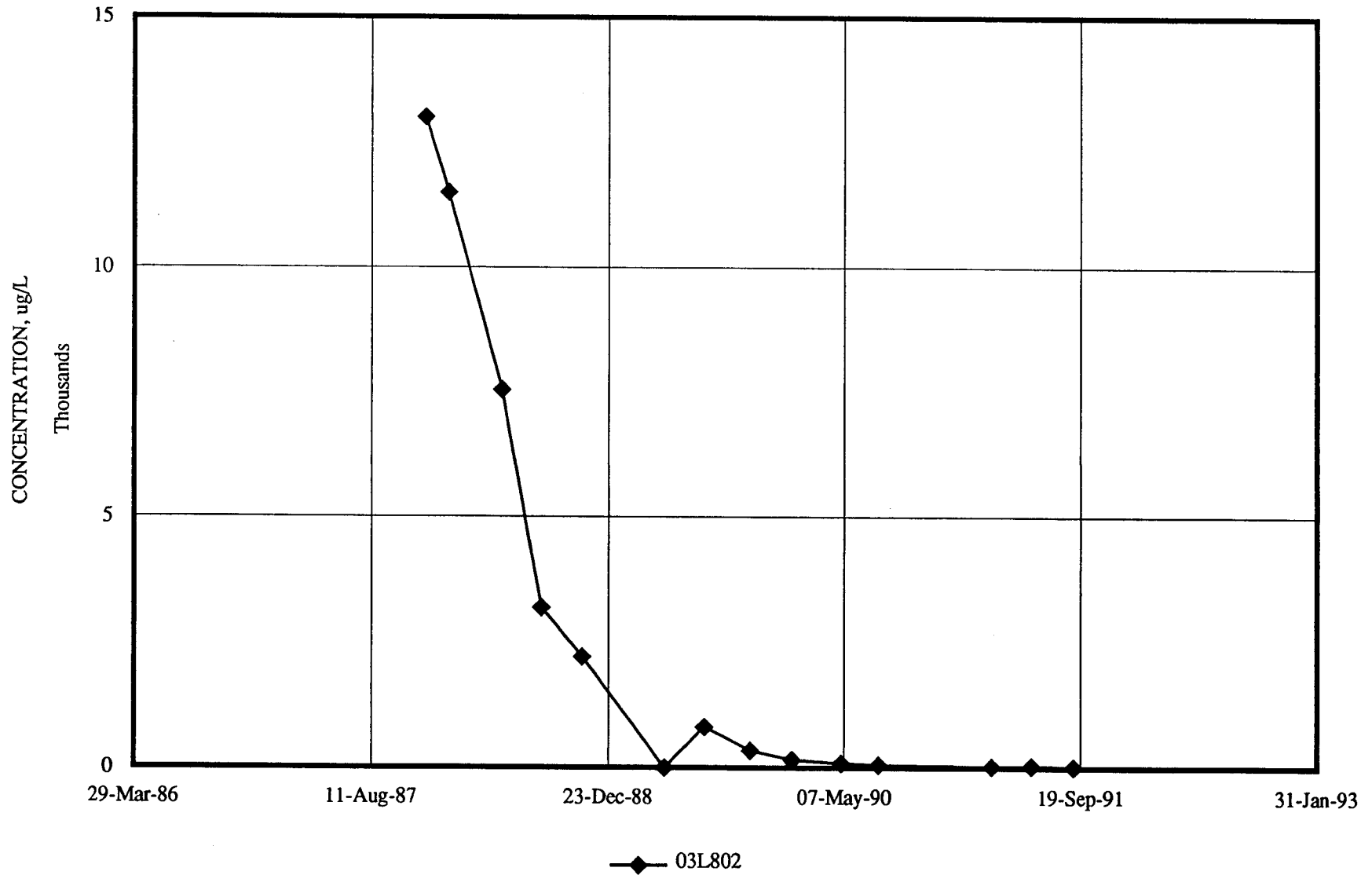


Figure 36, 03L802
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

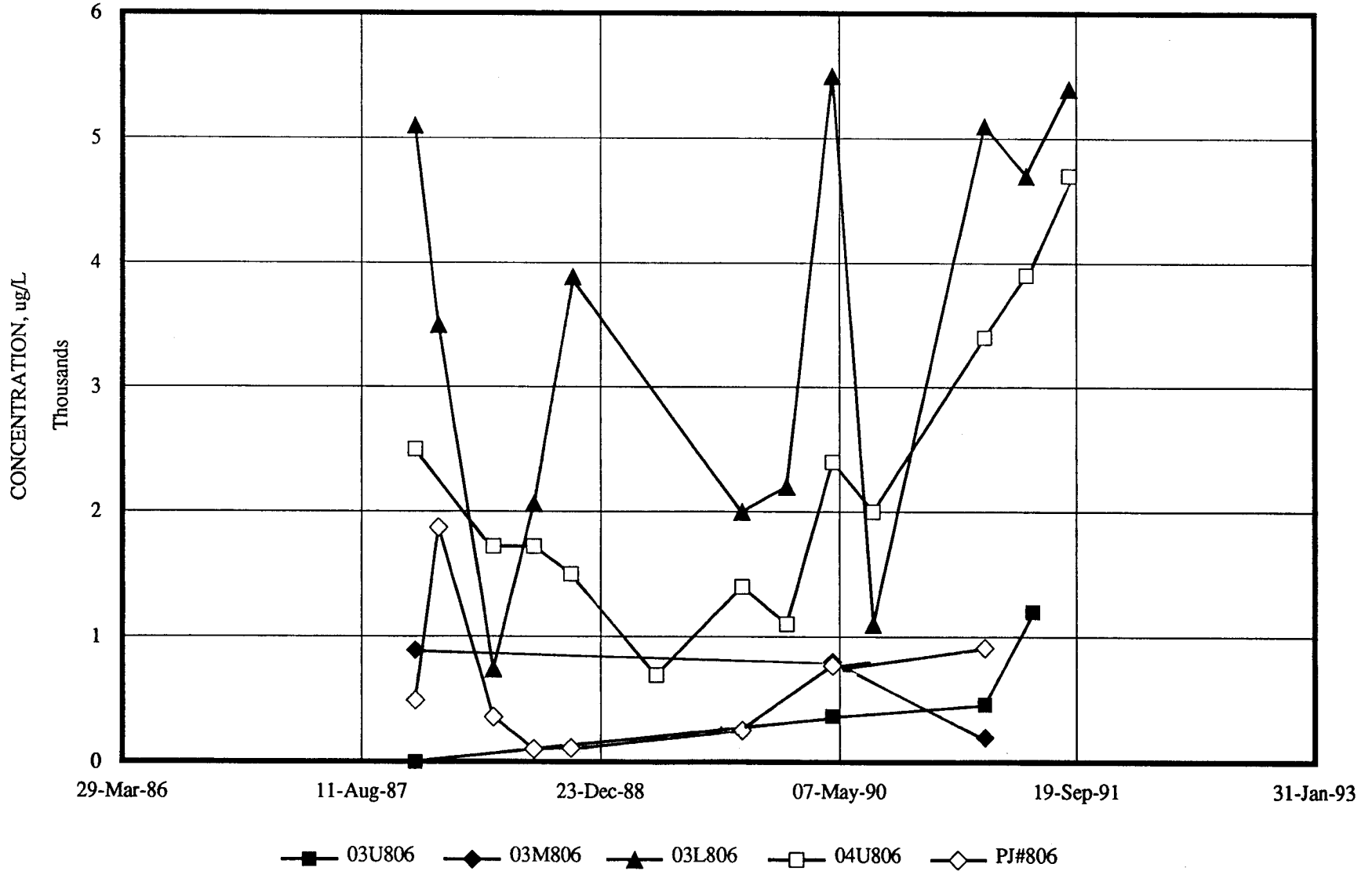


Figure 37, 806 WELL NEST
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

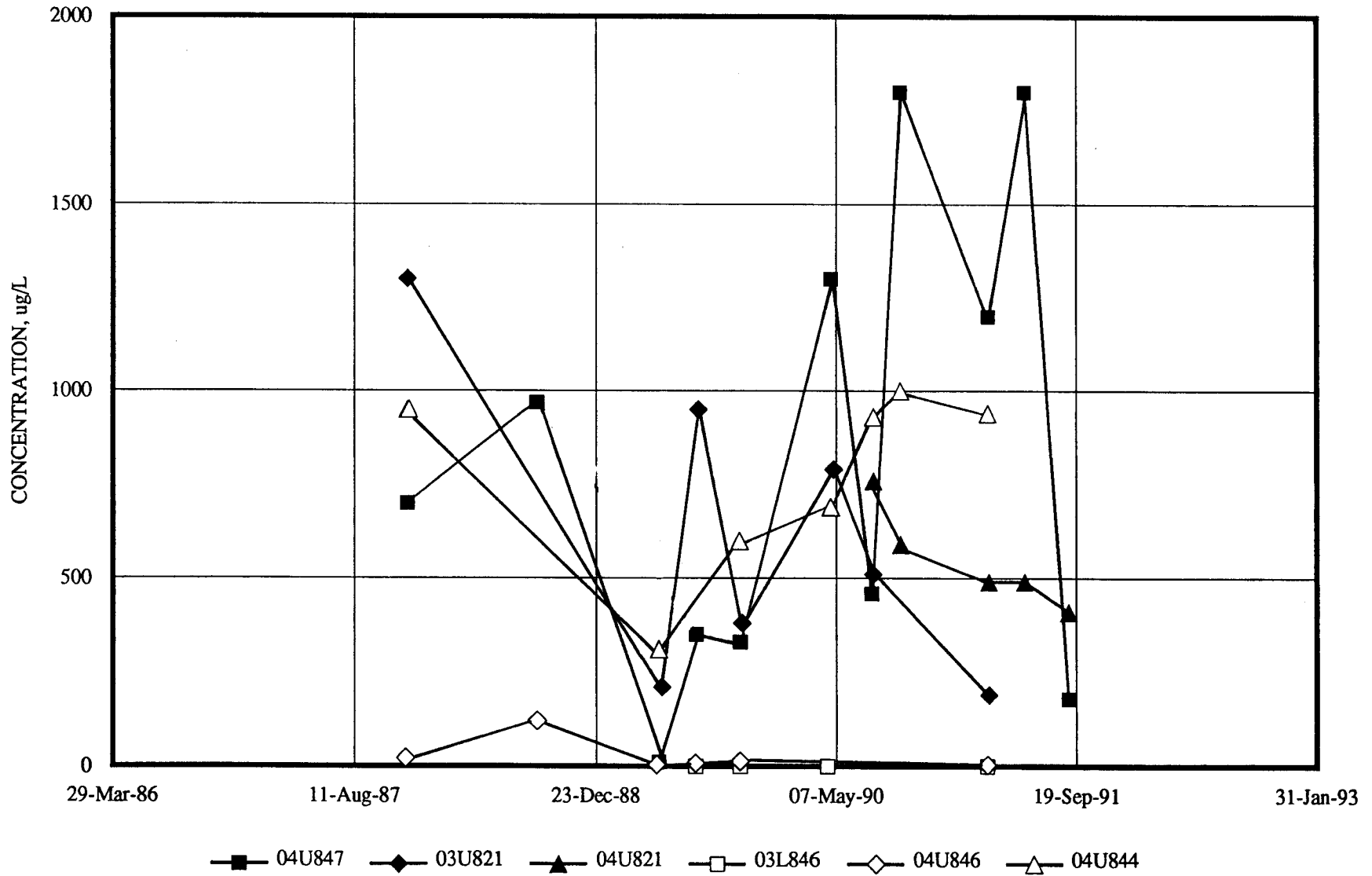


Figure 38, OFF-POST
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

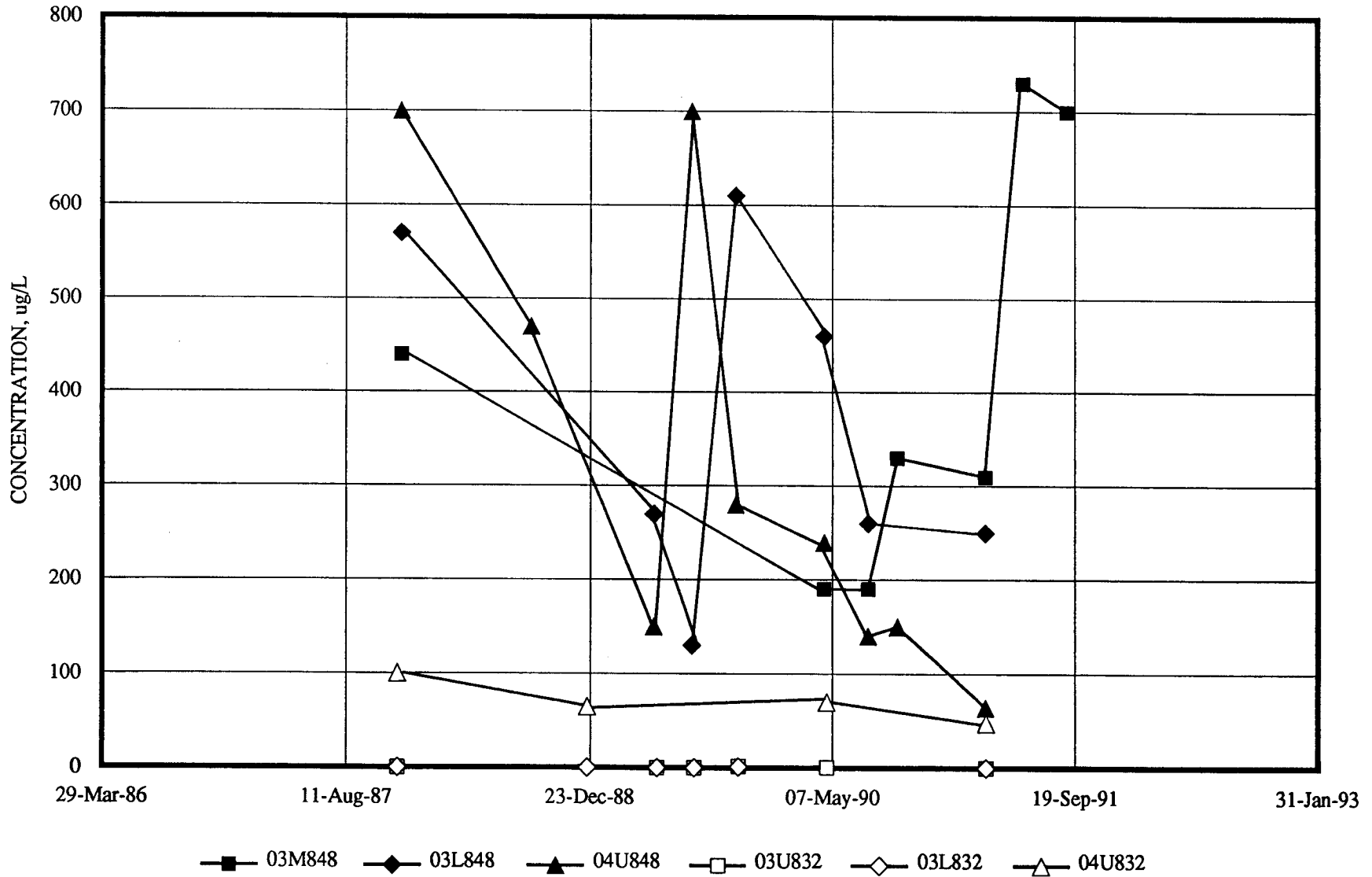


Figure 39, OFF-POST
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

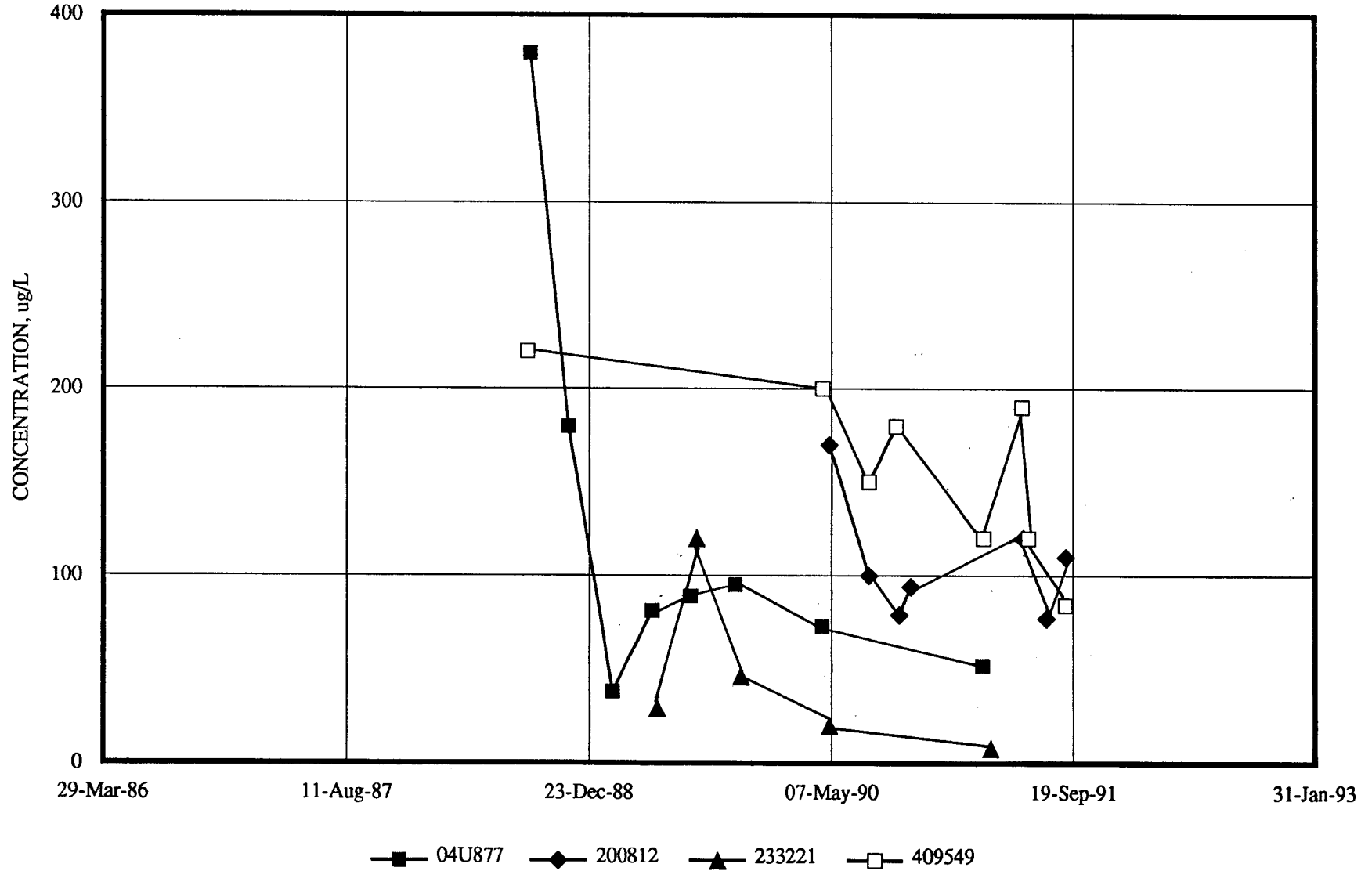


Figure 40, OFF-POST
WENCK ASSOCIATES, INC.

1,2-DICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

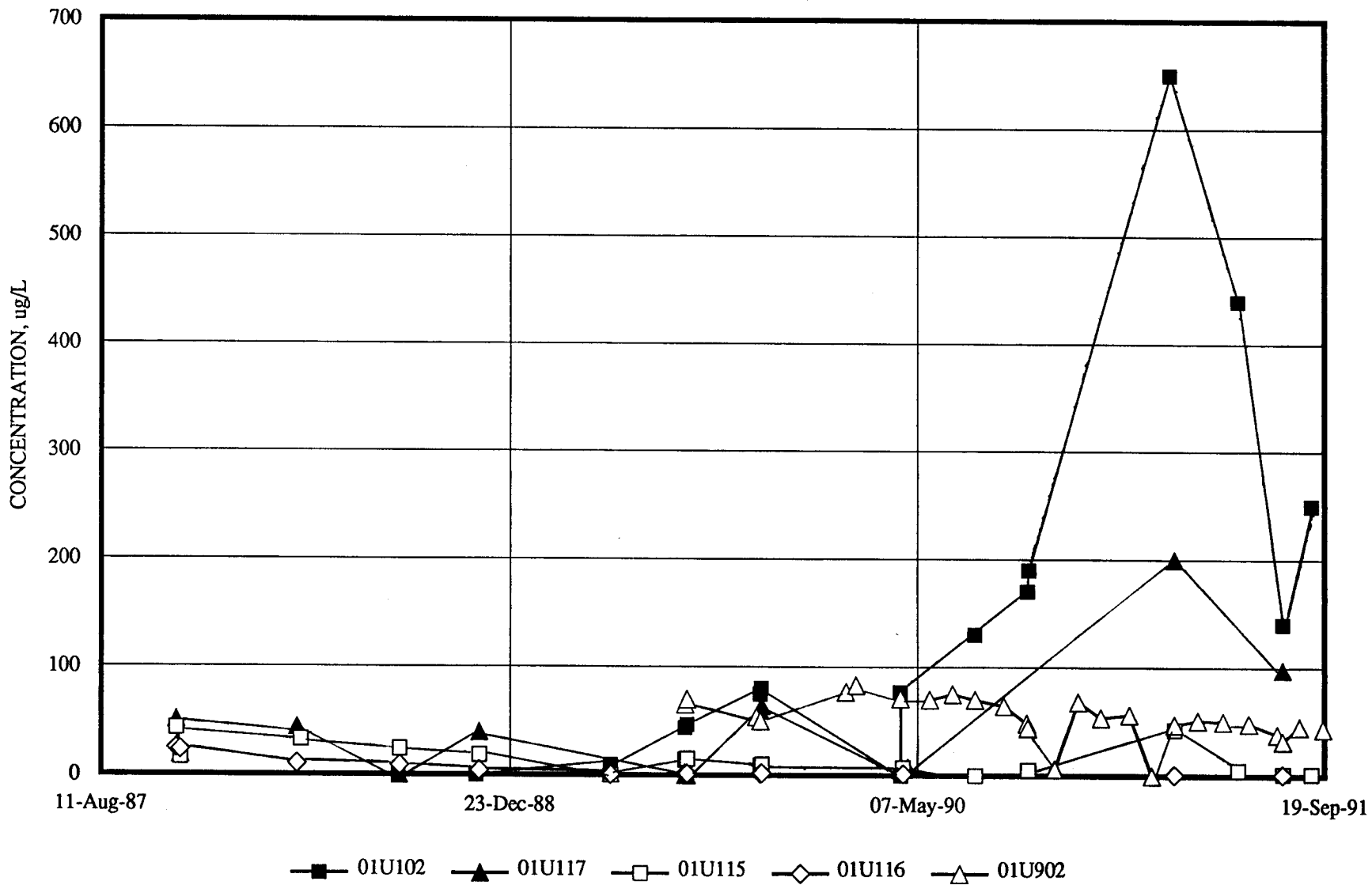


Figure 41, SITE A
WENCK ASSOCIATES, INC.

TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

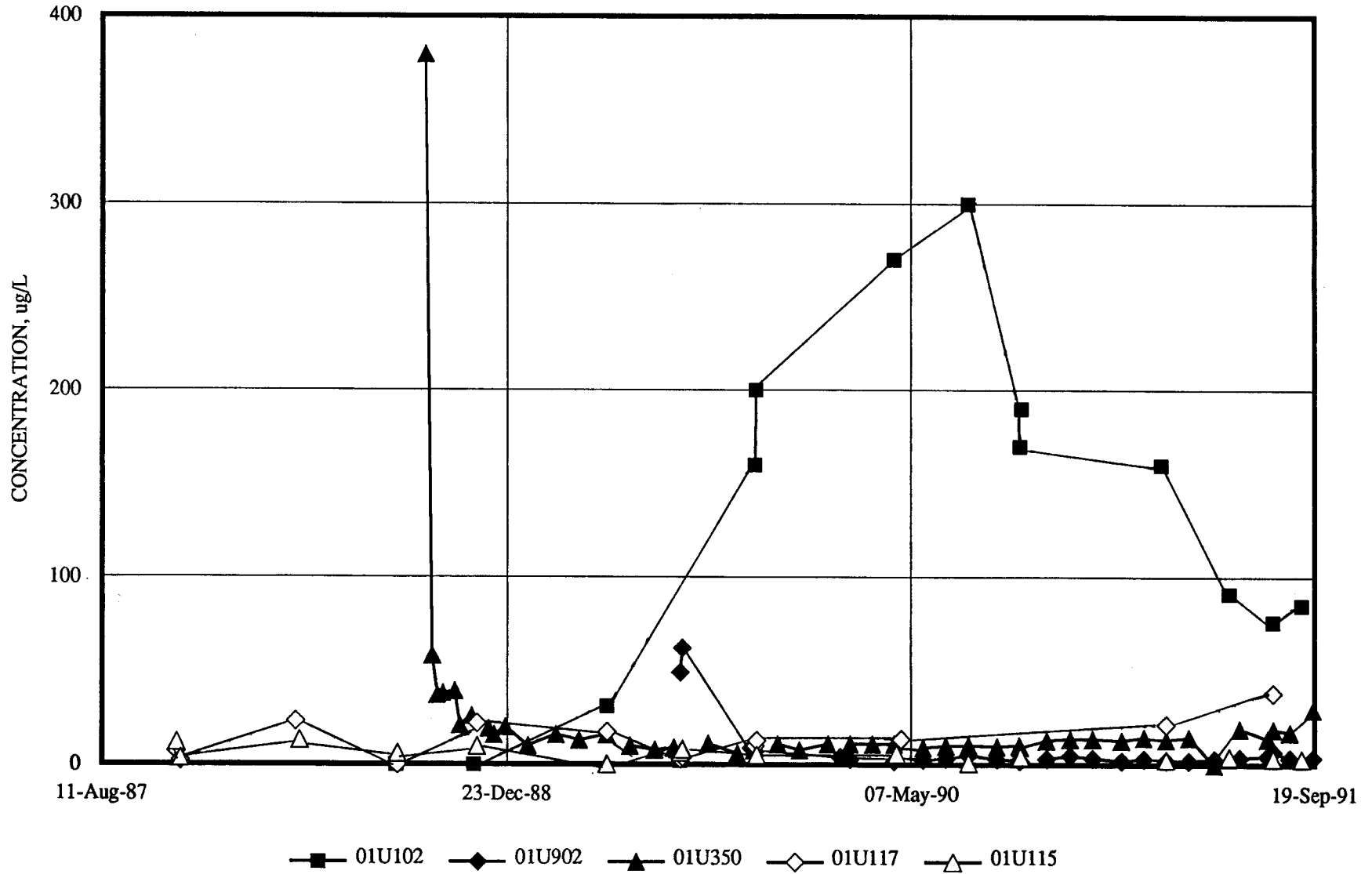


Figure 42. SITE A
WENCK ASSOCIATES, INC.

TETRACHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT

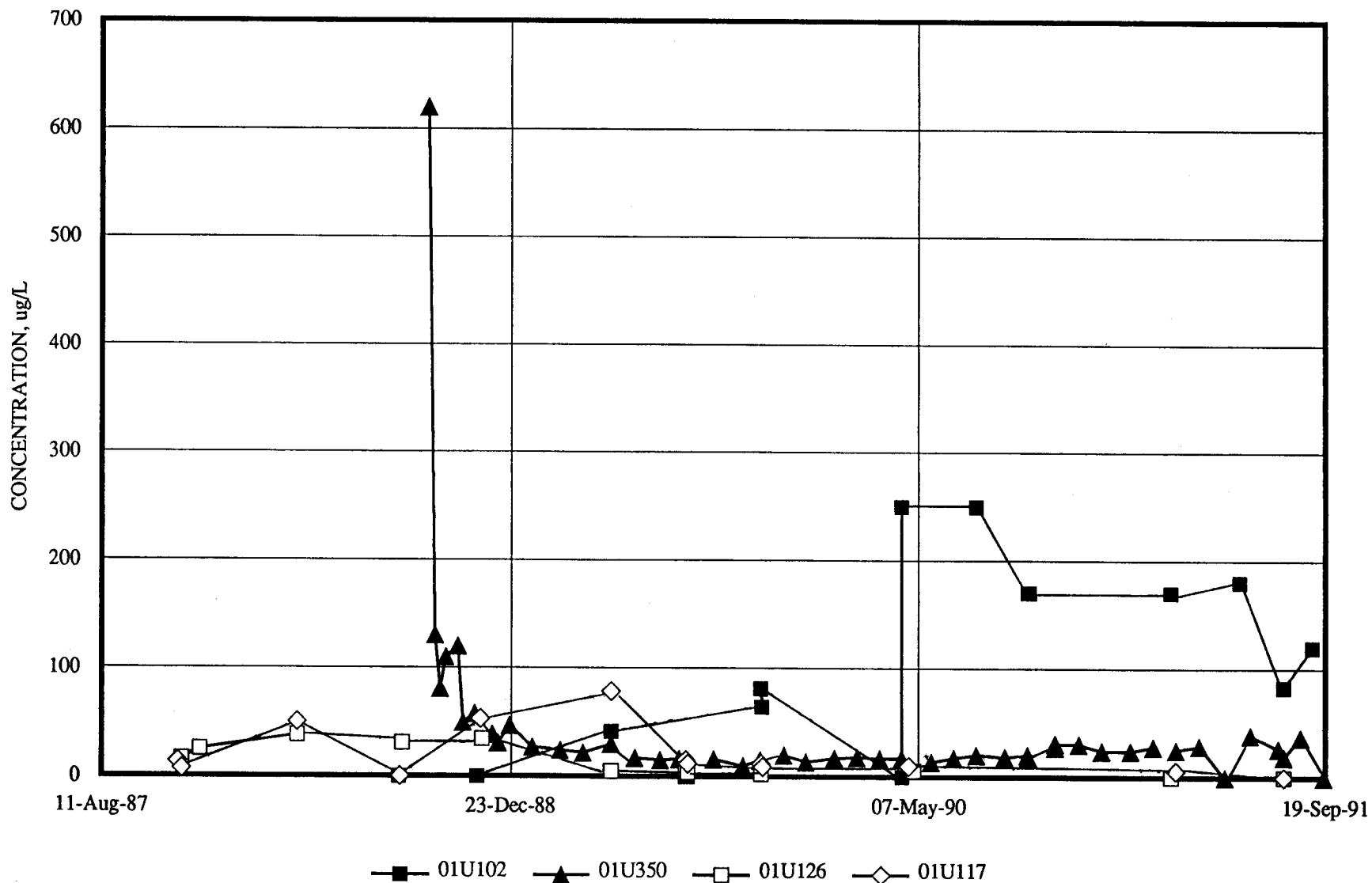
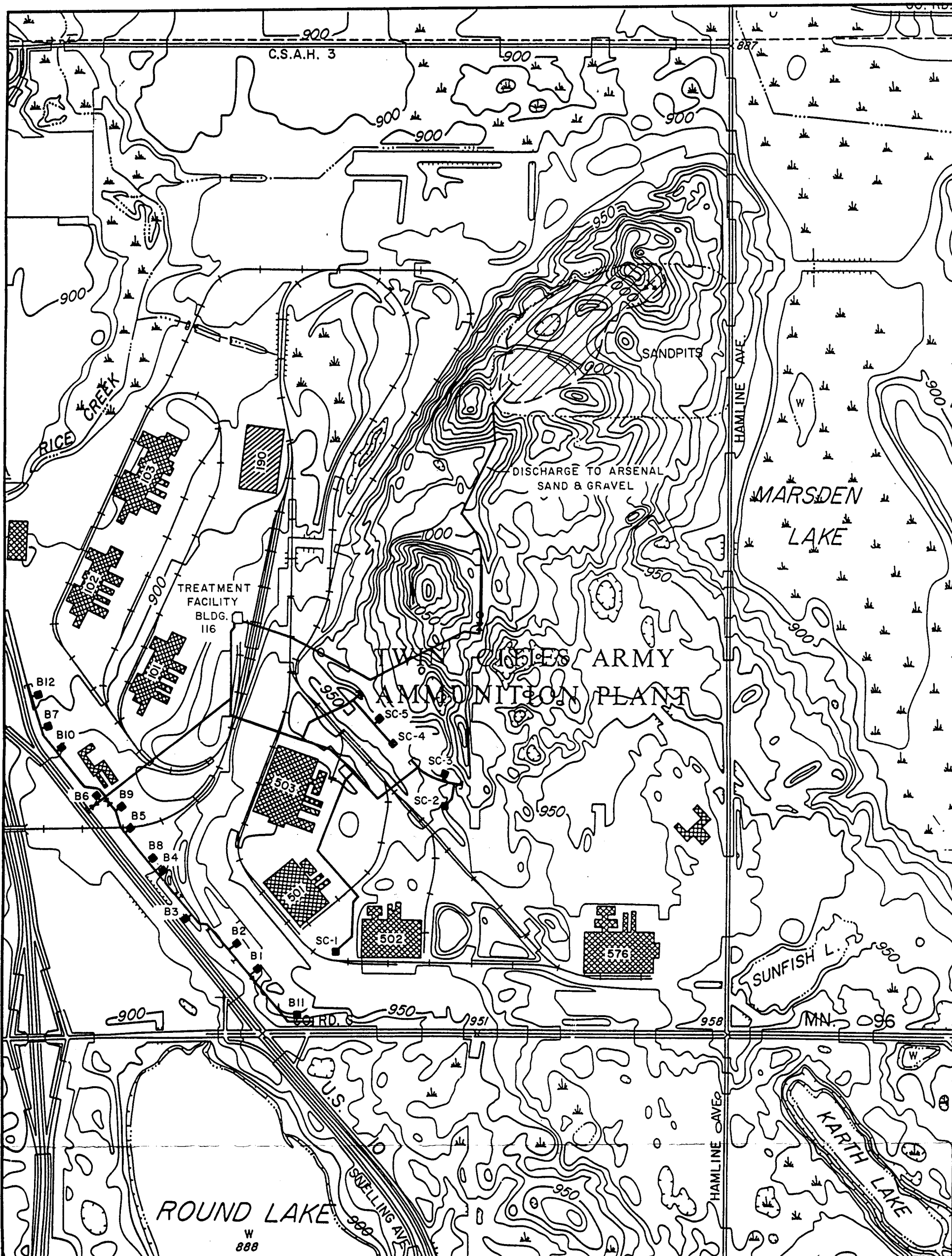


Figure 43, SITE A
WENCK ASSOCIATES, INC.



LEGEND

- EXTRACTION WELL LOCATION
- ▨ ARSENAL SAND AND GRAVEL PIT

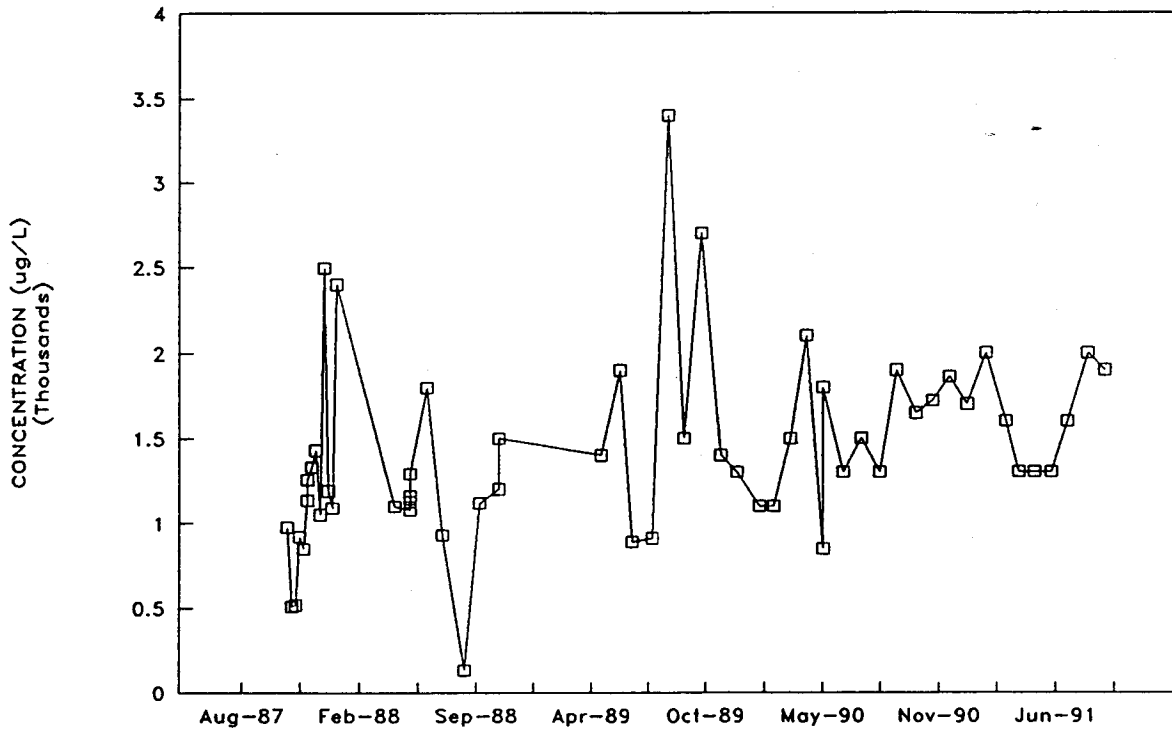


SCALE: 1" = 1000'

CRA

figure 45
TGRS LAYOUT
Twin Cities Army Ammunition Plant

TRCLE vs. TIME - INFLUENT



TRCLE vs. TIME - EFFLUENT

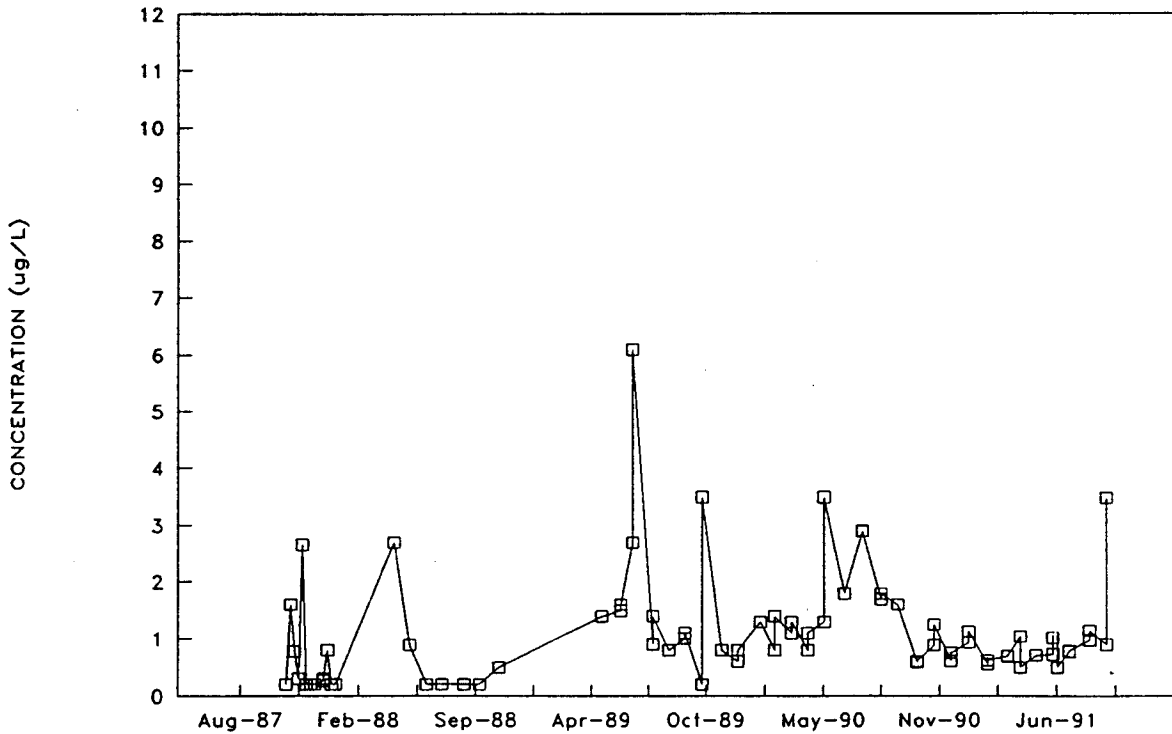


figure 46

TGRS TREATMENT SYSTEM PERFORMANCE
Twin Cities Army Ammunition Plant

CRA

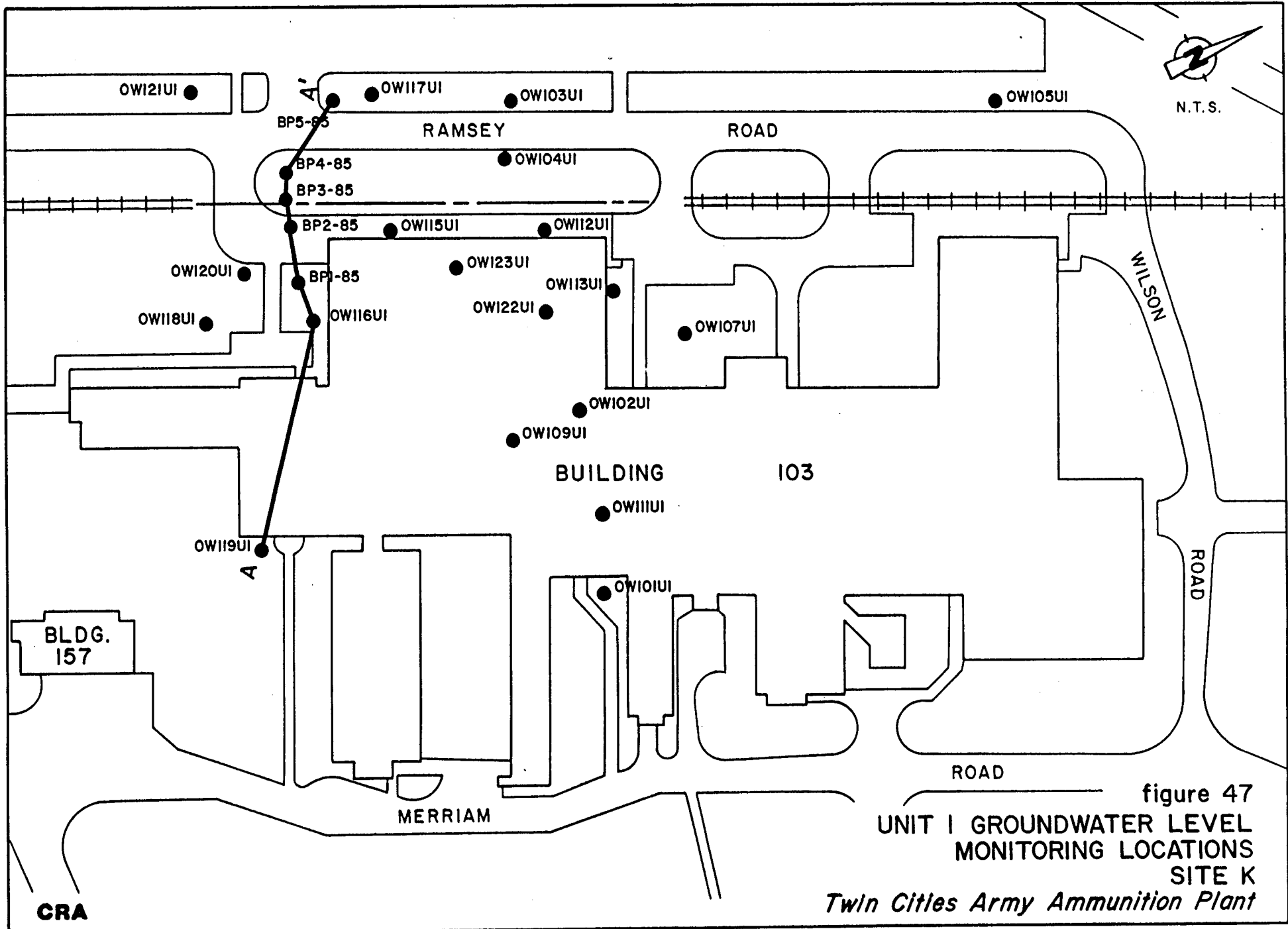


figure 47
 UNIT I GROUNDWATER LEVEL
 MONITORING LOCATIONS
 SITE K
Twin Cities Army Ammunition Plant

CRA

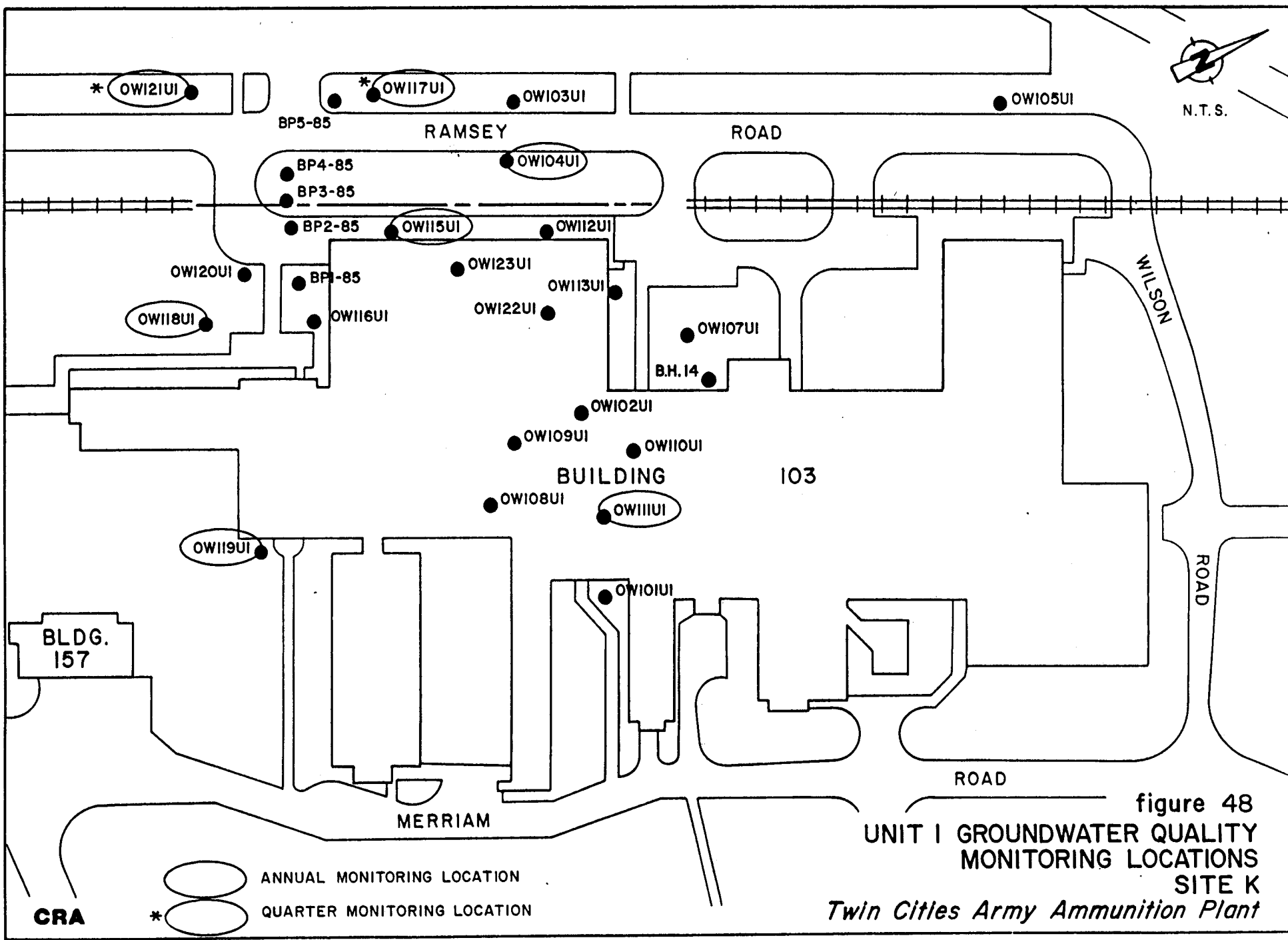
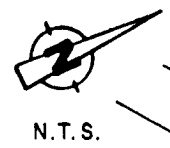


figure 48
UNIT I GROUNDWATER QUALITY
MONITORING LOCATIONS
SITE K
Twin Cities Army Ammunition Plant

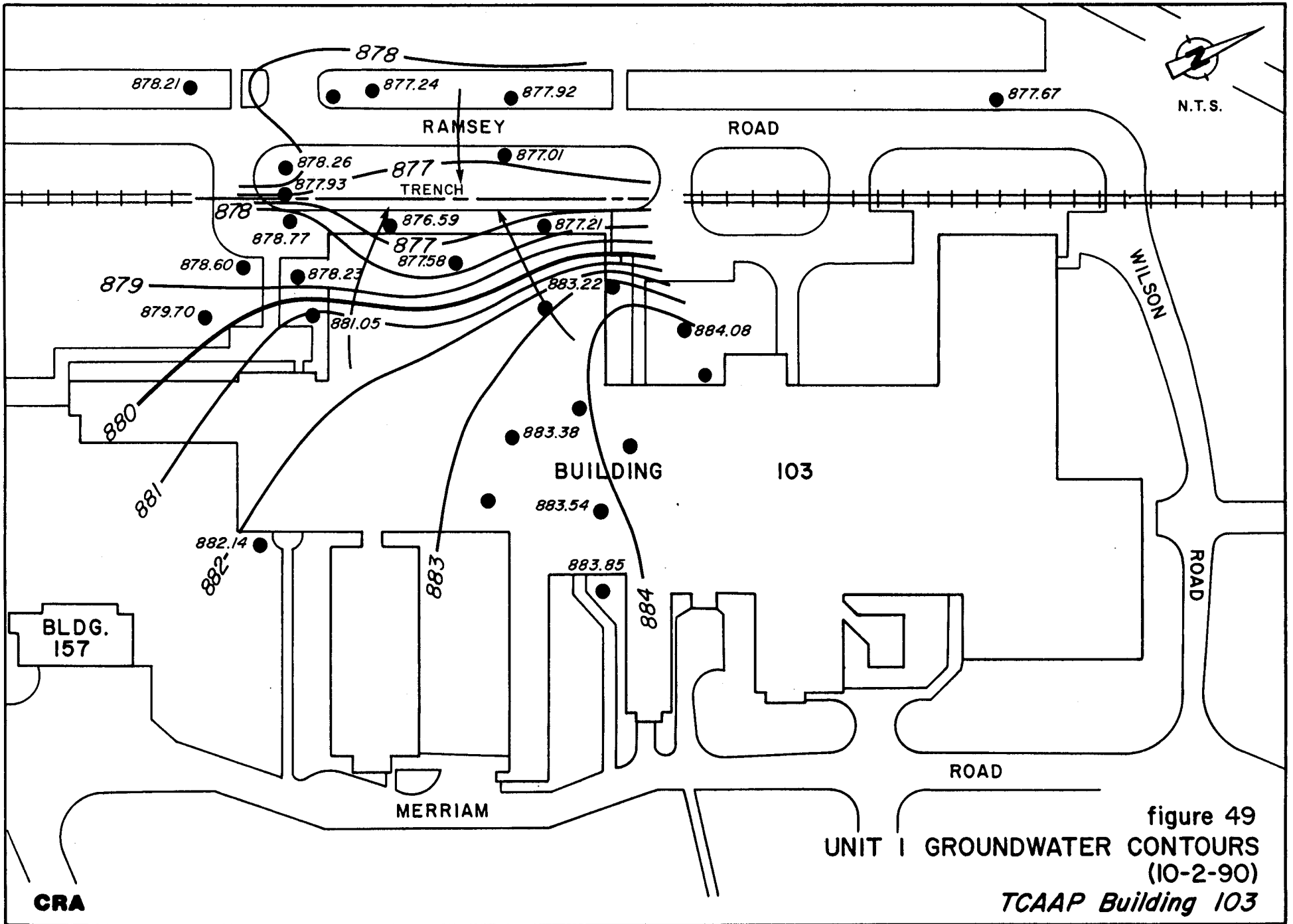
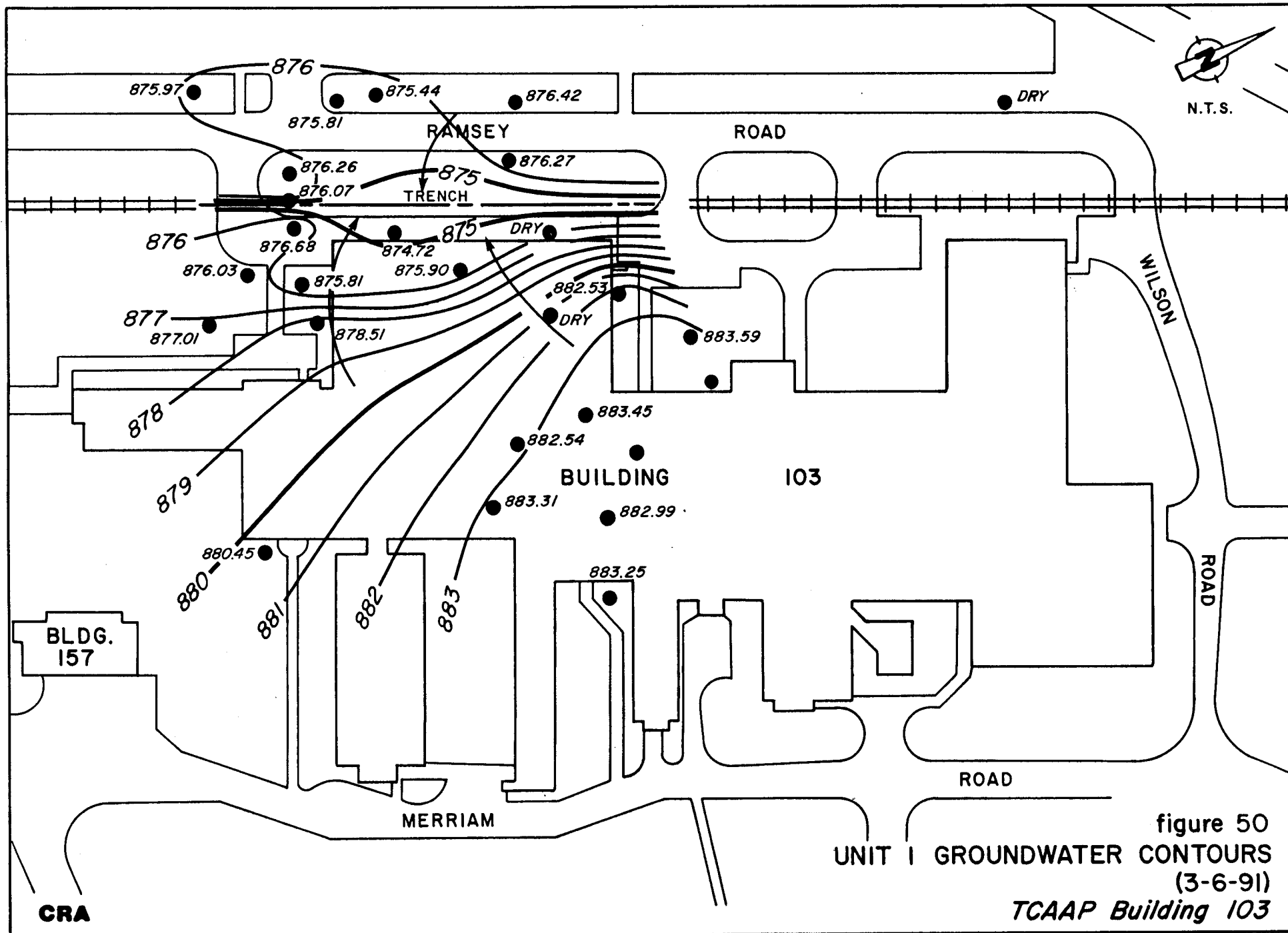
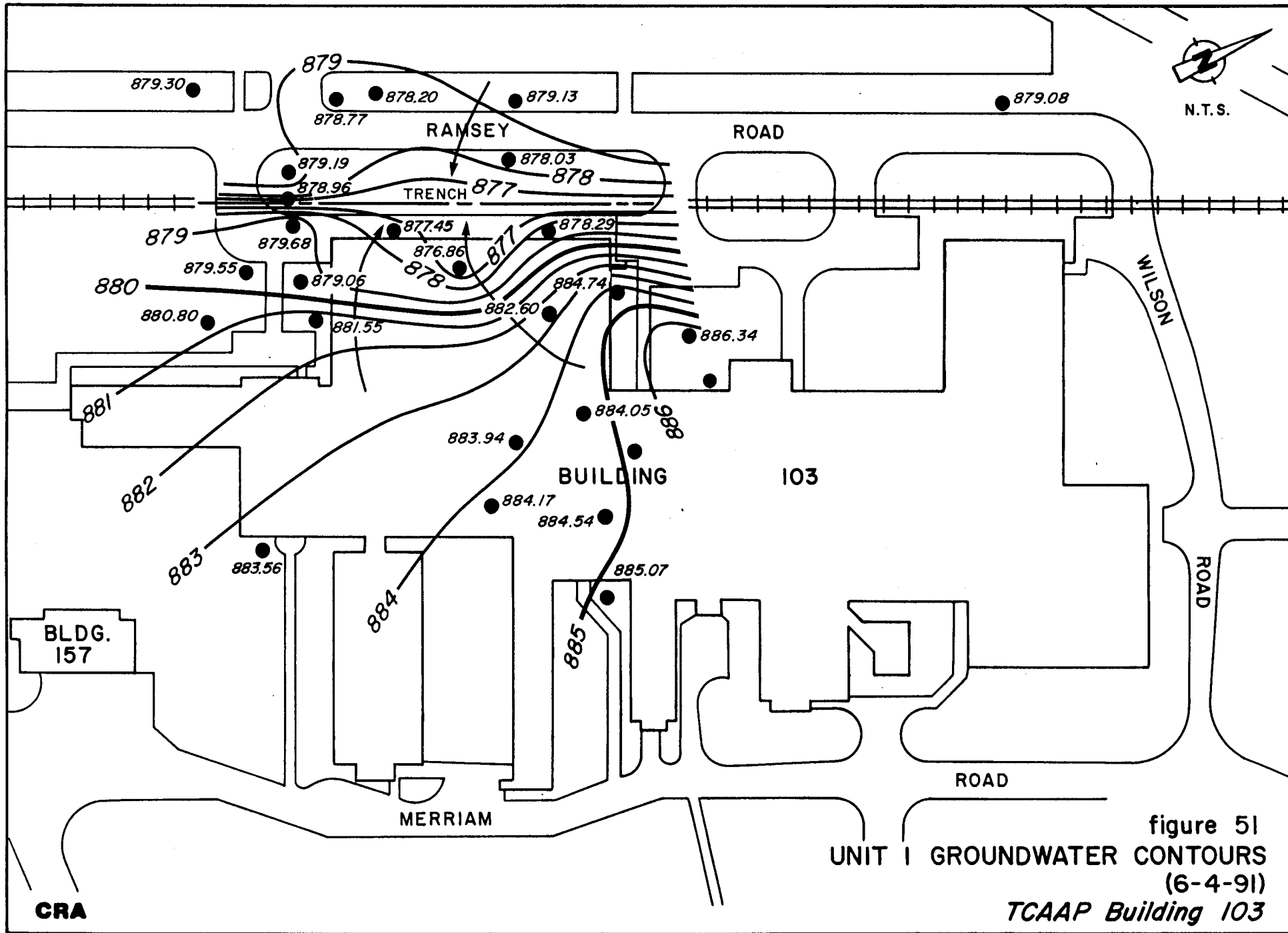


figure 49
 UNIT I GROUNDWATER CONTOURS
 (10-2-90)
 TCAAP Building 103





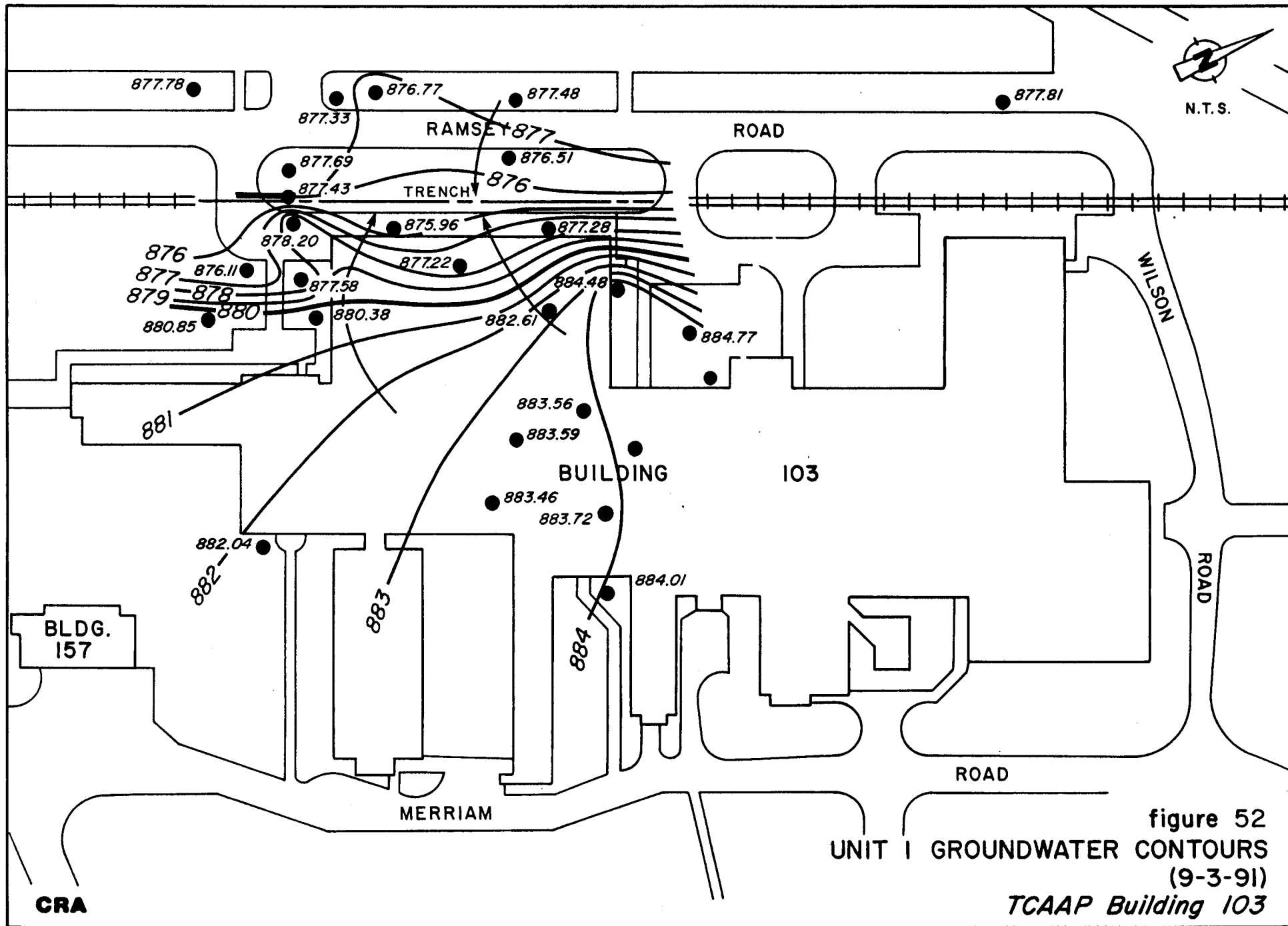
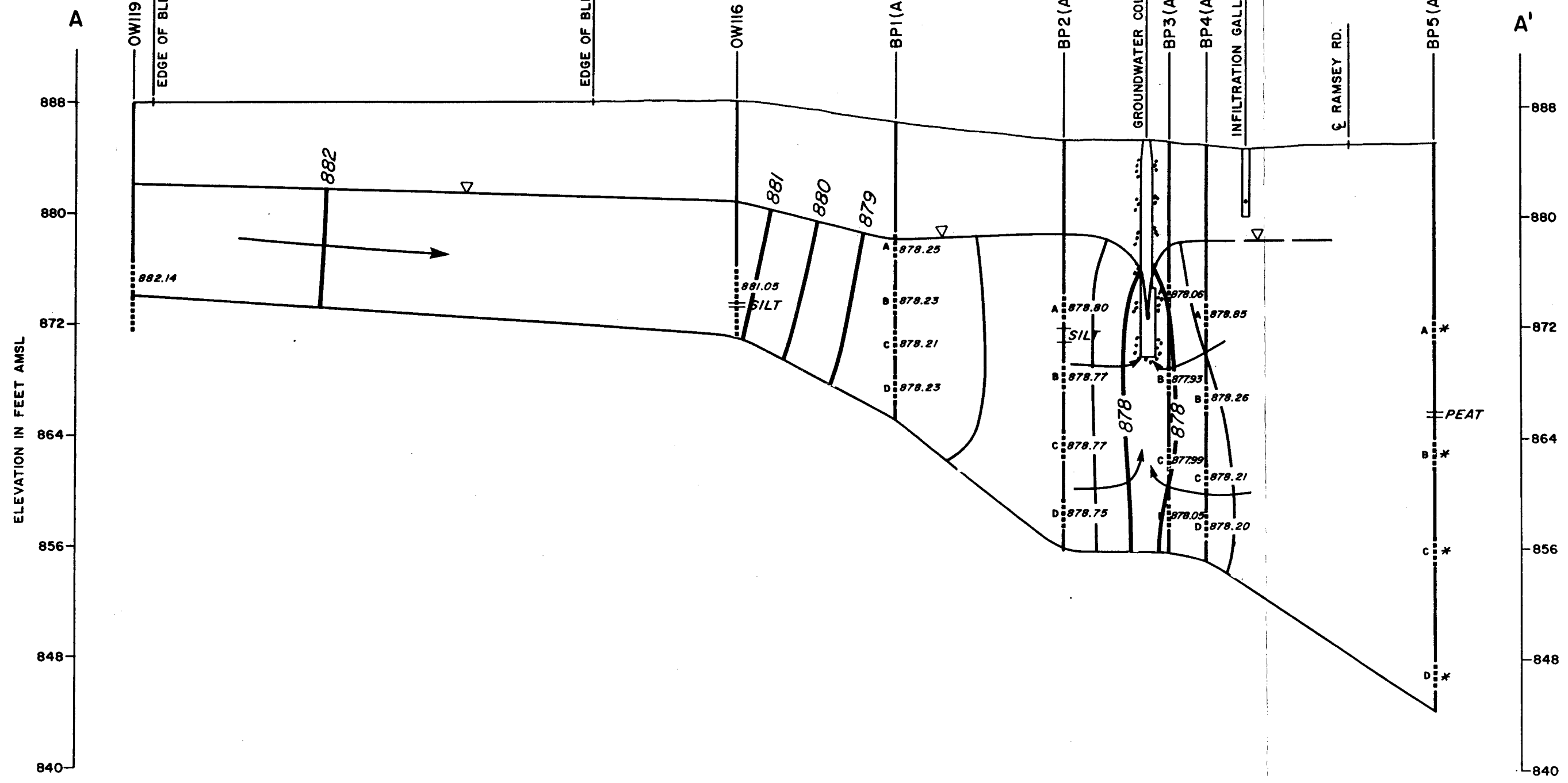


figure 52
 UNIT I GROUNDWATER CONTOURS
 (9-3-91)
 TCAAP Building 103

CRA

SOUTHEAST

NORTHWEST



SCALE: 1" = 8' VER., 1" = 40' HOR.
 WATER LEVELS TAKEN ON 10-2-90
 * NOT MEASURED

figure 53
 HYDROGEOLOGIC CROSS SECTION A-A'
 TCAAP Building 103

SOUTHEAST

NORTHWEST

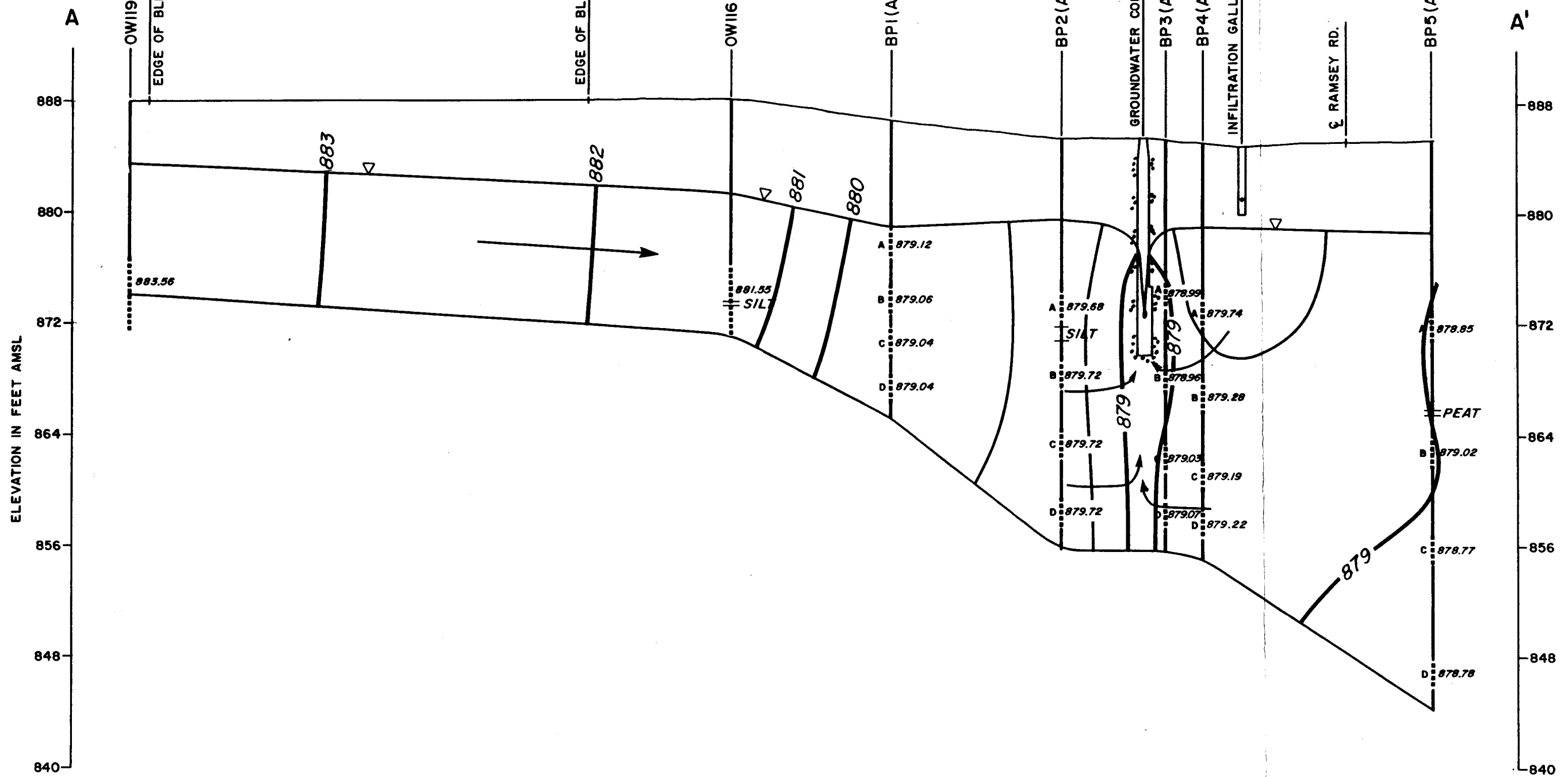


SCALE: 1" = 8' VER., 1" = 40' HOR.
 WATER LEVELS TAKEN ON 3-6-91
 * DATA POINT SUSPECT DUE TO ANOMALOUSLY HIGH WATER LEVEL.

figure 54
 HYDROGEOLOGIC CROSS SECTION A-A'
 TCAAP Building 103

SOUTHEAST

NORTHWEST



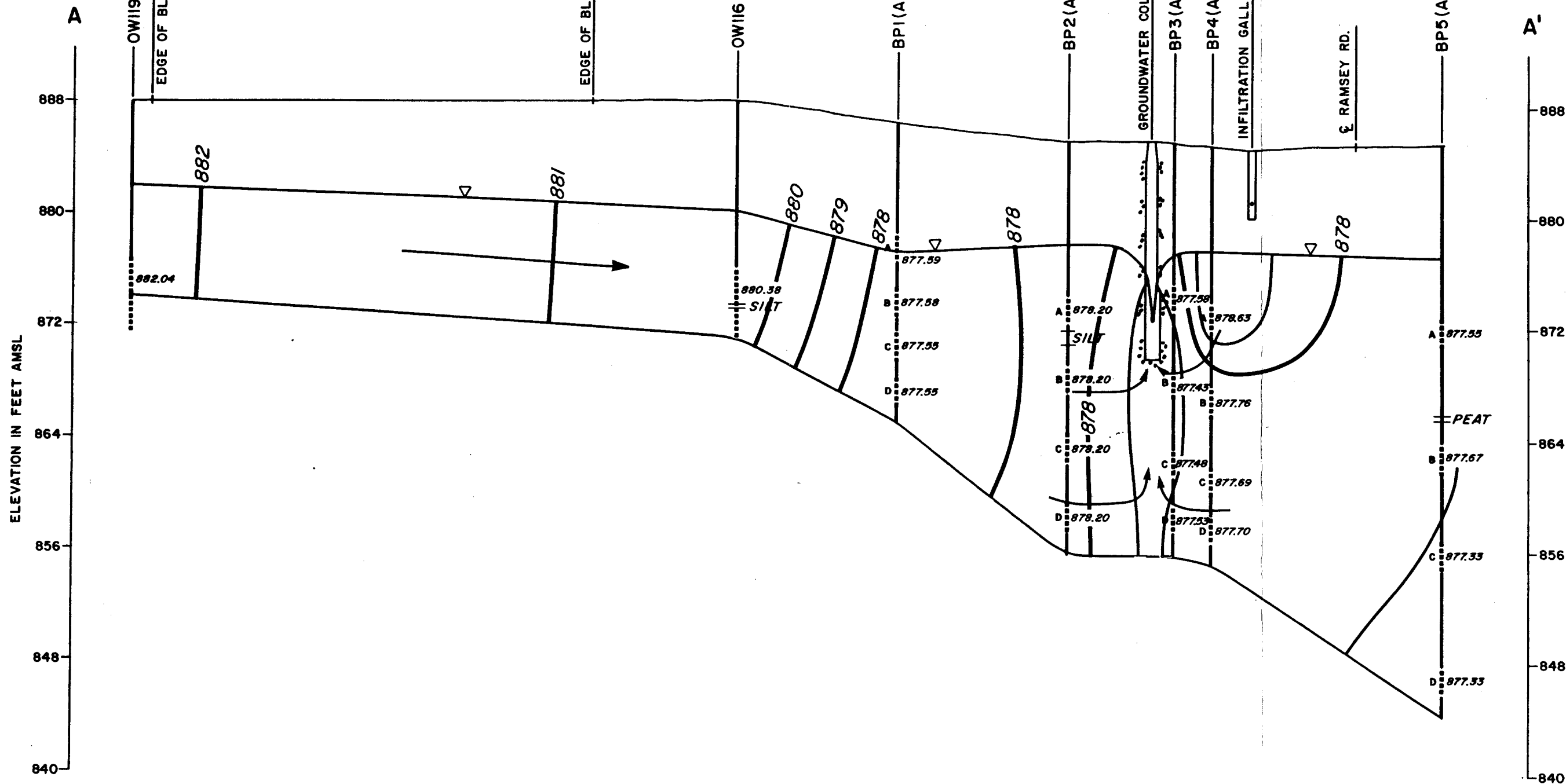
SCALE: 1" = 8' VER., 1" = 40' HOR.
 WATER LEVELS TAKEN ON 6-4-91

CRA

figure 55
 HYDROGEOLOGIC CROSS SECTION A-A'
 TCAAP Building 103

SOUTHEAST

NORTHWEST



SCALE: 1" = 8' VER., 1" = 40' HOR.
 WATER LEVELS TAKEN ON 9-3-91

CRA

figure 56
 HYDROGEOLOGIC CROSS SECTION A-A'
 TCAAP Building 103

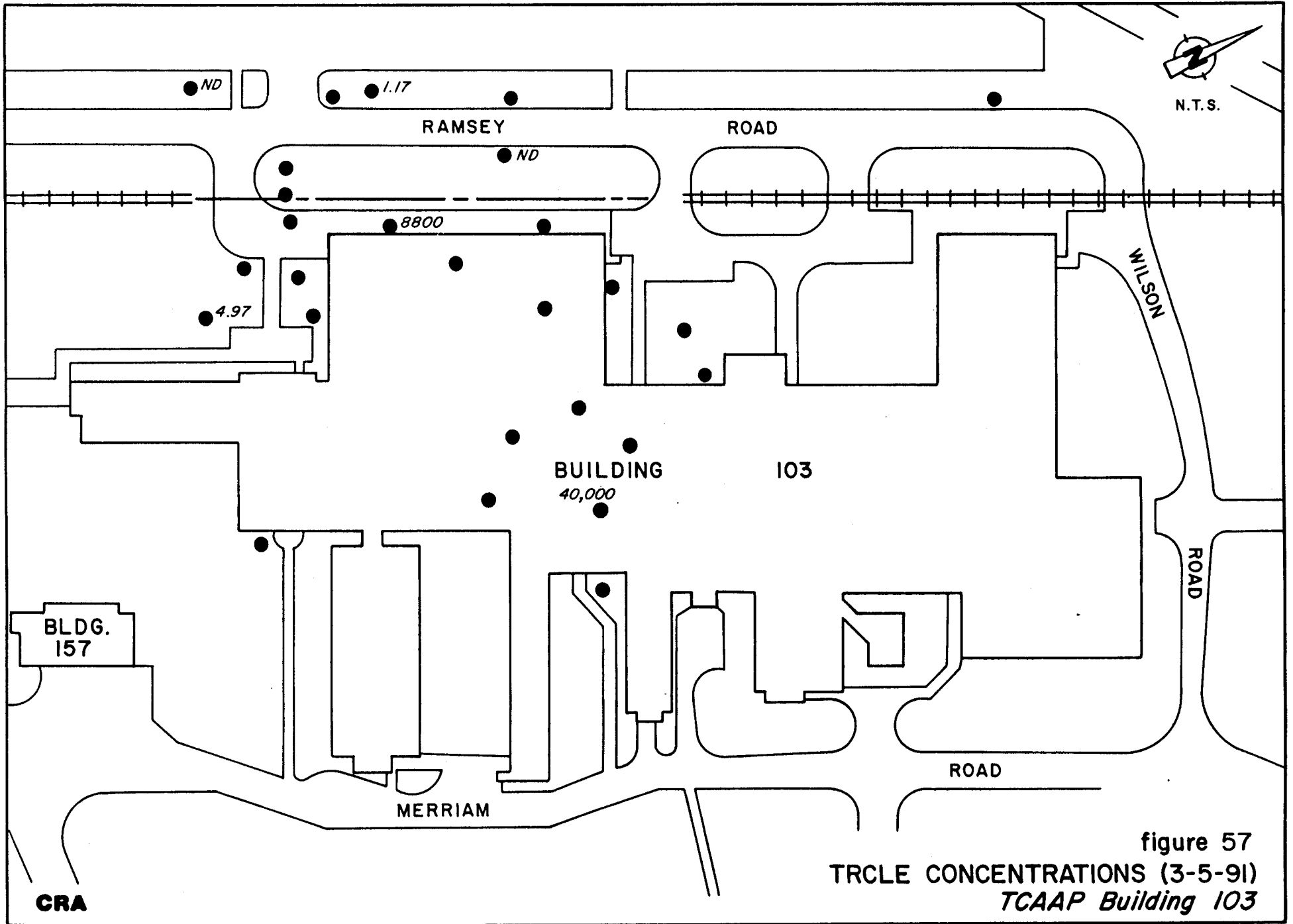
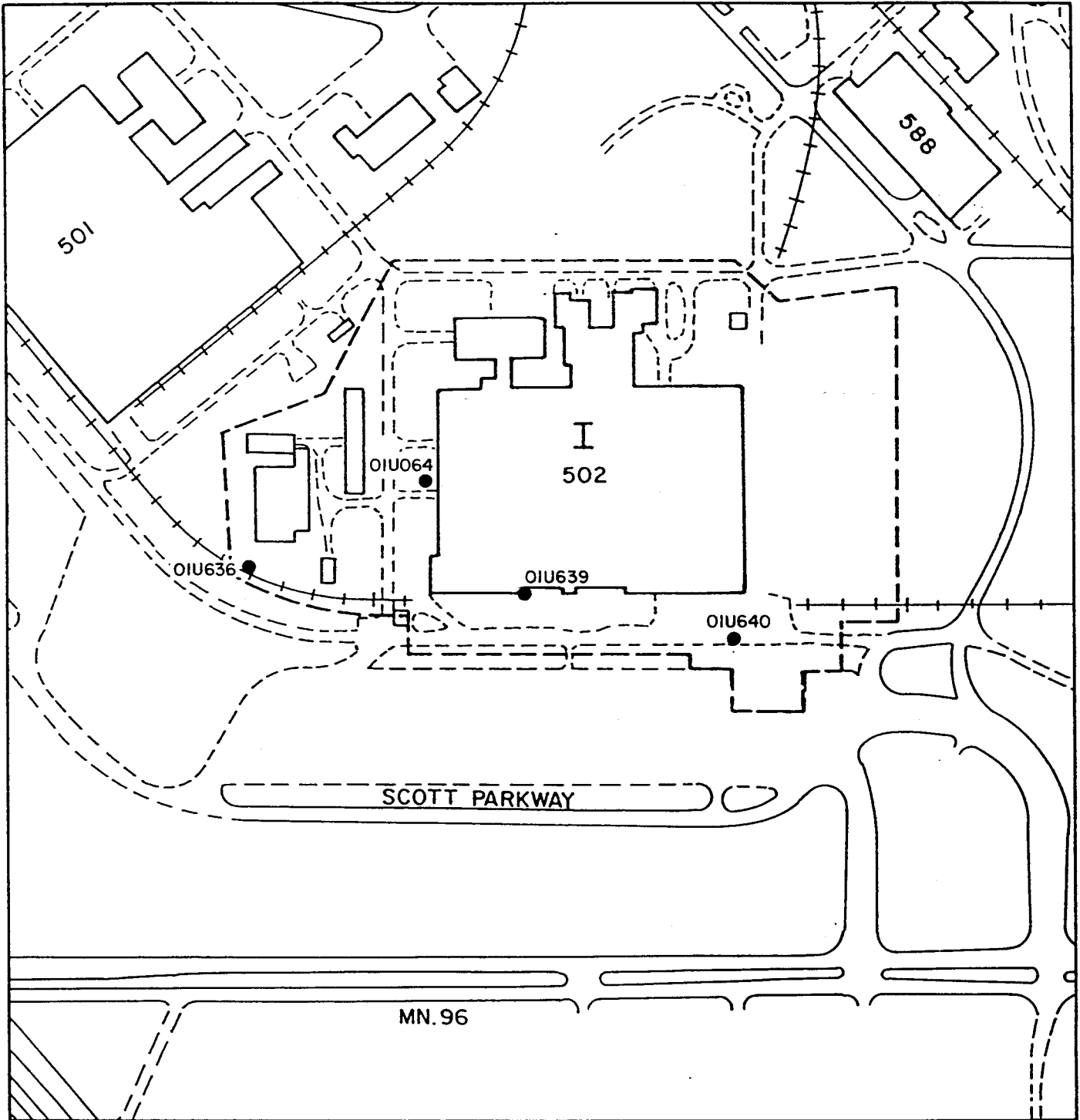


figure 57
 TRCLE CONCENTRATIONS (3-5-91)
 TCAAP Building 103

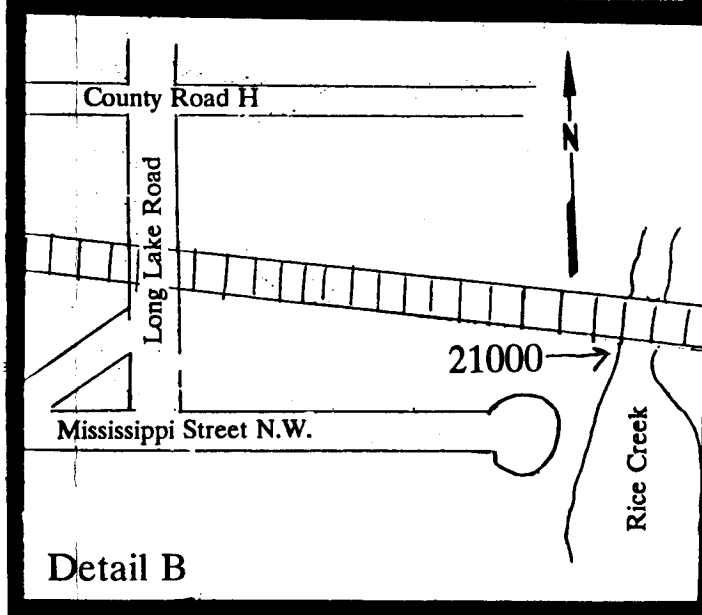
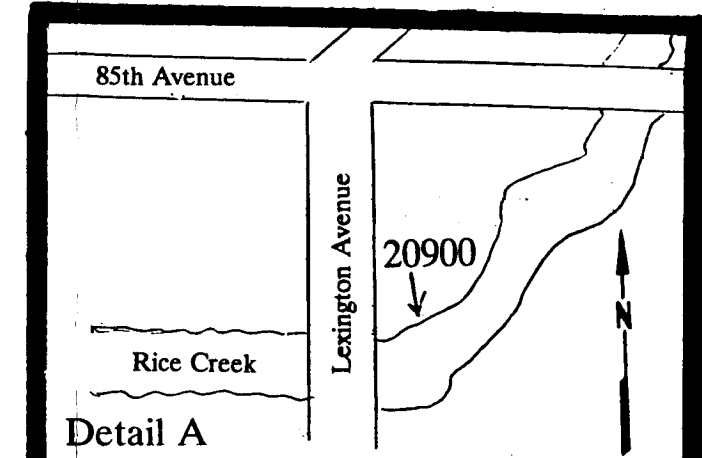
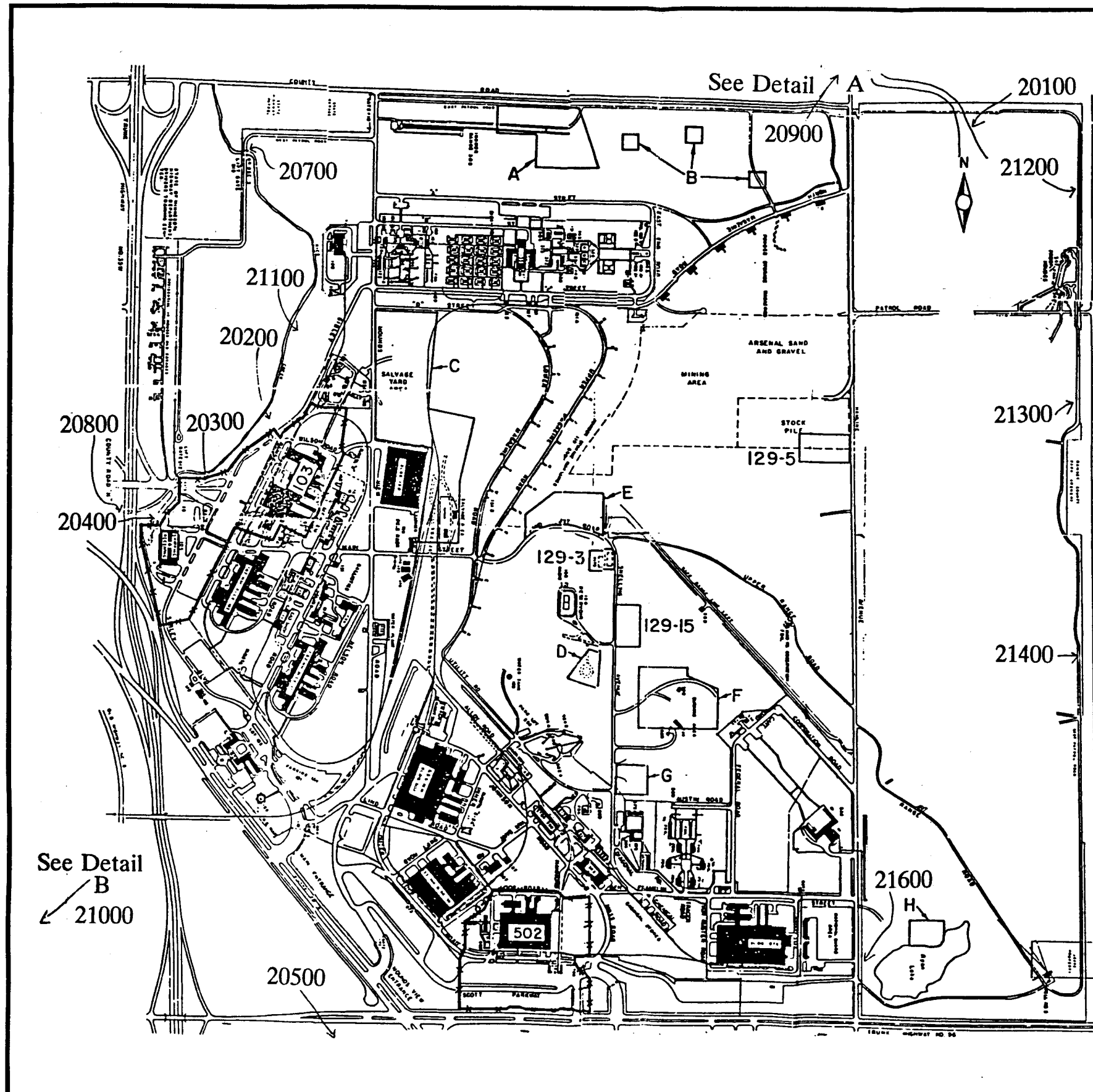


SCALE: 1" = 300'

figure 58
UNIT I GROUNDWATER
MONITORING LOCATIONS
SITE I

CRA

Twin Cities Army Ammunition Plant



Title: NPDES Sample Point Locations
 Spec. #969
 Federal Cartridge Co. Dwg. #46814

TWIN CITIES ARMY AMMUNITION PLANT
 National Pollutant Discharge Elimination System (NPDES) Monitoring Plan


Wenck
 Wenck Associates, Inc. 1800 Pioneer Creek Ctr.
 Environmental Engineers Maple Plain, MN 55359

APRIL 1992
 Figure 59

APPENDICES

Appendix A

Select Project Correspondence



Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300

April 3, 1991

RECEIVED BY
MAY 13 1991

WENCK ASSOCIATES, INC.

Mr. Martin McCleery
Remedial Project Manager
Twin Cities Army Ammunition Plant
New Brighton, Minnesota 55112-5700

Dear Mr. McCleery:

RE: 1991 Annual Monitoring Plan

Staff at the Minnesota Pollution Control Agency (MPCA) and the U.S. Environmental Protection Agency (EPA) have reviewed the Army's 1991 Annual Monitoring Plan for the Twin Cities Army Ammunition Plant dated October 1990. We have also reviewed the Army's December 7, 1990, summary of the December 4, 1990, meeting where this plan was discussed by the parties to the Federal Facility Agreement (FFA).

Together, these two documents provide an acceptable 1991 Annual Monitoring Plan for TCAAP, which hereby passes the Consistency Test in accordance with Article XIV of the FFA.

Be advised the MPCA intends to sample several wells for metals, as discussed with the Army during recent Project Manager meetings. The MPCA will provide a list of these wells for the Army's information.

If you have any questions, please contact Mark Schmitt of the MPCA at (612) 296-7776 or Thomas Barounis of the EPA at (312) 353-5577.

Sincerely,

Rodney E. Massey, P.E.
Director
Ground Water and Solid Waste Division

Thomas Barounis
U.S. Environmental Protection Agency

- REM:pk



Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300

Mr. Martin McCleery
Remedial Project Manager
Twin Cities Army Ammunition Plant
New Brighton, Minnesota 55112-5700

Dear Mr. McCleery:

RE: Federal Facility Agreement Modifications

The purpose of this letter is to document minor modifications to the Federal Facility Agreement (FFA) for the Twin Cities Army Ammunition Plant (TCAAP). These minor modifications were discussed at our meeting of June 5, 1991, and are hereby enacted in accordance with Section XXI of the FFA. The minor modifications are enclosed as Exhibit 1.

These modifications do not alter the intent or objectives of the FFA. They merely change specific details regarding sampling, monitoring, and reporting requirements. These modifications are necessary because current data requirements for the TCAAP remedial project have changed significantly from those originally envisioned when the FFA was drafted in 1987.

If you have any questions regarding this matter, please contact Mark Schmitt of the Minnesota Pollution Control Agency at (612) 296-7776 or Thomas Barounis of the U.S. Environmental Protection Agency at (312) 353-5577.

Sincerely,

Mark Schmitt

Mark D. C. Schmitt, Ph.D.
Project Leader
Minnesota Pollution Control Agency
Response Unit I
Site Response Section
Ground Water and Solid Waste Division
Date: February 5, 1992

Thomas Barounis

Thomas Barounis
Remedial Project Manager
U.S. Environmental Protection Agency
Region V
Date: February 5, 1992

Concur.

Martin R. McCleery

Martin R. McCleery
Remedial Project Manager
Twin Cities Army Ammunition Plant
Date: February 12, 1992

MDCS:pk

Enclosure

EXHIBIT 1

FEDERAL FACILITY AGREEMENT MINOR MODIFICATIONS

Twin Cities Army Ammunition Plant

A. Attachment 2

1. Section 3.1, page 13, 4th line from bottom: The wording "on Tables 2.1, 3.6, and 3.7 (A and B)" is hereby replaced by "the applicable or appropriate ROD."
2. Section 3.3, page 15: Insert a new sentence to the end of the paragraph reading, "Reporting of water level measurements to a minimum of a tenth (0.10) of a foot will be acceptable."
3. Section 3.6, page 16: All wording is hereby replaced by "Monitoring will be conducted in accordance with the approved monitoring plan."
4. Section 3.7.1, page 16: All wording is hereby replaced by "Monitoring reporting will be conducted in accordance with the approved monitoring plan. Quarterly reports shall be submitted to the Project Managers at least 15 days prior to the next quarterly sampling."
5. Section 3.7.2, pages 16-17: All wording is hereby replaced by "Monitoring reporting will be conducted in accordance with the approved monitoring plan. By February 15th of each year, an annual report which documents the results of monitoring during the previous fiscal year (October 1 through September 30) shall be submitted to the Project Managers."
6. Tables 2.1, 2.2, and 2.4: All contents in each of these three tables is hereby replaced by "Monitoring will be conducted in accordance with the approved monitoring plan."
7. Tables 2.4, and 2.5: All contents in these tables are hereby replaced by "The surface discharge monitoring program will be in accordance with the NPDES permit." Table 2.6 "The surface discharge monitoring will be in accordance with the annual monitoring plan."

B. Attachment 3

1. Section 3.5.2, page 27: All wording is hereby replaced by "Monitoring will be conducted in accordance with the approved monitoring plan."
2. Section 3.6, page 27: The first paragraph is hereby replaced by "Monitoring will be conducted in accordance with the approved monitoring plan." Insert a new sentence to the end of the second paragraph reading "Reporting of water level measurements to a minimum of a tenth (0.10) of a foot will be acceptable."

EXHIBIT 1
(continued)

FEDERAL FACILITY AGREEMENT MINOR MODIFICATIONS

Twin Cities Army Ammunition Plant

3. Section 3.8, pages 27-29: All wording is hereby replaced by: "Monitoring reporting will be conducted in accordance with the approved monitoring plan. Quarterly reports shall be submitted to the Project Managers at least 15 days prior to the next quarterly sampling. By February 15th of each year, an annual report which documents the results of monitoring during the previous fiscal year (October 1 through September 30) shall be submitted to the Project Managers."



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

77 WEST JACKSON BOULEVARD

CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

HSRM-6J

Mr. Martin R. McCleery
Remedial Project Manager
Twin Cities Army Ammunition Plant
New Brighton, Minnesota 55112-5700

Re: Summary Table 3.7A, Notification Criteria for 1991 Annual
Monitoring Report/1993 Annual Monitoring Plan

Dear Mr. McCleery:

Pursuant to our discussion during the December, 1991 Project Managers' meeting, we are sending you a copy of revised Table 3.7A of the Federal Facility Agreement (FFA). This table lists those analytical parameters of which U.S. EPA and MPCA should be notified when their measured concentrations exceed the listed action criteria. In those instances where the action criteria are lower than instrument detection limits, hits at or above the detection limit should be reported.

Table 3.7A should be incorporated into the 1991 Annual Monitoring Report/1993 Annual Monitoring Plan. The purpose of this table is notification only. It is subject to revision in subsequent annual monitoring reports/monitoring plans.

Please contact me Tom Barounis at 312-353-5577 or Mark Schmitt at 612-296-7776 with any questions or comments that you may have.

Sincerely,

Tom Barounis

Tom Barounis
Remedial Project Manager
U.S. Environmental Protection
Agency

Tom Barounis
for

Mark D.C. Schmitt, Ph.D.
Project Manager
Minnesota Pollution Control
Agency


**REVISED TABLE 3.7A
GROUND WATER ACTION CRITERIA**

Compound/Chemical	MCL ^a	MCLg ^a	Minnesota RAL ^b	Existing Criteria ^c	Existing Criteria Basis	Proposed Criteria ^d
VOLATILE ORGANIC COMPOUNDS	µg/L					
Benzene	5	0	10	0.7	10 ⁻⁶ Risk	0.7
Toluene	(2,000) ^e	(2,000)	1,000	(2,000)	MCLg	1,000
cis-1,2-Dichloroethene	(70)	(70)	70	(70)	MCLg	70
1,1,1-Trichloroethane	200	200	600	22	10 ⁻⁶ Risk	22
1,1-Dichloroethene	7	7	6	0.24	10 ⁻⁶ Risk	0.24
1,1,2-Trichloroethane	(5)	(3)	3	6.1	RAL	3
1,1,2,2-Tetrachloroethene	-	-	7	0.7	10 ⁻⁶ Risk	0.7
1,2-Dichloropropane	(5)	(0)	5	6	10 ⁻⁶ Risk	6
Xylene	(10,000)	(10,000)	10,000	(440)	MCLg	440
1,1-Dichloroethane	-	-	70	-	-	70
1,2-Dichloroethane	5	0	4	0.4	10 ⁻⁶ Risk	0.4
1,1,2-Trichloroethene	5	0	30	2.8	10 ⁻⁶ Risk	2.8
trans-1,2-Dichloroethene	(100)	(100)	100	(70)	MCLg	70
1,1,2-Trichlorotrifluoroethene	-	-	200,000	-	-	200,000
Chloroform	-	-	60	0.19	10 ⁻⁶ Risk	0.19
Vinyl Chloride	2	0	0.1	0.015	10 ⁻⁶ Risk	0.015
Carbon Tetrachloride	5	5	3	-	RAL	3
METALS	µg/L					
Antimony ^f	(10/5)	(3)	1	-	RAL	1
Arsenic	50	0	0.2	50	PDWS	0.2
Barium	(5,000)	(5,000)	2,000	1,000	PDWS	1,000
Beryllium ^f	-	-	0.08	-	RAL	0.08
Chromium	(100)	(100)	100	50	PDWS	50
Cobalt ^f	-	-	1	-	RAL	1
Copper ^f	(1,300)	(1,300)	1,000	-	SMCL	1
Cyanide	(200)	(200)	100	200	PDWS	100
Cadmium	(5)	(5)	4	5	RAL	4
Lead	(5)	(0)	20	20	MCLg	5
Nickel	(100)	(100)	70	150	RAL	70
Mercury	(2)	(2)	1	2	PDWS	1
Silver ^f	-	-	10	-	SMCL	0.09
Selenium	50	50	10	-	RAL	10
Thallium ^f	(2/1)	(0.5)	0.3	-	RAL	0.3
Vanadium ^f	-	-	20	-	RAL	20
Zinc	-	-	700	5,000	SMCL	700
POLYCHLORINATED BIPHENYLS	µg/L					
Total PCB	(0.5)	(0)	-	0.008	10 ⁻⁶ Risk	0.008

**REVISED TABLE 3.7A (Continued)
GROUND WATER ACTION CRITERIA**

Compound/Chemical	MCL ^a	MCLg ^a	Minnesota RAL ^b	Existing Criteria ^c	Existing Criteria Basis	Proposed Criteria ^d
RADIONUCLIDES	pcCi/L					
Alpha Emitting	-	-	-	5	-	5
Beta Emitting	-	-	-	5	-	5
Gamma Emitting	-	-	-	5	-	5
U238, U234, Cs137, Co60	-	-	-	5	-	5

Notes:

- MCL Maximum Contaminant Level
- MCLg Maximum Contaminant Level Goal
- RAL Recommended Allowable Limit
- Not Available
- PDWS Primary Drinking Water Standard
- SMCL Secondary Maximum Contaminant Level
-  Compounds presented with proposed criteria that differ from the existing criteria are shaded
- ^a U.S EPA, 1991, Drinking Water Regulations and Health Advisories, Office of Drinking Water Standards (October)
- ^b Minnesota Department of Health, 1991, Recommended Allowable Limits for Drinking Water Contaminants, Release No. 3, Section of Health Risk Assessment (January)
- ^c U.S. EPA, 1987, Federal Facility Agreement, Table 3.7A (August)
- ^d If the existing criteria for a chemical/compound is based on a 10⁻⁶ cancer risk, that value was selected as the proposed criteria. If the existing criteria for a chemical/compound is not based on a 10⁻⁶ cancer risk, the existing criteria was compared to current values identified for its MCL, MCLg, RAL, PDWS or SMCL, and the lowest non-zero value selected as the proposed criteria.
- ^e Values in () are proposed
- ^f Metals added to the list in Table 3.7A of the FFA

Appendix B

Well Designation Cross Reference Guide

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
	BOYLE	
	ROEBKE	107405
	WATERGATE MARINA	139035
	MODEL STONE	191942
	PAPER CALMERSON	200148
	U OF M GOLF COURSE	200154
	ST. ANTHONY #1	200524
	PLETSCHER	200525
	NAZARETH	200531
	ATKINSON MILL CO.	200602
	GENERAL MILLS	200629
	ST. ANTHONY #4	200803
	ST. ANTHONY #3	200804
	GROSS GOLF COURSE	200812
	AMERICAN LINEN	200814
	FRIDLEY #8	206669
	FRIDLEY #9	206672
	FRIDLEY #6	206673
	CLOVER POND WELL	206688
	JAMES K. O'NEIL	206689
	FERNELIUS	206693
	MINN E.S.	206702
	MOUNDSVIEW	206720
	MOUNDSVIEW #5	206722
	SHORE #4	206750
	MOUNDSVIEW H.S.	206787
	NEW BRIGHTON #7	206791
	NEW BRIGHTON #3	206793
	NEW BRIGHTON #5	206796
	NEW BRIGHTON #6	206797
	LABELLE	231741
	MENGELKOCH #2	231878
	NBR 135	232067
	UHIL	232069
	REUBEN MEAT	233221
	LOWRY GROVE TRAILER	233222
	KOZAH'S MARKET	233241
	MCGILLIS	233520
	ROSELAWN CEMETARY	233533
	DEWITT	234301
	GLENN BEGGIN	234305
	HIDE & TALLOW	234319

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
	BRESKE	234327
	MENGELKOCH #3	234337
	GORDON	234350
	YEMPA	234351
	JACK LEE	234353
	LENTSCH'S ICE WK.	234353
	MENGELKOCH #1	234355
	NORDQUIST P43	234356
	PHILLIPS PET P46	234357
	ZELL OLS.	234386
	SHERER L.	234391
	DEWITT	234396
	KLAPP	234406
	HIDE & TALLOW	234409
	JACK LEE	234425
	CMIEL	234430
	HARSTAD	234431
	KEN SOLIE	234463
	HONEYWELL RIDGEWAY	234546
	HONEYWELL RIDGEWAY	234547
	OLD HOTEL	235539
	SHRINERS HOSPITAL	235619
	NWR	236122
	FLOUR CITY ARCH	265735
	ABBOTT NW HOSP	322664
	METAL-MATIC INC.	405651
	PCA2L3	409546
	PCA1U4	409547
	PCA2U4	409548
	PCA3U4	409549
	PCA6U3	409550
	PCA5U4	409555
	PCA4L3	409556
	PCA1L3	409557
	B109U3	409595
	B118U3	409596
	B118L3	409597
	B117U3	409598
04U414	EZ SELF SERVICE	500691
	118U4	191942

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
03L001	S1L3	234137
03M001	S1M3	234136
03U001	S1U3	234135
04U001	S1U4	234138
03L002	S2L3	234141
03M002	S2M3	234140
03U002	S2U3	234139
04U002	S2U4	234194
01U003	S3U1	236176
03L003	S3L3	234144
03M003	S3M3	234143
03U003	S3U3	234142
04U003	S3U4	234193
PJ#003	S3PJ	236468
01U004	S4U1	234198
03M004	S4M3	234146
03L004	S4L3	234147
03U004	S4U3	234145
03L005	S5L3	236079
03M005	ST-5-M3	440885
03U005	S5U3	234148
PJ#006		
03U006	S6U3	234149
03L007	S7L3	234152
03M007	S7M3	234151
03U007	S7U3	234150
04U007	S7U4	234195
03U008	S8U3	234153
03U009	S9U3	234154
03L010	S10L3	234157
03M010	S10M3	234156
03U010	S10U3	234155
01U011	S11U1	234199
03U011	S11U3	234158
01U012	S12U1	234200
03L012	S12L3	234161
03M012	S12M3	234160
03U012	S12U3	234159
04U012	S12U4	234196
03L013	S13L3	234164
03M013	S13M3	234163
03U013	S13U3	234162
03L014	S14L3	235748
03U014	S14U3	234165

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
03U015	S15U3	234166
03U016	S16U3	234167
03L017	S17L3	234170
03M017	S17M3	234169
03U017	S17U3	234168
03L018	S18L3	235749
03U018	S18U3	234171
03U019	S19U3	234172
03L020	S20L3	234175
03M020	S20M3	234174
03U020	S20U3	234173
04U020	S20U4	234197
03L021	S21L3	235750
03U021	S21U3	234176
01U022	S22U1	234201
03U022	S22U3	236178
03U023	S23U3	236179
03U024	S24U3	236180
03U025	S25U3	236181
03U026	S26U3	236182
03L027	S27L3	235751
03U027	S27U3	236183
04U027	S27U4	242138
PJ#027	S27PJ	236469
03L028	S28L3	235752
03U028	S28U3	236184
03L029	S29L3	235753
03L029		236066
03U029	S29U3	236185
03U030	S30U3	236186
03U031	S31U3	236187
03U032	S32U3	236188
01U033	S33U1	234202
01U034	S34U1	234204
01U035	S35U1	234205
01U036	S36U1	234206
01U037	S37U1	234207
01U038	S38U1	234208
01U039	S39U1	234209
01U040	S40U1	234210
01U041	S41U1	234211
01U043	S43AU1	236177
01U044	S44U1	234212
01U045	S45U1	234215

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
01U046	S46U1	234216
01U047	S47U1	234217
01U048	S48U1	234218
01U050	S50AU1	234221
01U051	S51U1	234222
01U052	S52U1	234223
01U053	S53AU1	234225
01U054	S54AU1	234227
01U060	S60U1	234235
01U062	S62U1	234237
01U063	S63U1	234239
01U064	S64U1	234240
01U065	S65U1	234241
01U067	S67U1	234243
01U072	S72AU1	234250
PJ#074	S74PJ	235565
03U075	S75U3	236078
03U076	S76U3	236077
03L077	S77L3	236076
03U077	S77U3	236075
04J077		
04U077	ST-77-U4	426877
03L078	S78L3	236074
03U078	S78U3	236073
03L079	S79L3	242160
03U079	S79U3	236072
03L080	S80L3	236071
03L081	S81L3	236070
03U082	S82U3	236476
03U083	S83U3	236478
03L084	ST84L3	440887
03U084	S84U3	236069
01U085	S85U1	236479
03L086	S86L3	236068
03U087	S87U3	236480
03U088	S88U3	236482
03U089	S89U3	236483
03U090	S90U3	236485
03L091	S91L3	236067
03U092	S92U3	236487
03U093	S93U3	236489
03U094	S94U3	236066
03U096	S96U3	236491
03U097	S97U3	236493

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
01U098	S98U1	236494
03U099	S99U3	236495
01U100	S100U1	236497
01U101	S101U1	236498
01U102	S102U1	236499
01U103	S103U1	236500
01U104	S104U1	236501
01U105	S105U1	236502
01U106	S106U1	236503
01U107	S170U1	236504
01U108	S108U1	236505
01U109	S109U1	236506
01U110	S110U1	236507
03U111	S111U3	236508
03U112	S112U3	236510
03L113	WF1L3	236080
03U113	WF1U3	242124
03U114	WF2U3	242125
01U115		472411
01U116		427412
01U117		427413
01U118		427414
01U119		427415
01U120		427410
03U121		440884
01U122		440888
03U124		440896
01U125		440889
01U126		440890
01U127		440891
01U128		440892
03U129		440886
01U130		440895
01U133		440893
01U135		447998
01U136		447999
01U137		505189
01U138		505190
01U139		505191
01U140		505192
01U141		505193
03U301	SC1	

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
03F302	B1	426842
03F303	B2	426843
03F304	B3	426844
03F305	B4	426845
03F306	B5	426846
03L306	306L3	447899
03F307	B6	426847
03F308	B7	
PJ#309	B8	
PJ#310	B9	
PJ#311	B10	
03F312	B11	
PJ#313	B12	
03U314	SC-2	
03U315	SC-3	
03U316	SC-4	
03U317	SC-5	
PJ#318	318U4	447894
04U322	322U4	508115
PJ#501		206754
PJ#502		206756
PJ#503		206758
PJ#504		206724
03M505		231857
PJ#507		206755
PJ#508		206759
03M509		206760
04U510		231742
03U521		114410
03L522		221854
03L523		221855
01U524	FA4U1	236194
01U525	FW5U1	236196
01U526	FV12U1	236197
01U527	FV8U1	236195
01U601	OW101U1	236189
01U602	OW102U1	236190
01U603	OW103U1	236191
01U604	OW104U1	236192
01U605	OW10571	236193
PJ#605		206753
01U607	OW107U1	242127

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
01U608	OW108U1	242128
01U609	OW109U1	242129
01U610	OW110U1	242130
01U611	OW111U1	242131
01U612	OW112U1	194758
01U613	OW113U1	194759
01U615	OW115U1	194760
01U616	OW116U1	194761
01U617	OW117U1	194770
01U618	OW118U1	194771
01U619	PW119U1	194772
01U620	OW120U1	194701
01U621	PW121U1	194702
01U622	OW122U1	194703
01U623	OW123U1	194704
01U624A	BP185A	242182
01U624B	BP185B	242183
01U624C	BP185C	242184
01U624D	BP185D	242185
01U625A	BP285A	242186
01U625B	BP285B	242187
01U625C	BP285C	242188
01U625D	BP285D	242189
01U626A	BP385A	242190
01U626B	BP385B	242191
01U626C	BP385C	242192
01U626D	BP385D	242193
01U627A	BP485A	242194
01U627B	BP485B	242195
01U627C	BP485C	242196
01U627D	BP485D	242197
01U628A	BP585A	242198
01U628B	BP585B	242199
01U628C	BP585C	242200
01U628D	BP585D	242201
01U631	OW501U1	194720
01U632	OW502U1	194721
01U634	OW504U1	194716
01U635	OW505U1	194722
01U636	OW506U1	194723
01U638	OW508U1	194717
01U639	OW509U1	194718
01U640	OW510U1	194719
01U642	OW512U1	194724

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
03U647		242132
03U648		242133
01U652	OW522U1	242134
01U653		
03U658		421426
03U659		421425
01U666	OW536U1	242135
01U667	OW537U1	242136
01U668	OW538U1	242137
03U671	PO-1	421438
03U672	PD2U3	421440
03L673	PD3L3	426815
03U673	PD3U3	421441
04U673	PD3U4	426867
03U674	OW541U3	
03U675		
03U701	701U3	426848
04U701	701U4	426849
03U702	702U3	426850
04J702		
04U702	702U4	426876
03U703	703U3	426878
03U704	704U3	426883
03U705	705U3	426884
03U706	706U3	426885
03U707	707U3	426886
03U708	708U3	426879
04J708		
04U708	708U4	426880
03U709	709U3	426881
04U709	709U4	426882
03U710	710U3	434032
03U711	711U3	434033
04U711	711U4	434031
04J713		
04U713		
04J714		
04U714		
03U715	SM1	
03U716	SM2	
03L801	321L3	434039
03L802	T2L3	426817
03M802	T2M3	426818

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
03U801	T1U3	236449
04U802	T2U4	236450
PJ#802	T2PJ	421437
01U803	T3U1	424053
03U803	T3U3	421434
01U805	T5U1	424060
03U804	T4U3	421433
03U805	T5U3	421432
01U806	T6U1	424058
03L806	T6L3	421429
03M806	T6M3	421430
03U806	T6U3	421431
04U806	T6U4	421428
PJ#806	T6PJ	421427
01U807	T7U1	424059
01U808	T8U1	424057
03L809	T9L3	426868
01L811	H1L1	424055
03L811	H1L3	426809
03U811	H1U3	426808
01L813	H3L1	424062
01U813		242153
03L813	H3L3	426816
03U815	H5U3	426862
01L816	H6L1	424056
01L821	NW1L1	424054
03U821	NW1U3	426810
04U821	NW1U4	426811
01L822	NW2L1	424052
03L822	NW2L3	426813
03U822	NW2U3	426812
01L823	NW3L1	424061
03U824	NW4U3	426814
03U831	OM1U3	426863
03L832	OM2L3	426865
03U832	OM2U3	426864
04U832	OM2U4	426866
03L841	301L3	434037
04U841	301U4	426851
04U842	305U4	426855
03L843	308L3	416199
03M843	303M3	426852
04U843	303U4	426853
04U844	304U4	426854

USATHAMA IRDMS Designation	Common Name	Minnesota Unique Number
04U845	305U4	426855
03L846	306L3	447899
04U846	306U4	426856
04U847	307U4	426857
03L848	308L3	416199
03M848	308M3	416051
04U848	308U4	416078
04U849	309U4	416082
04U850	310U4	416200
04U851	311U4	406198
04U852	312U4	416080
03L853	313L3	426858
03L854	314L3	426859
04U854	314U4	439701
04U855	315U4	426860
03L856	316L3	426861
03L858	318L3	416081
03L859	319L3	434040
04U859	319U4	434036
03L860	320L3	434038
04U860	320U4	434035
03L861	321L3	434039
04U861	321U4	434034
04U871	401U4	447889
04U872	402U4	447988
04U875	405U4	447898
04U877	407U4	447896
04U879	409U4	447900
04U880	410U4	447895
04U881	411U4	447891
04U882	412U4	447890
04U883	413U4	447892
01U901	H3U1	505210
01U902		505209

Appendix C

FY 1991 Groundwater Level Monitoring Plan

- Notes:**
- X** = Monitoring delegated to FCC
 - X(A)** = Monitoring delegated to Alliant Techsystems, Inc.
 - 1** = Monitoring performed by FCC
 - 2** = Monitoring performed by Alliant Techsystems, Inc.
 - 3** = Monitoring performed by both parties
 - = Monitoring not performed

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
A	01U022		---	XI	---	---
	01U037		Refer to Site B			
	01U038		---	XI	---	---
	01U039		---	XI	---	---
	01U040		---	XI	---	---
	01U041		---	XI	---	---
	01U063		---	XI	---	---
	01U067		---	XI	---	---
	01U102		---	XI	XI	XI
	01U103		---	XI	---	---
	01U104		---	XI	---	---
	01U105		---	XI	---	---
	01U106		---	XI	---	---
	01U107		---	XI	---	---
	01U108		---	XI	XI	XI
	01U109		---	XI	---	---
	01U110		---	XI	---	---
	01U115		---	XI	XI	XI
	01U116		---	XI	---	---
	01U117		---	XI	---	---
	01U118		---	XI	---	---
	01U119		---	XI	---	---
	01U120		---	XI	---	---
	01U125		---	XI	---	---
	01U126		---	XI	---	---
	01U127		---	XI	---	---
	01U133		---	XI	---	---
	01U135		---	XI	---	---
	01U136		---	XI	---	---
	01U350		---	XI	XI	XI
	01U901		---	XI	---	---
	01U902		---	XI	XI	XI
	134308		---	---	---	---
	134309		---	---	---	---
	134318		---	---	---	---
206713		---	---	---	---	
231845		---	---	---	---	
234370		---	---	---	---	
234404		---	---	---	---	
MNDOT		---		<input checked="" type="checkbox"/>	---	
03U022		---	Refer to Site B			
03U023		---	---	X3	---	---

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
B	01U011		---	X1	---	---
	01U022		Refer to Site A			
	01U033		---	X1	---	---
	01U034		---	X1	---	---
	01U035		---	X1	---	---
	01U036		---	X1	---	---
	01U037		---	X1	---	---
	01U100		---	X1	---	---
	01U101		---	X1	---	---
	01U122		---	X1	---	---
	03U011		---	X3	---	---
	03U022		---	X3	---	---
	03U082		---	X3	---	---
	03U533		---	X	---	---
	03U534		---	X	---	---
C	01U043		---	X1	---	---
	01U045		---	X1	---	---
	01U046		---	X1	---	---
	01U085		---	X1	---	---
	03U024		---	X3	---	---
	03U025		---	X3	---	---
	03U083		---	X3	---	---
D	03U017		---	X(A)2	---	X(A)2
	03U018		---	X(A)2	---	X(A)2
	03U093		---	X(A)2	X(A)2	X(A)2
	03U096		---	X(A)2	---	X(A)2
	03U316		X(A)	X(A)2	X(A)2	X(A)2
	03U317		X(A)	X(A)2	X(A)2	X(A)2
	03U716		---	X 3	X 3	X 3
	03M017		---	X(A)2	---	X(A)2
	03L017		---	X(A)2	---	X(A)2
	03L018		---	X(A)2	---	X(A)2
03L091		Refer to Site 129-15				

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)				
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91	
E	03U015		---	X 3	---	---	
	03U088		---	X 3	---	---	
	03U089		---	X 3	---	---	
	03U704		Refer to Gravel Pit area				
F	03U019		---	X 3	---	---	
	03U026		---	X 1	---	---	
	03U090		Refer to Site 129-15				
	03U092		---	X 3	X 1	X 3	
	03U112		---	X 3	---	---	
	03U113		---	X 3	---	---	
	03U114		---	X 1	X 1	X 1	
	03U121		---	X 1	---	---	
	03U535		---	---	---	---	
	03L113		---	X 3	---	---	
G	03U014		X(A)	X(A)2	X(A)2	X(A)2	
	03U019		Refer to Site F				
	03U020		X(A)	X(A)2	X(A)2	X(A)2	
	03U092		Refer to Site F				
	03U094		---	X(A)2	---	X(A)2	
	03U114		Refer to Site F				
	03U314		X(A)	X(A)2	X(A)2	X(A)2	
	03U315		X(A)	X(A)2	X(A)2	X(A)2	
		03M020		X(A)	X(A)2	X(A)2	X(A)2
		03L014		---	X(A)2	---	X(A)2
		03L020		X(A)	X(A)2	X(A)2	X(A)2
		04U020		X(A)	X(A)2	X(A)2	X(A)2
	PJ#074		---	---	---	---	
	PJ#508		---	---	---	---	

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
H	01U060		---	X	---	---
	01U098		---	X	---	---
	03U099		---	X	---	---
I	01U003		Refer to Site J			
	01U004		---	---	---	---
	01U053		Refer to Site J			
	01U054		---	---	---	---
	01U064		---	X(A)	---	X(A)
	01U525		---	---	---	---
	01U631		---	---	---	---
	01U632		---	---	---	---
	01U634		---	---	---	---
	01U635		---	---	---	---
	01U636		---	X(A)	---	X(A)
	01U638		---	---	---	---
	01U639		---	X(A)	---	X(A)
	01U640		---	X(A)	---	X(A)
	01U642		---	---	---	---
	01U652		---	---	---	---
	01U666		---	---	---	---
	01U667		---	---	---	---
	01U668		---	---	---	---
	03U003		Refer to SW Boundary			
	03U004		---	X(A) 2	---	X(A) 2
	03U027		---	X(A) 2	---	X(A) 2
	03U028		---	X(A) 2	---	X(A) 2
	03U029		---	X(A) 2	---	X(A) 2
	03U030		---	X(A) 2	---	X(A) 2
	03U078		Refer to SW Boundary			
	03U079		Refer to SW Boundary			
	03U301		X(A)	X(A) 2	X(A) 2	X(A) 2
03U313		---	---	---	---	
03U528		---	---	---	---	

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)				
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91	
I (CONT.)	03U647		---	X(A)2	---	X(A)2	
	03U648		---	X(A)2	---	X(A)2	
	03U658		---	X(A)2	---	X(A)2	
	03U659		---	X(A)2	---	X(A)2	
	03U672		Refer to SW Boundary				
	03U674		---	X(A)2	---	X(A)2	
	03U675		---	---	---	---	
	03U676		---	---	---	---	
	03U703		Refer to SW Boundary				
	03U710		Refer to SW Boundary				
	03M003		Refer to SW Boundary				
	03M004		---	X(A)2	---	X(A)2	
	03M509		---	---	---	---	
	03L003		Refer to SW Boundary				
	03L004		---	X(A)2	---	X(A)2	
	03L027		---	X(A)2	---	X(A)2	
	03L028		---	X(A)2	---	X(A)2	
	03L029		---	X(A)2	---	X(A)2	
	03L078		Refer to SW Boundary				
	03L079		Refer to SW Boundary				
	03L080		---	X(A)2	---	X(A)2	
	04U003		Refer to SW Boundary				
	04U027		---	X(A)2	---	X(A)2	
	PJ#003		Refer to SW Boundary				
	PJ#027		---	X(A)2	---	X(A)2	
	PJ#509		---	---	---	---	
	J	01U003		---	Xf	---	---
		01U050		---	Xf	---	---
		01U051		---	Xf	---	---
		01U053		---	Xf	---	---
		01U054		---	Xf	---	---
		01U062		---	Xf	---	---
		01U524		---	Xf	---	---
01U525			---	Xf	---	---	
01U526			---	Xf	---	---	
01U527		---	Xf	---	---		

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
K	01U047		---	X(A)2	---	X(A)2
	01U048		---	X(A)2	---	X(A)2
	01U052		---	X(A)2	---	X(A)2
	01U065		---	X(A)2	---	X(A)2
	01U128		---	X(A)2	---	X(A)2
	01U601		---	X(A)2	---	X(A)2
	01U602		---	X(A)2	---	X(A)2
	01U603		---	X(A)2	---	X(A)2
	01U604		---	X(A)2	---	X(A)2
	01U605		---	X(A)2	---	X(A)2
	01U607		---	X(A)2	---	X(A)2
	01U608		---	X(A)2	---	X(A)2
	01U609		---	X(A)2	---	X(A)2
	01U610	DOES NOT EXIST	---	X(A)	---	X(A)
	01U611		---	X(A)2	---	X(A)2
	01U612		---	X(A)2	---	X(A)2
	01U613		---	X(A)2	---	X(A)2
	01U615		---	X(A)2	---	X(A)2
	01U616		---	X(A)2	---	X(A)2
	01U617		---	X(A)2	X(A)2	X(A)2
	01U618		---	X(A)2	---	X(A)2
	01U619		---	X(A)2	---	X(A)2
	01U620		---	X(A)2	---	X(A)2
	01U621		---	X(A)2	X(A)2	X(A)2
	01U622		---	X(A)2	---	X(A)2
	01U623		---	X(A)2	---	X(A)2
	01U624		---	X(A)2	---	X(A)2
	01U625		---	X(A)2	---	X(A)2
	01U626		---	X(A)2	---	X(A)2
	01U627		---	X(A)2	---	X(A)2
	01U628		---	X(A)2	---	X(A)2
	03U013		---	X(A)2	---	X(A)2
	03U075		---	X(A)2	---	X(A)2
03U076		---	X(A)2	---	X(A)2	
03M013		---	X(A)2	---	X(A)2	
03L013		---	X(A)2	---	X(A)2	

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
129-3	03U087		---	X3	---	---
	03U521		---	X1	---	---
129-5	01U072		---	X1	---	---
	03U097		---	X1	---	---
	03U111		---	X3	---	---
	03U129		---	X1	---	---
129-15	03U536		---	X	---	---
	03U016		---	X3	---	---
	03U032		---	X3	X1	X3
	03U090		---	X3	---	---
	03U124		---	X1	X1	X1
	03L091		---	X1	---	---
SOUTHWEST BOUNDARY	03U001		X(A)	X(A)2	X(A)2	X(A)2
	03U002		X(A)	X(A)2	X(A)2	X(A)2
	03U003		X(A)	X(A)2	X(A)2	X(A)2
	03U021		---	X(A)2	---	X(A)2
	03U077		---	X(A)2	---	X(A)2
	03U078		---	X(A)2	---	X(A)2
	03U079		---	X(A)2	---	X(A)2
	03U084		---	X(A)2	---	X(A)2
	03U671		---	X(A)2	---	X(A)2
	03U672		X(A)	X(A)2	X(A)2	X(A)2
	03U673		X(A)	X(A)2	X(A)2	X(A)2
	03U701		---	X(A)2	---	X(A)2
	03U702		---	X(A)2	---	X(A)2
	03U703		---	X(A)2	---	X(A)2
	03U708		---	X(A)2	---	X(A)2
	03U709		---	X(A)2	---	X(A)2
	03U710		---	X(A)2	---	X(A)2
	03U711		X(A)	X(A)2	X(A)2	X(A)2
	03U801		X(A)	X(A)2	X(A)2	X(A)2
	03U803		---	---	---	---
	03U804		---	X(A)2	---	X(A)2
03U805		---	X(A)2	---	X(A)2	
03U806		X(A)	X(A)2	X(A)2	X(A)2	

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
SOUTHWEST BOUNDARY (CONT.)	03M001		X(A)	X(A)2	X(A)2	X(A)2
	03M002		X(A)	X(A)2	X(A)2	X(A)2
	03M003		X(A)	X(A)2	X(A)2	X(A)2
	03M713		X(A)	X(A)2	X(A)2	X(A)2
	03M802		X(A)	X(A)2	X(A)2	X(A)2
	03M806		X(A)	X(A)2	X(A)2	X(A)2
	03L001		X(A)	X(A)2	X(A)2	X(A)2
	03L002		X(A)	X(A)2	X(A)2	X(A)2
	03L003		X(A)	X(A)2	X(A)2	X(A)2
	03L021		---	X(A)2	---	X(A)2
03L077		---	X(A)2	---	X(A)2	
03L078		---	X(A)2	---	X(A)2	
03L079		---	X(A)2	---	X(A)2	
03L084		---	X(A)2	---	X(A)2	
03L673		X(A)	X(A)2	X(A)2	X(A)2	
03L802		X(A)	X(A)2	X(A)2	X(A)2	
03L806		X(A)	X(A)2	X(A)2	X(A)2	
03F302		X(A)	X(A)2	X(A)2	X(A)2	
03F303		X(A)	X(A)2	X(A)2	X(A)2	
03F304		X(A)	X(A)2	X(A)2	X(A)2	
03F305		X(A)	X(A)2	X(A)2	X(A)2	
03F306		X(A)	X(A)2	X(A)2	X(A)2	
03F307		X(A)	X(A)2	X(A)2	X(A)2	
03F308		X(A)	X(A)2	X(A)2	X(A)2	
03F312		X(A)	X(A)2	X(A)2	X(A)2	
04U001		X(A)	X(A)2	X(A)2	X(A)2	
04U002		X(A)	X(A)2	X(A)2	X(A)2	
04U003		X(A)	X(A)2	X(A)2	X(A)2	
04U077		---	X(A)2	---	X(A)2	
04U673		X(A)	X(A)2	X(A)2	X(A)2	
04U701		---	X(A)2	---	X(A)2	
04U702		---	X(A)2	---	X(A)2	
04U708		---	X(A)2	---	X(A)2	
04U709		---	X(A)2	---	X(A)2	
04U711		X(A)	X(A)2	X(A)2	X(A)2	
04U713		X(A)	X(A)2	X(A)2	X(A)2	
04U714		X(A)	X(A)2	X(A)2	X(A)2	
04U802		X(A)	X(A)2	X(A)2	X(A)2	
04U806		X(A)	X(A)2	X(A)2	X(A)2	

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
SOUTHWEST BOUNDARY (CONT.)	04J077		---	X(A)2	---	X(A)2
	04J702		---	X(A)2	---	X(A)2
	04J708		---	X(A)2	---	X(A)2
	04J713		X(A)	X(A)2	X(A)2	X(A)2
	04J714		X(A)	X(A)2	X(A)2	X(A)2
	PJ#003		X(A)	X(A)2	X(A)2	X(A)2
	PJ#309		X(A)	X(A)2	X(A)2	X(A)2
	PJ#310		X(A)	X(A)2	X(A)2	X(A)2
	PJ#311		X(A)	X(A)2	X(A)2	X(A)2
	PJ#313		X(A)	X(A)2	X(A)2	X(A)2
	PJ#802		X(A)	X(A)2	X(A)2	X(A)2
	PJ#806		X(A)	X(A)2	X(A)2	X(A)2
	GRAVEL PIT	03U704		---	X(A)2	---
03U705			---	X(A)2	---	---
03U706			X(A)	X(A)2	X(A)2	X(A)2
03U707			---	X(A)2	---	X(A)2
03L522			---	X	---	---
03L523			---	X1	---	---
Staff Guage 1					X(A)2	
Staff Guage 2				X(A)2		X(A)2
Staff Guage 3				X(A)2		X(A)2
BEDROCK VALLEY	03U005		---	X3	---	---
	03M005		---	X3	---	---
	03L005		---	X3	---	---
	03L081		---	X3	---	---
	03L137		---	X1	X1	X1
	03L138		---	X1	X1	X1

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
MISC. WELLS	01U012		---	X 1	---	---
	01U044		---	X 1	---	---
	01U130		---	X 1	---	---
	01U537		---	X	---	---
	01U538		---	X	---	---
	01U675		---	X	---	---
	03U006		---	X 3	---	---
	03U007		---	X 3	---	---
	03U008		---	X 3	---	---
	03U009		---	X 3	---	---
	03U010		---	X 3	---	---
	03U012		X(A)	X(A) 2	X(A) 2	X(A) 2
	03U031		---	X(A) 2	---	X(A) 2
	03U531		---	X	---	---
	03U532		---	X	---	---
	03M007		---	X 3	---	---
	03M010		---	X 1	---	---
	03M012		X(A)	X(A) 2	X(A) 2	X(A) 2
	03M505		---	X	---	---
	03M532		---	X	---	---
	03L007		---	X 3	---	---
	03L010		---	X 1	---	---
	03L012		X(A)	X(A) 2	X(A) 2	X(A) 2
	03L086		---	X 1	---	---
	04U007		---	X 3	---	---
	04U012		X(A)	X(A) 2	X(A) 2	X(A) 2
	04U510		---	X 3	---	---
	PJ#501		---	---	---	---
	PJ#502		---	---	---	---
	PJ#503		---	---	---	---
PJ#506		---	---	---	---	
PJ#507		---	---	---	---	

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
(Glacial) (Till)	01L811		---	X1	---	---
	01L813		---	X1	---	---
	01L816		---	X1	---	---
	01L821		---	X1	---	---
	01L822		---	X1	---	---
	01L823		---	X1	---	---
	01U901		Refer to Site A			
	01U902		Refer to Site A			
(Hillside) (Formation)	234353	Lentsch Ice	---	---	---	---
	234356	Nordquist P43	---	---	---	---
	234357	Phillips Pet.	---	---	---	---
	234425	Lee	---	---	---	---
	234430	Cmiel	---	---	---	---
	234463		---	---	---	---
(Upper) (Hillside) (Formation)	03U672		Refer to SW Boundary Area			
	03U673		Refer to SW Boundary Area			
	03U711		Refer to SW Boundary Area			
	03U801		Refer to SW Boundary Area			
	03U804		Refer to SW Boundary Area			
	03U805		Refer to SW Boundary Area			
	03U806		Refer to SW Boundary Area			
	03U811		---	X1	---	---
	03U821		---	X1	---	---
	03U822		---	X1	---	---
	03U824		---	X1	---	---
	03U831		---	X1	---	---
	03U832		---	X1	---	---
	409550	PCA6U3	---	X3	---	---
	409595		---	X1	---	---
	409596	BS118U3	---	X1	---	---
409598		---	X1	---	---	
(Middle) (Hillside) (Formation)	03M843		---	X1	X1	X1
	03M848		---	X1	X1	X1

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
OFF-POST (CONT.)	03L673		Refer to SW Boundary Area			
	03L802		Refer to SW Boundary Area			
	03L806		Refer to SW Boundary Area			
(Lower)	03L809		---	X3	---	---
(Hillside)	03L811		---	X1	---	---
(Formation)	03L813		---	X1	---	---
	03L822		---	X1	---	---
	03L832		---	X1	---	---
	03L841		---	X3	---	---
	03L846		---	X1	---	---
	03L848		---	X1	---	---
	03L853		---	X1	---	---
	03L854		---	X1	---	---
	03L856		---	X1	---	---
	03L858		---	X1	---	---
	03L859		---	X1	---	---
	03L860		---	X1	---	---
	03L861		---	X1	---	---
	409546	PCA2L3	---	X1	---	---
	409556	PCA4L3	---	X1	---	---
	409557	PCA1L3	---	X1	---	---
	409597	BS118L3	---	X1	---	---
(St.)	200814	Amer. Linen	---	---	---	---
(Peter)						
(Formation)						
(Prairie)	04U322	508115	---	X1	---	---
(du Chien)	04U414	500691	---	X1	---	---
(Formation)	04U673		Refer to SW Boundary Area			
	04U711		Refer to SW Boundary Area			
	04U806		Refer to SW Boundary Area			
	04U821		---	X1	X1	X1
	04U832		---	X1	---	---
	04U841		---	X1	---	---
	04U843		---	X1	---	---
	04U844		---	X1	---	---
	04U845		---	X1	---	---
	04U846		---	X1	---	---
	04U847		---	X3	X1	X3

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
OFF-POST (CONT.)	04U848		---	X 1	---	---
	04U849		---	X 1	---	---
	04U850		---	X 1	---	---
	04U851		---	X 1	---	---
	04U852		---	X 1	---	---
	04U854		---	X 1	---	---
	04U855		---	X 1	---	---
	04U859		---	X 1	---	---
	04U860		---	X 1	---	---
	04U861		---	X 1	---	---
	04U871		---	X 1	---	---
	04U872		---	X 1	---	---
	04U875		---	X 1	---	---
	04U877		---	X 1	---	---
	04U879		---	X 1	---	---
	04U880		---	X 1	---	---
	04U881		---	X 1	---	---
	04U882		---	X 1	---	---
	04U883		---	X 1	---	---
	139035	Watergate Marina	---	---	---	---
	191942	Model Stone	---	---	---	---
	200154	UM Golf Course	---	---	---	---
	200524	St. Anthony #5	---	---	---	---
	200803	St. Anthony #4	---	---	---	---
	200804	St. Anthony #3	---	---	---	---
	200812	Gross Golf	---	X(2)	X(2)	X(2)
	206787	MV High School	---	X(2)	---	---
	206791	New Brighton #7	---	X(2)	---	---
	206793	New Brighton #3	---	X(2)	---	---
	206797	New Brighton #6	---	X(2)	---	---
	233221	Reuben Meats	---	X(2)	---	---
	233533	Roselawn Cem.	---	---	---	---
	234319	Hide & Tallow #1	---	---	---	---
	234337		---	---	---	---
	234547	Hnywell Ridgway	---	X(2)	---	---
	236122	NWRU4	---	X(2)	---	---
	409547	PCA1U4	---	X 1	---	---
	409548	PCA2U4	---	X 1	---	---
	409549	PCA3U4	---	X 1	X 1	X
	409555	PCA5U4	---	X 1	---	---

FISCAL YEAR 1991 GROUNDWATER LEVEL MONITORING PLAN

Site	Well I.D.	Common Name	Frequency (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
OFF-POST (CONT.)						
(Prairie)	PJ#318		---	X 1	---	---
(du Chien)	200148	Paper Calmerson	---	---	---	---
(/Jordan)						
(Formation)						
(Jordan)	201082	NW Hospital	---	---	---	---
(Formation)						
(Unknown)	134318	Seutter	---	---	---	---
(Formation)	200264		---	---	---	---
	206688	Cloverpond	---	---	---	---
	233222	Lowry Gr. Trail.	---	---	---	---
	233533	Roselawn Cem.	---	---	---	---
	234335	Mengelkoch #1	---	---	---	---
	234546	Hnywell Ridgway	---	X(2)	---	---
	235539		---	---	---	---
	235735	Flour City Arch	---	---	---	---
	405651	Metal-Matic	---	X(2)	---	---
	BOYLE		---	---	---	---

NOTES:

- (1) "X" denotes a water level measurement.
- (2) Water level will be measured if the wellhead is accessible.
- (A) Indicates that the sampling will be conducted by Alliant Technosystems, Inc.

April 5, 1991

Contracting Officer's Representative
Twin Cities Army Ammunition Plant
Department of the Army
New Brighton, Minnesota 55112

Attention: SMCTC-EV

Dear Sir:

Subject: Quarter 30 Monitoring

Sampling for the second quarter of FY 91 (Quarter 30) was completed April 2, 1991. Attached are copies of the sample verification sheets completed by STS. All wells included in the Monitoring Plan were sampled or had water levels measured with the following exceptions:

Water Quality

200812 (Gross Golf Course)	Not in use
206787 (Mounds View High School)	"
206791 (New Brighton #7)	"
206793 (New Brighton #3)	"
236122 (NWRU4)	Recently abandoned

Water Levels

MNDOT	No access for probe
03U533	Abandoned, old farmstead well
03U534	" " "
03U536	" " "
01U537	" " "
01U538	" " "
03U531	" " "
03U532	" " "
03M532	" " "
01U675	Does not exist
03L522	No access to well, located on steep, sandy slope

Water Levels Con't.

03M505	Abandoned for Army Reserve Center
409595	Does not exist
409598	"
236122	Recently abandoned
200812	No access for probe
206787	" "
206791	" "
206793	" "
233221	" "
234547	" "
234546	" "
405651	" "
03U716	Left off verification sheets W.L. done by STS 4-4-91.

All of the above information has been verified by FCC.

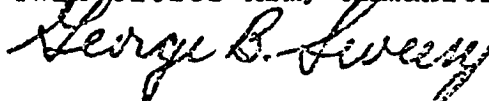
STS has noted that locks for on-post wells 01U003 & 01U054 do not lock. These have been replaced. Also, a lock has been put on 01U053.

Analytical results are due from Pace, Inc. on May 2. These will be forwarded for distribution to agencies as soon as they are received.

The POC is Bridgette Manderfeld, Ext. 460.

Very truly yours,

FEDERAL CARTRIDGE COMPANY
Twin Cities Army Ammunition



George B. Sweesy, Plant Manager

GBS/DLT/b

Attachments

cc: D. L. Terho, w/Attach.



May 20, 1991

Ms. Bridget Manderfeld
Federal Cartridge Company
Twin Cities Army Ammunition Plant
New Brighton, MN 55112

STS Project 92797-TC

Re: Quarter 30 Sampling

Dear Ms. Manderfeld:

During your review of field and laboratory data for the Quarter 30 groundwater quality monitoring, two errors were found in the field data collected by STS.

USATHAMA well No. 03M843 was sampled on March 21, 1991 for category 1. The correct analyses for the well requested by you were category 1 and 7. The erroneous line of data on the STS chain of custody record resulted in the sample being analyzed only for category 1. We propose to resample the well during Quarter 31 sampling at no charge to you. In addition, extra quality assurance procedures shall be followed.

A replicate sample of groundwater collected from well 03M843 shall be submitted for analysis. In addition, we shall schedule the collection of a quality assurance field blank to take place at the well site prior to collection of the groundwater samples from the well. We feel that the collection of a replicate and field blank in the course of well sampling activities will insure that representative and defensible sampling results shall be obtained from the well.

A second mistake was made on an STS chain of custody record in the course of sampling USATHAMA well 03L523. On the chain of custody record, the identification number given for the well was 03U523. The well was sampled for category 1 at your request. Please notify Pace Laboratories in Golden Valley, Minnesota of the mistake, so that the analytical results from the well will be entered with the correct identification number into the IRDMS.

As we have discussed, the two mistakes occurring during Quarter 30 were the result of erroneous chain of custody entries by STS field personnel. We hope that the errors made will not cause you undue hardship. Thank you for your understanding in this matter. If

STS Consultants Ltd.
Consulting Engineers

3650 Annapolis Lane
Minneapolis, Minnesota 55447
612.559.1900/Fax 612.559.4507



Federal Cartridge Company
STS Project #92797-TC
May 20, 1991
Page 2



you have any questions concerning this letter, please contact us at your earliest convenience.

Sincerely,

STS CONSULTANTS, LTD.

A handwritten signature in cursive script that reads "Steven J. Carlson for Steven J. Carlson".

Steven J. Carlson
Senior Environmental Technician

A handwritten signature in cursive script that reads "James H. Overtoom".

James H. Overtoom, P.E.
Regional Vice President

SJC/dn
Enc.

June 11, 1991

Contracting Officer's Representative
Twin Cities Army Ammunition Plant
Department of the Army
New Brighton, Minnesota 55112

Attention: SMCTC-EV

Dear Sir:

Subject: Quarter 31 Monitoring

Sampling for the third quarter of FY 91 (Quarter 31) was completed June 7, 1991. Attached are copies of the sample verification sheets completed by STS. All wells included in the agency approved Monitoring Plan were sampled or had water levels measured with the following exceptions:

Water Levels

200812 (Gross Golf Course)	No access for probe
206787 (Mounds View High School)	" " "
206791 (New Brighton #7)	" " "
206793 (New Brighton #3)	" " "

Water Quality

206787	Not in use
206791	Not in use
01U103 - Category 1	Will be sampled during Site A monthly monitoring 6/18
01U350 - Categories 1 & 2	" " "
01U902 - Category 1	" " "

The above information has been cross-checked with STS field notes.

Contracting Officer's
Representative

-2-

June 11, 1991

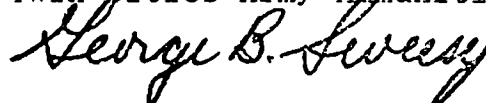
It should be noted that Steve Carlson of STS went beyond the call of duty to obtain a sample from well 206793. Since this well is currently only operational during the early morning hours, Steve sampled the well at 6:00 A.M. on June 7.

The analytical results are due from Pace, Inc. on July 8, and will be forwarded for distribution to the agencies as soon as they are received.

The POC is Bridgette Manderfeld, Ext. 460.

Very truly yours,

FEDERAL CARTRIDGE COMPANY
Twin Cities Army Ammunition Plant



George B. Sweesy, Plant Manager

GBS/DLT/b

Attachment

cc: D. L. Terho, w/Attach.

September 17, 1991

Contracting Officer's Representative
Twin Cities Army Ammunition Plant
Department of the Army
New Brighton, Minnesota 55112

Attention: SMCTC-EV

Dear Sir:

Subject: Quarter 32 Monitoring

Sampling for the fourth quarter of FY 91 (Quarter 32) was completed September 6, 1991. Attached are copies of the sample verification sheets completed by STS. All wells included in the Monitoring Plan were sampled or had water levels measured with the following exceptions:

Water Quality

206791 (New Brighton #7)	Not in use
03U124	Pump got stuck in well, unable to lower it to obtain sample

Water Levels

206791	Not in use
200812 (Gross Golf Course)	No access for probe
206787 (Mounds View High School)	No access for probe

Analytical results are due from Pace on October 7. These will be forwarded for distribution to the agencies as soon as they are received.

Contracting Officer's
Representative

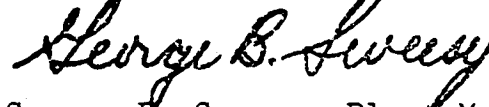
-2-

September 17, 1991

The POC is Bridgette Manderfeld, Ext. 460.

Very truly yours,

FEDERAL CARTRIDGE COMPANY
Twin Cities Army Ammunition Plant



George B. Sweesy, Plant Manager

GBS/DLT/b

Attachment

cc: D. L. Terho, w/Attach.
Environmental Files, w/Attach.

April 5, 1991

Alliant Techsystems Inc. Telephone 612 939-2000
Twin Cities Arsenal
New Brighton, Minnesota 55112

Mr. Mark Schmitt
Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, Minnesota 55155

Subject: TRGS DECEMBER 1990 MONITORING EVENT

Dear Mr. Schmitt:

On 20 March 1991, a meeting was held at the Minnesota Pollution Control Agency (MPCA) Office to discuss the subject monitoring event. Those in attendance at this meeting included the following:

Gary Eddy, MPCA
Mark Schmitt, MPCA
Barb Gnabasik, MPCA
John Seaberg, MPCA
Doug Fullen, Alliant Techsystems
Brian Boevers, Conestoga-Rovers & Associates
Dan Sola, Conestoga-Rovers & Associates
Mike Fix, Army/TCAAP

The purpose of the meeting was to discuss the TGRS December 1990 monitoring event. The MPCA had been informed several times since 12 March 1991, that some of the water levels proposed in the proposed federal government fiscal year (FY) 1991 TCAAP Annual Monitoring Plan (AMP) were inadvertently not collected. Water levels were not collected at 32 (thirty-two) wells or well nests for a total of 61 (sixty-one) water level readings (shown in Table 1) per the proposed FY 1991 AMP. However, water quality samples were collected from all of the designated wells and treatment systems for which Alliant Techsystems is responsible.

Although we are disappointed that the water level readings were not collected per the proposed FY 1991 AMP, we feel it is important to review the events leading to the miscommunication within CRA that lead to the water levels not being collected. During September 1990 the TCAAP project managers decided to change TCAAP monitoring from a calendar year basis to a federal fiscal year basis in order for the Army to meet the FFA reporting deadline of February 15 for submitting the annual report to the MPCA and EPA. Accordingly, monitoring for FY 1991 would be conducted from October 1990 thru September 1991 with the FY 1991 Annual Monitoring Report to be submitted on February 15, 1992. The 1990 Annual Monitoring Report covered January 1990 thru September 1990 and was submitted by February 15, 1991.

DJF204N

Marine Systems
Precision Armament Systems
Ordnance Systems
Information Storage Systems

Each year the Annual Monitoring Plan is supposed to be evaluated and modified, if necessary, based on the findings of the previous year's monitoring results. Because of the lag time between when sampling is conducted and when the Annual Monitoring Report and subsequent Annual Monitoring Plan is approved by the Agencies, it was decided to have the Annual Monitoring Plan precede the actual monitoring by at least seven months. Accordingly, the FY 1992 Monitoring Plan was submitted with the 1990 Annual Monitoring Report. Because the FY 1991 monitoring began in October 1990, a FY 1991 Monitoring Plan needed to be developed, submitted and approved independently from any Annual Monitoring Report. The proposed FY 1991 Monitoring Plan was submitted to the MPCA on October 31, 1990.

The Army received the MPCA/EPA comments on the proposed FY 1991 Monitoring Plan on November 28, 1990 with conditional approval of the plan. However, there were numerous monitoring discrepancies between the Army submittal, the Alliant Techsystems submittal and agency requests for sampling and analysis. A meeting was held on December 4, 1990 between the Army, the MPCA, the EPA (by telephone) and Army and Alliant consultants.

The major differences between the monitoring specified in the 1990 Monitoring Plan and the proposed FY 1991 Monitoring Plan was that the quarterly monitoring was changed from the first month of the quarter to the last month of the quarter and that the 1st quarter FY 1991 sampling was reduced from the quarterly core monitoring network to sampling of the extraction wells only. Specific parameters and well sampling responsibilities were changed slightly also.

A { A written summary of the FY 1991 monitoring requirements from the December 4, 1990 meeting prepared by the Army's consultant, was received by Alliant Techsystems on December 21, 1990. Formal written approval of the proposed FY 1991 Annual Monitoring Plan has not yet been received by the Army or Alliant Techsystems.

Because of the contractual delays in October 1990 and the changing FY 1991 Monitoring Plan during November and December 1990, the detailed written schedule and monitoring procedures were not prepared until January 1991 and the October, November and December monitoring was conducted based on verbal direction to field personnel. During the course of communicating that the quarterly core network of monitoring wells was being dropped in December and only the extraction wells were being sampled, field personnel assumed water levels were dropped from December also. No problems were identified by field personnel, so no additional issues were raised.

Attention was then shifted to preparation of the 1990 Annual Monitoring Report which was due to the Army by the third week of January. Water levels for December 1990 were not used in preparation of the 1990 Monitoring Report because the period covered by the report ended in September 1990. As a result, the December water levels were not needed until the first quarter FY 1991 report was being prepared in February 1991. It wasn't until the first quarter FY 1991 report was prepared that it was discovered that the December water levels had not been taken. After it was discovered in March 1991 that water levels had not been taken, the Army was informed and the Army informed the MPCA on 12 March 1991.

Alliant Techsystems and CRA are and will continue to take all possible steps to assure that the necessary monitoring approved by the MPCA/EPA is conducted per the TCAAP Annual Monitoring Plans. In an effort to demonstrate this commitment, internal written schedules and correspondence for the TGRS, Site K and Site I monitoring to the field crew were provided and are enclosed with this letter. Please review this information as it contains the FY 1991 TGRS, Site K (Building 103) and Site I (Building 502) monitoring schedule and inform us fifteen days prior to the scheduled sampling dates if the MPCA desires to split samples. If the MPCA does not inform Alliant Techsystems fifteen days before the scheduled sampling events, we will assume the MPCA does not wish to split samples during that quarter.

During the 20 March meeting, the technical impact of not collecting a portion of the December 1990 groundwater levels was discussed briefly. It was decided that it would be prudent to provide the MPCA with our input as to the technical significance of not obtaining the groundwater levels provided in Table 1.

The December 1990 water level monitoring round was to consist of only a short list of selected wells designated the "core network" monitoring wells. During alternate quarters (December and July) this short list of wells is scheduled to be monitored. The water level data collected during these quarters is used to compile a historical water level database for monitoring long term water level trends. These data are used in the Annual Monitoring Report to prepare hydrographs for selected well nests on TCAAP. These hydrographs illustrate any seasonal or other general change in water levels at the Site. To date, these variations have been minor with no impact on performance of the TGRS. The hydrographs do not figure into the assessment of TGRS capture.

The past three years of operating the BGRS and the TGRS have illustrated that significant variation in water levels, gradients, capture zone, etc. do not

happen over short time periods (e.g. quarterly). This observation lead to the decision to reduce groundwater level monitoring to the short list for alternate quarters. The performance of the TGRS is based on the comprehensive groundwater level monitoring events conducted in March and September. The missing December data will have no impact on our ability to assess the TGRS at the end of Fiscal Year 1991.

Documentation of TGRS capture is provided in the 1989 and 1990 Annual Monitoring Reports utilizing primarily the comprehensive water level rounds which illustrate drawdowns in the water table. Based on the water levels collected during the comprehensive monitoring rounds, the TGRS operation is evaluated similar to a very large pump test. Pumping the groundwater at a certain rate yields a drawdown distribution and zone of capture. Given the steady state conditions present in the aquifer at TCAAP, the capture documented during the comprehensive water level rounds can be extrapolated to other months, where water level data is not collected, based on the pumping rate of the system. This is the real basis used for evaluating system performance. Therefore, quarterly groundwater level monitoring primarily only serves to prepare hydrographs which are used to track long term fluctuations in the regional water table.

It is assumed that the main concern for missing the short list of water levels in December ultimately rests with being able to show that the TGRS is achieving the necessary capture. In the absence of any significant variations observed in the TCAAP groundwater system, a comparison of documented capture and corresponding TGRS flow rates illustrates that adequate capture was occurring in December 1990. Following is a summary of the TGRS flow rates during the comprehensive water level rounds which are used to illustrate capture:

<u>Report</u>	<u>Comprehensive Round</u>	<u>Monthly Ave. TGRS Flow</u>
1989 AMR	April 1989 Round	2500 gpm (March, 1989) 2260 gpm (April, 1989) 2350 gpm (May, 1989)
1990 AMR	April 1990 Round	2400 gpm (March, 1990) 2550 gpm (April, 1990) 2490 gpm (May, 1990)
-	-	2600 gpm (December, 1990)
1991 AMR	March 1991 Round	2610 gpm (February, 1991)

The plotted water levels for April 1989 and April 1990 water level rounds are published in the respective annual monitoring reports. Preliminary water level plots for the March 1991 comprehensive monitoring event are provided for comparison. For convenience, the 1990 plots are also attached for comparison. As can be seen from the March 1991 event plots, there are no significant changes in the overall water levels.

Mr. Mark Schmitt
April 5, 1991
Page 5

The missing data will have a minor effect on the continuity of the hydrographs. Fortunately, no single water level round has much significance with regard to the usefulness of the long term hydrographs.

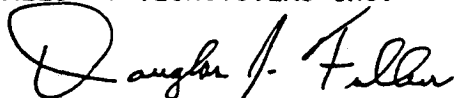
Since 1989 there have only been subtle changes in water levels at TCAAP. Overall, water levels declined slightly from 1989 to 1990 and have risen slightly from 1990 to 1991. The attached hydrographs show the minor water level fluctuations experienced since 1989. Data from nested wells illustrate that the entire aquifer thickness responded similarly over this period. The consistency in data across the Site suggests that there were no significant fluctuations in December 1990, which is consistent with our historical water level understanding at TCAAP.

Due to the subtle changes over 1990, missing the single water level round in December 1990 will have no meaningful impact on the historical water level database at TCAAP and it will not impact on our ability to interpret the zone of capture created by the TGRS.

In summary, although we regret that a portion of the proposed FY 1991 AMP groundwater levels were not collected in December 1990, we believe that technical impact to the overall program is minor. We have resumed the practice of preparing written schedules and instructions for monitoring events in an effort to prevent such a situation from reoccurring. The amount of effort and time expensed on this problem greatly exceeds the time it would actually require to collect the groundwater levels in December 1990, which is approximately one man-day or \$310.00. We have learned a great deal from this occurrence and will be scrutinizing the TCAAP monitoring program in detail. Obviously, the MPCA and EPA will be involved. If you have any questions or comments or if we can assist you in your review of this situation, please do not hesitate to contact me at (612) 639-3255.

Sincerely,

ALLIANT TECHSYSTEMS INC.



Douglas J. Fullen, P.E.
Sr. Principal Engineer

DJF/mja
Enclosure

cc: Tom Barournis, U.S., EPA
Martin McCleery, TCAAP
Pete Rissell, USATHAMA
Brian Boevers, CRA

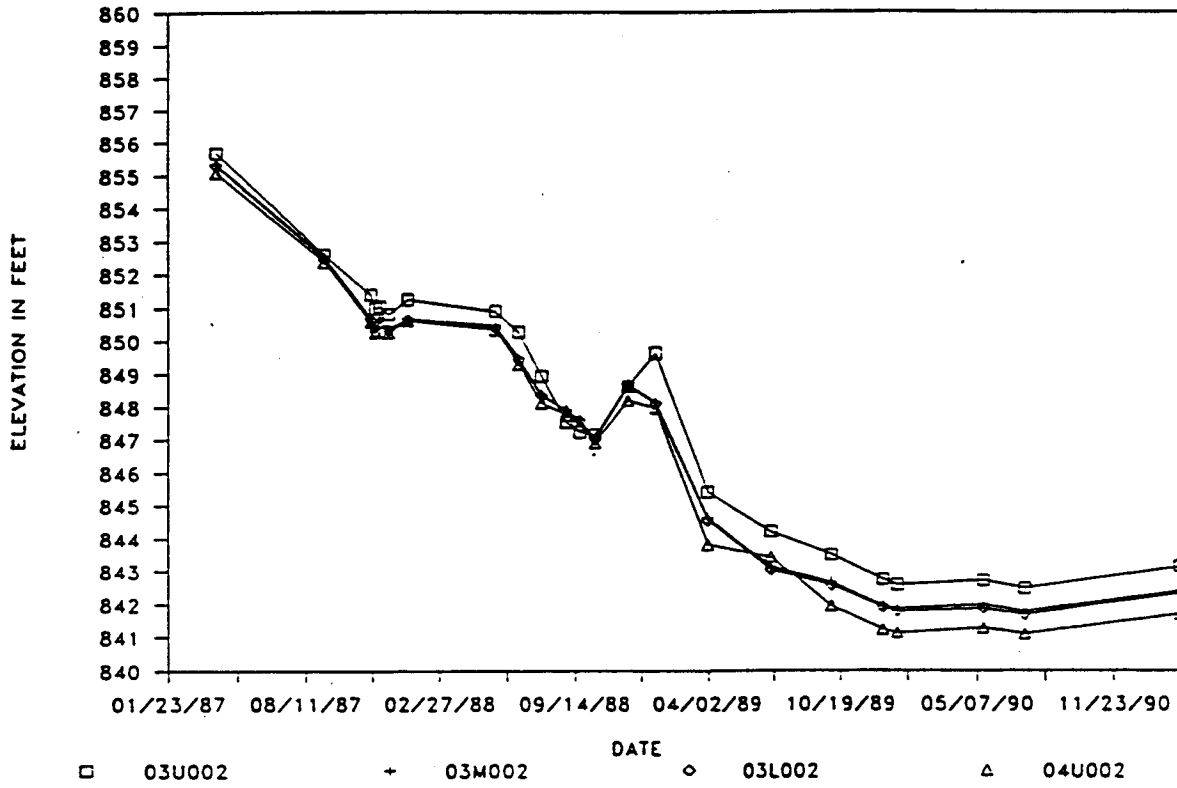
DJF204N

TABLE 1

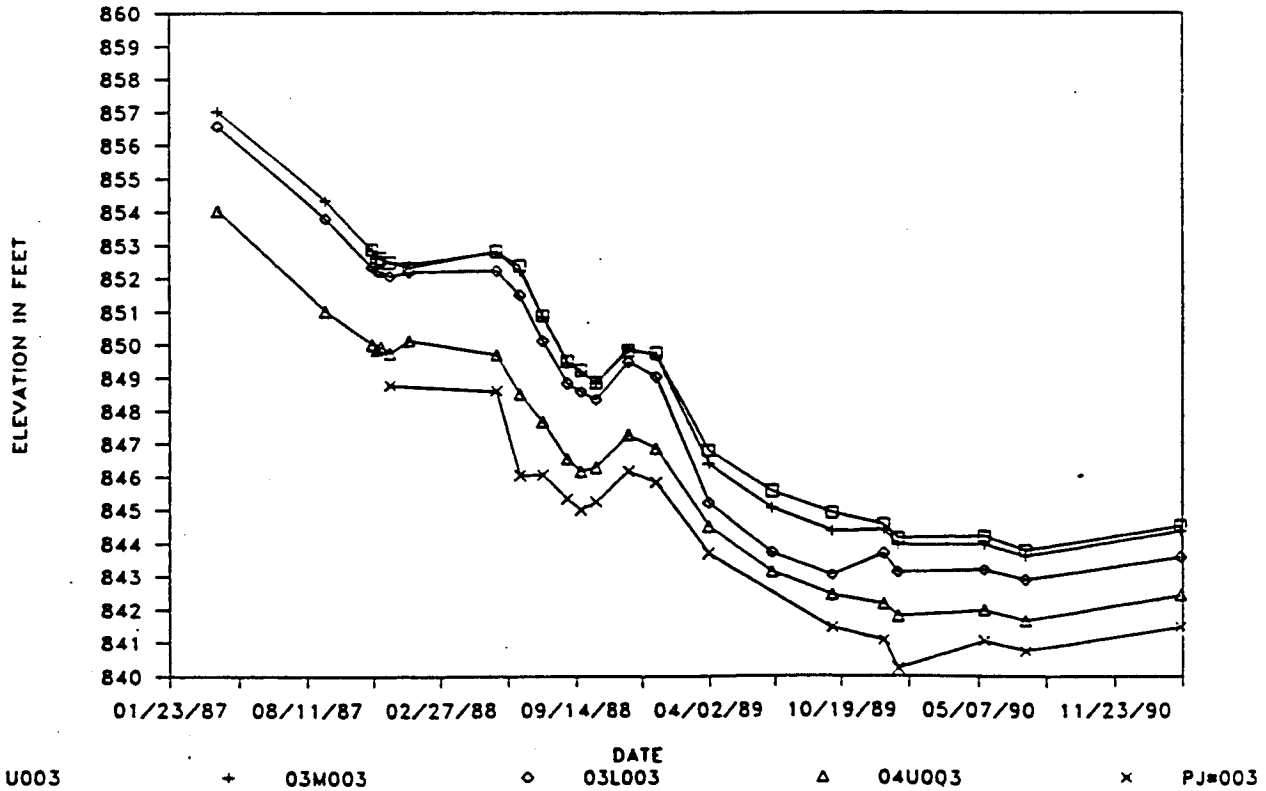
FY 1991 GROUNDWATER LEVEL MONITORING PLAN
DECEMBER 1990 QUARTERLY ROUND

<u>Well I.D.</u>	<u>Well I.D.</u>	<u>Well I.D.</u>
03U001	03U020	03M802
03M001	03M020	03L802
03L001	03L020	04U802
04U001	04U020	PJ#802
	03U672	03U806
03U002		03M806
03M002	03U673	03L806
03L002	03L673	04U806
04U002	04U673	PJ#806
	03U706	03U301
03U003		03U314
03M003	03U711	03U315
03L003	04U711	03U316
04U003		03U317
PJ#003	03M713	03F302
	04U713	03F303
03U012	04J713	03F304
03M012		03F305
03L012	04U714	03F306
04U012	04J714	03F307
		03F308
03U014	03U801	03F312
		PJ#309
		PJ#310
		PJ#311
		PJ#313

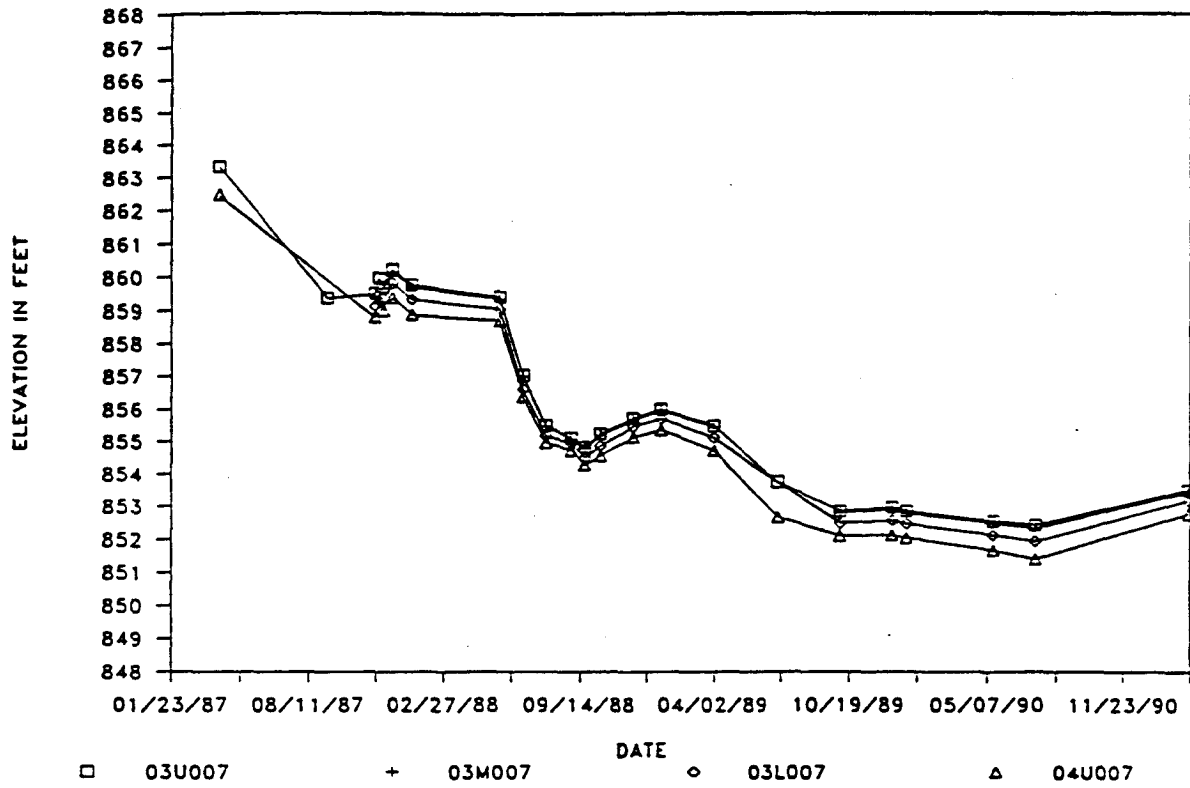
HYDROGRAPH - 002 NEST



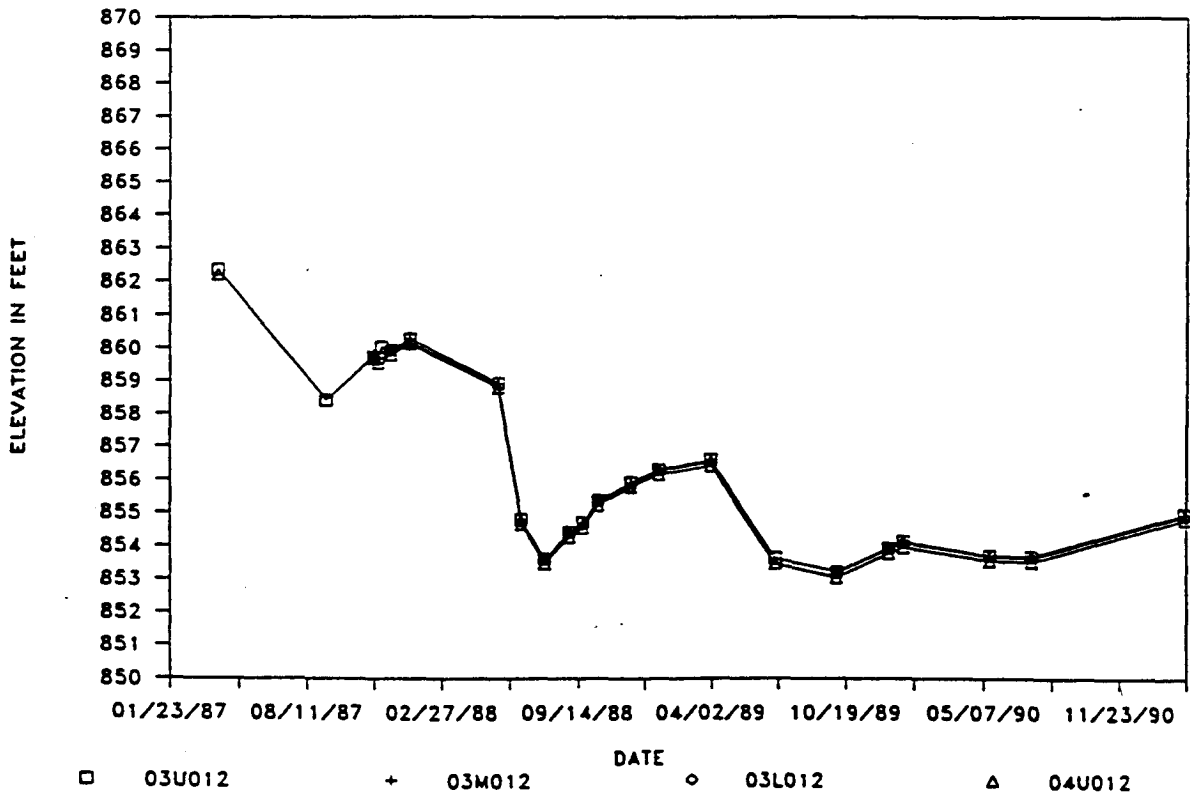
HYDROGRAPH - 003 NEST



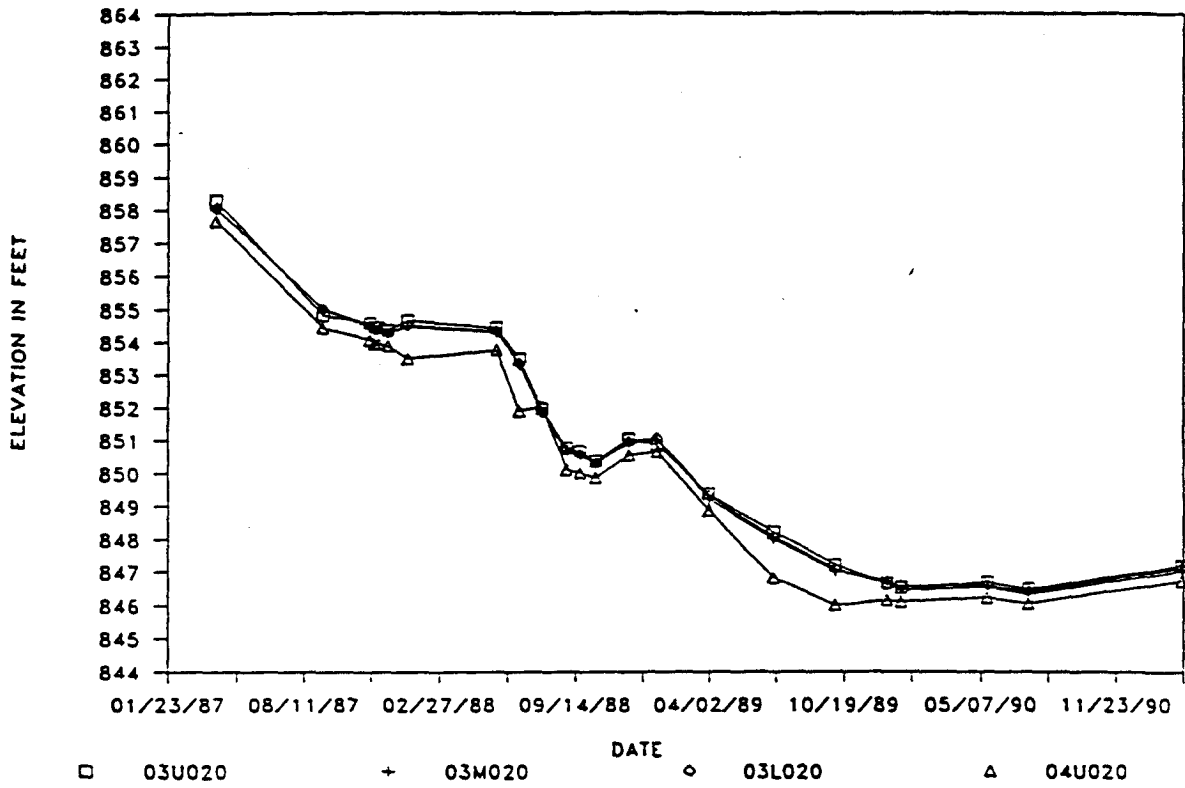
HYDROGRAPH - 007 NEST



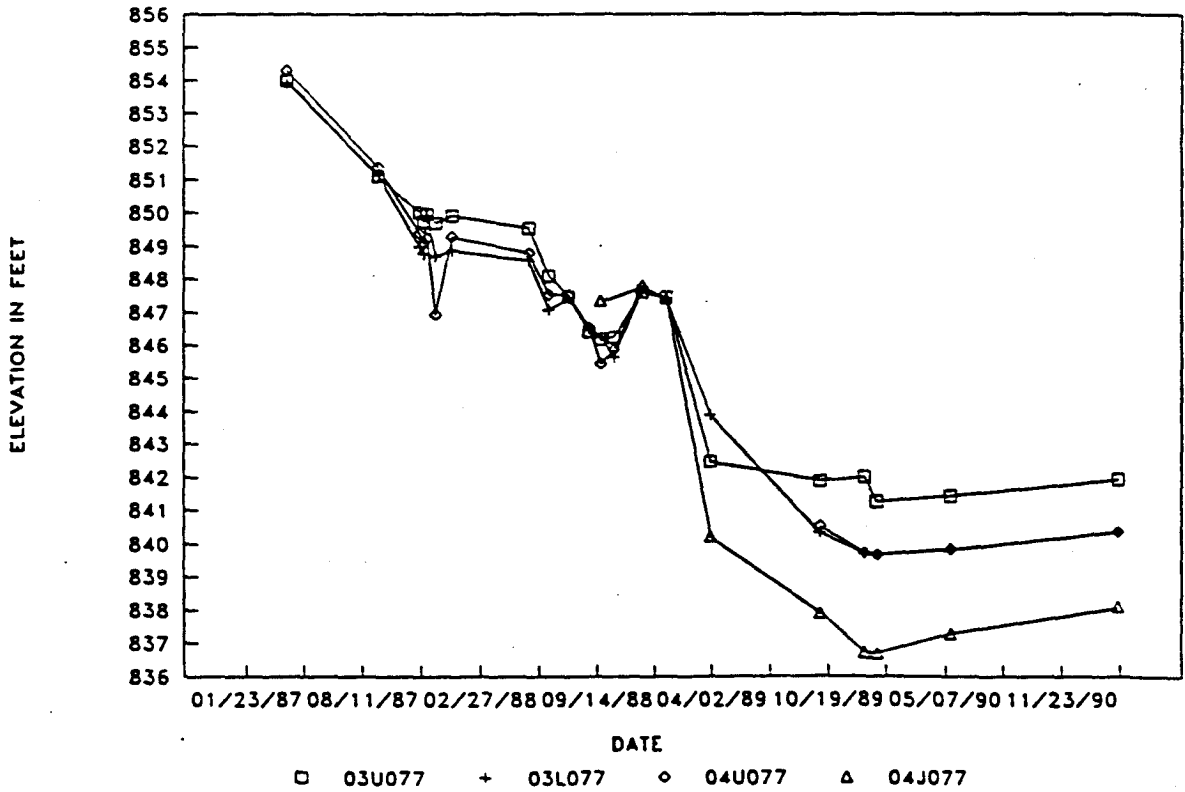
HYDROGRAPH - 012 NEST



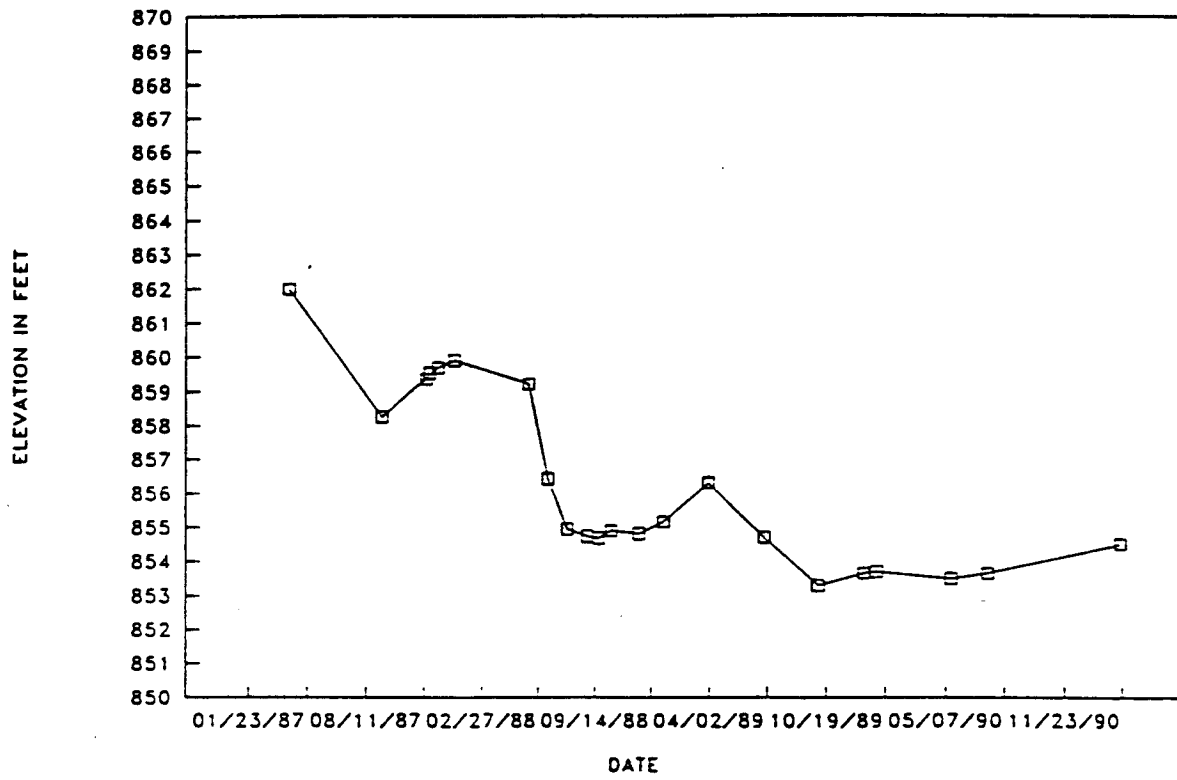
HYDROGRAPH - 020 NEST



HYDROGRAPH - 077 NEST



HYDROGRAPH - 03U706



Appendix D

FY 1991 Groundwater Quality Monitoring Plan

- Notes:
- 1** = Monitoring for Category 1 parameters delegated to FCC.
Other numbers represent other parameter categories.
 - 1(A)** = Monitoring delegated to Alliant Techsystems, Inc.
 - = Monitoring not performed

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
A	01U038		---	---	---	---
	01U039		---	1,7	---	---
	01U040		---	---	---	---
	01U041		---	---	---	---
	01U063		---	---	---	---
	01U067		---	---	---	---
	01U102		---	1,7	1,7	1,7
	01U103		---	1,7	---	---
	01U104		---	---	---	---
	01U105		---	---	---	---
	01U106		---	---	---	---
	01U107		---	1,7	---	---
	01U108(2)		1	1,7	1,7	1,7
	01U109		---	---	---	---
	01U110		---	---	---	---
	01U115		---	1,7	1,7	1,7
	01U116		---	1,7	---	---
	01U117		---	1,7	---	---
	01U118		---	1,7	---	---
	01U119		---	---	---	---
	01U120		---	1,7	---	---
	01U125		---	1,7	---	---
	01U126		---	1,7	---	---
	01U127		---	1,7	---	---
	01U133		---	---	---	---
	01U135		---	1,7	---	---
	01U136		---	1,7	---	---
	01U350(2)(3)		1,2,7	1,2,7	1,2,7	1,2,7
	01U901		---	1,7	---	---
	01U902(2)(3)		1	1,2,7	1,7	1,7
	134308		---	---	---	---
	134309		---	---	---	---
	134318		---	---	---	---
206713		---	---	---	---	
231845		---	---	---	---	
234370		---	---	---	---	
234404		---	---	---	---	
MNDOT		---	---	---	---	
03U023		---	1,7	---	---	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)				
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91	
B	01U011		---	---	---	---	
	01U022		---	---	---	---	
	01U033		---	---	---	---	
	01U034		---	---	---	---	
	01U035		---	---	---	---	
	01U036		---	1	---	---	
	01U037		---	---	---	---	
	01U100		---	---	---	---	
	01U101		---	---	---	---	
	01U122		---	---	---	---	
	03U011		---	---	---	---	
	03U022		---	---	---	---	
	03U082		---	1	---	---	
	C	01U043		---	---	---	---
		01U045(4)		---	4	---	---
01U046			---	---	---	---	
01U085			---	1,7	---	---	
03U024			---	---	---	---	
03U025			---	---	---	---	
03U083			---	1,7	---	---	
D	03U017		---	1(A)	---	---	
	03U018		---	1(A)	---	---	
	03U093		---	1(A)	1(A)	1(A)	
	03U096		---	1(A)	---	---	
	03U316		1(A)	1(A)	1(A)	1(A)	
	03U317		1(A)	1(A)	1(A)	1(A)	
	03U716		---	---	---	---	
	03M017		---	1(A)	---	---	
	03L017		---	1(A)	---	---	
	03L018		---	1(A)	---	---	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
E	03U015		---	1	---	---
	03U088		---	1	---	---
	03U089		---	1	---	---
	03U704		Refer to Gravel Pit Area			
F	03U019		---	1,7	---	---
	03U026		---	1,7	---	---
	03U090		Refer to Site 129-15			
	03U092		---	1,7	1,7	1,7
	03U112		---	1,4,7	---	---
	03U113		---	1,7	---	---
	03U114		---	1,7	1,7	1,7
	03U121		---	1,4,7	---	---
	03L113		---	1,7	---	---
	03L137		Refer to Bedrock Valley			
G	03U014		---	1(A)	---	---
	03U020		---	1(A)	---	---
	03U094		---	1(A)	---	---
	03U314		1(A)	1(A)	1(A)	1(A)
	03U315		1(A)	1(A)	1(A)	1(A)
	03M020		---	1(A)	---	---
	03L014		---	---	---	---
	03L020		---	---	---	---
	04U020		---	1(A)	---	---
	PJ#074 PJ#508		---	---	---	---
		Refer to Misc. Wells				

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
H	01U060		---	1,7	---	---
	01U098		---	1,7	---	---
	03U099		---	1,7	---	---
I	01U003		Refer to Site J			
	01U004		---	---	---	---
	01U053		Refer to Site J			
	01U054		---	---	---	---
	01U064		---	1(A)	---	---
	01U132		---	---	---	---
	01U631		---	---	---	---
	01U632		---	---	---	---
	01U634		---	---	---	---
	01U635		---	---	---	---
	01U636		---	1,5(A)	---	---
	01U638		---	---	---	---
	01U639		---	1(A)	---	---
	01U640		---	1,5(A)	---	---
	01U642		---	---	---	---
	01U652		---	---	---	---
	01U666		---	---	---	---
	01U667		---	---	---	---
	01U668		---	---	---	---
	01U675		---	---	---	---
	03U003		Refer to SW Boundary			
	03U004		---	1(A)	---	---
	03U027		---	1(A)	---	---
	03U028		---	1(A)	---	---
	03U029		---	1(A)	---	---
	03U030		---	1(A)	---	---
	03U078		Refer to SW Boundary			
	03U079		Refer to SW Boundary			
	03U301		1(A)	1(A)	1(A)	1(A)
	03U313		---	---	---	---
03U528		---	---	---	---	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
I (CONT.)	03U647		---	---	---	---
	03U648		---	---	---	---
	03U658		---	1(A)	---	---
	03U659		---	1(A)	---	---
	03U672		Refer to SW Boundary			
	03U674		---	---	---	---
	03U675		---	---	---	---
	03U676		---	---	---	---
	03U703		Refer to SW Boundary			
	03U710		Refer to SW Boundary			
	03M003		Refer to SW Boundary			
	03M004		---	---	---	---
	03M509		---	---	---	---
	03L003		Refer to SW Boundary			
	03L004		---	---	---	---
	03L027		---	---	---	---
	03L028		---	---	---	---
	03L029		---	---	---	---
	03L078		Refer to SW Boundary			
	03L079		Refer to SW Boundary			
	03L080		---	1(A)	---	---
	03F302		Refer to SW Boundary			
	03F303		Refer to SW Boundary			
	03F312		Refer to SW Boundary			
	04U003		Refer to SW Boundary			
	04U027		---	1(A)	---	---
	PJ#003		Refer to SW Boundary			
	PJ#027		---	---	---	---

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
J	01U003		---	---	---	---
	01U050		---	---	---	---
	01U051		---	---	---	---
	01U053		---	---	---	---
	01U054		---	---	---	---
	01U062		---	---	---	---
	01U524		---	---	---	---
	01U525		---	---	---	---
	01U526		---	1	---	---
	01U527		---	---	---	---
K	01U047		---	---	---	---
	01U048		---	---	---	---
	01U052		---	---	---	---
	01U065		---	---	---	---
	01U128		---	---	---	---
	01U601		---	---	---	---
	01U602		---	---	---	---
	01U603		---	---	---	---
	01U604		---	1(A)	---	---
	01U605		---	---	---	---
	01U607		---	---	---	---
	01U608		---	---	---	---
	01U609		---	---	---	---
	01U610		---	---	---	---
	01U611		---	1(A)	---	---
	01U612		---	---	---	---
	01U613		---	---	---	---
	01U615		---	1(A)	---	---
	01U616		---	---	---	---
	01U617		---	1(A)	1(A)	1(A)
	01U618		---	1(A)	---	---
	01U619		---	1(A)	---	---
	01U620		---	---	---	---
01U621		---	1(A)	1(A)	1(A)	
01U622		---	---	---	---	
01U623		---	---	---	---	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)				
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91	
K (CONT.)	01U624		---	---	---	---	
	01U625		---	---	---	---	
	01U626		---	---	---	---	
	01U627		---	---	---	---	
	01U628		---	---	---	---	
	03U013		---	---	---	---	
	03U075		---	1(A)	---	---	
	03U076		---	---	---	---	
	03M013		---	---	---	---	
	03L013		---	---	---	---	
	129-3	03U087		---	1,4	---	---
		03U521		---	---	---	---
	129-5	01U072		---	---	---	---
03U097			---	1	---	---	
03U111			---	---	---	---	
03U129			---	---	---	---	
129-15	03U016		---	1,7	---	---	
	03U032		---	1,7	1,7	1,7	
	03U090		---	1,7	---	---	
	03U124		---	1,7	1,7	1,7	
	03L091		---	1,7	---	---	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
SOUTHWEST BOUNDARY	01U050		Refer to Site J			
	01U051		Refer to Site J			
	01U053		---	---	---	---
	01U062		---	---	---	---
	01U130		---	---	---	---
	01U527		Refer to Site J			
	01U803		---	---	---	---
	01U805		---	---	---	---
	01U806		---	---	---	---
	01U807		---	---	---	---
(Hillside) (Formation)	234357	Phillips Pet.	---	---	---	---
	03U001		---	---	---	---
	03U002		---	---	---	---
	03U003		---	1(A)	1(A)	1(A)
	03U021		---	1(A)	---	---
	03U077		---	1(A)	---	---
	03U078		---	1(A)	---	---
	03U079		---	1(A)	---	---
	03U084		---	1(A)	---	---
	03U671		---	1(A)	---	---
	03U672		---	1(A)	1(A)	1(A)
	03U673		---	1(A)	---	---
	03U701		---	1(A)	---	---
	03U702		---	1(A)	---	---
	03U703		---	1(A)	---	---
	03U708		---	1(A)	---	---
	03U709		---	1(A)	---	---
	03U710		---	1(A)	---	---
	03U711		---	1(A)	1(A)	1(A)
	03U801		---	1(A)	---	---
	03U803		---	---	---	---
	03U804		---	1(A)	---	---
	03U805		---	1(A)	---	---
	03U806		---	1(A)	---	---

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)				
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91	
SOUTHWEST BOUNDARY (CONT.)	03M001		---	---	---	---	
	03M002		---	---	---	---	
	03M003		---	---	---	---	
	03M713		---	---	---	---	
	03M802		---	1(A)	---	---	
	03M806		---	1(A)	---	---	
	03L001		---	1(A)	1(A)	1(A)	
	03L002		---	1(A)	---	---	
	03L003		---	---	---	---	
	03L021		---	1(A)	---	---	
	03L077		---	1(A)	---	---	
	03L078		---	1(A)	---	---	
	03L079		---	1(A)	---	---	
	03L084		---	1(A)	---	---	
	03L673		---	1(A)	---	---	
	03L802		---	1(A)	1(A)	1(A)	
	03L806		---	1(A)	1(A)	1(A)	
	03F302			1(A)	1(A)	1(A)	1(A)
	03F303			1(A)	1(A)	1(A)	1(A)
	03F304			1(A)	1(A)	1(A)	1(A)
03F305			1(A)	1(A)	1(A)	1(A)	
03F306			1(A)	1(A)	1(A)	1(A)	
03F307			1(A)	1(A)	1(A)	1(A)	
03F308			1(A)	1(A)	1(A)	1(A)	
03F312			1(A)	1(A)	1(A)	1(A)	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)				
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91	
SOUTHWEST BOUNDARY (CONT.)	04U001		---	1(A)	1(A)	1(A)	
	04U002		---	1(A)	---	---	
	04U003		---	1(A)	1(A)	1(A)	
	04U077		---	1(A)	---	---	
	04U673		---	1(A)	---	---	
	04U701		---	1(A)	---	---	
	04U702		---	1(A)	---	---	
	04U708		---	1(A)	---	---	
	04U709		---	1(A)	---	---	
	04U711		---	1(A)	1(A)	1(A)	
	04U713		---	1(A)	---	---	
	04U714		---	1(A)	1(A)	1(A)	
	04U802		---	1(A)	---	---	
	04U806		---	1(A)	1(A)	1(A)	
	234319	Hide & Tallow #1	Refer to Off-Post				
		04J077		---	1(A)	---	---
		04J702		---	1(A)	---	---
	04J708		---	1(A)	---	---	
	04J713		---	1(A)	---	---	
	04J714		---	1(A)	1(A)	1(A)	
	PJ#003		---	1(A)	---	---	
	PJ#309		1(A)	1(A)	1(A)	1(A)	
	PJ#310		1(A)	1(A)	1(A)	1(A)	
	PJ#311		1(A)	1(A)	1(A)	1(A)	
	PJ#313		1(A)	1(A)	1(A)	1(A)	
	PJ#802		---	---	---	---	
	PJ#806		---	1(A)	---	---	
GRAVEL PIT	03U704		---	1(A)	---	---	
	03U705		---	1(A)	1(A)	1(A)	
	03U706		---	1(A)	---	---	
	03U707		---	1(A)	---	---	
	03L523		---	1	---	---	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
BEDROCK VALLEY	03U005		---	1	---	---
	03M005		---	1	---	---
	03L005		---	1	---	---
	03L081		---	1	---	---
	03L137		---	1	---	---
	03L138		---	1	---	---
MISC. WELLS	01U012		---	---	---	---
	01U044		---	---	---	---
	01U130		---	---	---	---
	01U675		---	---	---	---
	03U006		---	---	---	---
	03U007		---	1	---	---
	03U008		---	---	---	---
	03U009		---	1	---	---
	03U010		---	---	---	---
	03U012		---	---	---	---
	03U031		---	1(A)	---	---
	03M007		---	---	---	---
	03M010		---	---	---	---
	03M012		---	---	---	---
	03L007		---	1	---	---
	03L010		---	---	---	---
	03L012		---	---	---	---
	03L086		---	---	---	---
	04U007		---	1	---	---
	04U012		---	---	---	---
04U510		---	1	---	---	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
MISC. WELLS (CONT.)	PJ#501		---	---	---	---
	PJ#502		---	---	---	---
	PJ#503		---	---	---	---
	PJ#504		---	---	---	---
	PJ#506		---	---	---	---
	PJ#507		---	---	---	---
	PJ#508		---	---	---	---
	PJ#509		---	---	---	---
	OFF-POST (Glacial) (Till)	01U803				
01U807						
01L811			---	---	---	---
01L813			---	---	---	---
01L816			---	---	---	---
01L821			---	---	---	---
01L822			---	---	---	---
01L823			---	---	---	---
01U901			Refer to Site A			
01U902			Refer to Site A			
(Hillside) (Formation)	234353	Lentsch Ice	---	---	---	---
	234356	Nordquist P43	---	---	---	---
	234357	Phillips Pet.	---	---	---	---
	234425	Lee	---	---	---	---
	234430	Cmiel	---	---	---	---
	234463		---	---	---	---

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
(Upper) (Hillside) (Formation)	OFF-POST (CONT.)		Refer to SW Boundary Area			
		03U672	Refer to SW Boundary Area			
		03U673	Refer to SW Boundary Area			
		03U711	Refer to SW Boundary Area			
		03U801	Refer to SW Boundary Area			
		03U802	Refer to SW Boundary Area			
		03U803	Refer to SW Boundary Area			
		03U804	Refer to SW Boundary Area			
		03U805	Refer to SW Boundary Area			
		03U806	Refer to SW Boundary Area			
		03U811		1		
		03U821		1		
		03U822		1,7		
		03U824		1		
	03U831		1			
	03U832		1			
	409550	PCA6U3		1		
	409595					
	409596	BS118U3		1		
	409598					
(Middle) (Hillside) (Formation)	03M806		Refer to SW Boundary Area			
	03M843			1,7	1,7	
	03M848			1,7	1,7	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
OFF-POST (CONT.) (Lower) (Hillside) (Formation)	03L673		Refer to SW Boundary Area			
	03L802		Refer to SW Boundary Area			
	03L806		Refer to SW Boundary Area			
	03L809		---	1	---	---
	03L811		---	1	---	---
	03L813		---	---	---	---
	03L822		---	1	---	---
	03L832		---	1	---	---
	03L841		---	1	---	---
	03L846		---	1	---	---
	03L848		---	1	---	---
	03L853		---	1	---	---
	03L854		---	1	---	---
	03L856		---	1	---	---
	03L858		---	1	---	---
	03L859		---	1	---	---
	03L860		---	1	---	---
	03L861		---	1,7	---	---
	409546	PCA2L3	---	1,7	---	---
	409556	PCA4L3	---	1	---	---
409557	PCA1L3	---	1	---	---	
409597	BS118L3	---	1	---	---	
(St.) (Peter) (Formation)	200814	Amer. Linen	---	---	---	---
(Prairie) (du Chien) (Formation)	04U322	508115	---	1	---	---
	04U414	500691	---	1	---	---
	04U673		Refer to SW Boundary Area			
	04U711		Refer to SW Boundary Area			
	04U802		Refer to SW Boundary Area			
	04U806		Refer to SW Boundary Area			
	04U821		---	1	1	1
	04U832		---	1	---	---
	04U841		---	1	---	---
	04U843		---	1	---	---
	04U844		---	1	---	---
	04U845		---	1	---	---
	04U846		---	1	---	---
04U847		---	1	1	1	

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
OFF-POST	04U848		---	1	---	---
(CONT.)	04U849		---	1	---	---
	04U850		---	1	---	---
	04U851		---	1	---	---
	04U852		---	1	---	---
	04U854		---	---	---	---
	04U855		---	1	---	---
	04U859		---	1	---	---
	04U860		---	1	---	---
	04U861		---	1	---	---
	04U871		---	1,7	---	---
	04U872		---	1,7	---	---
	04U875		---	1,7	---	---
	04U877		---	1	---	---
	04U879		---	1,7	---	---
	04U880		---	1	---	---
	04U881		---	1,7	---	---
	04U882		---	1,7	---	---
	04U883		---	1,7	---	---
	139035	Watergate Marina	---	---	---	---
	191942	Model Stone	---	---	---	---
	200154	UM Golf Course	---	---	---	---
	200524	St. Anthony #5	---	---	---	---
	200803	St. Anthony #4	---	---	---	---
	200804	St. Anthony #3	---	---	---	---
	200812	Gross Golf	---	1,7	1,7	1,7
	206787	MV High School	---	1,7	---	---
	206791	New Brighton #7	---	1	---	---
	206793	New Brighton #3	---	1	---	---
	206797	New Brighton #6	---	1	---	---
	233221	Reuben Meats	---	1	---	---
	233533	Roselawn Cem.	---	---	---	---
	234319	Hide & Tallow #1	---	---	---	---
	234337		---	---	---	---
	234547	Hnywell Ridgway	---	1	---	---
	236122	NWRU4	---	1	---	---
	409547	PCA1U4	---	1	---	---
	409548	PCA2U4	---	1,7	---	---
	409549	PCA3U4	---	1	1	1
	409555	PCA5U4	---	---	---	---

FISCAL YEAR 1991 GROUNDWATER QUALITY MONITORING PLAN

Site	Well I.D.	Common Name	Frequency and Parameters (1)			
			Q29 12/90	Q30 3/91	Q31 6/91	Q32 9/91
OFF-POST (CONT.)						---
(Prairie)	PJ#318		---	1	---	
(du Chien)	PJ#802		Refer to SW Boundary Area			
(/Jordan)	PJ#806		Refer to SW Boundary Area			
(Formation)	200148	Paper Calmerson	---	---	---	
(Jordan)	201082	NW Hospital	---	---	---	---
(Formation)						
(Unknown)	134318	Seutter	---	---	---	---
(Formation)	200264		---	---	---	---
	206688	Cloverpond	---	---	---	---
	233222	Lowry Gr. Trail.	---	---	---	---
	234335	Mengelkoch #1	---	---	---	---
	234546	Hnywell Ridgway	---	1	---	---
	235539		---	---	---	---
	235735	Flour City Arch	---	---	---	---
	405651	Metal-Matic	---	1	---	---
	BOYLE		---	---	---	---

NOTES:

- (1) The numbers represent analytical parameter categories. The individual parameters within each category are outlined in Appendix B.
 - (2) Well being sampled monthly as part of Site A Interim Remedial Action.
 - (3) The following metals; Arsenic, Barium, Cadmium, Chromium, and Nickel are being sampled for and not the entire Category 2 parameter list.
 - (4) Just Total Phosphates from Catagory 4 will be analyzed.
- (A) Indicates that the sampling will be conducted by Alliant Technosystems, Inc.

**TWIN CITIES ARMY AMMUNITION PLANT (TCAAP)
SUMMARY OF MPCA STAFF SAMPLING EVENTS
OCTOBER 1990 THROUGH SEPTEMBER 1991
Updated March 24, 1992**

Date Sampled Well Lab. Number Parameters Split Sample? Validated?

Quarter 28 - October 1990

10-18-90	Trip Blank	9023899	VOCs	no	no
10-18-90	Gross Golf	9023900	VOCs	no	no
10-29-90	Trip Blank	9024673	VOCs	no	no
10-29-90	R. Nordquist	9024674	VOCs	no	no

Quarter 29 - December 1990

12-05-90	SAM4	9027401	VOCs	no	no
12-05-90	SAM5	9027402	VOCs	no	no
12-05-90	Trip Blank	9027403	VOCs	no	no
12-19-90	Trip Blank	9028361	VOCs	no	no
12-19-90	SC-1	9028362	VOCs	yes	no
12-19-90	SC-2	9028363	VOCs	yes	no

Off-Site A Samples - January 22, 1991

01-22-91	Trip Blank	9101132	VOCs	no	yes
01-22-91	Allen	9101133	VOCs	yes	yes
01-22-91	Gamradt	9101134	VOCs	yes	yes
01-22-91	Martin	9101135	VOCs	no	yes

Quarter 30 - March and April 1991

03-05-91	Trip Blank	9104198	VOCs	no	yes
03-05-91	01U617	9104199	VOCs	yes	yes
03-11-91	Trip Blank	9104769	VOCs	no	yes
03-11-91	PD3L3	9104770	VOCs	yes	yes
03-11-91	PD3U3	9104771	VOCs	yes	yes
03-11-91	PD3U4	9104772	VOCs	yes	yes
03-11-91	T6U3	9104773	VOCs	yes	yes
03-12-91	T4U3	9104774	VOCs	yes	yes
03-12-91	03U028	9104775	VOCs	yes	yes
03-12-91	03U659	9104776	VOCs	yes	yes
03-19-91	Trip Blank	9105302	VOCs	no	yes
03-19-91	01U902	9105303	VOCs	yes	yes
03-19-91	01U108	9105304	VOCs	yes	yes
03-19-91	01U115	9105305	VOCs	yes	yes
03-19-91	01U108	9105306	diss. metals	no	yes
03-19-91	01U115	9105307	diss. metals	no	yes
03-22-91	Trip Blank	9105591	VOCs	no	yes
03-22-91	01U639	9105592	VOCs	yes	yes
03-25-91	Trip Blank	9105656	VOCs	no	yes
03-25-91	NB #6	9105657	VOCs	yes	yes
03-25-91	03U124	9105658	VOCs	yes	yes
03-25-91	03U016	9105659	VOCs	yes	yes
04-25-91	Trip Blank	9108059	VOCs	no	no
04-25-91	SAM4	9108060	VOCs	no	no
04-25-91	SAM5	9108061	VOCs	no	no
04-25-91	SA Treat. Plant Effl.	9108062	VOCs	no	no

Quarter 31 - June 1991

06-04-91	Trip Blank	9111988	VOCs	no	yes
06-04-91	Blg. 103 Effl.	9111989	VOCs	yes	yes
06-04-91	Blg. 103 Infl.	9111990	VOCs	yes	yes
06-04-91	Blg. 116 Infl.	9111991	VOCs	yes	yes
06-04-91	Blg. 116 Effl.	9111992	VOCs	yes	yes
06-04-91	Blg. 116 Effl.	9111997	total metals	yes	yes
06-04-91	Blg. 116 Infl.	9111998	total metals	no	yes
06-04-91	Blg. 103 Infl.	9111999	diss. metals	no	yes
06-04-91	Blg. 103 Effl.	9112000	diss. metals	no	yes
06-04-91	SC5	9112003	diss. metals	no	yes
06-05-91	03U705	9112004	diss. metals	no	yes
06-04-91	SC1	9111993	VOCs	yes	yes
06-04-91	SC5	9111994	VOCs	yes	yes
06-04-91	SC4	9111995	VOCs	yes	yes
06-05-91	03U705	9111996	VOCs	yes	yes
06-05-91	Trip Blank	9111806	VOCs	no	yes
06-05-91	01U102	9111807	VOCs	yes	yes
06-05-91	01U115	9111808	VOCs	yes	yes
06-05-91	01U102	9111809	Diss. Pb, Sb	no	yes
06-05-91	01U115	9111810	Diss. Pb, Sb	no	yes
06-11-91	Trip Blank	9112902	VOCs	no	yes
06-11-91	01U901	9112903	VOCs	no	yes
06-11-91	01U117	9112904	VOCs	no	yes
06-11-91	01U117	9112905	Diss. Pb, Sb	no	yes
06-17-91	Trip Blank	9113553	VOCs	no	yes
06-17-91	PD3U4	9113554	VOCs	no	yes
06-17-91	PD3U3	9113555	VOCs	no	yes
06-17-91	PD3L3	9113556	VOCs	no	yes
06-20-91	T6U3	9113557	VOCs	no	yes
06-17-91	PD3U4	9113549	Diss. Pb, Sb	no	yes
06-17-91	PD3U3	9113550	Diss. Pb, Sb	no	yes
06-17-91	PD3L3	9113551	Diss. Pb, Sb	no	yes
06-20-91	T6U3	9113552	Diss. Pb, Sb	no	yes
06-21-91	Trip Blank	9113805	VOCs	no	yes
06-21-91	J. Winieki	9113799	VOCs	no	yes
06-21-91	L. Grudnoske	9113800	VOCs	no	yes
06-21-91	J. Grudnoske	9113801	VOCs	no	yes
06-21-91	Peck	9113802	VOCs	no	yes
06-21-91	Beaulieu	9113803	VOCs	no	yes
06-21-91	G. Winiecki	9113804	VOCs	no	yes

Other Sampling

07-25-91	Trip Blank	9118865	VOCs	no	yes
07-25-91	Gross Golf	9118866	VOCs	no	yes
08-07-91	SC4	9118227	Diss. Pb, Sb	no	yes
08-07-91	SC1	9118228	Diss. Pb, Sb, Co	no	yes

Site A Special Sampling Event - July 29 and 30, 1991

07-29-91	Trip Blank	9117370	VOCs	no	yes
07-29-91	01U140	9117371	VOCs	yes	yes
07-29-91	01U139	9117372	VOCs	yes	yes
07-29-91	01U138	9117373	VOCs	yes	yes
07-29-91	01U141	9117374	VOCs	yes	yes
07-30-91	01U039	9117375	VOCs	yes	yes
07-29-91	01U137	9117388	VOCs	yes	yes
07-30-91	01U102	9117389	VOCs	yes	yes
07-30-91	01U102	9117376	Diss. Metals	no	yes
08-01-91	Trip Blank	9117843	VOCs	no	yes

Sampling Conducted in Response to ATSDR Concerns

08-16-91	Trip Blank	9119430	VOCs	no	yes
08-16-91	Markely	9119431	VOCs	no	yes
08-16-91	Fudro	9119432	VOCs	no	yes

Quarter 32 - September 1991

09-05-91	Trip Blank	9120947	VOCs	no	yes
09-05-91	T6U4	9120948	VOCs	yes	yes
09-05-91	T6U4	91-1800-01	VOCs - Braun	yes	yes
09-05-91	T6U4Dup. (T32U4)	91-1800-02	VOCs - Braun	yes	yes
09-05-91	Trip Blank	91-1800-03	VOCs - Braun	yes	yes
09-10-91	Lee (234425)	D R Y			
09-12-91	Trip Blank	9121754	VOCs	no	yes
09-12-91	MPCA6	9121755	VOCs	no	yes
09-16-91	Trip Blank	9122150	VOCs	no	yes
09-17-91	PJ802	9122147	VOCs	no	yes
09-17-91	03U801	9122148	VOCs	no	yes
09-17-91	03U801	91-1903-01	VOCs - Braun	no	yes
09-17-91	Trip Blank	91-1903-02	VOCs - Braun	no	yes
09-18-91	03U803	9122149	VOCs	no	yes
09-16-91	SAM4	9122151	VOCs	no	yes
09-16-91	SAM5	9122152	VOCs	no	yes
09-16-91	04U872	9122153	VOCs	no	yes
09-16-91	04U882	9122154	VOCs	no	yes
09-17-91	04U883	obstruction in well - could not be sampled.			

Appendix E

Groundwater Monitoring Chemical Analysis Categories

USATHAMA CHEMICAL ANALYSIS CATEGORIES

CATEGORY 1

Carbon Tetrachloride	CCL4
Chloroform	CHCL3
Methylene Chloride	CH2CL2
Vinyl Chloride	C2H3CL
Tetrachloroethylene	TCLEE
Trichloroethylene	TRCLE
1,1-Dichloroethylene	11DCE
1,1-Dichloroethane	11DCLE
1,1,1-Trichloroethane	111TCE
1,1,2-Trichloroethane	112TCE
1,1,2-Trichlorotrifluoroethane	TCLTFE
1,2-Dichloroethylene	12DCE
1,2-Dichloroethane	12DCLE
1,2-Dichloropropane	12DCLP

CATEGORY 2

Antimony	SB
Arsenic	AS
Barium	BA
Beryllium	BE
Cadmium	CD
Chromium	CR
Copper	CU
Lead	PB
Manganese	MN
Nickel	NI
Selenium	SE
Silver	AG
Thallium	TL

CATEGORY 3

Mercury	HG
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CATEGORY 4

Cyanide	CYN
Nitrate/Nitrite	NIT
Orthophosphate	PO4ORT
Total Phosphates	TPO4

USATHAMA CHEMICAL ANALYSIS CATEGORIES
(continued)

CATEGORY 5

Dibutylchloronadate	DBUCLE
PCB1016	PCB016
PCB1242	PCB242
PCB1248	PCB248
PCB1254	PCB254
PCB1260	PCB260

CATEGORY 6

Nitrobenzene	NBD5
Phenol-D6	PHEND6
Terphenyl-D14	TRPD14
Toluene	MEC6D8
2-Fluorobiphenyl	2FBP
2-Fluorophenol	2FP
1,2-Dichloroethane-D4	12DCD4
4-Bromofluorobenzene	4BFB
2,4,6-Tribromophenol	246TBP

CATEGORY 7

Benzene	C6H6
Toluene	MEC6H5
Total Xylenes	TXYLEN

CATEGORY 8

Radionuclides

CATEGORY 9

Zinc	Zn
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CATEGORY 10

Miscellaneous, Non-Specific

Appendix F

TGRS Hydraulic Data

Appendix F.1

Groundwater Elevation Database

TCAAP TGRS GROUNDWATER ELEVATIONS (Ft. AMSL)

WELL I.D.	TOC ELEVATION	04/02/87	09/08/87	11/17/87	11/24/87	11/30/87	12/14/87	01/11/88	05/02/88	05/20/88	06/23/88	07/27/88	09/01/88	09/21/88	10/14/88	12/02/88	01/13/89	03/31/89
03U001	891.29	852.11		849.79	849.40	849.79	849.51	849.81	849.55	848.91	846.33	845.25	844.91	845.01	845.55	846.50	846.64	844.18
03M001	890.84	852.71	849.48	849.85	849.44	849.84	849.55	849.96	849.60	848.98	846.52	845.59	845.14	845.07	845.62	846.59	846.70	844.11
03L001	891.48	852.80	849.53	849.81	849.43	849.82	849.52	849.78	849.63	848.98	846.53	845.33	844.97	845.11	845.63	846.56	846.72	843.79
04U001	891.36	852.12		849.66	849.29	849.66	849.36	849.63	849.46	848.81	846.36	845.20	844.84	844.96	845.46	846.44	846.57	843.67
03U002	919.95	855.68	852.61	851.40	851.00	851.06	850.82	851.26	851.59	850.90	850.28	848.97	847.57	847.26	847.19	848.65	849.65	845.43
03M002	922.45	855.34	852.55	850.72	850.40		850.40	850.71	850.99	850.48	849.51	848.40	847.94	847.64	847.09	848.72	848.17	844.63
03L002	922.27	855.30	852.50	850.66	850.32	850.74	850.35	850.67	850.96	850.40	849.44	848.36	847.90	847.61	847.02	848.68	848.12	844.55
04U002	923.24	855.08	852.39	850.61	850.28	850.63	850.29	850.64	850.88	850.35	849.32	848.15	847.79	847.50	846.94	848.54	847.99	843.82
03U003	945.05			852.87	852.52	852.61	852.47	852.31	853.47	852.82	852.39	850.89	849.49	849.23	848.85	849.81	849.73	846.79
03M003	945.64	857.02	854.33	852.84	849.59		852.49	852.44	853.40	852.77	852.24	850.84	849.44	849.17	848.84	849.88	849.65	846.37
03L003	946.39	856.57	853.80	852.34	852.21	852.19	852.04	852.18	852.76	852.24	851.51	850.11	848.83	848.57	848.34	849.47	849.02	845.19
04U003	946.15	854.03	851.01	850.00	849.83	849.92	849.73	850.10	850.16	849.70	848.52	847.67	846.53	846.15	846.27	847.27	846.85	844.50
PJ#003	946.03						848.76		849.16	848.61	946.03	846.06	845.33	844.98	845.23	846.15	845.81	843.68
03U004	952.08	859.75	856.50	856.10	855.85	856.02	855.80	855.90	856.40	855.98	855.01	853.63	852.42	852.17	851.91	852.18	852.48	851.23
03M004	952.59	859.04	856.16	855.71	855.43	855.60	855.39	855.78	855.95	855.54	854.53	853.14	851.99	851.72	851.55	851.86	852.16	850.75
03L004	953.05	859.01	856.12	855.66	855.40	855.57	855.35	855.72	855.92	855.49	854.49	853.10	851.95	851.65	851.50	851.84	852.10	850.69
03U005	973.09	860.53				857.24	857.06	857.68	857.41	857.02	855.87	854.34	853.44	853.05	853.16	852.78	853.24	852.51
03M005	974.73								857.67	857.26	856.51	854.53	853.64	853.29	853.82	852.99	853.48	853.25
03L005	971.40	857.76				854.63	854.45		854.80	854.40	852.72	851.67	850.75	850.40	850.05	850.15	850.65	849.40
03U006	969.10	862.37	858.92		858.13	858.65	858.30	858.95	858.85	858.51	857.43	856.10	854.95	854.30	854.59	854.42	854.75	854.00
03U007	902.71	863.31	859.35		859.48	859.96	859.70	860.21	859.76	859.41	857.03	855.53	855.15	854.86	855.27	855.75	856.03	855.51
03M007	903.85				859.41		859.65	860.14	859.69	859.35	857.00	855.50	855.11	854.82	855.22	855.70	855.98	855.45
03L007	904.52				859.11		859.36	859.81	859.31	859.03	856.63	855.20	854.97	854.52	854.90	855.50	855.72	855.13
04U007	905.59	862.47			858.79	859.33	858.99	859.38	858.86	858.69	856.39	854.99	854.75	854.29	854.59	855.17	855.39	854.74
03U008	917.36	867.30	862.85		863.66	864.14	864.04	864.61	863.57	862.93	858.46	856.72	857.76	858.11	858.95	859.91	860.20	860.90
03U009	915.27	868.44			865.61	865.99	865.92	866.38	864.92	864.45	859.10	857.49	859.52	859.92	860.85	861.88	861.96	862.80
03U010	891.00	868.57	869.24		865.55	865.87	865.85	866.27	864.95	864.48	859.15	857.65	859.48	859.95	860.88	861.75	861.84	862.95
03M010	891.46				865.51		865.81	866.23	864.91	864.46	859.11	857.63	859.49	859.96	860.90	861.74	861.85	862.92
03L010	891.52				865.36		865.62	866.03	864.67	864.21	858.87	857.42	859.27	859.72	860.67	861.51	861.60	862.72
03U011	903.05	865.80	861.73		862.95	863.20	863.36	863.62	862.84	862.41	858.34	856.70	857.53	857.77	858.33	858.85	859.15	860.84
03U012	882.93	862.34	858.38		859.68	859.64	859.99	859.90	860.22	859.38	858.90	854.77	853.60	854.39	854.67	855.35	855.89	856.28
03M012	882.82			859.76	859.62		859.87	860.24	859.35	858.87	854.74	853.57	854.37	854.64	855.32	855.86	856.27	856.57
03L012	882.74			859.72	859.59		859.86	860.11	859.32	858.84	854.72	853.54	854.36	854.61	855.30	855.75	856.26	856.53
04U012	882.85	862.19			859.63	859.49	859.84	859.74	860.07	859.22	858.74	854.63	853.45	854.25	854.51	855.20	855.74	856.14
03U013	893.13	855.63	852.19		852.83	852.52	852.88	852.70	852.97	852.53	852.00	849.15	847.98	848.01	847.98	848.45	849.08	849.68
03M013	892.51				852.76	852.44		852.63	852.89	852.45	851.92	849.06	847.89	847.91	847.90	848.38	849.01	849.61
03L013	892.72				852.00	852.60		852.45	851.95	852.27	851.77	848.88	847.75	847.77	847.73	848.22	848.88	849.50
03U014	990.29	860.27	857.01		856.69	856.57		856.79	856.85	857.03	855.48	855.74	854.24	853.07	852.74	852.46	852.70	852.79
03L014	991.60				856.96	856.89		857.03	857.06	857.15	857.99	855.47	853.99	852.98	852.80	852.64	852.91	852.99
03U015	937.62	859.90	856.52		856.81	856.72		856.85	856.96	857.12	857.06	856.63	854.78	853.40	852.62	852.39	852.47	852.67

TCAAP TGRS GROUNDWATER ELEVATIONS (F. AMSL)

WELL I.D.	TOC ELEVATION	04/02/87	09/08/87	11/17/87	11/24/87	11/30/87	12/14/87	01/11/88	05/02/88	05/20/88	06/23/88	07/27/88	09/01/88	09/21/88	10/14/88	12/02/88	01/13/89	03/31/89
03U016	950.14	862.22			859.04	859.11	859.29	859.44	859.28	858.99	857.23	855.43	854.79	854.73	854.66	854.87	855.06	855.44
03U017	941.42	857.87	854.75	854.33	854.06		854.38	854.38	854.55	854.06	852.82	851.32	850.25	850.23	850.04	850.75	851.04	849.17
03M017	942.01	857.69	854.72	854.30	854.01			854.32	854.49	854.00	852.75	851.30	850.21	850.19	850.01	850.70	851.01	849.11
03L017	942.19	857.74	854.75	854.32	853.95		854.36		854.54	854.03	852.79	851.24	850.24	850.21	850.04	850.74	851.00	849.19
03U018	991.62	859.96	856.66		856.48	856.54	856.67	856.77	856.90	856.53	855.34	853.81	852.67	852.53	852.35	852.60	852.82	851.98
03L018	991.49	859.68	856.54		856.36	856.42	856.52	856.67	856.77	856.38	855.10	853.59	852.57	852.39	852.21	852.52	852.74	851.82
03U019	946.66	861.00			857.70	857.80	857.81	858.06	858.06	857.76	856.67	855.09	854.02	853.74	853.53	853.66	853.95	853.56
03U020	955.73	858.30	854.82	854.60	854.47	854.47	854.37	854.67	854.98	854.45	853.51	851.98	850.78	850.66	850.37	851.05	850.86	849.38
03M020	956.97	858.04	855.01	854.50	854.37	854.39	854.27	854.50	854.82	854.32	853.33	851.85	850.67	850.55	850.30	850.92	851.02	849.21
03L020	956.78	858.06	855.01	854.52	854.40	854.39	854.28	854.53	854.85	854.36	853.36	851.88	850.73	850.57	850.32	850.98	851.08	849.32
04U020	957.81	857.67	854.44	854.08	853.95	853.95	853.89	853.51	854.28	853.77	851.92	852.06	850.11	850.01	849.86	850.56	850.65	848.86
03U021	947.39	856.91				853.05	852.64		853.27	947.39	947.39	947.39				947.39	849.78	847.34
03L021	946.83				852.52		852.36	852.58	852.88	852.32	851.43	850.01	849.12	848.93	848.46	849.72	849.50	846.88
03U022	902.00	863.10	859.10		860.31	860.55	860.66	860.88	860.36	860.00	856.68	855.17	855.38	855.46	855.84	856.09	856.35	857.55
03U023	901.60	862.97	858.90		860.13	860.44	860.44	860.71	860.00	859.58	856.80	854.50	855.05	855.21	855.76	856.15	856.37	857.22
03U024	897.10	861.82	857.91		859.05	859.28	859.36	859.60	859.13	858.78	855.78	854.36	854.40	854.42	854.72	854.88	855.15	855.95
03U025	889.19	860.13		857.43	857.28	858.55	857.55	857.74	857.34	856.96	854.03	852.68	852.72	852.63	853.02	853.36	853.84	853.67
03U026	977.86				857.14	857.22	857.34	857.47	857.55	857.22	854.11	854.51	853.47	853.20	853.00	853.16	853.31	852.91
03U027	968.81	858.59	855.42	854.84	854.69	854.78	854.70	855.01	855.21	854.71	853.83	852.32	851.13	850.91	850.61	851.26	851.51	849.72
03L027	969.45		855.34	854.77	854.62	854.71	854.62	854.83	855.13	854.63	853.73	852.25	851.06	850.83	850.54	851.20	851.46	849.64
04U027	969.52	856.99	854.16	853.55	853.42	853.51	853.42		853.76	853.27	852.12	850.72	849.79	849.47	849.34	850.17	850.42	848.22
PJ#027	970.05		854.07	853.47	853.30	853.35	853.30	853.16	853.66	853.15	852.00	850.60	849.71	849.38	849.28	850.10	850.34	848.18
03U028	959.78	858.04	855.10	854.28		854.20	854.08	854.31	854.68	854.20	853.39	851.88	850.63	850.41	850.14	850.60	850.88	848.94
03L028	958.95	858.00	855.05	854.20		854.13	854.05	854.31	854.60	854.11	853.25	851.15	850.57	850.33	850.10	850.57	850.84	848.88
03U029	957.30	857.63	854.10	853.76		853.61	852.53	852.73	854.25	853.72	853.13	851.56	849.82	849.98	848.65	850.10	850.45	847.16
03L029	957.01	857.64				853.40	853.41	853.73	853.88	853.41	852.66	851.14	849.92	849.76	849.46	850.11	850.16	847.74
03U030	961.44	859.10		855.46		855.42	855.36	855.54	855.80	855.40	854.40	852.94	851.79	851.54	851.34	851.49	851.87	850.49
03U031	901.90	858.79	855.89	855.92	855.73	855.88	855.84	856.00	855.62	855.60	853.80	852.50	851.52	851.45	851.62	851.75	852.30	851.10
03U032	1006.55	860.91	857.48		857.77	857.83	857.98	858.19	858.07	857.75	856.11	854.52	853.68	853.57	853.44	853.63	853.80	853.88
PJ#074	956.46						854.08		854.40	853.90	852.59	851.13	849.35	850.04	849.13	850.65	850.76	848.99
03U075	887.13	854.87	851.59	852.11		852.11	852.18	851.82	851.30	848.66	847.55	847.48	847.26	847.77	848.57	848.64	847.08	
03U076	891.51	853.56	850.28	850.78		850.74	850.87	850.47	849.89	847.29	846.21	846.15	845.89	846.46	847.37	847.40	845.51	
03U077	915.08	854.00	851.08	850.00	849.72	849.95	849.68	849.90	850.13	849.53	848.08	847.45	846.38	846.16	846.23	847.58	847.45	842.45
03L077	915.03	853.92	851.12	848.95	848.75	849.93	848.67	848.85	849.15	848.54	847.06	847.38	846.48	846.23	845.63	847.60	847.39	843.88
04U077	914.72	854.30	851.36	849.36	849.08	849.24	846.92	849.27	849.38	848.78	847.52	847.51	846.52	845.43	845.84	847.74		914.72
04J077	914.78								914.78	914.78		914.78			847.33	847.77	847.40	840.20
03U078	929.94	856.78	853.80	850.24	849.72	849.86	849.83	850.39	851.30	850.31	850.47	848.24	847.54	846.92	846.54	849.28	848.04	844.54
03L078	930.26	855.86	852.93	850.55	850.26	850.41	850.20	850.69	850.88	850.34	849.60	848.23	848.15	847.88	847.01	848.91	847.96	844.63
03U079	926.07	856.75	853.80	849.79	849.87	849.79	849.57	850.07	850.59	849.87	849.86	847.69	847.24	847.44	845.97	849.33	847.12	843.72
03L079	926.37	856.42	853.47	850.61	851.30	850.57	850.37	850.72	851.03	850.47	849.81	848.31	847.30	848.12	846.75	849.22	847.42	844.42

TCAAP TGRS GROUNDWATER ELEVATIONS (R. AMSL)

WELL I.D.	TOC ELEVATION	04/02/87	09/08/87	11/17/87	11/24/87	11/30/87	12/14/87	01/11/88	05/02/88	05/20/88	06/23/88	07/27/88	09/01/88	09/21/88	10/14/88	12/02/88	01/13/89	03/31/89	
03L080	963.49		856.07			855.53	854.69	855.69	855.94	855.48	854.49	853.01	851.86	851.62	851.37	851.87	852.13	850.65	
03L081	949.00						857.35	857.66	857.63	857.29	855.91	854.44	853.50	853.20	853.14	853.38	853.69	853.00	
03U082	901.25	865.20	861.20		862.38	862.64	862.77	863.00	862.32	861.95	858.13	856.51	857.10	857.33	857.82	858.20	858.40	860.15	
03U083	893.40	859.54			856.58	856.79	856.85	856.95	856.69	856.40	853.92	852.42	852.13	852.00	852.24	852.40	853.00	852.65	
03U084	901.60	854.50	851.32	850.85	850.52	850.82	850.56	850.63	850.92	850.36	848.63	847.39	846.80	846.72	846.89	848.00	847.99	844.60	
03L084	900.65							850.63	850.05	848.33	846.95	846.46	846.37	846.54	847.63			844.10	
03U087	1006.98	861.02	857.54		858.02	858.12	858.30	858.48	858.33	857.98	856.13	854.53	871.82	853.72	853.63	853.79	853.98	854.30	
03U088	986.52						858.63	858.74	858.60	858.27	856.22	854.64	854.02	853.93	853.91	854.02	854.22	854.76	
03U089	975.42	861.05			858.25	858.36	858.56	859.25	858.52	858.20	856.17	854.61	853.97	853.87	853.87	853.98	854.22	854.67	
03U090	985.80						858.26	858.44	858.45	858.12	985.80	855.20	854.25	854.01	853.85	854.03	854.18	853.95	
03U092	946.90						840.35		840.58	840.30	839.36	837.75	836.63	836.34	836.05	836.30	836.53	835.68	
03U093	996.11	859.76			856.60	856.66	856.75	856.92	856.97	856.60	855.38	853.14	852.81	852.59	852.36	852.66	852.89	852.11	
03U094	999.63		857.12				856.99	857.05	857.21	856.88	855.88	854.36	853.23	852.91	852.64	852.83	852.93	852.33	
03U096	997.13	859.88			856.55	856.59	856.71	856.86	856.19	856.50	855.04	853.51	852.59	852.48	852.32	852.65	852.92	852.17	
03U111	929.00	865.42			862.84	863.02	863.34	863.50	863.02	862.81	860.17	858.09	858.01	858.25	858.43	858.74	859.05	860.93	
03U112	980.70	860.85	857.51		857.45	857.53	857.65	857.79	857.83	857.53	856.39	854.75	853.45	853.30	853.40	853.56	853.35		
03U113	980.00	864.14					861.26		861.39	861.10	980.00	858.00	857.15	856.94	856.82	856.93	857.10	857.10	
03L113	980.00								860.96	860.65		980.00	856.68	856.50		980.00	856.70	856.70	
03U301(SC1)	957.41								854.17	889.76	853.16	851.46	849.79	849.91	833.28	850.09	850.36	830.51	
03F302(B1)	929.92	867.76	853.65		850.58	844.76	844.44	844.59	844.79	844.26	843.67	842.46	840.07	847.77	840.72	849.22	839.87	848.68	
03F303(B2)	925.12	859.88	853.54		829.80	829.82	830.82		831.26	829.66	836.37	825.63	847.67	847.22	828.03	849.02	828.33	827.57	
03F304(B3)	920.15	859.12	852.38		848.51	849.82	848.62	848.84	849.07	848.50	847.69	846.52	847.65	847.47	846.68	848.46	847.71	842.65	
03F305(B4)	915.74	850.13	852.05		844.49	844.81	844.74	844.87	844.74	915.74	848.79	847.77	847.32	847.15	840.97	848.19	841.68	837.54	
03F306(B5)	919.20							841.94	841.15	839.32	847.60	848.52	838.25			919.20		919.20	
03F307(B6)	915.64	842.13	850.73		823.74	824.09	823.29	823.47	824.41	823.22	824.61	847.05		822.20		915.64	847.14	836.09	
03F308(B7)	902.01							902.01	902.01			902.01					846.14	847.14	836.09
PJ#309(B8)	914.53							914.53	914.53			914.53				854.81	847.73	840.23	
PJ#310(B9)	916.00							916.00	916.00			916.00				845.39	847.50	838.30	
PJ#311(B10)	907.55							907.55	907.55			907.55						840.84	
03F312(B11)	944.77							944.77	944.77			944.77						838.03	
PJ#313(B12)	894.53							894.53	894.53			894.53				847.47	845.73	838.58	
03U314(SC2)	978.21							978.21	978.21			978.21				852.38		842.73	
03U315(SC3)	965.31							965.31	965.31			965.31				852.33	852.51	845.22	
03U316(SC4)	957.10							957.10	957.10			957.10				851.61	851.78	835.23	
03U317(SC5)	952.66							952.66	952.66			952.66				851.58	851.80	845.62	
04U510	911.19							864.18	863.71	911.19	857.04	858.89	859.39	859.95	860.97	861.08	862.05		
OW543U3	959.37							855.16	854.69	853.93	852.35	851.07	850.96	850.54	850.87	851.26	849.47		
03U647	962.25		855.63			854.90		855.40	854.99	854.10	852.58	851.39	851.14	850.89	851.04	851.45	849.78		
03U648	962.89		855.59			854.04	855.04	855.35	854.95	854.06	852.51	851.34	851.09	850.85	851.05	851.44	849.94		
03U658	966.02		856.10			855.55	855.74	855.91	855.57	854.54	853.11	851.96	851.70	851.46	851.82	852.10	850.80		

TCAAP TGRS GROUNDWATER ELEVATIONS (R. AMSL)

WELL I.D.	TOC ELEVATION	04/02/87	09/08/87	11/17/87	11/24/87	11/30/87	12/14/87	01/11/88	05/02/88	05/20/88	06/23/88	07/27/88	09/01/88	09/21/88	10/14/88	12/02/88	01/13/89	03/31/89	
03U659	958.58		854.96				853.81	853.98	854.60	854.12	853.50	851.88	850.48	850.47	849.85	850.38	850.74	848.53	
03U671	933.24	856.80	853.76		851.59	851.67	851.66	851.93	852.71	851.83	851.52	850.01	848.48	848.15	847.92	849.19	849.27	846.29	
03U674	957.43						852.85		854.38	853.68	853.38	851.65	849.98	850.19	849.07	850.26	850.57	847.53	
03U701	911.24	853.66	850.34	849.20	849.32	849.56	849.32	849.73	849.71	849.10	847.39	846.64	845.71	845.54	845.63	846.70	846.97	843.54	
04U701	911.34	853.69	850.59	848.92	849.05	849.27	849.02	849.43	849.42	848.80	847.07	846.79	845.89	845.31	845.65	847.00	847.09	843.02	
03U702	910.68	853.08	849.86	848.83	848.98	849.27	848.98	849.43	849.34	848.70	846.91	846.12	845.23	845.19	845.24	846.31	846.58	843.18	
04U702	910.52	853.82	850.60	849.07	849.23	849.46	849.22	849.71	849.57	848.91	847.17	846.81	845.74	845.40	845.62	846.91	847.12	842.85	
04J702	910.65								910.65	910.65		910.65				847.00	847.18	842.55	
03U703	921.37	856.75	853.81	849.08	849.32	849.43	849.60	849.87	850.80	849.71	849.78	847.47	847.52	847.12	845.93	849.30	847.20	843.83	
03U704	978.64	861.73	857.96		859.26	859.36	859.62	859.82	859.50	859.19	856.78	855.24	854.76	854.70	854.74	854.59	854.94	846.99	
03U705	1049.77	861.93	858.17		859.54	859.65	859.87	860.14	859.82	859.49	857.07	855.44	854.97	854.97	854.96	1049.77		1049.77	
03U706	920.78	861.99	858.26		859.38	859.55	859.72	859.93	859.52	859.23	856.43	854.97	854.76	854.71	854.92	854.84	855.18	856.33	
03U707	918.51	862.53	858.65		859.86	860.07	860.23	860.42	860.01	859.64	856.66	855.14	855.09	855.11	855.40	855.53	855.81	857.04	
03U708	922.04	856.33	853.34	851.54	851.08	851.15	850.91	851.39	852.12	851.25	850.96	849.57	847.98	847.59	847.46	848.97	848.89	845.69	
04U708	921.73	854.94	852.10	850.18	849.87	850.02	849.92	850.23	850.41	849.92	848.93	847.79	847.43	847.17	846.61	848.18	847.62	844.52	
04J708	922.11								922.11	922.11		922.11						843.81	
03U709	912.69	855.10	852.07	850.27	850.26	850.34	850.27	850.53	850.82	850.14	849.49	848.37	846.91	846.42	846.62	848.19	848.09	844.59	
04U709	912.58	854.80	851.99	849.48	849.53	850.19	849.68	849.96	850.08	849.48	848.62	847.79	847.26	846.92	846.32	848.13	847.63	844.14	
03U710	946.84	856.87		851.34	851.49	851.59	851.39	851.82	852.52	851.77	851.62	849.93	848.54	848.33	847.90	849.46	848.99	845.65	
03U711	908.91		851.84		849.91	849.86	849.61	850.17	850.24	849.70	848.98	848.23	846.93	846.35	846.46	847.64	847.70	843.95	
04U711	908.82		850.77	849.10	849.09	849.10	848.87	849.84	849.29	848.73	847.47	847.72	843.27	845.31	845.67	847.01	846.77	842.87	
03M713	898.49								898.49	898.49		898.49				846.49	846.48	842.19	
04U713	897.80								897.80	897.80		897.80				848.41	848.42	844.15	
04J713	898.45								898.45	898.45		898.45				847.10	847.02	842.15	
04U714	894.00								894.00	894.00		894.00				839.87	846.79	843.21	
04J714	894.30								894.30	894.30		894.30				840.00	846.79	836.56	
03U715	963.73								963.73	963.73		963.73				852.30	852.50	851.13	
03U716	952.20								952.20	952.20		952.20				851.65	839.40	849.85	
S.G. #1	860.42			862.72			862.96		862.51	862.64	DRY	DRY	DRY	DRY	DRY	DRY	DRY	866.05	
S.G. #2	862.84			DRY			863.08		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
S.G. #3	865.29			DRY			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
OFF TCAAP																			
MPCA6	914.40	850.43		846.97	846.84	846.93	846.97	847.36	846.81	846.26	844.25	843.41	843.03	842.78	843.11	914.40	844.14	841.30	
03U672 (PD2U3)	923.80	857.48	854.82	853.70		853.55	853.70	853.22	854.13	853.63	853.03	851.60	850.26	851.12	849.67	849.90	850.31	847.93	
03U673 (PD3U3)	897.82	850.49	847.77	847.17	846.60	846.97	847.17	846.27	846.87	846.52	845.46	844.57	843.64	843.22	843.42	843.37	843.78	841.93	
03L673 (PD3L3)	898.42	848.88	845.82	845.35	845.02	845.27	844.81	844.97	845.35	844.91	843.44	842.47	841.64	841.33	841.63	842.01	842.34	840.36	
04U673 (PD3U4)	898.77	849.39	846.29	844.84	845.52	845.77	845.31	845.49	845.83	845.38	843.85	842.90	842.11	841.83	842.12	842.55	838.86	840.88	

TCAAP TGRS GROUNDWATER ELEVATIONS (R. AMSL)

WELL I.D.	TOC ELEVATION	<u>07/07/89</u>	<u>10/06/89</u>	<u>12/21/89</u>	<u>1/11/90</u>	<u>5/16/90</u>	<u>7/16/90</u>	<u>2/28/91</u>	<u>6/03/91</u>	<u>9/03/91</u>	<u>9/27/91</u>
03U001	891.29		841.53	841.48	841.52	841.76	841.43	842.37	842.09	841.14	841.79
03M001	890.84		841.36	841.34	841.34	841.61	841.35	842.19	841.89	840.97	841.62
03L001	891.48	841.49	841.28	841.16	841.18	841.44	841.13	842.01	841.75	840.82	841.41
04U001	891.36	841.36	841.13	841.01	841.06	841.30	840.99	841.86	841.63	840.66	841.28
03U002	919.95	844.21	843.51	842.74	842.57	842.71	842.47	843.15	842.95	842.42	842.65
03M002	922.45	843.14	842.65	841.96	841.85	841.98	841.78	842.41	842.25	841.80	842.00
03L002	922.27	843.04	842.55	841.90	841.77	841.87	841.68	842.32	842.16	841.55	841.91
04U002	923.24	834.44	841.94	841.24	841.12	841.27	841.09	841.70	841.50	840.96	841.24
03U003	945.05	845.55	844.90	844.55	844.15	844.20	843.78	844.53	844.25	843.80	843.94
03M003	945.64	845.04	844.36	844.39	843.93	843.96	843.61	844.36	844.11	843.64	843.79
03L003	946.39	843.71	843.03	843.69	843.11	843.19	842.89	843.60	843.34	842.88	843.05
04U003	946.15	843.13	842.45	842.17	841.80	841.98	841.66	842.45	842.24	841.70	841.93
PJ#003	946.03		841.45	841.07	840.22	841.05	840.74	841.47	841.22	840.62	840.93
03U004	952.08		849.02	848.65	848.46	848.40		848.88			848.43
03M004	952.59		848.45	848.15	847.97	847.87		848.38			847.91
03L004	953.05		848.40	848.15	847.93	847.84		848.35			847.86
03U005	973.09		850.67	850.06	849.96	849.79		850.32			849.87
03M005	974.73		851.34	850.77	850.68	850.52		850.59			850.04
03L005	971.40		847.53	846.95	846.86	846.70		847.73			847.18
03U006	969.10		851.76	851.47	851.28	851.21		851.79			850.95
03U007	902.71	853.76	852.86	852.98	852.86	852.55	852.44	853.51	853.18	852.59	852.96
03M007	903.85		852.81	852.90	852.80	852.47	852.35	853.43	853.11	852.50	852.86
03L007	904.52		852.49	852.58	852.47	852.12	851.94	853.18	852.80	852.25	852.42
04U007	905.59	852.68	852.11	852.14	852.04	851.67	851.40	852.77	852.46	851.97	851.94
03U008	917.36		857.57	858.31	858.31	857.91		859.51			859.45
03U009	915.27		859.24	860.16	860.27	859.92		870.39			861.90
03U010	891.00		859.34	860.32	860.45	860.06		861.48			862.08
03M010	891.46		859.33	860.30	860.46			NM			862.08
03L010	891.52		859.07	860.06	860.21			NM			861.94
03U011	903.05		857.35	858.10	858.21	857.78		859.12			859.33
03U012	882.93	853.61	853.21	853.93	854.13	853.73	853.70	854.97	855.25	853.93	855.03
03M012	882.82		853.20	853.92	854.12	853.71	853.68	854.96	855.22	853.92	855.01
03L012	882.74		853.18	853.93	854.09	853.71	853.65	854.91	855.19	853.89	854.97
04U012	882.85	853.44	853.04	853.77	853.95	853.56	853.53	854.80	855.07	853.75	854.83
03U013	893.13		845.30	845.53	845.74	845.55		846.31			845.97
03M013	892.51		845.23	845.51	845.69	845.51		846.31			845.96
03L013	892.72		845.05	845.32	845.57	845.36		846.18			845.79
03U014	990.29		849.74	849.46	849.27	849.17	849.01	849.81	849.80	849.32	849.50
03L014	991.60		849.96	849.80	849.60	849.53		850.25	850.18	849.61	849.87
03U015	937.62		850.07	850.05	849.97	849.93		850.76			850.56

TCAAP TGRS GROUNDWATER ELEVATIONS (R. AMSL)

WELL I.D.	TOC ELEVATION	07/07/89	10/05/89	12/21/89	1/11/90	5/16/90	7/16/90	2/28/91	6/03/91	9/03/91	9/27/91
03U016	950.14		852.84	852.76	864.79	852.68		853.57			853.44
03U017	941.42		847.09	846.47	846.32	846.47		847.12			846.75
03M017	942.01		847.05	846.40	846.31	846.41		847.05			846.70
03L017	942.19		847.06	846.26	846.34	846.44		847.09			846.76
03U018	991.62		849.72	849.25	849.24	849.19		849.90			849.62
03L018	991.49		849.55	849.09	849.07	849.04		849.76			849.44
03U019	946.66		851.21	850.99	850.85	850.75		851.46			851.21
03U020	955.73	848.23	847.21	846.66	846.54	846.68	846.48	847.21	847.14	846.66	846.86
03M020	956.97	848.00	847.02	846.73	846.46	846.54	846.33	847.03	847.00	846.46	846.67
03L020	956.78	848.07	847.08	846.63	846.57	846.60	846.41	847.15	847.08	846.58	846.78
04U020	957.81	846.82	846.00	846.16	846.11	846.23	846.04	846.75	846.77	846.20	846.51
03U021	947.39		845.29	844.64	844.59	844.60		845.07			844.85
03L021	946.83		844.93	844.28	844.21	844.23		844.69			844.08
03U022	902.00		854.36	854.90	854.98	854.65		855.85			855.93
03U023	901.60		853.96	854.60	854.72	854.34		855.59			855.67
03U024	897.10		852.88	853.28	853.40	853.10		854.17			854.20
03U025	889.19		850.73	851.08	851.19	850.93		851.95			851.88
03U026	977.86		850.56	850.36	850.26			NM			
03U027	968.81		846.54	847.18	846.88	846.98		847.53			847.13
03L027	969.45		847.43	847.10	846.87	846.88		847.40			847.00
04U027	969.52		845.84	845.66	845.47	845.47		845.99			845.64
PJ#027	970.05		845.76	845.57	845.40	845.46		845.95			845.58
03U028	959.78		846.89	846.54	846.37	846.25		846.74			846.33
03L028	958.95		846.80	846.45	846.33	846.20		846.69			846.28
03U029	957.30		845.76	844.87	844.76	845.55		844.96			844.50
03L029	957.01		845.66	845.51	957.01	845.21		845.65			845.17
03U030	961.44		848.35	848.04	847.87	847.73		848.28			847.90
03U031	901.90		848.65	848.61	848.50	848.50		849.26			848.96
03U032	1006.55		851.34	851.33	851.20	851.07		851.95			851.71
PJ#074	956.46		845.96	846.28	846.24			NM			
03U075	887.13		844.38	844.53	844.82	844.62		845.35			844.97
03U076	891.51		842.84	842.96	843.26	843.08		843.75			843.29
03U077	915.08		841.88	842.00	841.26	841.42		841.92			841.33
03L077	915.03		840.31	839.68	839.66	839.81		840.33			839.79
04U077	914.72		840.51	839.72	839.66	839.82		840.34			839.82
04U077	914.78		837.89	836.71	836.68	837.28		838.08			837.56
03U078	929.94		843.00	842.29	841.89	841.33		841.76			840.65
03L078	930.26		842.76	842.24	841.91	841.78		842.32			841.92
03U079	926.07		842.02	842.69	840.95	840.86		841.16			840.39
03L079	926.37		842.56	843.09	841.77	841.77		842.17			841.77

TCAAP TGRS GROUNDWATER ELEVATIONS (R. AMSL)

WELL	TOC										
<u>I.D.</u>	<u>ELEVATION</u>	<u>07/07/89</u>	<u>10/05/89</u>	<u>12/21/89</u>	<u>1/11/90</u>	<u>5/16/90</u>	<u>7/16/90</u>	<u>2/28/91</u>	<u>6/03/91</u>	<u>9/03/91</u>	<u>9/27/91</u>
03L080	963.49		848.40	848.10	847.94	847.88		848.42			848.03
03L081	949.00		850.65	850.45	850.30	850.21		850.96			850.53
03U082	901.25		856.78	857.43	857.54	857.17		858.46			858.61
03U083	893.40		849.85	850.03	850.10	849.86		850.81			850.70
03U084	901.60		842.55	842.09	842.10	842.24		842.86			842.29
03L084	900.65		842.12	841.65	841.65	841.79		842.38			841.82
03U087	1006.98		851.68	851.77	851.67	851.53		852.42			852.26
03U088	986.52		852.04	852.17	852.07	851.92		852.88			852.77
03U089	975.42		851.97	852.09	852.02	851.85		852.81			852.70
03U090	985.80		851.54	851.35	851.27	851.13		851.87			851.69
03U092	946.90		833.36	832.88	832.88	832.80		833.47			833.21
03U093	996.11		849.41	849.37	849.36	849.31	849.26	850.07	850.08	849.60	849.76
03U094	999.63		850.06	849.75	849.59	849.39		850.09			849.83
03U096	997.13		849.90	849.46	849.45	849.43		850.20			849.89
03U111	929.00		857.89	858.06	858.30	858.21		859.62			859.50
03U112	980.70		851.00	850.81	850.69	850.55		851.27			851.08
03U113	980.00		854.65	854.55	854.40	854.31		855.08			854.89
03L113	980.00		854.21	854.15	854.00	853.91		854.69			854.48
03U301(SC1)	957.41		831.41	827.06	831.01	845.46	829.41	828.41	826.86	829.41	829.16
03F302(B1)	929.92	837.92	837.12	929.92	855.32	836.72	835.92	836.52	835.02	835.30	835.32
03F303(B2)	925.12	829.62	828.42	830.52	828.72	821.32	821.02	820.52	817.72	810.77	806.52
03F304(B3)	920.15	841.05	840.55	840.15	839.95	840.15	839.65	840.45	839.95	839.74	840.10
03F305(B4)	915.74	836.34	836.24	834.54	834.34	835.44	835.14	835.71	836.00	835.44	835.49
03F306(B5)	919.20	834.50	833.10	832.50	832.80	832.80	832.30	833.55	832.15	831.90	832.05
03F307(B6)	915.64	829.34	828.94	828.54	828.54	827.94	828.44	828.54	828.64		828.14
03F308(B7)	902.01	834.41	834.01	833.71	833.51	832.91	831.51	832.21	827.46		824.51
PJ#309(B8)	914.53	839.53	835.13	807.73	838.43	839.13	839.03	838.53	838.33	838.43	838.83
PJ#310(B9)	916.00	835.50	835.50	834.10	834.10	835.30	835.40	836.20	835.90	835.85	835.90
PJ#311(B10)	907.55	840.35	840.45	845.85	838.95	839.65	838.45	839.25	839.30		838.60
03F312(B11)	944.77	835.27	835.07	828.67	838.57	839.37	838.77	838.97	839.39	838.87	839.02
PJ#313(B12)	894.53	836.83	835.83	835.53	894.53	836.73	836.53	835.13	836.33	835.43	835.81
03U314(SC2)	978.21	841.71	842.51	841.51	840.11	843.61	846.21	845.16	845.29	840.26	840.79
03U315(SC3)	965.31	844.71	842.81	842.51	842.91	842.41	841.21	841.51	842.29	842.46	842.66
03U316(SC4)	957.10	836.10	836.60	826.20	830.00	833.70	831.70	831.20	831.90	832.10	832.60
03U317(SC5)	952.66	844.66	843.76	843.66	843.46	851.96	843.16	843.06	843.96	842.76	842.26
04U510	911.19		858.48	859.32	859.39	859.11		860.57			860.83
OW543U3	959.37		847.40	847.03	846.86	846.76		847.15			847.24
03U647	962.25		847.85	847.50	847.36	847.23		847.75			847.35
03U648	962.89		847.82	847.48	847.34	847.19		847.74			847.34
03U658	966.02		848.54	848.26	848.02	847.96		848.49			848.07

TCAAP TGRS GROUNDWATER ELEVATIONS (R. AMSL)

WELL I.D.	TOC ELEVATION	07/07/89	10/06/89	12/21/89	1/11/90	5/16/90	7/16/90	2/28/91	6/03/91	9/03/91	9/27/91
03U659	958.58		846.61	846.16	845.96	846.01		846.30			845.85
03U671	933.24		844.51	843.30	843.44	843.39		843.74			843.10
03U674	957.43		845.69	845.21	845.08	845.62		845.28			844.78
03U701	911.24		841.32	840.89	841.13	841.15		841.59			840.94
04U701	911.34		839.90	839.10	839.37	839.53		839.90			839.29
03U702	910.68		840.90	840.04	840.78	840.81		841.23			840.57
04U702	910.52		840.57	840.32	840.17	840.22		840.56			839.95
04U702	910.65		840.30	839.50	839.75	839.88		840.25			839.67
03U703	921.37		842.25	842.17	841.27	840.80		841.21			840.22
03U704	978.64	854.75	853.19	853.39	853.34	853.18	853.36	854.18	854.42	853.74	854.19
03U705	1049.77		853.63	853.94	853.82	853.68		854.75	855.02	854.27	854.77
03U706	920.78	854.73	853.31	853.68	853.73	853.52	853.66	854.52	854.80	854.02	854.60
03U707	918.51		853.96	854.41	854.47	854.26		855.33			855.37
03U708	922.04		843.94	842.93	842.74	842.77		843.09			842.49
04U708	921.73		842.15	841.42	841.23	841.43		841.85			841.42
04U708	922.11		841.71	840.93	840.75	840.90		841.33			840.88
03U709	912.69		842.69	841.85	841.74	841.92		842.31			841.80
04U709	912.58		841.10	841.42	840.28	840.43		840.82			840.38
03U710	946.84		843.88	843.55	842.96	842.94		843.24			842.62
03U711	908.91	842.70	842.03	841.31	841.11	841.39	840.10	841.79	841.43	839.74	840.05
04U711	908.82	841.32	840.77	840.28	840.02	840.43	840.99	840.61	840.37	840.82	840.93
03M713	898.49	840.29	840.14	839.64	839.69	839.89	839.67	840.39	840.11	839.23	839.68
04U713	897.80	842.52	842.62	841.89	841.90	842.06	841.88	842.65	842.49	841.77	842.13
04U713	898.45	840.29	840.11	839.37	839.45	839.74	839.48	840.05	839.81	838.95	839.41
04U714	894.00	841.07	840.91	840.65	840.70	840.94	840.65	841.44	841.19	840.26	840.81
04U714	894.30	834.23	840.79	840.51	840.59	840.82	840.58	841.29	841.05	840.16	840.68
03U715	963.73	850.21	848.90	848.38	848.33	848.34	848.20	848.93	848.97	848.46	848.64
03U716	952.20	848.66	847.79	847.10	847.05	847.15	846.99	847.78	847.73	847.20	847.40
S.G. #1	860.42		863.68	DRY	FROZEN	864.62		865.22			865.66
S.G. #2	862.84		NA	DRY	FROZEN	864.74		865.04			865.89
S.G. #3	865.29		NA	DRY	FROZEN	DRY		865.53			866.04
OFF TCAAP											
MPCA6	914.40		839.10	838.65	838.95	839.01		839.26			838.60
03U672 (PD2U3)	923.80	846.80	845.94	845.63	845.50	845.39	845.00	845.76	845.44	845.19	845.13
03U673 (PD3U3)	897.82	840.44	840.07	839.11	839.31	839.12	838.82	839.11	838.71	838.17	838.37
03L673 (PD3L3)	898.42	838.57	838.33	837.73	837.92	837.92	837.49	837.93	837.65	836.97	837.27
04U673 (PD3U4)	898.77	839.22	838.86	838.27	838.46	838.47	838.03	838.51	838.22	837.55	837.87

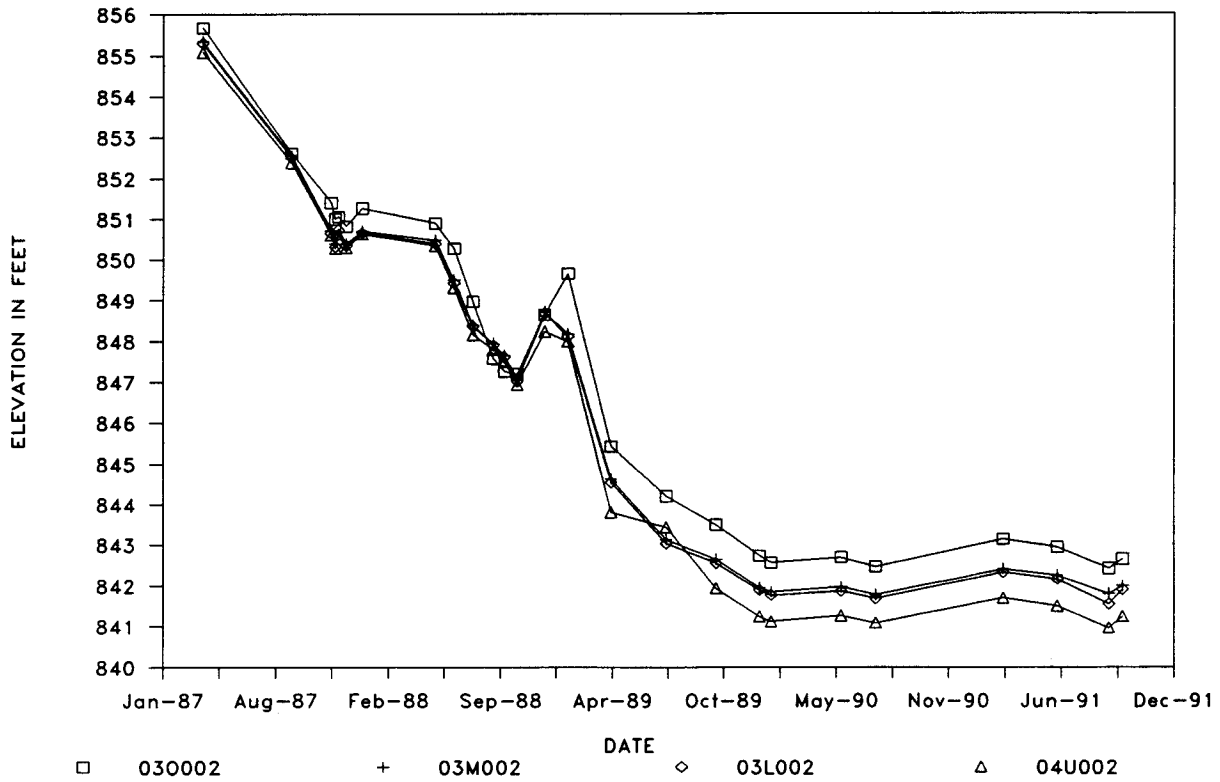
TCAAP TGRS GROUNDWATER ELEVATIONS (R. AMSL)

WELL I.D.	TOC ELEVATION	<u>07/07/89</u>	<u>10/05/89</u>	<u>12/21/89</u>	<u>1/11/90</u>	<u>5/16/90</u>	<u>7/16/90</u>	<u>2/28/91</u>	<u>6/03/91</u>	<u>9/03/91</u>	<u>9/27/91</u>
03U801 (T1U3)	914.79		842.17	842.04	841.78	841.47	841.18	841.86	842.09	841.14	841.25
03M802 (T2M3)	907.14		842.49	842.44	842.04	841.64	841.26	842.12	841.56	841.19	841.27
03L802 (T2L3)	907.68	842.86	842.19	842.27	841.88	841.68	841.29	842.04	841.67	841.28	841.44
04U802 (T2U4)	905.89		841.87	841.59	841.59	841.59	841.19	841.88	841.62	841.14	841.38
PJ#802 (T2PJ)	904.93		841.81	841.35	841.38	841.43	840.99	841.59	841.35	840.83	841.07
03U803 (T3U3)	900.96		841.72	841.26	841.36	841.10		841.28			840.56
03U804 (T4U3)	913.02		841.90	841.36	841.39	841.27		841.61			841.13
03U805 (T5U3)	908.23		840.32	839.82	840.01	840.03		840.31			839.76
03U806 (T6U3)	911.88		840.40	839.94	840.20	840.27	839.85	840.66	840.36	839.62	839.98
03M806 (T6M3)	911.78		839.82	839.32	839.57	839.63	839.22	839.97	839.63	838.98	839.33
03L806 (T6L3)	912.08	840.18	839.78	839.28	839.53	839.60	839.18	839.93	839.66	838.94	839.30
04U806 (T6U4)	912.01	839.96	839.62	839.10	839.36	839.46	839.03	839.75	839.46	838.75	839.12
PJ#806 (T6PJ)	910.98		839.69	839.11	839.38	839.47	839.08	839.79	839.50	838.78	839.15
03L809 (T9L3)	912.35		839.20	838.95	839.20	839.25		839.49			838.86
03L841 (301L3)	911.92					837.40		837.42			836.67
03U841 (301U4)	913.77					838.79		838.77			838.10
04U847 (307U4)	916.10					834.02		838.38			837.70

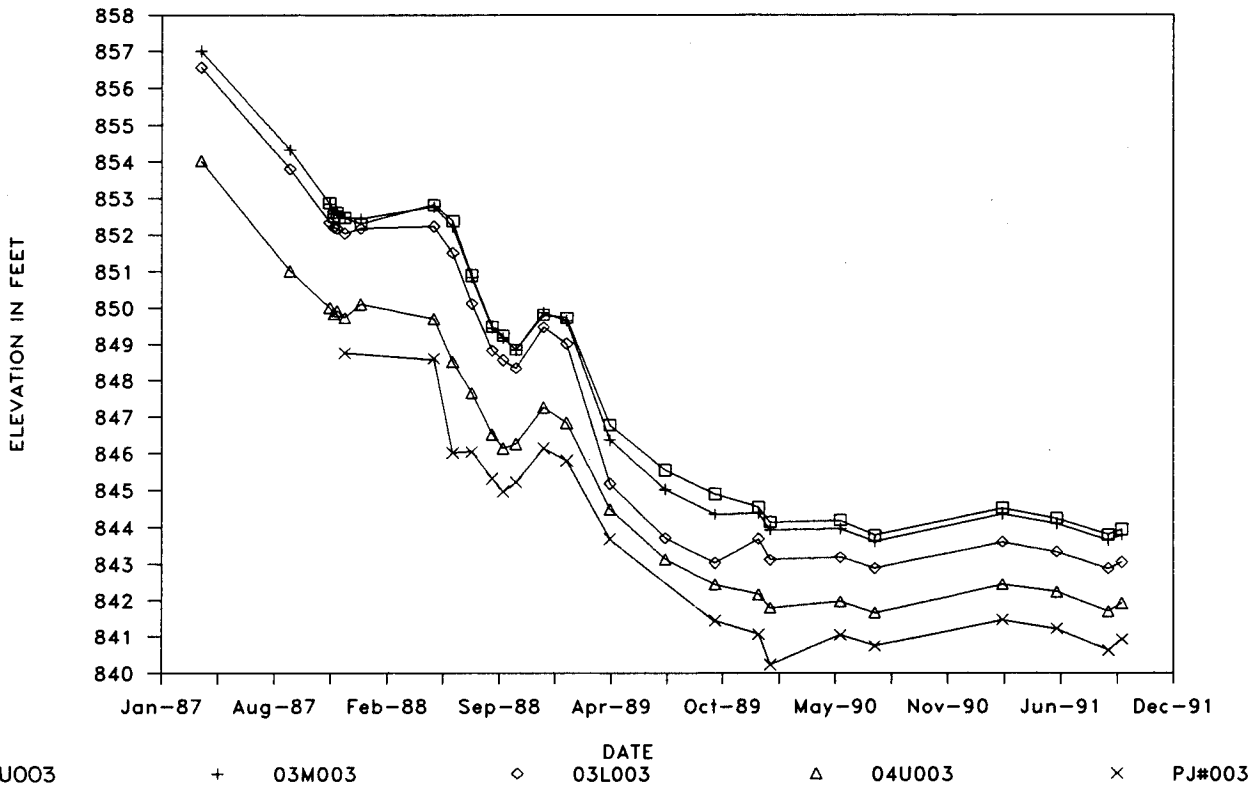
Appendix F.2

Hydrographs

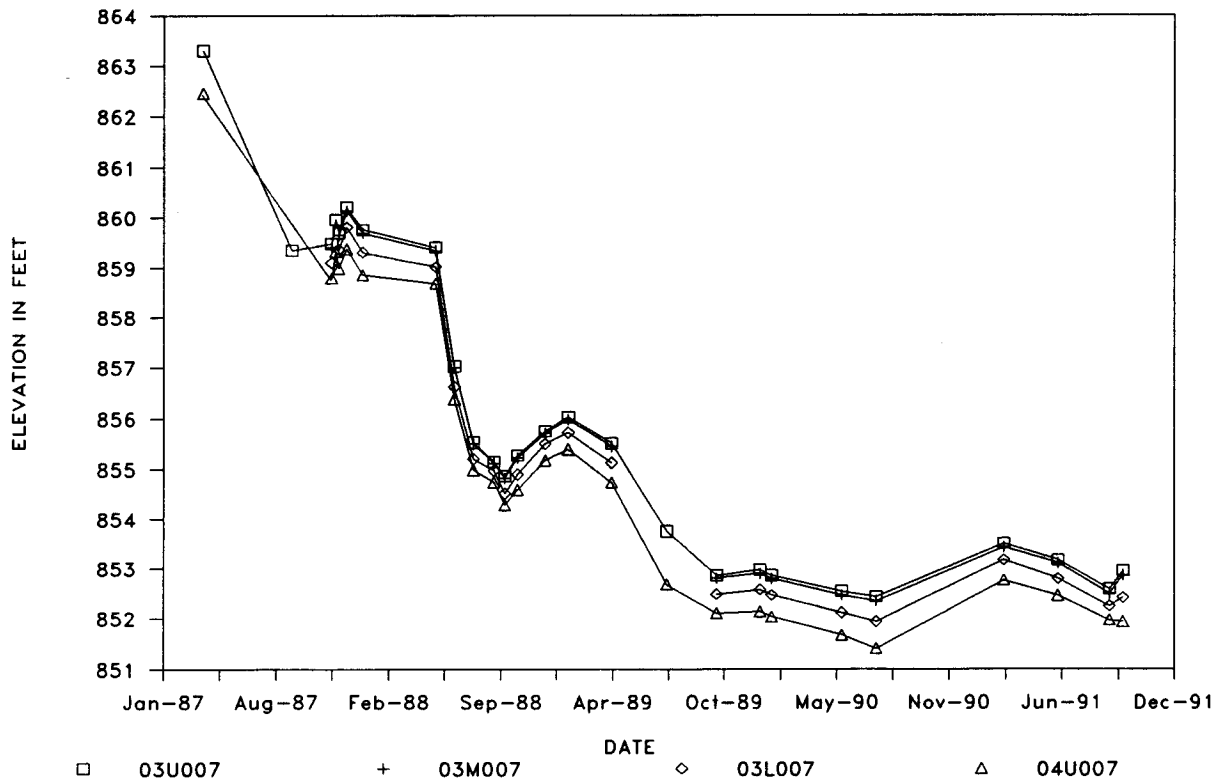
HYDROGRAPH - 002 NEST



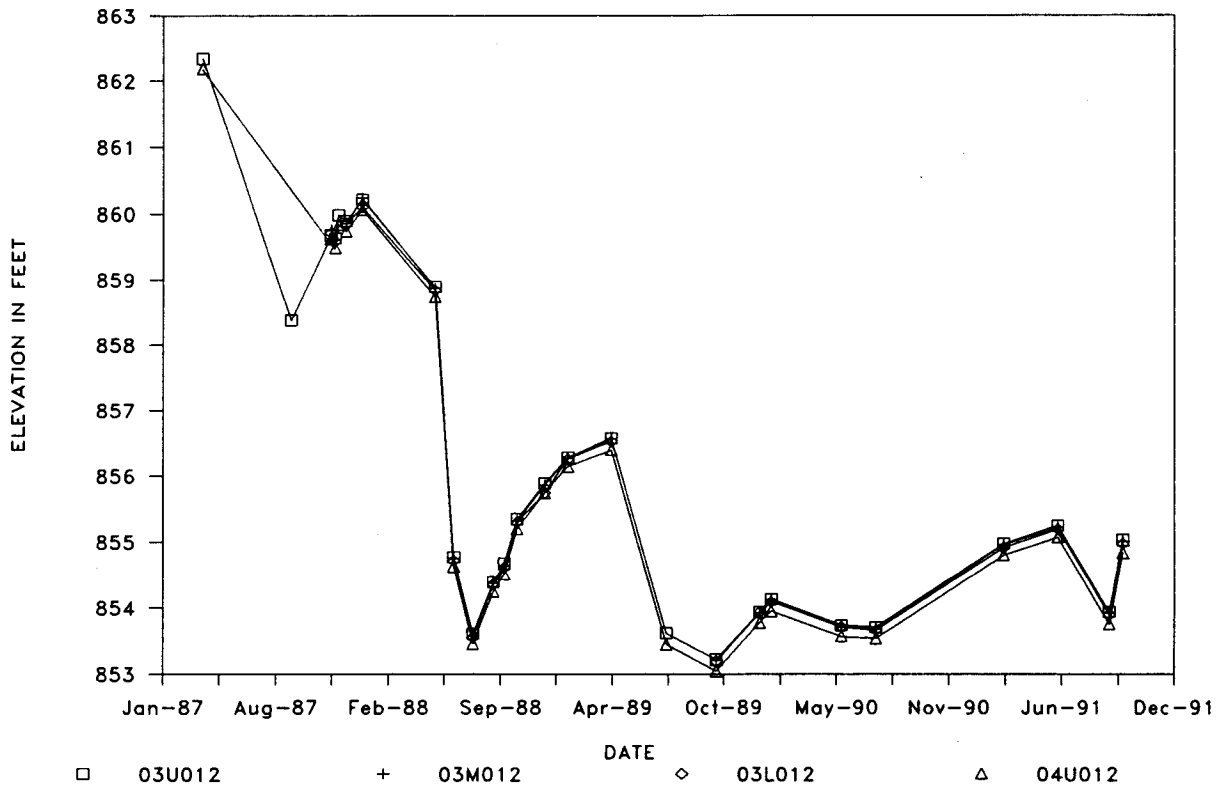
HYDROGRAPH - 003 NEST



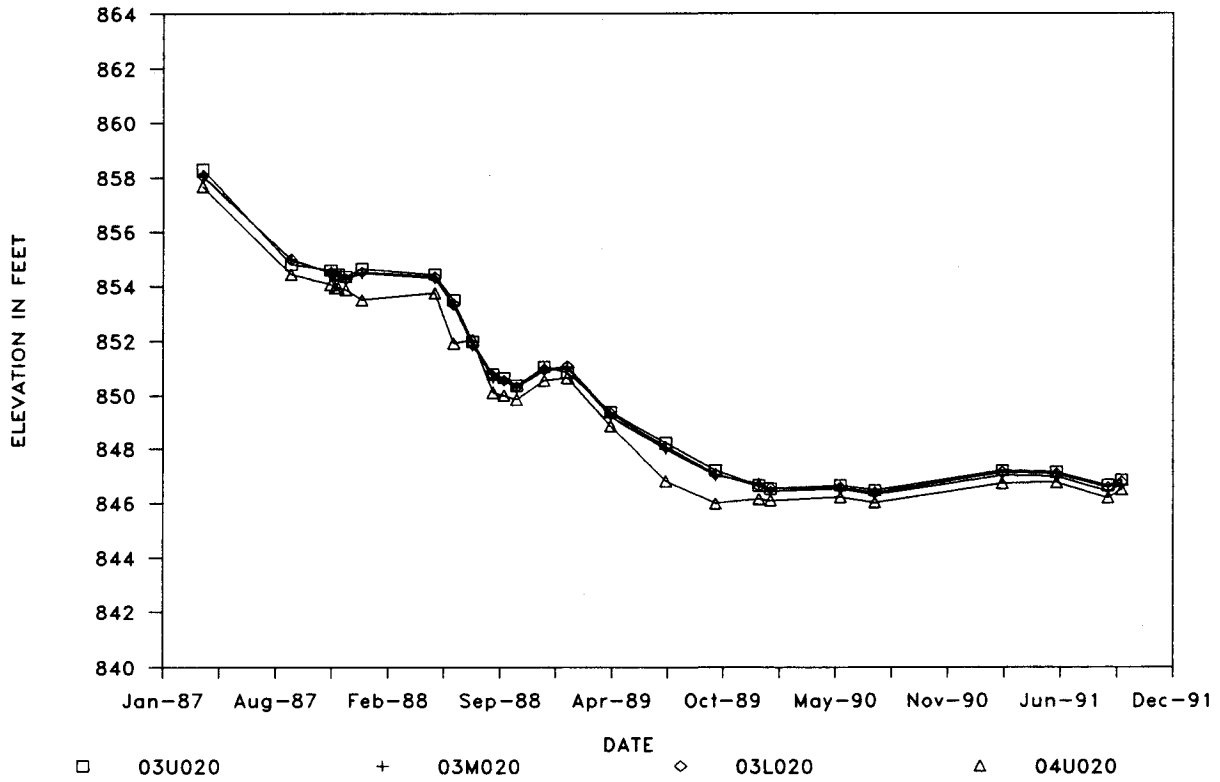
HYDROGRAPH - 007 NEST



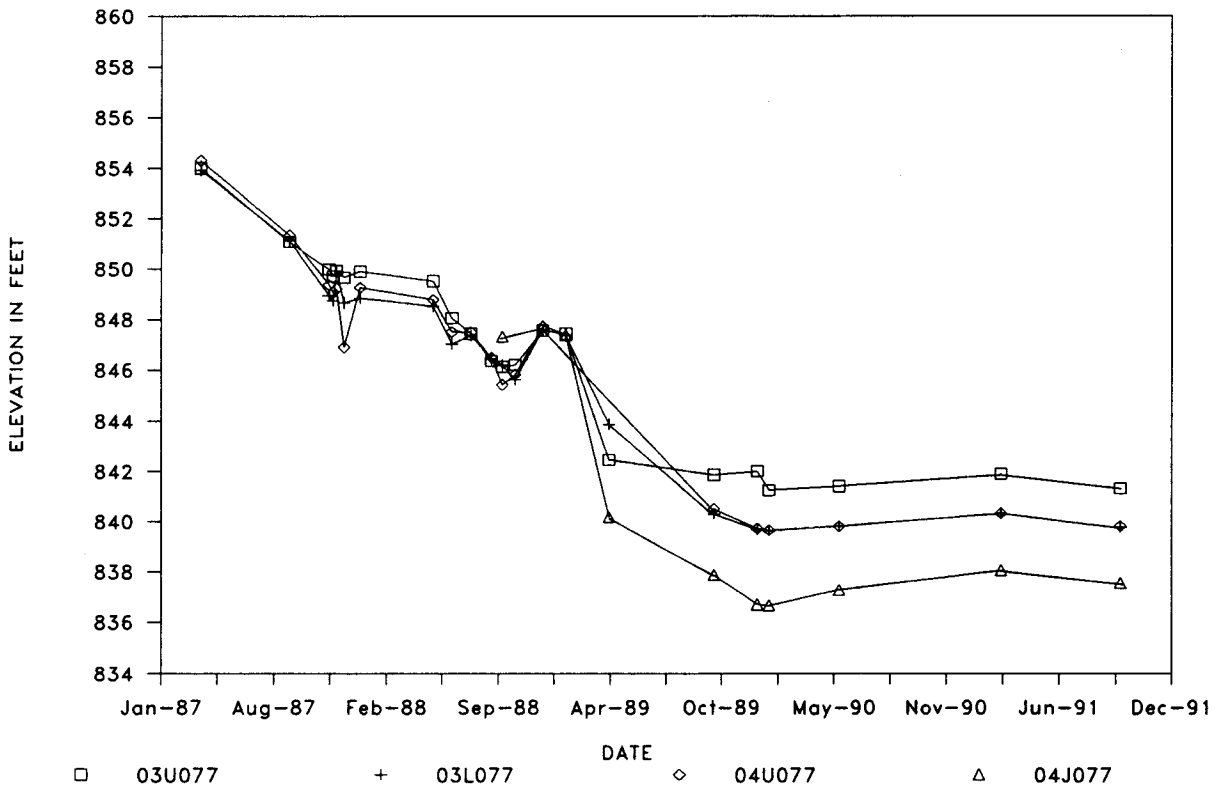
HYDROGRAPH - 012 NEST



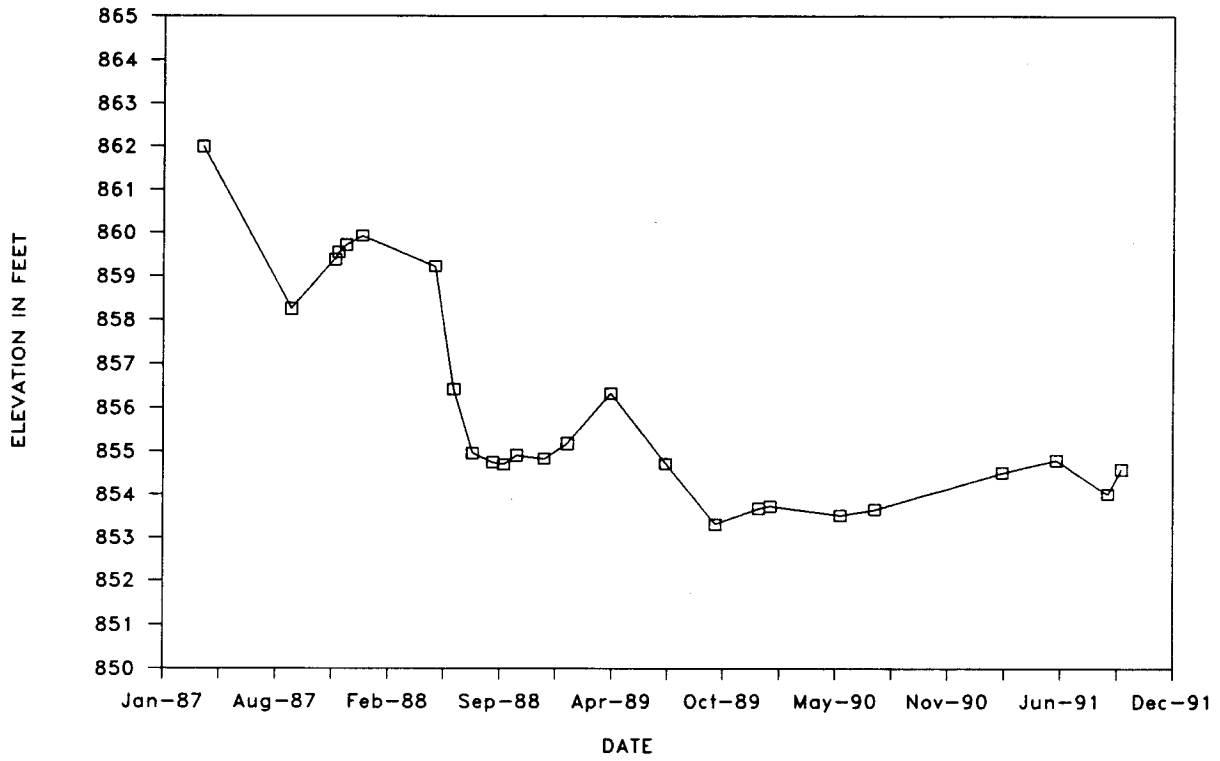
HYDROGRAPH - 020 NEST



HYDROGRAPH - 077 NEST



HYDROGRAPH - 03U706



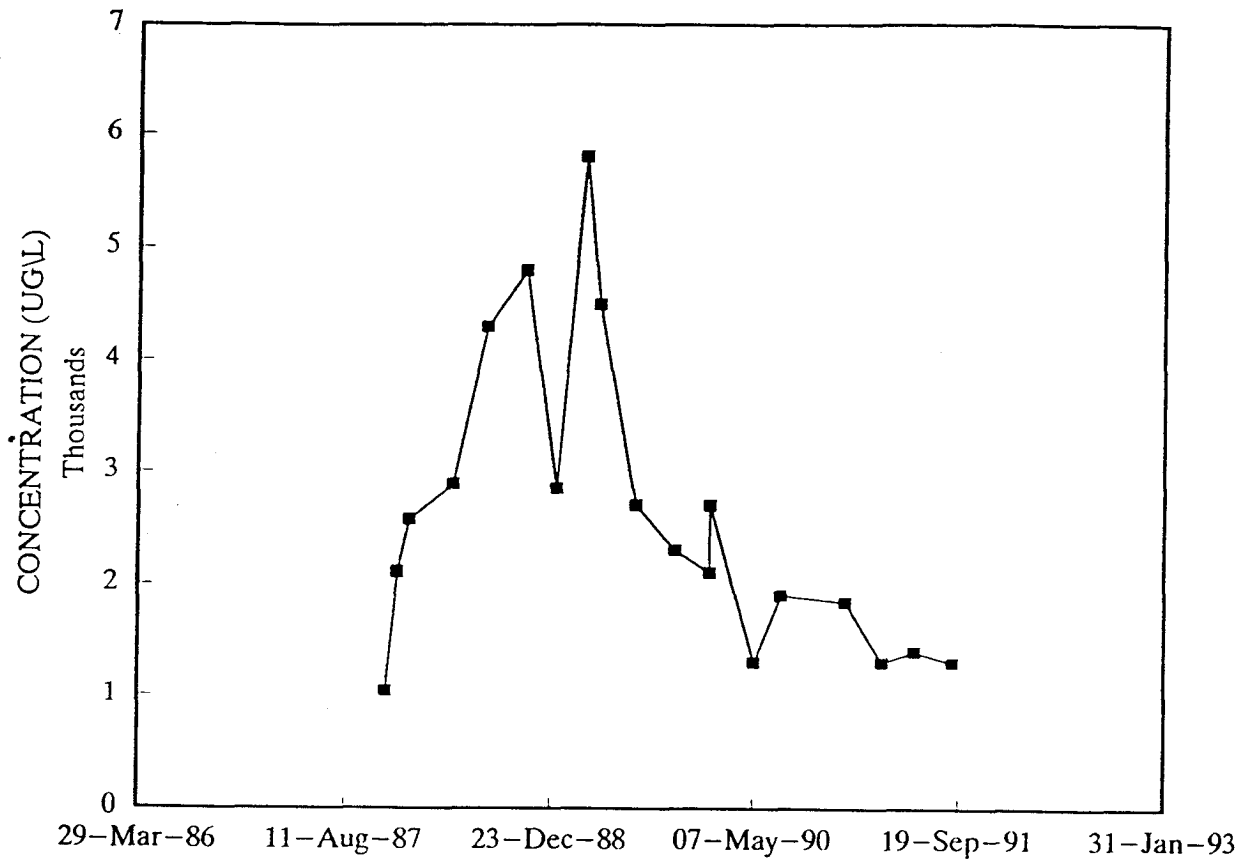
Appendix G

TGRS Chemical Data

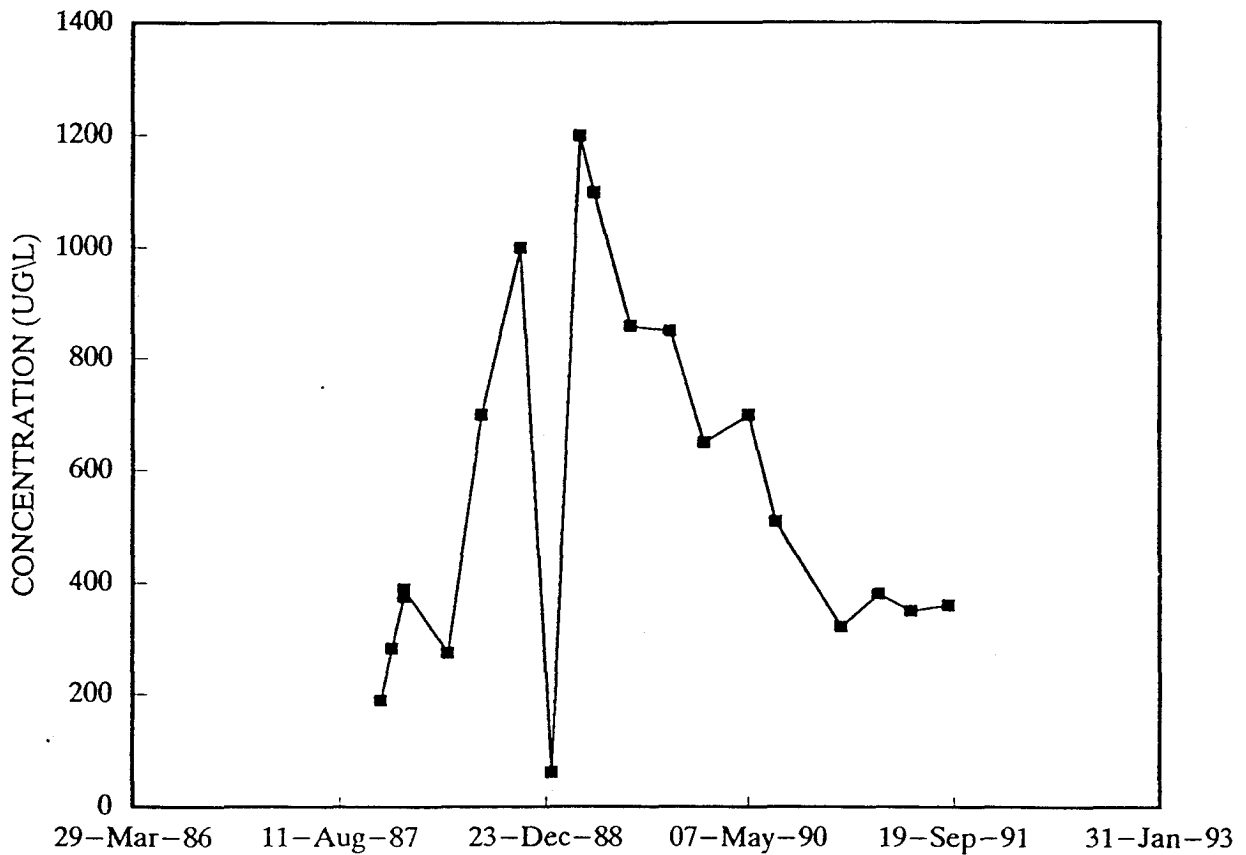
Appendix G.1

Extraction Well TRCLE vs Time Graphs

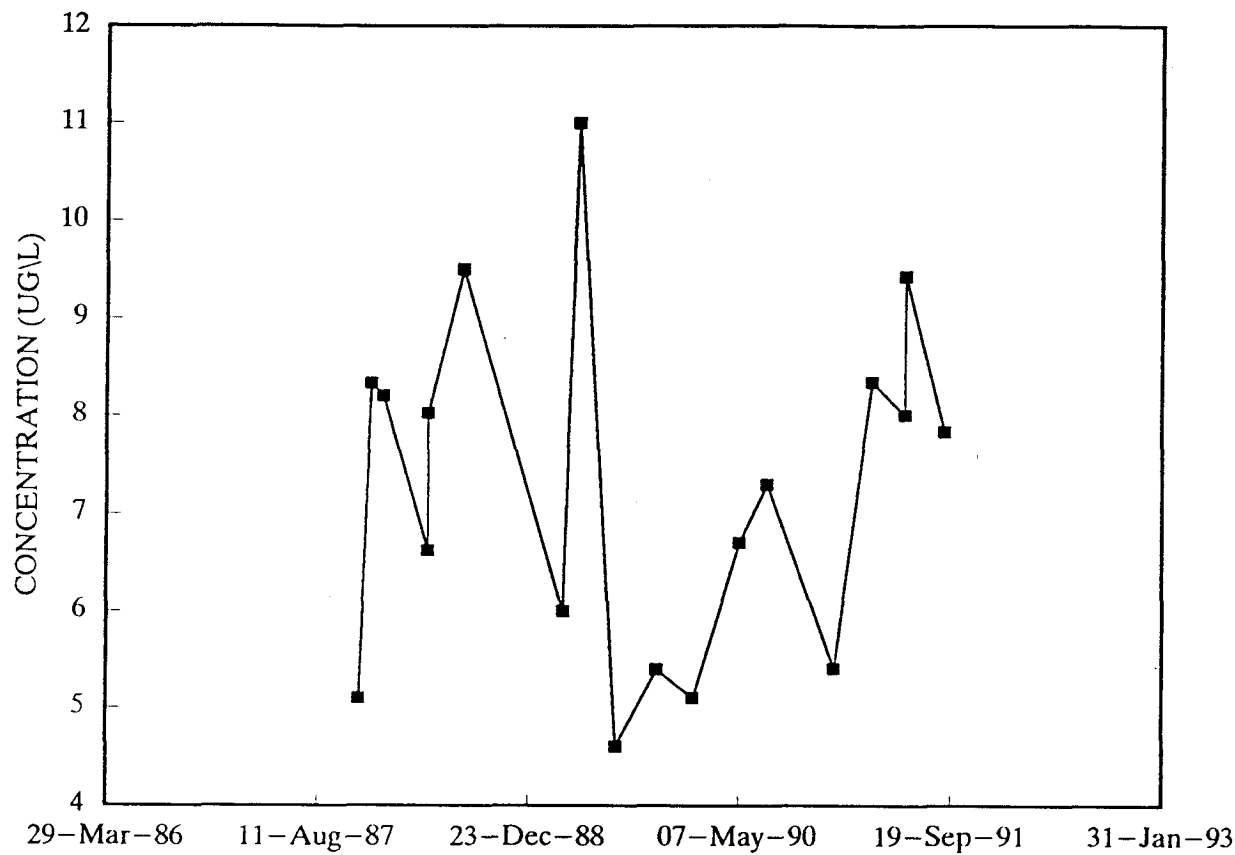
EXTRACTION WELL B1 – TRCLE vs. TIME



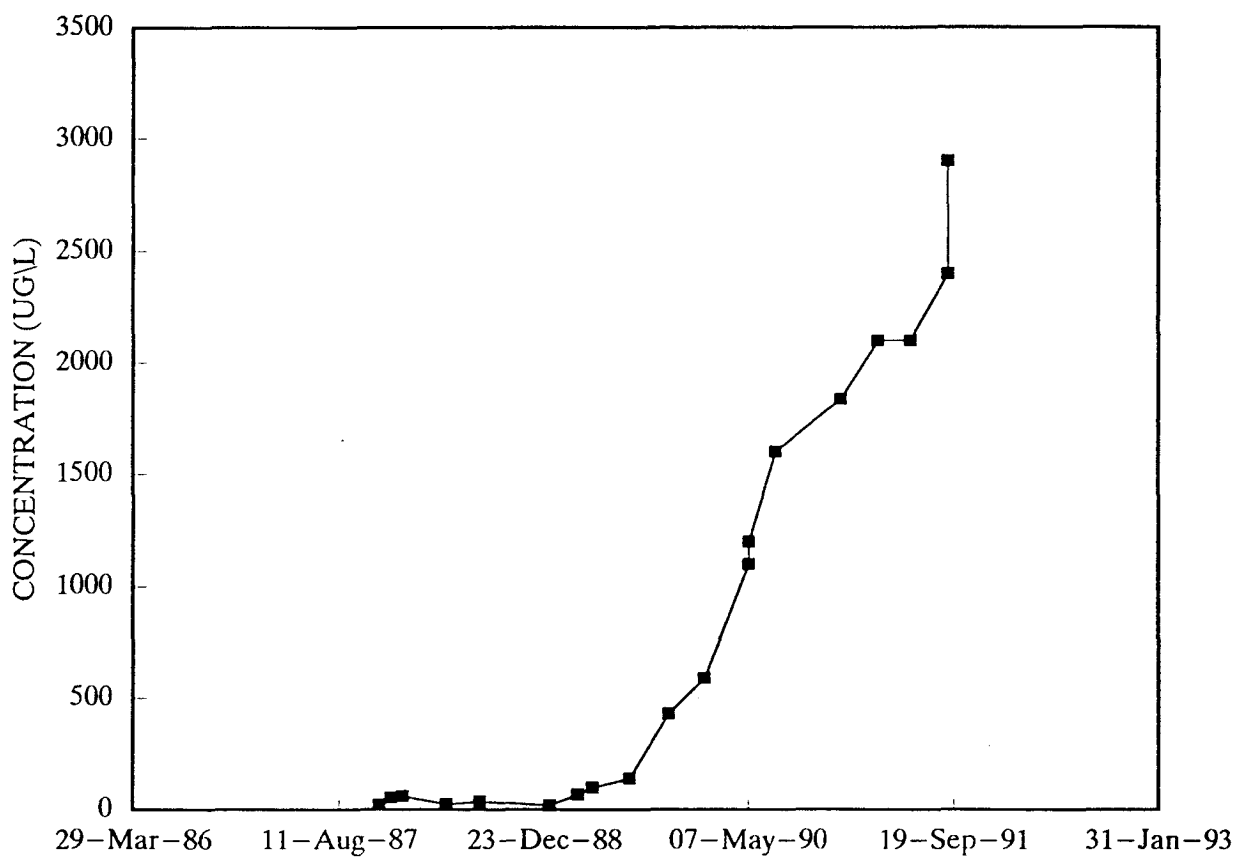
EXTRACTION WELL B2 – TRCLE vs. TIME



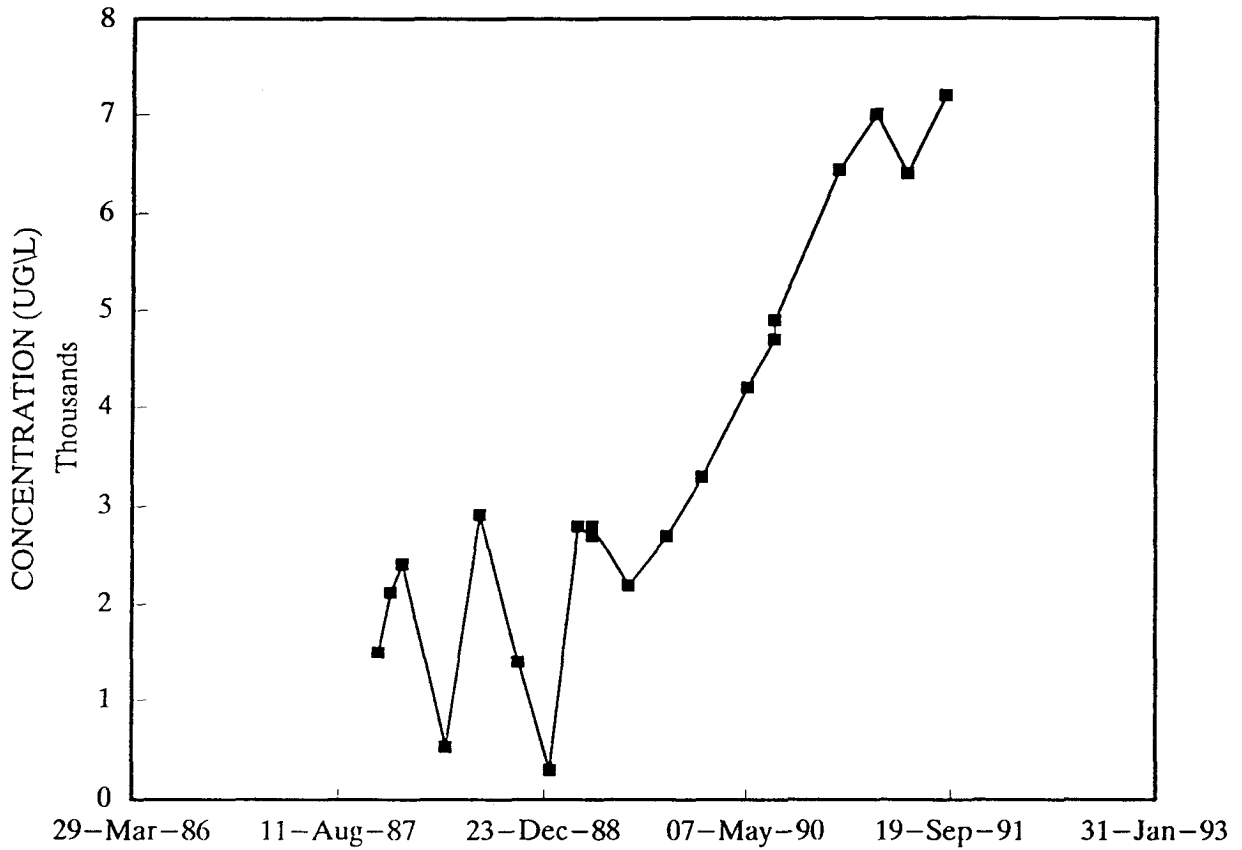
EXTRACTION WELL B3 – TRCLE vs. TIME



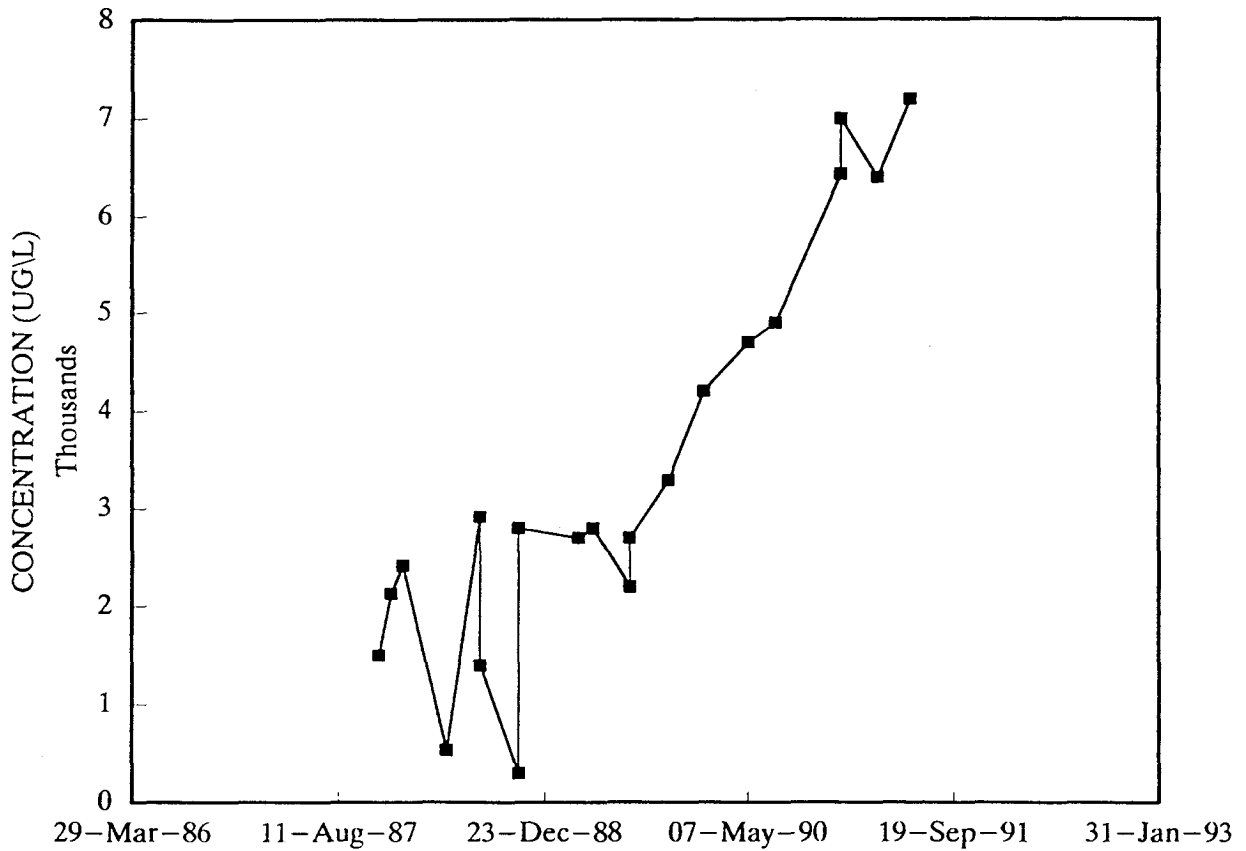
EXTRACTION WELL B4 – TRCLE vs. TIME



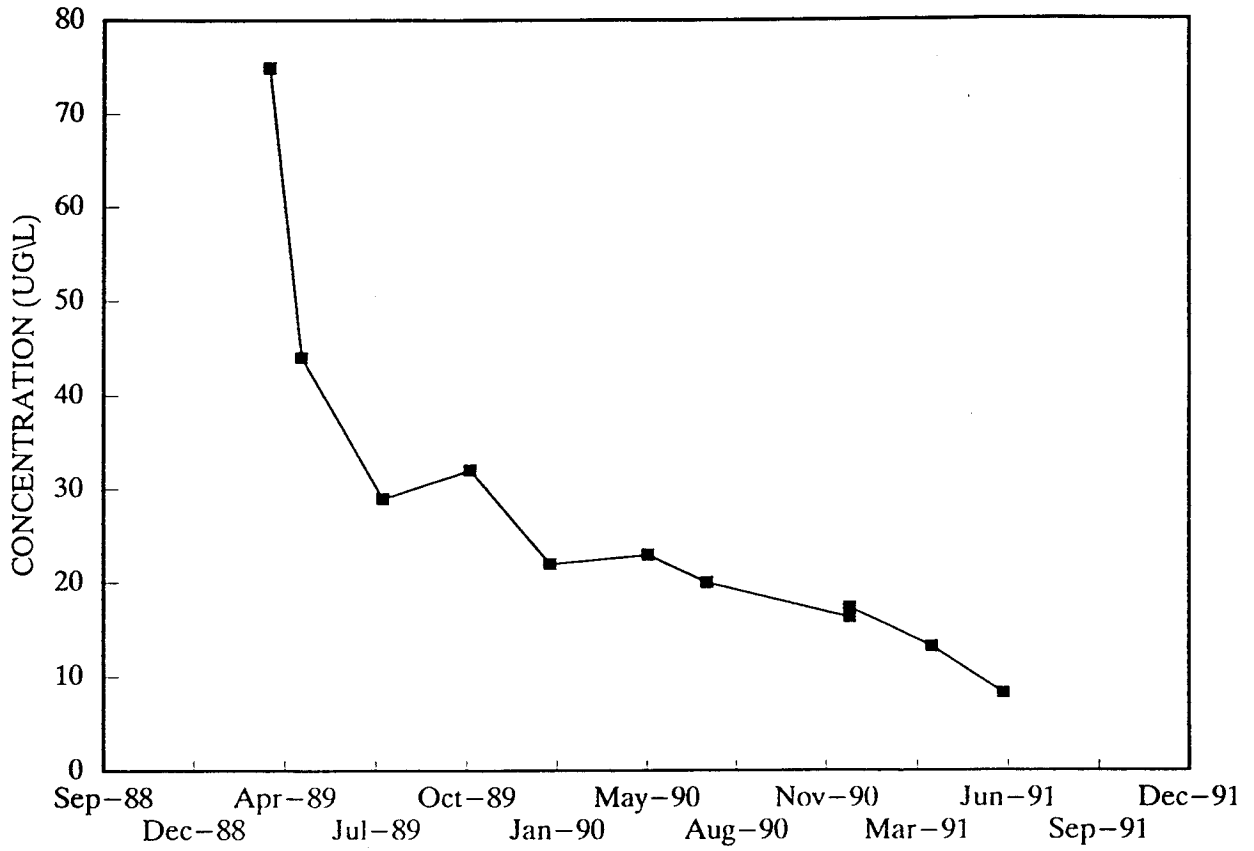
EXTRACTION WELL B5 – TRCLE vs. TIME



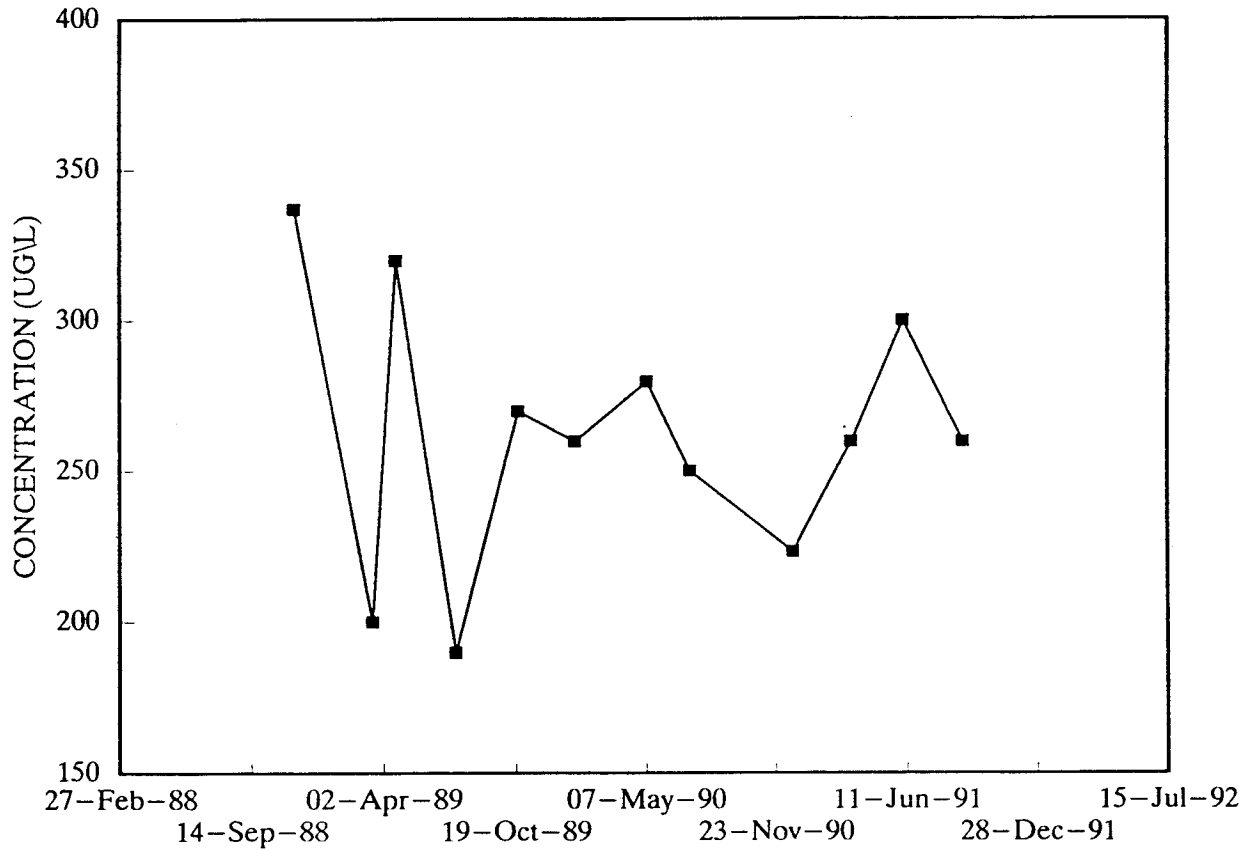
EXTRACTION WELL B6 – TRCLE vs. TIME



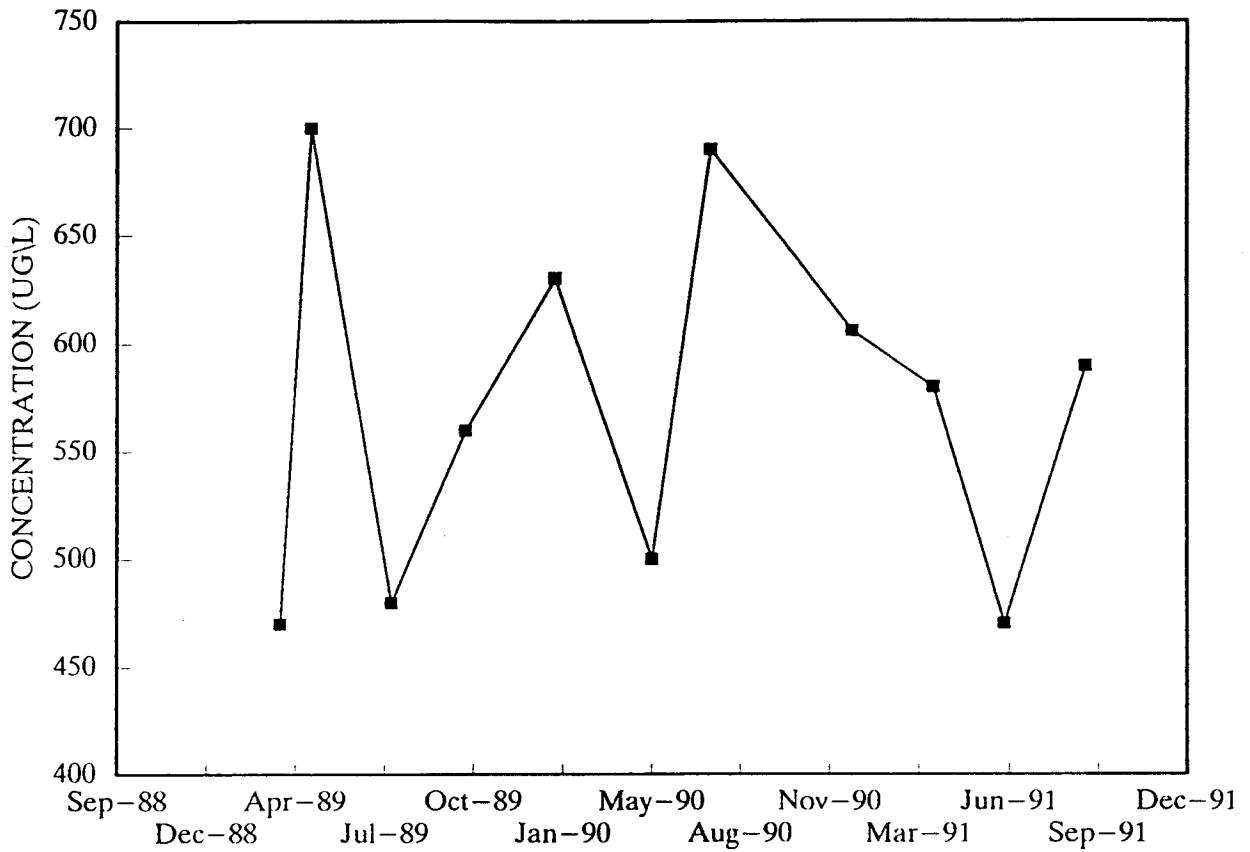
EXTRACTION WELL B7 – TRCLE vs. TIME



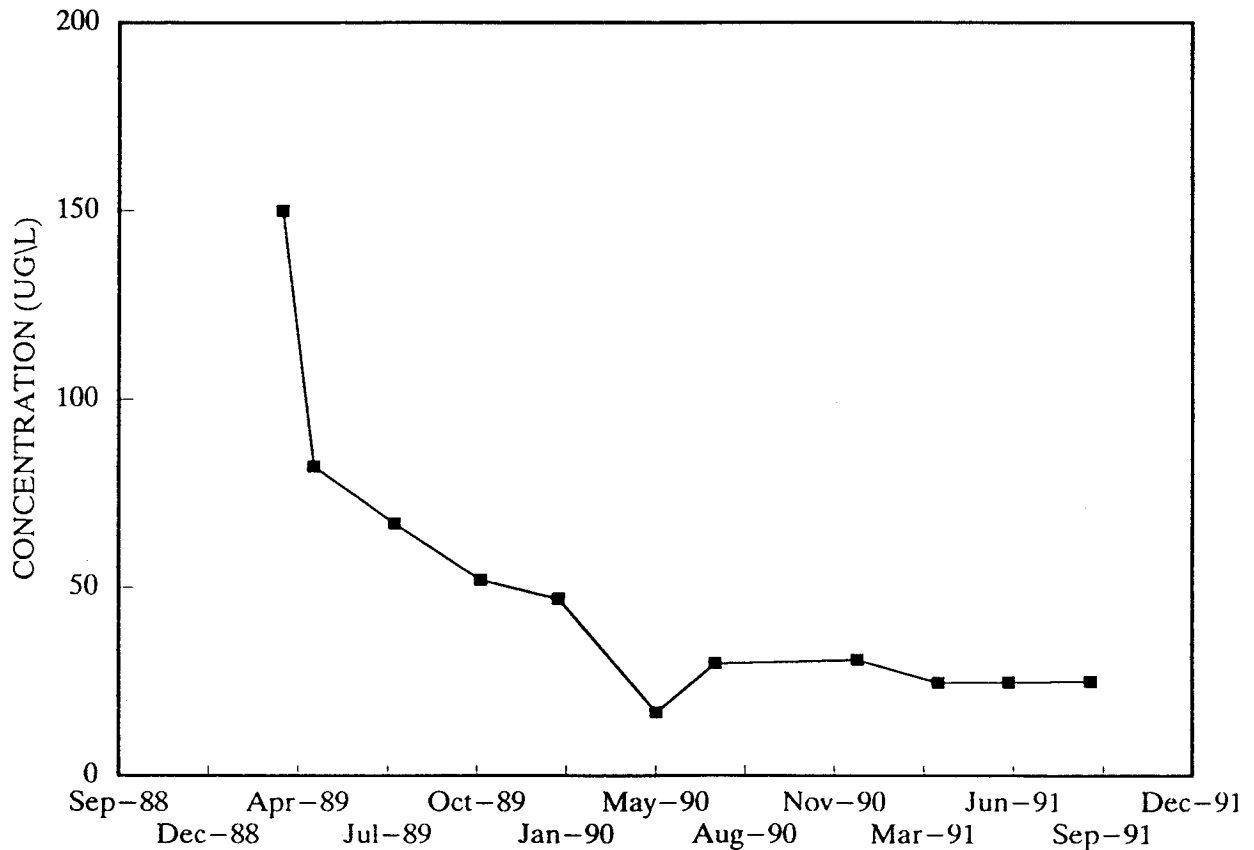
EXTRACTION WELL B8 – TRCLE vs. TIME



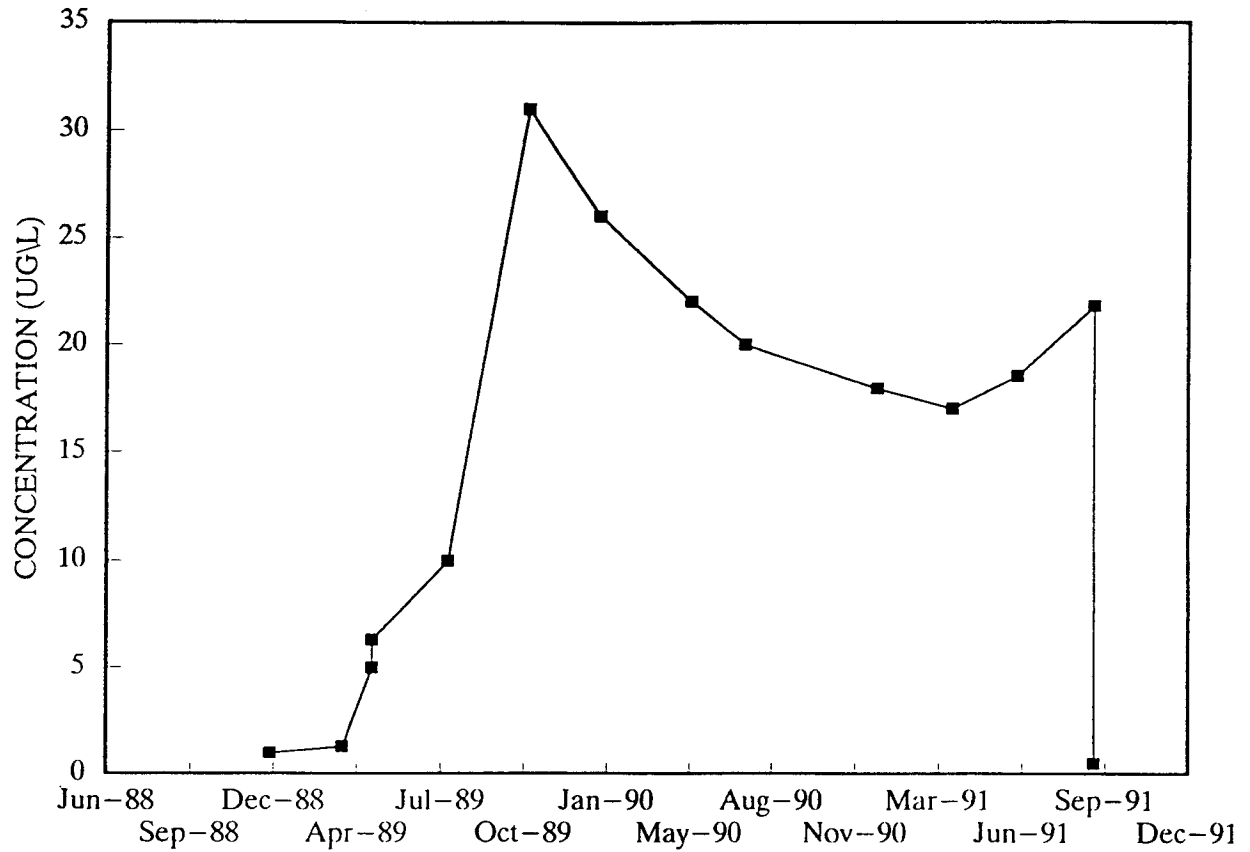
EXTRACTION WELL B9 – TRCLE vs. TIME



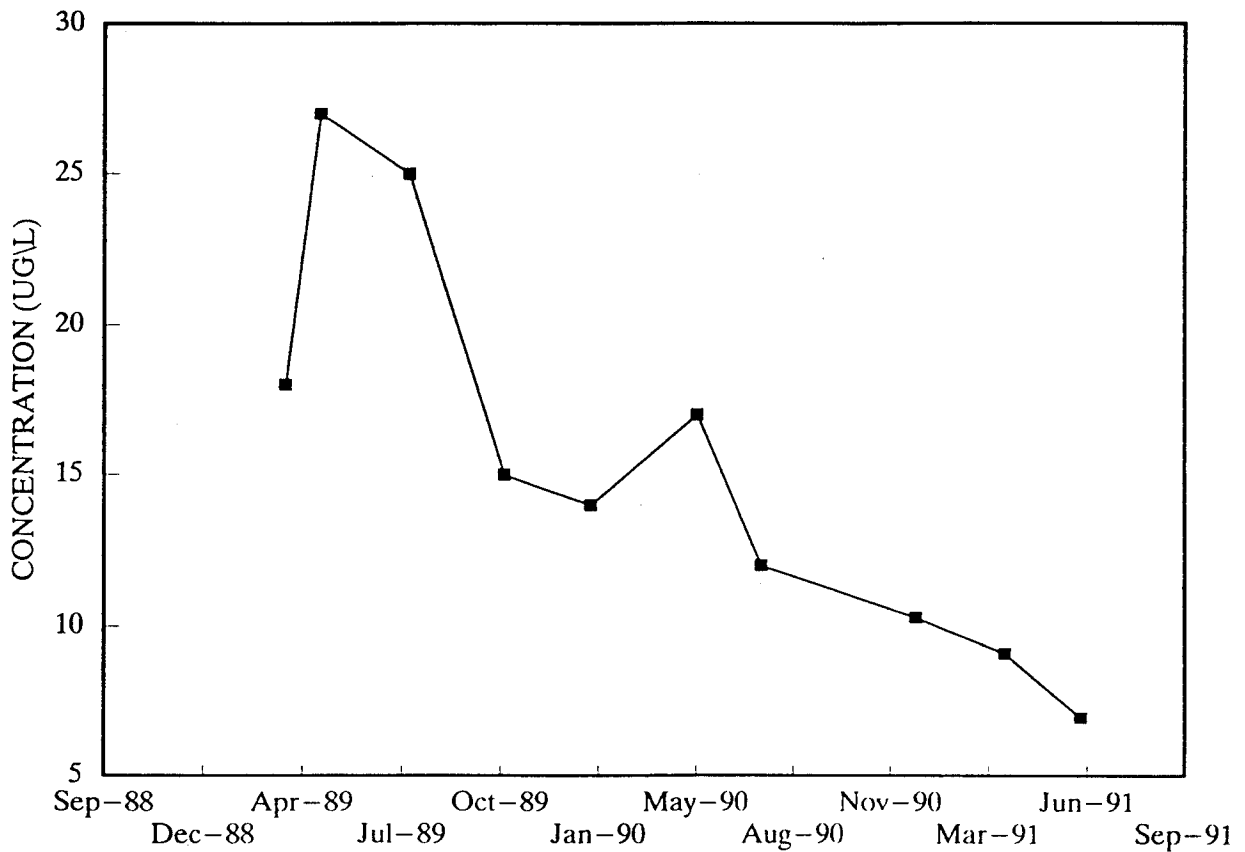
EXTRACTION WELL B10 – TRCLE vs. TIME



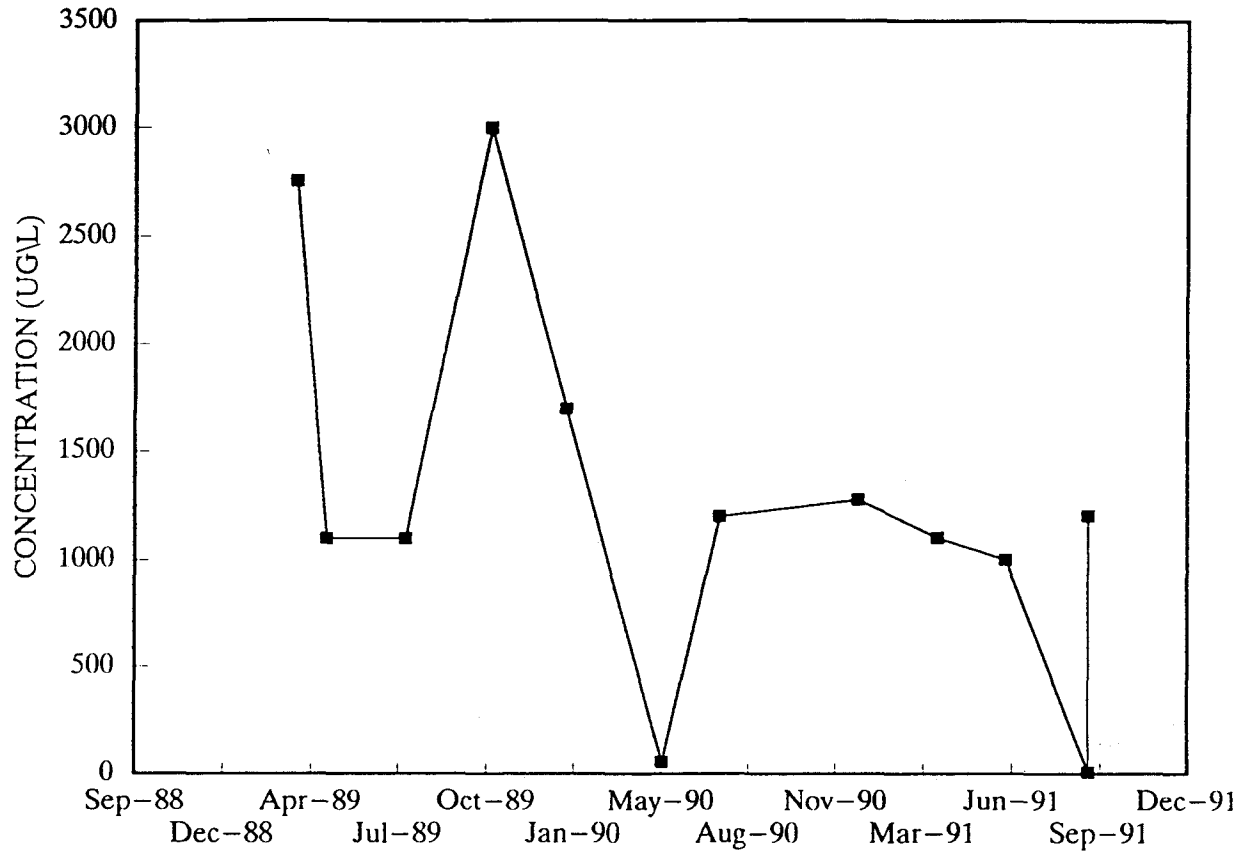
EXTRACTION WELL B11 – TRCLE vs. TIME



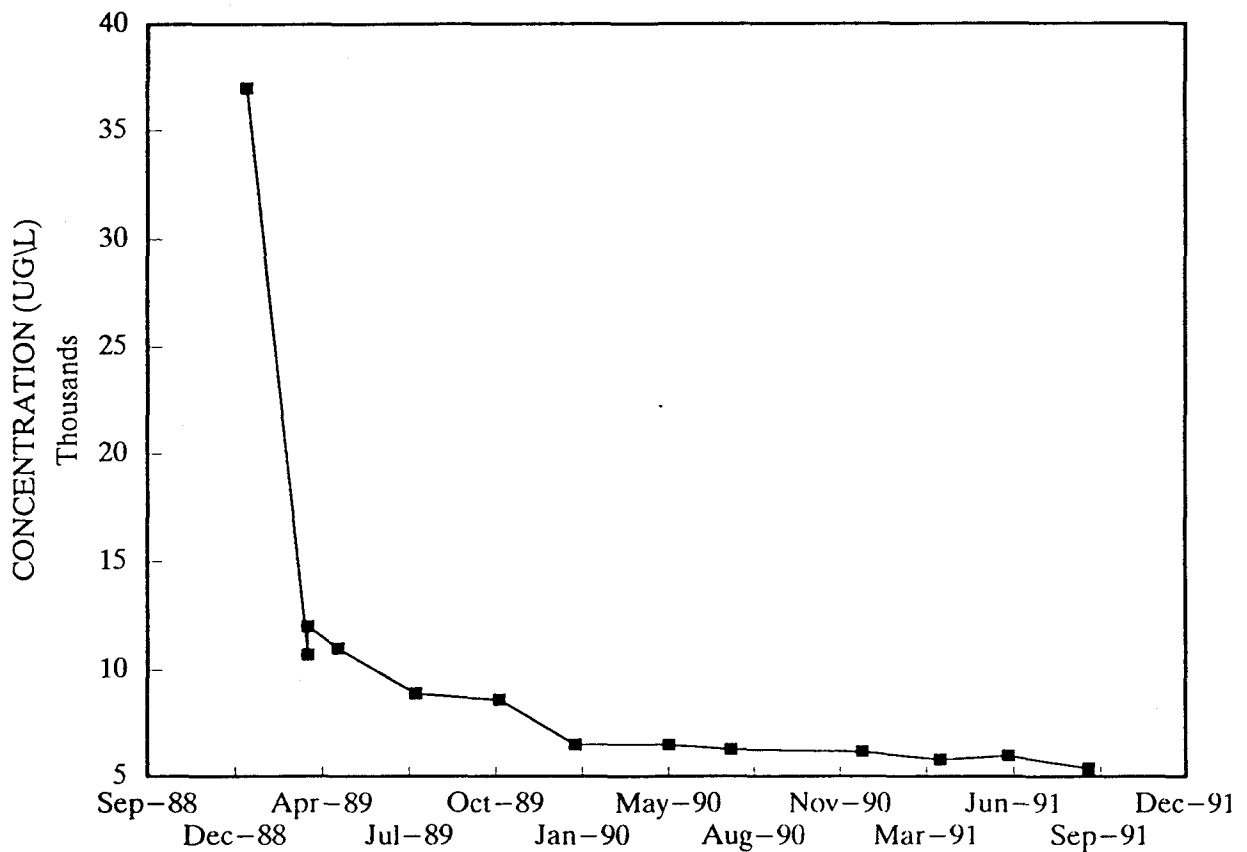
EXTRACTION WELL B12 – TRCLE vs. TIME



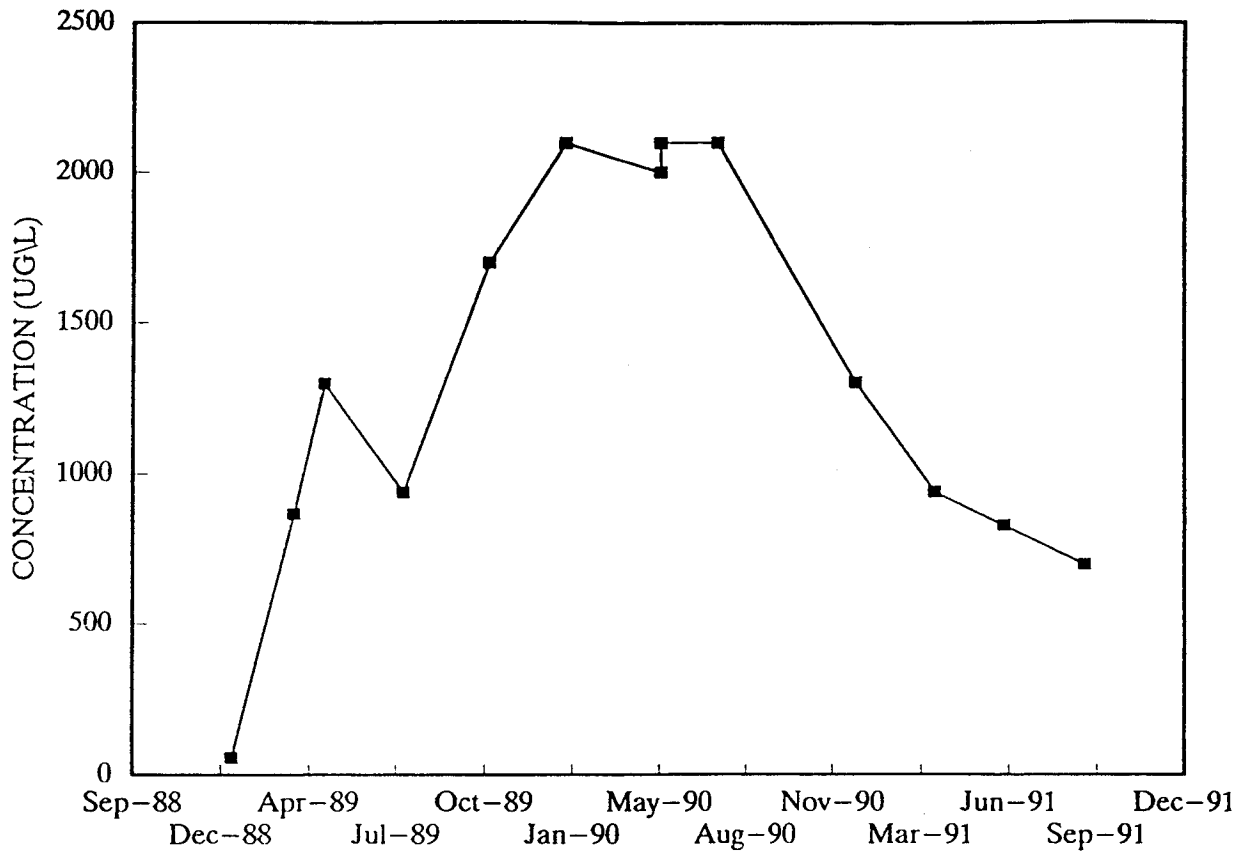
EXTRACTION WELL SC1 – TRCLE vs. TIME



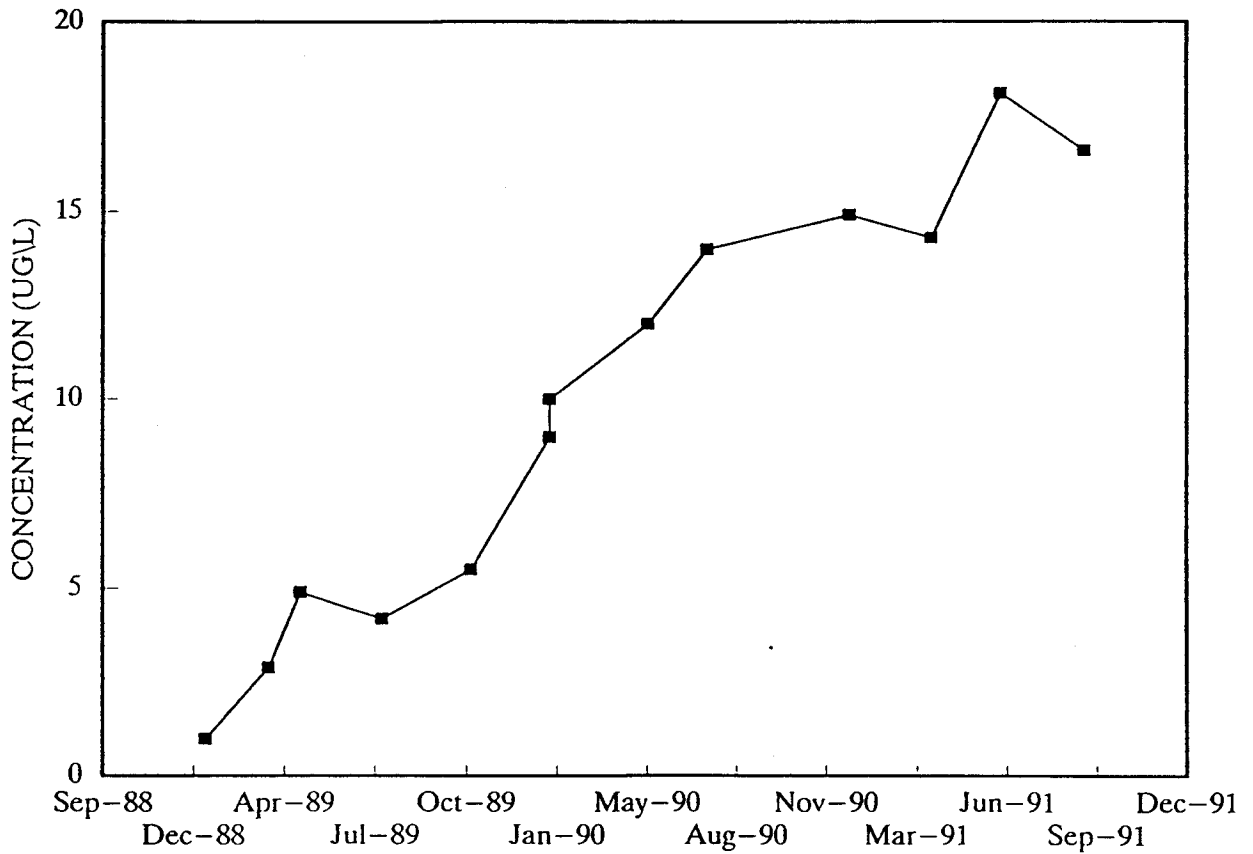
EXTRACTION WELL SC2 – TRCLE vs. TIME



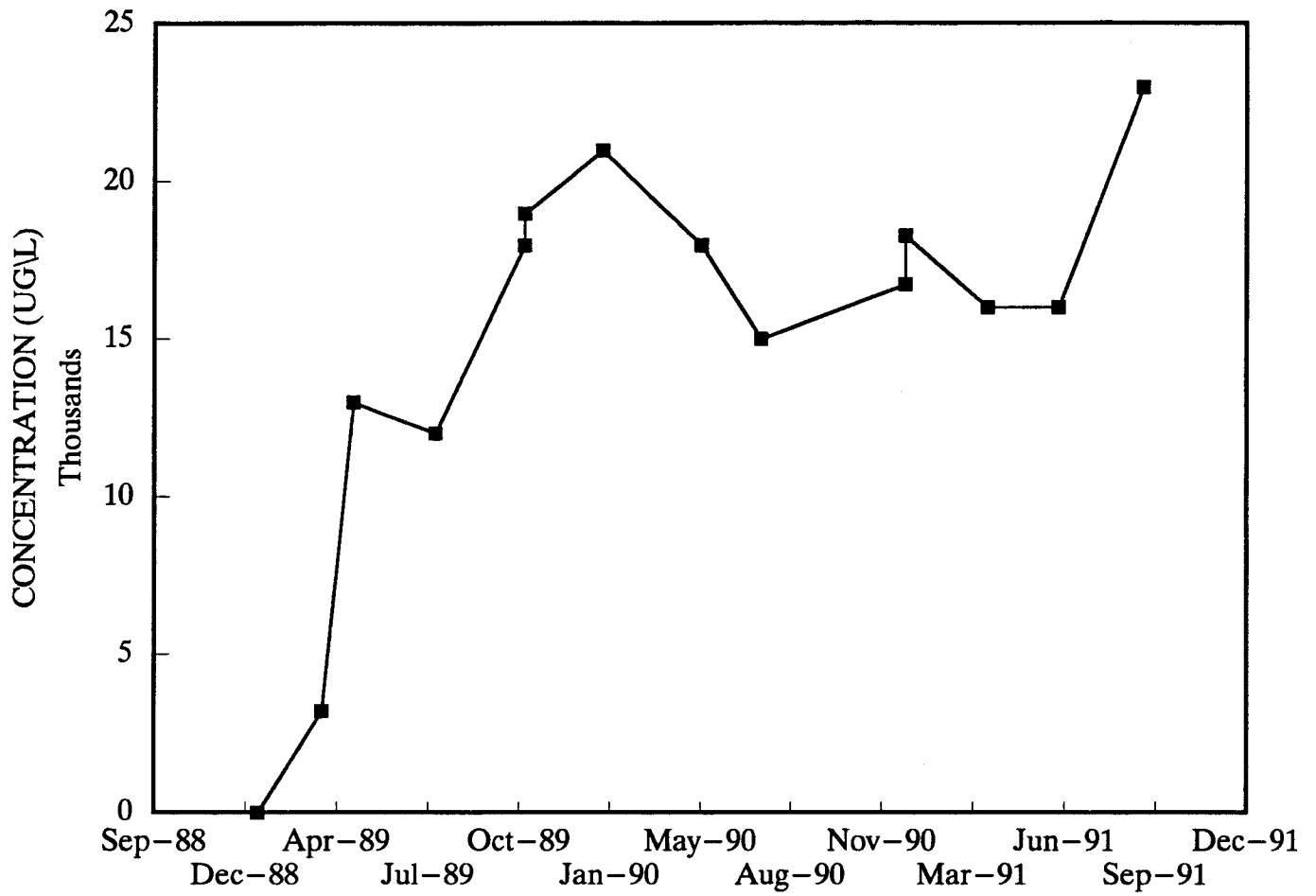
EXTRACTION WELL SC3 – TRCLE vs. TIME



EXTRACTION WELL SC4 – TRCLE vs. TIME



EXTRACTION WELL SC5 – TRCLE vs. TIME



Appendix G.2

1991 TGRS Influent/Effluent Database

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910111	111TCE		UG03	<	1.000		
TGRSE	910111	111TCE		UG03	<	1.000	D	
TGRSE	910111	112TCE		UG03	<	1.000		
TGRSE	910111	112TCE		UG03	<	1.000	D	
TGRSE	910111	11DCE		UG03	<	1.000		
TGRSE	910111	11DCE		UG03	<	1.000	D	
TGRSE	910111	11DCLE		UG03	<	.780		
TGRSE	910111	11DCLE		UG03	<	.780	D	
TGRSE	910111	12DCE		UG03	<	.500		
TGRSE	910111	12DCE		UG03	<	.500	D	
TGRSE	910111	12DCLE		UG03	<	.500		
TGRSE	910111	12DCLE		UG03	<	.500	D	
TGRSE	910111	12DCLP		UG03	<	1.000		
TGRSE	910111	12DCLP		UG03	<	1.000	D	
TGRSE	910111	AL		SS15	<	107.000		
TGRSE	910111	AS		SD08	<	6.010		
TGRSE	910111	BA		SD08		120.000		
TGRSE	910111	BA		SS15		105.000		
TGRSE	910111	BE		SS15	<	2.500		
TGRSE	910111	C2H3CL		UG03	<	1.900		
TGRSE	910111	C2H3CL		UG03	<	1.900	D	
TGRSE	910111	CA		SS15		50000.000		
TGRSE	910111	CCL4		UG03	<	1.300		
TGRSE	910111	CCL4		UG03	<	1.300	D	
TGRSE	910111	CD		SD08	<	.370		
TGRSE	910111	CD		SS15	<	5.000		
TGRSE	910111	CH2CL2		UG03	<	3.200		
TGRSE	910111	CH2CL2		UG03	<	3.200	D	
TGRSE	910111	CHCL3		UG03	<	.720		
TGRSE	910111	CHCL3		UG03	<	.720	D	
TGRSE	910111	CO		SS15	<	25.000		
TGRSE	910111	CR		SD08	<	2.500		
TGRSE	910111	CR		SS15	<	15.000		
TGRSE	910111	CU		SD08		5.230		
TGRSE	910111	CU		SS15	<	20.000		
TGRSE	910111	FE		SS15		550.000		
TGRSE	910111	HG		SB07	<	.740		
TGRSE	910111	K		SS15		2400.000		
TGRSE	910111	MG		SS15		24300.000		
TGRSE	910111	MN		SS15		1860.000		
TGRSE	910111	MO		SS15	<	30.900		
TGRSE	910111	NA		SS15		7350.000		
TGRSE	910111	NI		SD08	<	5.320		
TGRSE	910111	NI		SS15	<	63.100		
TGRSE	910111	P4		TY11		75.800		
TGRSE	910111	PB		SD08	<	1.260		
TGRSE	910111	PB		SS15	<	100.000		
TGRSE	910111	PO4ORT		TF15		34.700		
TGRSE	910111	SB		SS15	<	37.100		
TGRSE	910111	SE		SS15	<	75.000		
TGRSE	910111	TCLEE		UG03	<	1.000		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910111	TCLEE		UG03	<	1.000	D	
TGRSE	910111	TCLTFE		UG03	<	1.000		
TGRSE	910111	TCLTFE		UG03	<	1.000	D	
TGRSE	910111	TL		SS15	<	100.000		
TGRSE	910111	TRCLE		UG03		.933	D	
TGRSE	910111	TRCLE		UG03		1.130		
TGRSE	910111	V		SS15	<	20.000		
TGRSE	910111	ZN		SS15		31.500		
TGRSE	910213	111TCE		UG03	<	1.000		
TGRSE	910213	111TCE		UG03	<	1.000		
TGRSE	910213	112TCE		UG03	<	1.000		
TGRSE	910213	112TCE		UG03	<	1.000		
TGRSE	910213	11DCE		UG03	<	1.000		
TGRSE	910213	11DCE		UG03	<	1.000		
TGRSE	910213	11DCLE		UG03	<	.780		
TGRSE	910213	11DCLE		UG03	<	.780		
TGRSE	910213	12DCE		UG03	<	.500		
TGRSE	910213	12DCE		UG03	<	.500		
TGRSE	910213	12DCLE		UG03	<	.500		
TGRSE	910213	12DCLE		UG03	<	.500		
TGRSE	910213	12DCLP		UG03	<	1.000		
TGRSE	910213	12DCLP		UG03	<	1.000		
TGRSE	910213	BA		SS15		157.258		
TGRSE	910213	C2H3CL		UG03	<	1.900		
TGRSE	910213	C2H3CL		UG03	<	1.900		
TGRSE	910213	CCL4		UG03	<	1.300		
TGRSE	910213	CCL4		UG03	<	1.300		
TGRSE	910213	CD		SS15	<	5.000		
TGRSE	910213	CH2CL2		UG03	<	3.200		
TGRSE	910213	CH2CL2		UG03	<	3.200		
TGRSE	910213	CHCL3		UG03	<	.720		
TGRSE	910213	CHCL3		UG03	<	.720		
TGRSE	910213	CR		SS15	<	15.000		
TGRSE	910213	CU		SS15		37.149		
TGRSE	910213	HG		SB07	<	.740		
TGRSE	910213	NI		SD08	<	5.320		
TGRSE	910213	P4		TY11		43.500		
TGRSE	910213	PB		SD08	<	1.260		
TGRSE	910213	PO4ORT		TF15		26.800		
TGRSE	910213	TCLEE		UG03	<	1.000		
TGRSE	910213	TCLEE		UG03	<	1.000		
TGRSE	910213	TCLTFE		UG03	<	1.000		
TGRSE	910213	TCLTFE		UG03	<	1.000		
TGRSE	910213	TRCLE		UG03		.557		
TGRSE	910213	TRCLE		UG03		.621		
TGRSE	910213	ZN		SS15		53.917		
TGRSE	910219	AS		SD08	<	6.010		
TGRSE	910319	111TCE		UG03	<	1.000		
TGRSE	910319	111TCE		UG03	<	1.000		
TGRSE	910319	112TCE		UG03	<	1.000		
TGRSE	910319	112TCE		UM05	<	10.000	R	
TGRSE	910319	11DCE		UG03	<	1.000		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910319	11DCE		UG03	<	1.000		
TGRSE	910319	11DCLE		UG03	<	.780		
TGRSE	910319	11DCLE		UM05	<	10.000	R	
TGRSE	910319	124TCB		UM06	<	10.000	R	
TGRSE	910319	12DCE		UG03	<	.500		
TGRSE	910319	12DCE		UM05	<	10.000	R	
TGRSE	910319	12DCLB		UM06	<	10.000	R	
TGRSE	910319	12DCLE		UG03	<	.500		
TGRSE	910319	12DCLE		UG03	<	.500		
TGRSE	910319	12DCLP		UG03	<	1.000		
TGRSE	910319	12DCLP		UM05	<	10.000	R	
TGRSE	910319	13DCLB		UM06	<	10.000	R	
TGRSE	910319	14DCLB		UM06	<	10.000	R	
TGRSE	910319	245TCP		UM06	<	10.000	R	
TGRSE	910319	246TCP		UM06	<	10.000	R	
TGRSE	910319	24DCLP		UM06	<	10.000	R	
TGRSE	910319	24DMPN		UM06	<	10.000	R	
TGRSE	910319	24DNP		UM06	<	10.000	R	
TGRSE	910319	24DNT		UM06	<	10.000	R	
TGRSE	910319	26DNT		UM06	<	10.000	R	
TGRSE	910319	2CLP		UM06	<	10.000	R	
TGRSE	910319	2CNAP		UM06	<	10.000	R	
TGRSE	910319	2MNAP		UM06	<	10.000	R	
TGRSE	910319	2MP		UM06	<	10.000	R	
TGRSE	910319	2NANIL		UM06	<	10.000	R	
TGRSE	910319	2NP		UM06	<	10.000	R	
TGRSE	910319	33DCBD		UM06	<	10.000	R	
TGRSE	910319	3NANIL		UM06	<	10.000	R	
TGRSE	910319	46DN2C		UM06	<	10.000	R	
TGRSE	910319	4BRPPE		UM06	<	10.000	R	
TGRSE	910319	4CANIL		UM06	<	10.000	R	
TGRSE	910319	4CL3C		UM06	<	10.000	R	
TGRSE	910319	4CLPPE		UM06	<	10.000	R	
TGRSE	910319	4MP		UM06	<	10.000	R	
TGRSE	910319	4NANIL		UM06	<	10.000	R	
TGRSE	910319	4NP		UM06	<	10.000	R	
TGRSE	910319	ABHC		UH21	<	.043		
TGRSE	910319	ACET		UM05	<	10.000	R	
TGRSE	910319	ACLDAN		UH21	<	.020		
TGRSE	910319	AENSLF		UH21	<	.009		
TGRSE	910319	AL		SS15	<	107.000		
TGRSE	910319	ALDRN		UH21	<	.064		
TGRSE	910319	ANAPNE		UM06	<	10.000	R	
TGRSE	910319	ANAPYL		UM06	<	10.000	R	
TGRSE	910319	ANTRC		UM06	<	10.000	R	
TGRSE	910319	AS		SD08	<	6.010		
TGRSE	910319	B2CEXM		UM06	<	10.000	R	
TGRSE	910319	B2CIPE		UM06	<	10.000	R	
TGRSE	910319	B2CLEE		UM06	<	10.000	R	
TGRSE	910319	B2EHP		UM06	<	10.000	R	
TGRSE	910319	BA		SS15	<	415.000		
TGRSE	910319	BAANTR		UM06	<	10.000	R	

9/03/92

1991 TGRS INFLUENT/EFFLUENT DATABASE

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Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910319	BAPYR		UM06	<	10.000	R	
TGRSE	910319	BBFANT		UM06	<	10.000	R	
TGRSE	910319	BBHC		UH21	<	.011		
TGRSE	910319	BBZP		UM06	<	10.000	R	
TGRSE	910319	BE		SS15	<	2.500		
TGRSE	910319	BENSLF		UH21	<	.012		
TGRSE	910319	BENZOA		UM06	<	10.000	R	
TGRSE	910319	BGHIPY		UM06	<	10.000	R	
TGRSE	910319	BKFANT		UM06	<	10.000	R	
TGRSE	910319	BRDCLM		UM05	<	10.000	R	
TGRSE	910319	BZALC		UM06	<	10.000	R	
TGRSE	910319	C13DCP		UM05	<	10.000	R	
TGRSE	910319	C2AVE		UM05	<	10.000	R	
TGRSE	910319	C2H3CL		UG03	<	1.900		
TGRSE	910319	C2H3CL		UM05	<	10.000	R	
TGRSE	910319	C2H5CL		UM05	<	10.000	R	
TGRSE	910319	C6H6		UM05	<	10.000	R	
TGRSE	910319	CA		SS15		83000.000		
TGRSE	910319	CCL4		UG03	<	1.300		
TGRSE	910319	CCL4		UM05	<	10.000	R	
TGRSE	910319	CD		SS15	<	5.000		
TGRSE	910319	CH2CL2		UG03	<	3.200		
TGRSE	910319	CH2CL2		UG03	<	3.200		
TGRSE	910319	CH3BR		UM05	<	10.000	R	
TGRSE	910319	CH3CL		UM05	<	10.000	R	
TGRSE	910319	CHBR3		UM05	<	10.000	R	
TGRSE	910319	CHCL3		UG03	<	.720		
TGRSE	910319	CHCL3		UM05	<	10.000	R	
TGRSE	910319	CHRY		UM06	<	10.000	R	
TGRSE	910319	CL6BZ		UM06	<	10.000	R	
TGRSE	910319	CL6CP		UM06	<	10.000	R	
TGRSE	910319	CL6ET		UM06	<	10.000	R	
TGRSE	910319	CLC6H5		UM05	<	10.000	R	
TGRSE	910319	CO		SS15	<	25.000		
TGRSE	910319	CR		SS15	<	15.000		
TGRSE	910319	CS2		UM05	<	10.000	R	
TGRSE	910319	CU		SS15		113.000		
TGRSE	910319	CYN		TY03	<	8.170		
TGRSE	910319	DBAHA		UM06	<	10.000	R	
TGRSE	910319	DBHC		UH21	<	.049		
TGRSE	910319	DBRCLM		UM05	<	10.000	R	
TGRSE	910319	DBZFUR		UM06	<	10.000	R	
TGRSE	910319	DEP		UM06	<	10.000	R	
TGRSE	910319	DLDRN		UH21	<	.032		
TGRSE	910319	DMP		UM06	<	10.000	R	
TGRSE	910319	DNBP		UM06	<	10.000	R	
TGRSE	910319	DNOP		UM06	<	10.000	R	
TGRSE	910319	ENDRN		UH21	<	.037		
TGRSE	910319	ENDRNA		UH21	<	.070		
TGRSE	910319	ENDRNK		UH21	<	.028		
TGRSE	910319	ESFSO4		UH21	<	.020		
TGRSE	910319	ETC6H5		UM05	<	10.000	R	

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910319	FANT		UM06	<	10.000	R	
TGRSE	910319	FE		SS15		3010.000		
TGRSE	910319	FLRENE		UM06	<	10.000	R	
TGRSE	910319	GCLDAN		UH21	<	.045		
TGRSE	910319	HCBD		UM06	<	10.000	R	
TGRSE	910319	HG		SB07	<	.740		
TGRSE	910319	HPCL		UH21	<	.063		
TGRSE	910319	HPCLE		UH21	<	.006		
TGRSE	910319	ICDPYR		UM06	<	10.000	R	
TGRSE	910319	ISOPHR		UM06	<	10.000	R	
TGRSE	910319	K		SS15		2440.000		
TGRSE	910319	LIN		UH21	<	.043		
TGRSE	910319	MEC6H5		UM05	<	10.000	R	
TGRSE	910319	MEK		UM05	<	10.000	R	
TGRSE	910319	MEXCLR		UH21	<	.267		
TGRSE	910319	MG		SS15		26800.000		
TGRSE	910319	MIBK		UM05	<	10.000	R	
TGRSE	910319	MN		SS15		12000.000		
TGRSE	910319	MNBK		UM05	<	10.000	R	
TGRSE	910319	MO		SS15	<	30.900		
TGRSE	910319	NA		SS15		7510.000		
TGRSE	910319	NAP		UM06	<	10.000	R	
TGRSE	910319	NB		UM06	<	10.000	R	
TGRSE	910319	NI		SD08	<	5.320		
TGRSE	910319	NI		SS15	<	63.100		
TGRSE	910319	NNDNPA		UM06	<	10.000	R	
TGRSE	910319	NNDPA		UM06	<	10.000	R	
TGRSE	910319	P4		TY11		530.000		
TGRSE	910319	PB		SD08	<	1.260		
TGRSE	910319	PB		SS15	<	100.000		
TGRSE	910319	PCB016		UH21	<	.100	R	
TGRSE	910319	PCB221		UH21	<	.100	R	
TGRSE	910319	PCB232		UH21	<	.100	R	
TGRSE	910319	PCB242		UH21	<	.100	R	
TGRSE	910319	PCB248		UH21	<	.100	R	
TGRSE	910319	PCB254		UH21	<	.100	R	
TGRSE	910319	PCB260		UH21	<	.100	R	
TGRSE	910319	PCP		UM06	<	10.000	R	
TGRSE	910319	PHANTR		UM06	<	10.000	R	
TGRSE	910319	PHENOL		UM06	<	10.000	R	
TGRSE	910319	PPDDD		UH21	<	.085		
TGRSE	910319	PPDDE		UH21	<	.095		
TGRSE	910319	PPDDT		UH21	<	.032		
TGRSE	910319	PYR		UM06	<	10.000	R	
TGRSE	910319	SB		SS15	<	37.100		
TGRSE	910319	SE		SS15	<	75.000		
TGRSE	910319	STYR		UM05	<	10.000	R	
TGRSE	910319	T12DCE		UG03	<	.300	T	
TGRSE	910319	T12DCE		UG03	<	.300	T	
TGRSE	910319	T13DCP		UM05	<	10.000	R	
TGRSE	910319	TCLEA		UM05	<	10.000	R	
TGRSE	910319	TCLEE		UG03	<	1.000		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910319	TCLEE		UM05	<	10.000	R	
TGRSE	910319	TCLTFE		UG03	<	1.000		
TGRSE	910319	TCLTFE		UG03	<	1.000		
TGRSE	910319	TL		SS15	<	100.000		
TGRSE	910319	TRCLE		UG03		.695		
TGRSE	910319	TRCLE		UG03		.697		
TGRSE	910319	TXPHEN		UH21	<	.500	R	
TGRSE	910319	TXYLEN		UM05	<	10.000	R	
TGRSE	910319	V		SS15	<	20.000		
TGRSE	910319	ZN		SS15		164.000		
TGRSE	910321	HARD		00		295000.000		
TGRSE	910326	PO4ORT		TF15		33.800		
TGRSE	910410	111TCE		UG03	<	1.000		
TGRSE	910410	111TCE		UG03	<	1.000		
TGRSE	910410	112TCE		UG03	<	1.000		
TGRSE	910410	112TCE		UG03	<	1.000		
TGRSE	910410	11DCE		UG03	<	1.000		
TGRSE	910410	11DCE		UG03	<	1.000		
TGRSE	910410	11DCLE		UG03	<	.780		
TGRSE	910410	11DCLE		UG03	<	.780		
TGRSE	910410	12DCE		UG03	<	.500		
TGRSE	910410	12DCE		UG03	<	.500		
TGRSE	910410	12DCLE		UG03	<	.500		
TGRSE	910410	12DCLE		UG03	<	.500		
TGRSE	910410	12DCLP		UG03	<	1.000		
TGRSE	910410	12DCLP		UG03	<	1.000		
TGRSE	910410	AS		SD08	<	6.010		
TGRSE	910410	BA		SS15		141.000		
TGRSE	910410	C2H3CL		UG03	<	1.900		
TGRSE	910410	C2H3CL		UG03	<	1.900		
TGRSE	910410	CCL4		UG03	<	1.300		
TGRSE	910410	CCL4		UG03	<	1.300		
TGRSE	910410	CD		SS15	<	5.000		
TGRSE	910410	CH2CL2		UG03	<	3.200		
TGRSE	910410	CH2CL2		UG03	<	3.200		
TGRSE	910410	CHCL3		UG03	<	.720		
TGRSE	910410	CHCL3		UG03	<	.720		
TGRSE	910410	CR		SS15	<	15.000		
TGRSE	910410	CU		SS15		29.100		
TGRSE	910410	CYN		TY03	<	8.170		
TGRSE	910410	NI		SD08	<	5.320		
TGRSE	910410	P4		TY11		78.600		
TGRSE	910410	PB		SD08		1.510		
TGRSE	910410	PO4ORT		TF15		26.000		
TGRSE	910410	TCLEE		UG03	<	1.000		
TGRSE	910410	TCLEE		UG03	<	1.000		
TGRSE	910410	TCLTFE		UG03	<	1.000		
TGRSE	910410	TCLTFE		UG03	<	1.000		
TGRSE	910410	TRCLE		UG03		1.040		
TGRSE	910410	TRCLE		UG03	<	.500		
TGRSE	910410	ZN		SS15		311.000		
TGRSE	910507	111TCE		UG03	<	1.000		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910507	112TCE		UG03	<	1.000		
TGRSE	910507	11DCE		UG03	<	1.000		
TGRSE	910507	11DCLE		UG03	<	.780		
TGRSE	910507	12DCE		UG03	<	.500		
TGRSE	910507	12DCLE		UG03	<	.500		
TGRSE	910507	12DCLP		UG03	<	1.000		
TGRSE	910507	AG		SD08	<	.500		
TGRSE	910507	AS		SD08	<	6.010		
TGRSE	910507	BA		SS15		103.000		
TGRSE	910507	BE		SD08	<	.500		
TGRSE	910507	C2H3CL		UG03	<	1.900		
TGRSE	910507	CCL4		UG03	<	1.300		
TGRSE	910507	CD		SS15	<	5.000		
TGRSE	910507	CH2CL2		UG03	<	3.200		
TGRSE	910507	CHCL3		UG03	<	.720		
TGRSE	910507	CR		SS15	<	15.000		
TGRSE	910507	CU		SS15	<	20.000		
TGRSE	910507	CYN		TY03	<	8.170		
TGRSE	910507	MN		SD08		740.000		
TGRSE	910507	NI		SD08	<	5.320		
TGRSE	910507	NIT		TF13		315.000		
TGRSE	910507	P4		TY11		74.500		
TGRSE	910507	PB		SD08	<	1.260		
TGRSE	910507	PO4ORT		TF15		32.800		
TGRSE	910507	SB		SD08	<	25.500		
TGRSE	910507	SE		SD08	<	14.900		
TGRSE	910507	TCL		UG03	<	1.000		
TGRSE	910507	TCLTFE		UG03	<	1.000		
TGRSE	910507	TL		SD08	<	2.500		
TGRSE	910507	TRCLE		UG03		.708		
TGRSE	910507	ZN		SS15		21.400		
TGRSE	910604	111TCE		UG03	<	1.000		
TGRSE	910604	111TCE		UG03	<	1.000		
TGRSE	910604	112TCE		UG03	<	1.000		
TGRSE	910604	112TCE		UG03	<	1.000		
TGRSE	910604	11DCE		UG03	<	1.000		
TGRSE	910604	11DCE		UG03	<	1.000		
TGRSE	910604	11DCLE		UG03	<	.780		
TGRSE	910604	11DCLE		UG03	<	.780		
TGRSE	910604	12DCE		UG03		33.800		
TGRSE	910604	12DCE		UG03	<	.500		
TGRSE	910604	12DCLE		UG03	<	.500		
TGRSE	910604	12DCLE		UG03	<	.500		
TGRSE	910604	12DCLP		UG03	<	1.000		
TGRSE	910604	12DCLP		UG03	<	1.000		
TGRSE	910604	AL		SS15	<	107.000		
TGRSE	910604	AS		SD08	<	6.010		
TGRSE	910604	BA		SS15		92.700		
TGRSE	910604	BE		SS15	<	2.500		
TGRSE	910604	C2H3CL		UG03	<	1.900		
TGRSE	910604	C2H3CL		UG03	<	1.900		
TGRSE	910604	CA		SS15		63000.000		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910604	CCL4		UG03	<	1.300		
TGRSE	910604	CCL4		UG03	<	1.300		
TGRSE	910604	CD		SS15	<	5.000		
TGRSE	910604	CH2CL2		UG03	<	3.200		
TGRSE	910604	CH2CL2		UG03	<	3.200		
TGRSE	910604	CHCL3		UG03	<	.720		
TGRSE	910604	CHCL3		UG03	<	.720		
TGRSE	910604	CO		SS15	<	25.000		
TGRSE	910604	CR		SS15	<	15.000		
TGRSE	910604	CU		SS15	<	20.000		
TGRSE	910604	CYN		TY03	<	8.170		
TGRSE	910604	FE		SS15	<	120.000		
TGRSE	910604	HG		SB07	<	.740		
TGRSE	910604	K		SS15		2260.000		
TGRSE	910604	MG		SS15		24100.000		
TGRSE	910604	MN		SS15		686.000		
TGRSE	910604	MO		SS15	<	30.900		
TGRSE	910604	NA		SS15		6970.000		
TGRSE	910604	NI		SD08	<	5.320		
TGRSE	910604	NI		SS15	<	63.100		
TGRSE	910604	NIT		TF13		348.000		
TGRSE	910604	P4		TY11		35.100		
TGRSE	910604	PB		SD08	<	1.260		
TGRSE	910604	PB		SS15	<	100.000		
TGRSE	910604	PO4ORT		TF15		26.700		
TGRSE	910604	SB		SS15	<	37.100		
TGRSE	910604	SE		SD08	<	14.900		
TGRSE	910604	SE		SS15	<	75.000		
TGRSE	910604	T12DCE		UG03	<	.300	T	
TGRSE	910604	T12DCE		UG03	<	.300	T	
TGRSE	910604	TCLEE		UG03	<	1.000		
TGRSE	910604	TCLEE		UG03	<	1.000		
TGRSE	910604	TCLTFE		UG03	<	1.000		
TGRSE	910604	TCLTFE		UG03	<	1.000		
TGRSE	910604	TL		SD08	<	2.500		
TGRSE	910604	TL		SS15	<	100.000		
TGRSE	910604	TRCLE		UG03		.724		
TGRSE	910604	TRCLE		UG03		1.010		
TGRSE	910604	V		SS15	<	20.000		
TGRSE	910604	ZN		SS15		13.200		
TGRSE	910702	111TCE		UG03	<	1.000		
TGRSE	910702	111TCE		UG03	<	1.000		
TGRSE	910702	112TCE		UG03	<	1.000		
TGRSE	910702	112TCE		UG03	<	1.000		
TGRSE	910702	11DCE		UG03	<	1.000		
TGRSE	910702	11DCE		UG03	<	1.000		
TGRSE	910702	11DCLE		UG03	<	.780		
TGRSE	910702	11DCLE		UG03	<	.780		
TGRSE	910702	12DCE		UG03	<	.500		
TGRSE	910702	12DCE		UG03	<	.500		
TGRSE	910702	12DCLE		UG03	<	.500		
TGRSE	910702	12DCLE		UG03	<	.500		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910702	12DCLP		UG03	<	1.000		
TGRSE	910702	12DCLP		UG03	<	1.000		
TGRSE	910702	AL		SS15	<	107.000		
TGRSE	910702	AS		SD08	<	6.010		
TGRSE	910702	BA		SS15	<	215.000		
TGRSE	910702	BE		SS15	<	2.500		
TGRSE	910702	C2H3CL		UG03	<	1.900		
TGRSE	910702	C2H3CL		UG03	<	1.900		
TGRSE	910702	CA		SS15	<	64000.000		
TGRSE	910702	CCL4		UG03	<	1.300		
TGRSE	910702	CCL4		UG03	<	1.300		
TGRSE	910702	CD		SS15	<	5.000		
TGRSE	910702	CH2CL2		UG03	<	3.200		
TGRSE	910702	CH2CL2		UG03	<	3.200		
TGRSE	910702	CHCL3		UG03	<	.720		
TGRSE	910702	CHCL3		UG03	<	.720		
TGRSE	910702	CO		SS15	<	25.000		
TGRSE	910702	CR		SS15	<	15.000		
TGRSE	910702	CU		SS15	<	35.100		
TGRSE	910702	CYN		TY03	<	8.170		
TGRSE	910702	FE		SS15	<	3170.000		
TGRSE	910702	HG		SB07	<	.740		
TGRSE	910702	K		SS15	<	1930.000		
TGRSE	910702	MG		SS15	<	21500.000		
TGRSE	910702	MN		SS15	<	10000.000		
TGRSE	910702	MO		SS15	<	30.900		
TGRSE	910702	NA		SS15	<	6020.000		
TGRSE	910702	NI		SD08	<	5.320		
TGRSE	910702	NI		SS15	<	63.100		
TGRSE	910702	NIT		TF13	<	346.000		
TGRSE	910702	P4		TY11	<	61.400		
TGRSE	910702	PB		SD08	<	1.260		
TGRSE	910702	PB		SS15	<	100.000		
TGRSE	910702	SB		SS15	<	37.100		
TGRSE	910702	SE		SD08	<	14.900		
TGRSE	910702	SE		SS15	<	75.000		
TGRSE	910702	T12DCE		UG03	<	.300	T	
TGRSE	910702	T12DCE		UG03	<	.300	T	
TGRSE	910702	TCLEE		UG03	<	1.000		
TGRSE	910702	TCLEE		UG03	<	1.000		
TGRSE	910702	TCLTFE		UG03	<	1.000		
TGRSE	910702	TCLTFE		UG03	<	1.000		
TGRSE	910702	TL		SD08	<	2.500		
TGRSE	910702	TL		SS15	<	100.000		
TGRSE	910702	TRCLE		UG03	<	.773		
TGRSE	910702	TRCLE		UG03	<	.783		
TGRSE	910702	V		SS15	<	20.000		
TGRSE	910702	ZN		SS15	<	381.000		
TGRSE	910806	111TCE		UG03	<	1.000		
TGRSE	910806	111TCE		UG03	<	1.000		
TGRSE	910806	112TCE		UG03	<	1.000		
TGRSE	910806	112TCE		UG03	<	1.000		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910806	11DCE		UG03	<	1.000		
TGRSE	910806	11DCE		UG03	<	1.000		
TGRSE	910806	11DCLE		UG03	<	.780		
TGRSE	910806	11DCLE		UG03	<	.780		
TGRSE	910806	12DCE		UG03	<	.500		
TGRSE	910806	12DCE		UG03	<	.500		
TGRSE	910806	12DCLE		UG03	<	.500		
TGRSE	910806	12DCLE		UG03	<	.500		
TGRSE	910806	12DCLP		UG03	<	1.000		
TGRSE	910806	12DCLP		UG03	<	1.000		
TGRSE	910806	AG		SS15	<	13.000	T	
TGRSE	910806	AL		SS15		187.000		
TGRSE	910806	AS		SD08	<	6.010		
TGRSE	910806	BA		SS15		109.000		
TGRSE	910806	BE		SS15	<	2.500		
TGRSE	910806	C2H3CL		UG03	<	1.900		
TGRSE	910806	C2H3CL		UG03	<	1.900		
TGRSE	910806	CA		SS15		71000.000		
TGRSE	910806	CCL4		UG03	<	1.300		
TGRSE	910806	CCL4		UG03	<	1.300		
TGRSE	910806	CD		SS15	<	5.000		
TGRSE	910806	CH2CL2		UG03	<	3.200		
TGRSE	910806	CH2CL2		UG03	<	3.200		
TGRSE	910806	CHCL3		UG03	<	.720		
TGRSE	910806	CHCL3		UG03	<	.720		
TGRSE	910806	CO		SS15	<	25.000		
TGRSE	910806	CR		SS15	<	15.000		
TGRSE	910806	CU		SS15	<	20.000		
TGRSE	910806	CYN		TY03	<	8.170		
TGRSE	910806	CYN		TY03	<	8.170	D	
TGRSE	910806	FE		SS15		469.000		
TGRSE	910806	HG		SB07	<	.740		
TGRSE	910806	K		SS15		2270.000		
TGRSE	910806	MG		SS15		25600.000		
TGRSE	910806	MN		SS15		1710.000		
TGRSE	910806	MO		SS15	<	30.900		
TGRSE	910806	NA		SS15		7210.000		
TGRSE	910806	NI		SS15	<	63.100		
TGRSE	910806	P4		TY11		56.900		
TGRSE	910806	PB		SD08	<	1.260		
TGRSE	910806	PB		SS15	<	100.000		
TGRSE	910806	PO4ORT		TF15	<	10.300		
TGRSE	910806	SB		SS15	<	37.100		
TGRSE	910806	SE		SD08	<	14.900		
TGRSE	910806	SE		SS15	<	75.000		
TGRSE	910806	TCLEE		UG03	<	1.000		
TGRSE	910806	TCLEE		UG03	<	1.000		
TGRSE	910806	TCLTFE		UG03	<	1.000		
TGRSE	910806	TCLTFE		UG03	<	1.000		
TGRSE	910806	TL		SD08	<	2.500		
TGRSE	910806	TL		SS15	<	100.000		
TGRSE	910806	TRCLE		UG03		.971		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910806	TRCLE		UG03		1.140		
TGRSE	910806	V		SS15	<	20.000		
TGRSE	910806	ZN		SS15		857.000		
TGRSE	910808	PO4ORT		TF15		68.400		
TGRSE	910904	111TCE		UG03	<	1.000		
TGRSE	910904	111TCE		UG03	<	1.000		
TGRSE	910904	112TCE		UG03	<	1.000		
TGRSE	910904	112TCE		UG03	<	1.000		
TGRSE	910904	11DCE		UG03	<	1.000		
TGRSE	910904	11DCE		UG03	<	1.000		
TGRSE	910904	11DCLE		UG03	<	.780		
TGRSE	910904	11DCLE		UG03	<	.780		
TGRSE	910904	12DCE		UG03	<	.500		
TGRSE	910904	12DCE		UG03	<	.500		
TGRSE	910904	12DCLE		UG03	<	.500		
TGRSE	910904	12DCLE		UG03	<	.500		
TGRSE	910904	12DCLP		UG03	<	1.000		
TGRSE	910904	12DCLP		UG03	<	1.000		
TGRSE	910904	C2H3CL		UG03	<	1.900		
TGRSE	910904	C2H3CL		UG03	<	1.900		
TGRSE	910904	CCL4		UG03	<	1.300		
TGRSE	910904	CCL4		UG03	<	1.300		
TGRSE	910904	CH2CL2		UG03	<	3.200		
TGRSE	910904	CH2CL2		UG03	<	3.200		
TGRSE	910904	CHCL3		UG03	<	.720		
TGRSE	910904	CHCL3		UG03	<	.720		
TGRSE	910904	T12DCE		UG03	<	.300	R	
TGRSE	910904	T12DCE		UG03	<	.300	R	
TGRSE	910904	TCLEE		UG03	<	1.000		
TGRSE	910904	TCLEE		UG03	<	1.000		
TGRSE	910904	TCLTFE		UG03	<	1.000		
TGRSE	910904	TCLTFE		UG03	<	1.000		
TGRSE	910904	TRCLE		UG03		.893		
TGRSE	910904	TRCLE		UG03		3.480		
TGRSE	910905	AG		SS15	<	13.000	T	
TGRSE	910905	AS		SD08	<	6.010		
TGRSE	910905	BA		SS15		101.000		
TGRSE	910905	BE		SS15	<	2.500		
TGRSE	910905	CD		SS15	<	5.000		
TGRSE	910905	CO		SS15	<	25.000		
TGRSE	910905	CR		SS15	<	15.000		
TGRSE	910905	CU		SS15	<	20.000		
TGRSE	910905	CYN		TY03	<	8.170		
TGRSE	910905	HG		SB07	<	.740		
TGRSE	910905	MN		SS15		961.000		
TGRSE	910905	NI		SD08	<	5.320		
TGRSE	910905	NI		SS15	<	63.100		
TGRSE	910905	NIT		TF13		303.000		
TGRSE	910905	P4		TY11		36.500		
TGRSE	910905	PB		SD08	<	1.260		
TGRSE	910905	PB		SS15	<	100.000		
TGRSE	910905	PO4ORT		TF15		35.200		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSE	910905	SB		SS15	<	37.100		
TGRSE	910905	SE		SD08	<	14.900		
TGRSE	910905	SE		SS15	<	75.000		
TGRSE	910905	TL		SD08	<	2.500		
TGRSE	910905	TL		SS15	<	100.000		
TGRSE	910905	ZN		SS15		31.500		
TGRSI	910111	111TCE		UG03		370.000		
TGRSI	910111	112TCE		UG03	<	1.000		
TGRSI	910111	11DCE		UG03		39.000		
TGRSI	910111	11DCLE		UG03		38.300		
TGRSI	910111	12DCE		UG03		16.700		
TGRSI	910111	12DCLE		UG03		1.870		
TGRSI	910111	12DCLP		UG03	<	1.000		
TGRSI	910111	C2H3CL		UG03	<	1.900		
TGRSI	910111	CCL4		UG03	<	1.300		
TGRSI	910111	CH2CL2		UG03	<	3.200		
TGRSI	910111	CHCL3		UG03		1.320		
TGRSI	910111	TCLEE		UG03	<	1.000		
TGRSI	910111	TCLTFE		UG03		2.210		
TGRSI	910111	TRCLE		UG03		1700.000		
TGRSI	910213	111TCE		UG03		490.000		
TGRSI	910213	112TCE		UG03	<	100.000		
TGRSI	910213	11DCE		UG03	<	100.000		
TGRSI	910213	11DCLE		UG03	<	78.000		
TGRSI	910213	12DCE		UG03	<	50.000		
TGRSI	910213	12DCLE		UG03	<	50.000		
TGRSI	910213	12DCLP		UG03	<	100.000		
TGRSI	910213	C2H3CL		UG03	<	190.000		
TGRSI	910213	CCL4		UG03	<	130.000		
TGRSI	910213	CH2CL2		UG03	<	320.000		
TGRSI	910213	CHCL3		UG03	<	72.000		
TGRSI	910213	TCLEE		UG03	<	100.000		
TGRSI	910213	TCLTFE		UG03	<	100.000		
TGRSI	910213	TRCLE		UG03		2000.000		
TGRSI	910319	111TCE		UG03		440.000		
TGRSI	910319	112TCE		UG03	<	25.000		
TGRSI	910319	11DCE		UG03		38.000		
TGRSI	910319	11DCLE		UG03		34.000		
TGRSI	910319	12DCE		UG03		14.000		
TGRSI	910319	12DCLE		UG03	<	13.000		
TGRSI	910319	12DCLP		UG03	<	25.000		
TGRSI	910319	C2H3CL		UG03	<	48.000		
TGRSI	910319	CCL4		UG03	<	33.000		
TGRSI	910319	CH2CL2		UG03	<	80.000		
TGRSI	910319	CHCL3		UG03	<	18.000		
TGRSI	910319	T12DCE		UG03	<	7.500	T	
TGRSI	910319	TCLEE		UG03	<	25.000		
TGRSI	910319	TCLTFE		UG03	<	25.000		
TGRSI	910319	TRCLE		UG03		1600.000		
TGRSI	910410	111TCE		UG03		360.000		
TGRSI	910410	112TCE		UG03	<	50.000		
TGRSI	910410	11DCE		UG03	<	50.000		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSI	910410	11DCLE		UG03	<	39.000		
TGRSI	910410	12DCE		UG03	<	25.000		
TGRSI	910410	12DCLE		UG03	<	25.000		
TGRSI	910410	12DCLP		UG03	<	50.000		
TGRSI	910410	C2H3CL		UG03	<	95.000		
TGRSI	910410	CCL4		UG03	<	65.000		
TGRSI	910410	CH2CL2		UG03	<	160.000		
TGRSI	910410	CHCL3		UG03	<	36.000		
TGRSI	910410	T12DCE		UG03	<	750.000	T	
TGRSI	910410	TCLEE		UG03	<	50.000		
TGRSI	910410	TCLTFE		UG03	<	50.000		
TGRSI	910410	TRCLE		UG03		1300.000		
TGRSI	910507	111TCE		99		315.000		
TGRSI	910507	112TCE		99	<	2.000		
TGRSI	910507	11DCE		99		54.000		
TGRSI	910507	11DCLE		99		34.000		
TGRSI	910507	12DCE		99		14.400		
TGRSI	910507	12DCLE		99		1.940		
TGRSI	910507	12DCLP		99	<	2.000		
TGRSI	910507	C2H3CL		99	<	3.800		
TGRSI	910507	CCL4		99	<	2.600		
TGRSI	910507	CH2CL2		99	<	6.400		
TGRSI	910507	CHCL3		99	<	1.440		
TGRSI	910507	T12DCE		99	<	.600	T	
TGRSI	910507	TCLEE		99	<	2.000		
TGRSI	910507	TCLTFE		99	<	2.000		
TGRSI	910507	TRCLE		99		1300.000		
TGRSI	910604	111TCE		UG03		2900.000		
TGRSI	910604	112TCE		UG03	<	5.000		
TGRSI	910604	11DCE		UG03		41.000		
TGRSI	910604	11DCLE		UG03		34.000		
TGRSI	910604	12DCE		UG03		15.000		
TGRSI	910604	12DCLE		UG03		2.600		
TGRSI	910604	12DCLP		UG03	<	5.000		
TGRSI	910604	C2H3CL		UG03	<	9.500		
TGRSI	910604	CCL4		UG03	<	6.500		
TGRSI	910604	CH2CL2		UG03	<	16.000		
TGRSI	910604	CHCL3		UG03	<	3.600		
TGRSI	910604	T12DCE		UG03	<	1.500	T	
TGRSI	910604	TCLEE		UG03	<	5.000		
TGRSI	910604	TCLTFE		UG03		6.000		
TGRSI	910604	TRCLE		UG03		1300.000		
TGRSI	910702	111TCE		UG03		420.000		
TGRSI	910702	112TCE		UG03	<	50.000		
TGRSI	910702	11DCE		UG03	<	50.000		
TGRSI	910702	11DCLE		UG03	<	39.000		
TGRSI	910702	12DCE		UG03	<	25.000		
TGRSI	910702	12DCLE		UG03	<	25.000		
TGRSI	910702	12DCLP		UG03	<	50.000		
TGRSI	910702	C2H3CL		UG03	<	95.000		
TGRSI	910702	CCL4		UG03	<	65.000		
TGRSI	910702	CH2CL2		UG03	<	160.000		

Wellname	Date	Chemical	Lab	Method	Lt	Conc	Qual	Val
TGRSI	910702	CHCL3		UG03	<	36.000		
TGRSI	910702	T12DCE		UG03	<	15.000	T	
TGRSI	910702	TCLEE		UG03	<	50.000		
TGRSI	910702	TCLTFE		UG03	<	50.000		
TGRSI	910702	TRCLE		UG03		1600.000		
TGRSI	910806	111TCE		UG03		490.000		
TGRSI	910806	112TCE		UG03		1.260		
TGRSI	910806	11DCE		UG03		50.200		
TGRSI	910806	11DCLE		UG03		36.800		
TGRSI	910806	12DCE		UG03		16.100		
TGRSI	910806	12DCLE		UG03		2.220		
TGRSI	910806	12DCLP		UG03	<	1.000		
TGRSI	910806	C2H3CL		UG03	<	1.900		
TGRSI	910806	CCL4		UG03	<	1.300		
TGRSI	910806	CH2CL2		UG03	<	3.200		
TGRSI	910806	CHCL3		UG03		1.610		
TGRSI	910806	TCLEE		UG03		1.920		
TGRSI	910806	TCLTFE		UG03		2.550		
TGRSI	910806	TRCLE		UG03		2000.000		
TGRSI	910904	111TCE		UG03		490.000		
TGRSI	910904	112TCE		UG03	<	100.000		
TGRSI	910904	11DCE		UG03	<	100.000		
TGRSI	910904	11DCLE		UG03	<	78.000		
TGRSI	910904	12DCE		UG03	<	50.000		
TGRSI	910904	12DCLE		UG03	<	50.000		
TGRSI	910904	12DCLP		UG03	<	100.000		
TGRSI	910904	C2H3CL		UG03	<	190.000		
TGRSI	910904	CCL4		UG03	<	130.000		
TGRSI	910904	CH2CL2		UG03	<	320.000		
TGRSI	910904	CHCL3		UG03	<	72.000		
TGRSI	910904	T12DCE		UG03	<	30.000	R	
TGRSI	910904	TCLEE		UG03	<	100.000		
TGRSI	910904	TCLTFE		UG03	<	100.000		
TGRSI	910904	TRCLE		UG03		1900.000		

Appendix H

TGRS Operational Data

Appendix H.1

1991 TGRS Monthly Flow Reports

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: SEPTEMBER 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
08/31/91	149554400	135161710	146292610	149050300	83780300	311282100	209464200	189499300	122840900	183637200	287859000	29805780	108323290	92519100	83804700	180602100
09/01/91	149889400	135493110	146534300	149395600	84124900	311734300	209970100	189699400	123087700	184059600	288035200	30092670	108400800	92683400	83873800	180751300
09/02/91	150161000	135764470	146815910	149675900	84407800	312101400	210385400	189862000	123288200	184404700	288179400	30325090	108465520	92816600	83929500	180873400
09/03/91	150445300	136051640	147115540	149970500	84705200	312488800	210822600	190033100	123499400	184768800	288331200	30570300	108526650	92965600	83988200	181002400
09/04/91	150712600	136325290	147431080	150248300	84986400	312854200	211236300	190193900	123700200	185110700	288475600	30801270	108601270	93088400	84042700	181124900
09/05/91	150969600	136581840	147712630	150515400	85256200	313206300	211625500	190349100	123895200	185449400	288613400	31029670	108652460	93228300	84102400	181252600
09/06/91	151304600	136919350	148184580	150863900	85605300	313664300	212123300	190552000	124144900	185877300	288791700	31315720	108732720	93394500	84171900	181404700
09/07/91	151558200	137180820	148370780	151128800	85872400	314013500	212511000	190706300	124333300	186202400	288928900	31533690	108770090	93517900	84224200	181527300
09/08/91	151839800	137470350	148657870	151423000	86170200	314400300	212941200	190877500	124541300	186566400	289081000	31775100	108840090	93657500	84283400	181666300
09/09/91	152029400	137666060	148847250	151618600	86371800	314662000	213229900	190993400	124684200	186812900	289183700	31938760	108885820	93751000	84323200	181760100
09/10/91	152295300	137937220	149102790	151896300	86650200	315028700	213646100	191156200	124884400	187155500	289326300	32166060	108937580	93882200	84379000	181891600
09/11/91	152589700	138236580	149440850	152206100	86962400	315438600	214112100	191337200	125110000	187539600	289486600	32419510	109003630	94023100	84440800	182038700
09/12/91	152869600	138517390	149750090	152501300	87259000	315828400	214555500	191509900	125322100	187904200	289638400	32660680	109071170	94165600	84499800	182178800
09/13/91	153156800	138799790	150149590	152804100	87563200	316229300	215011600	191687500	125539900	188277700	289793400	32907990	109142390	94311900	84560400	182322800
09/14/91	153395400	139032920	150416940	153057400	87817800	316565100	215394500	191836000	125720800	188590200	289922400	33115490	109203130	94433100	84610500	182442000
09/15/91	153781700	139414150	150737560	153466400	88228800	317105600	216005300	192075800	126014300	189095500	290134600	33447990	109304250	94631000	84692600	182638500
09/16/91	153978400	139607620	150969590	153676600	88443300	317384400	216321900	192199100	126162700	189357300	290243800	33619690	109356920	94732200	84734300	182738500
09/17/91	154247100	139877970	151255770	153965000	88736500	317765700	216755400	192368200	126373800	189717300	290394400	33855560	109410490	94870500	84791600	182875400
09/18/91	154543900	279300	258800	154281500	89059000	318182200	217210900	192554200	126603400	190111600	290560100	268800	45300	95022600	84854900	183027100
09/19/91	154813000	578000	533400	154569300	89352200	318563500	217625900	192723300	126811300	190469500	290711000	521000	97000	95161400	84912600	183165500
09/20/91	155075200	870700	807200	154851600	89640300	318938200	218034800	192889500	127016100	190821800	290857600	768900	147100	95296600	84968600	183301100
09/21/91	155357000	1173100	1095200	155139600	89935500	319327000	218466800	193069500	127232100	191181800	291008800	1020900	197500	95433400	85026200	183445100
09/22/91	155609200	1472500	1404300	155429200	90231000	319708900	218909600	193230100	127440600	191550800	291159200	1277500	241500	95572200	85082200	183580300
09/23/91	155878500	1776700	1702500	155721300	90526800	320095300	219348400	193401200	127654100	191916800	291310500	1532700	292700	95711600	85139500	183721700
09/24/91	156141500	2075300	1996400	156007900	90819500	320477300	219782800	193570200	127860000	192279000	291460200	1785300	343200	95848200	85195700	183860300
09/25/91	156410900	2385300	2308100	156305100	91123400	320873600	220233900	193745400	128075700	192652800	291615700	2047300	395700	95989200	85253600	184003900
09/26/91	156683200	2702900	2628600	156609200	91434200	321279200	220695800	193925000	128295200	193036400	291775800	2315700	450400	96135200	85313500	184153400
09/27/91	156942600	3001600	2929800	156895300	91726800	321661700	221132000	194094100	128505900	193397400	291925000	2568500	502000	96273000	85369600	184293200
09/28/91	157225900	3333300	3263700	157212600	92051400	322086500	221615200	194281800	128738700	193797700	292091100	2849600	559600	96423900	85431400	184447800
09/29/91	157426800	3569300	3501200	157437700	92281000	322385600	221954800	194414700	128900000	194079000	292210200	3047200	601400	96533200	85476100	184560300
09/30/91	157630400	3812100	3738200	157664200	92518400	322694200	222306800	194551100	129072200	194374700	292330700	3251800	634400	96642400	85521000	184671700

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: SEPTEMBER 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
09/01/91	335000	331400	241690	345300	344600	452200	505900	200100	246800	422400	176200	286890	77510	164300	69100	149200	4348590
09/02/91	271600	271360	281610	280300	282900	367100	415300	162600	200500	345100	144200	232420	64720	133200	55700	122100	3630710
09/03/91	284300	287170	299630	294600	297400	387400	437200	171100	211200	364100	151800	245210	61130	149000	58700	129000	3828940
09/04/91	267300	273650	315540	277800	281200	365400	413700	160800	200800	341900	144400	230970	74620	122800	54500	122500	3647880
09/05/91	257000	256550	281550	267100	269800	352100	389200	155200	195000	338700	137800	228400	51190	139900	59700	127700	3506890
09/06/91	335000	337510	471950	348500	349100	458000	497800	202900	249700	427900	178300	286050	80260	166200	69500	152100	4610770
09/07/91	253600	261470	186200	264900	267100	349200	387700	154300	188400	325100	137200	217970	37370	123400	52300	122600	3328810
09/08/91	281600	289530	287090	294200	297800	386800	430200	171200	208000	364000	152100	241410	70000	139600	59200	139000	3811730
09/09/91	189600	195710	189380	195600	201600	261700	288700	115900	142900	246500	102700	163660	45730	93500	39800	93800	2566780
09/10/91	265900	271160	255540	277700	278400	366700	416200	162800	200200	342600	142600	227300	51760	131200	55800	131500	3577360
09/11/91	294400	299360	338060	309800	312200	409900	466000	181000	225600	384100	160300	253450	66050	140900	61800	147100	4050020
09/12/91	279900	280810	309240	295200	296600	389800	443400	172700	212100	364600	151800	241170	67540	142500	59000	140100	3846460
09/13/91	287200	282400	399500	302800	304200	400900	456100	177600	217800	373500	155000	247310	71220	146300	60600	144000	4026430
09/14/91	238600	233130	267350	253300	254600	335800	382900	148500	180900	312500	129000	207500	60740	121200	50100	119200	3295320
09/15/91	386300	381230	320620	409000	411000	540500	610800	239800	293500	505300	212200	332500	101120	197900	82100	196500	5220370
09/16/91	196700	193470	232030	210200	214500	278800	316600	123300	148400	261800	109200	171700	52670	101200	41700	100000	2752270
09/17/91	268700	270350	286180	288400	293200	381300	433500	169100	211100	360000	150600	235870	53570	138300	57300	136900	3734370
09/18/91	296800	321110	309700	316500	322500	416500	455500	186000	229600	394300	165700	272010	56530	152100	63300	151700	4109850
09/19/91	269100	298700	274600	287800	293200	381300	415000	169100	207900	357900	150900	252200	51700	138800	57700	138400	3744300
09/20/91	262200	292700	273800	282300	288100	374700	408900	166200	204800	352300	146600	247900	50100	135200	56000	135600	3677400
09/21/91	281800	302400	288000	288000	295200	388800	432000	180000	216000	360000	151200	252000	50400	136800	57600	144000	3824200
09/22/91	252200	299400	309100	289600	295500	381900	442800	160600	208500	369000	150400	256600	44000	138800	56000	135200	3789600
09/23/91	269300	304200	298200	292100	295800	386400	438800	171100	213500	366000	151300	255200	51200	139400	57300	141400	3831200
09/24/91	263000	298600	293900	286600	292700	382000	434400	169000	205900	362200	149700	252600	50500	136600	56200	138600	3772500
09/25/91	269400	310000	311700	297200	303900	396300	451100	175200	215700	373800	155500	262000	52500	141000	57900	143600	3916800
09/26/91	272300	317600	320500	304100	310800	405600	461900	179600	219500	383600	160100	268400	54700	146000	59900	149500	4014100
09/27/91	259400	298700	301200	286100	292600	382500	436200	169100	210700	361000	149200	252800	51600	137800	56100	139800	3784800
09/28/91	283300	331700	333900	317300	324600	424800	483200	187700	232800	400300	166100	281100	57600	150900	61800	154600	4191700
09/29/91	200900	236000	237500	225100	229600	299100	339600	132900	161300	281300	119100	197600	41800	109300	44700	112500	2968300
09/30/91	203600	242800	237000	226500	237400	308600	352000	136400	172200	295700	120500	204600	33000	109200	44900	111400	3035800
TOTAL	8076000	8570170	8752260	8613900	8738100	11412100	12842600	5051800	6231300	10737500	4471700	7304790	1732830	4123300	1716300	4069600	112444250

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: SEPTEMBER 1991

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)											
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM
08/31/91	788783000	312103000	693974000	503082000	558896000	755879000	-	-	-	-	-	-	-	-	-	-	-	-
09/01/91	790975000	314434000	695780000	505626000	561474000	757979000	2192000	2331000	4523000	2741	1806000	2544000	4350000	2636	2578000	2100000	4678000	2835
09/02/91	792774000	316329000	697234000	507722000	563600000	759695000	1799000	1895000	3694000	2736	1454000	2096000	3550000	2630	2126000	1716000	3842000	2846
09/03/91	794662000	318308000	698764000	509922000	565815000	761492000	1888000	1979000	3867000	2743	1530000	2200000	3730000	2645	2215000	1797000	4012000	2845
09/04/91	796459000	320204000	700227000	512009000	567965000	761492000	1797000	1896000	3693000	2736	1463000	2087000	3550000	2630	2150000	0	2150000	1593
09/05/91	798182000	322067000	701645000	514039000	570036000	762217000	1723000	1863000	3586000	2543	1418000	2030000	3448000	2445	2071000	725000	2796000	1983
09/06/91	800387000	324419000	703454000	516609000	572641000	764362000	2205000	2352000	4557000	2713	1809000	2570000	4379000	2607	2605000	2145000	4750000	2827
09/07/91	802066000	326196000	704831000	518555000	574622000	765991000	1679000	1777000	3456000	2743	1377000	1946000	3323000	2637	1981000	1629000	3610000	2865
09/08/91	803971000	328219000	706390000	520769000	576869000	767835000	1905000	2023000	3928000	2728	1559000	2214000	3773000	2620	2247000	1844000	4091000	2841
09/09/91	805234000	329559000	707437000	522234000	578370000	769063000	1263000	1340000	2603000	1771	1047000	1465000	2512000	1709	1501000	1228000	2729000	1856
09/10/91	807004000	331442000	708901000	524288000	580451000	770766000	1770000	1883000	3653000	2706	1464000	2054000	3518000	2606	2081000	1703000	3784000	2803
09/11/91	809006000	333550000	710534000	526609000	582809000	772693000	2002000	2108000	4110000	2740	1633000	2321000	3954000	2636	2358000	1927000	4285000	2857
09/12/91	810913000	335564000	712086000	528828000	585052000	774631000	1907000	2014000	3921000	2723	1552000	2219000	3771000	2619	2243000	1938000	4181000	2903
09/13/91	812855000	337627000	713690000	531080000	587346000	776405000	1942000	2063000	4005000	2840	1604000	2252000	3856000	2735	2294000	1774000	4068000	2885
09/14/91	814456000	339332000	715008000	532939000	589235000	777952000	1601000	1705000	3306000	2755	1318000	1859000	3177000	2648	1889000	1547000	3436000	2863
09/15/91	817100000	342140000	717184000	536006000	592360000	780510000	2644000	2808000	5452000	2712	2176000	3067000	5243000	2608	3125000	2558000	5683000	2827
09/16/91	818458000	343579000	718298000	537576000	593959000	781823000	1358000	1439000	2797000	2590	1114000	1570000	2684000	2485	1599000	1313000	2912000	2696
09/17/91	820297000	345535000	719810000	539711000	596135000	783605000	1839000	1956000	3795000	2691	1512000	2135000	3647000	2587	2176000	1782000	3958000	2807
09/18/91	822321000	347700000	721477000	542070000	598535000	785582000	2024000	2165000	4189000	2738	1667000	2359000	4026000	2631	2400000	1977000	4377000	2861
09/19/91	824178000	349680000	723009000	544228000	600728000	787387000	1857000	1980000	3837000	2721	1532000	2158000	3690000	2617	2193000	1805000	3998000	2835
09/20/91	825984000	351610000	724500000	546331000	602868000	789151000	1806000	1930000	3736000	2707	1491000	2103000	3594000	2604	2140000	1764000	3904000	2829
09/21/91	827914000	353583000	725940000	548659000	1890000	1872000	1930000	1973000	3903000	2710	1440000	2328000	3768000	2617	1890000	1872000	3762000	2613
09/22/91	829765000	355566000	727543000	550668000	4288000	3693000	1851000	1983000	3834000	2556	1603000	2009000	3612000	2408	2398000	1821000	4219000	2813
09/23/91	831658000	357576000	729094000	552837000	6501000	5602000	1893000	2010000	3903000	2710	1551000	2169000	3720000	2583	2213000	1909000	4122000	2863
09/24/91	833525000	359555000	730652000	554948000	8684000	7489000	1867000	1979000	3846000	2728	1558000	2111000	3669000	2602	2183000	1887000	4070000	2887
09/25/91	835454000	361589000	732253000	557136000	10942000	9441000	1929000	2034000	3963000	2752	1601000	2188000	3789000	2631	2258000	1952000	4210000	2924
09/26/91	837447000	363701000	733925000	559383000	13278000	11460000	1993000	2112000	4105000	2737	1672000	2247000	3919000	2613	2336000	2019000	4355000	2903
09/27/91	839315000	365679000	735482000	561488000	15475000	13352000	1868000	1978000	3846000	2728	1557000	2105000	3662000	2597	2197000	1892000	4089000	2900
09/28/91	841381000	367874000	737222000	563823000	17910000	15444000	2066000	2195000	4261000	2731	1740000	2335000	4075000	2612	2435000	2092000	4527000	2902
09/29/91	842869000	369456000	738475000	565500000	19665000	16950000	1488000	1582000	3070000	2693	1253000	1677000	2930000	2570	1755000	1506000	3261000	2861
09/30/91	844340000	371017000	739710000	567160000	21404000	18442000	1471000	1561000	3032000	2732	1235000	1660000	2895000	2608	1739000	1492000	3231000	2911
	55557000	58914000	45736000	64078000	65376000	51714000	55557000	58914000	114471000	2759	45736000	64078000	109814000	2647	65376000	51714000	117090000	2822

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: AUGUST 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
07/31/91	140255700	137218240	102969020	182460400	115230200	172284200	279430500	76476700	302494700	197175800	142648700	126819220	25179390	176891200	89422300	80602600
08/01/91	140525900	137516620	103253030	182750200	115532900	172654800	279834700	76649200	302701100	197530700	142793000	127073430	25234460	177015300	89475000	80754000
08/02/91	140802900	137811880	103545130	183043200	115835600	173031000	280193200	76824200	302919900	197889000	142938800	127333490	25295810	177154400	89534900	80920800
08/03/91	141099600	138124720	103861010	183353100	116154600	173427900	280616000	77008300	303146900	198264400	143092400	127605830	25355350	177287300	89590800	81082100
08/04/91	141347500	138385670	104129690	183616400	116426700	173765700	280975100	77164700	303342800	198584900	143223500	127837750	25404850	177400100	89638000	81219500
08/05/91	141635200	138688370	104440160	183919900	116739700	174155400	281387400	77345400	303568200	198957200	143374300	128105170	25460580	177530100	89692400	81377300
08/06/91	141923000	138985220	104745750	184218500	117050800	174538700	281797000	77523000	303790100	199320300	143522700	128368270	25527450	177658100	89745800	81533100
08/07/91	142189000	139269730	105020910	184504400	117348400	174906200	282187000	77693500	303998900	199670400	143664600	128620800	25591860	177780500	89797000	81681800
08/08/91	142479300	139593810	105329330	184826400	117665900	175318900	282673200	77885300	304234600	200063000	143825100	128902950	25663920	177917800	89854300	81849200
08/09/91	142756300	139885320	105610620	185118900	117956500	175694900	283116600	78059500	304449200	200421100	143970700	129160150	25729150	178042300	89906100	82001500
08/10/91	143024100	140168100	105890850	185409500	118246600	176067600	283556100	78232300	304664400	200774500	144114300	129415320	25793590	178165600	89957500	82153100
08/11/91	143300800	140459370	106178670	185707600	118542100	176449700	284000600	78409400	304884100	201138500	144261900	129676450	25859330	178292200	90010200	82308100
08/12/91	143579200	140757260	106470210	186012300	118844400	176841400	284456500	78591400	305104700	201513100	144412200	129943730	25925420	178421600	90064200	82466800
08/13/91	143865200	141072850	106771270	186329600	119159000	177248300	284933600	78780200	305337400	201902100	144570300	130221450	25992370	178555900	90120200	82632200
08/14/91	144115400	141346180	107034980	186605000	119433300	177601900	285347800	78944100	305538300	202238100	144707200	130463120	26049610	178672700	90168900	82775300
08/15/91	144983500	141647140	107325210	144409100	79232700	305919800	202688800	186799800	119671500	177984100	285546100	130736800	26108850	90295000	82859200	178791800
08/16/91	145261400	141918260	107582690	144687500	79503500	306280900	203099800	186960300	119868100	178320500	285677200	130977320	26170370	90429000	82915700	178897000
08/17/91	145579100	131270520	142233190	145006000	79811800	306692800	203565100	187144200	120091800	178706000	285830000	26417720	107624440	90581600	82980300	179017100
08/18/91	145897200	131575470	142561180	145325600	80121500	307106800	204033900	187328400	120314900	179092500	285982000	26684770	107686810	90735200	83044800	179138400
08/19/91	146190700	131854440	142861720	145621100	80407000	307489700	204465000	187499000	120522700	179449500	286119900	26930000	107744280	90876100	83104300	179247500
08/20/91	146470900	132125790	143151310	145904500	80680800	307858200	204881400	187662700	120717100	179795800	286262000	27166140	107799340	91012200	83161500	179363700
08/21/91	146792100	132439550	143479430	146230500	80997400	308281600	205360200	187851000	120944300	180193700	286427800	27436930	107860670	91167500	83226400	179499400
08/22/91	147080200	132710160	143714200	146502400	81277400	308661100	205778700	188023300	121042200	180548300	286573100	27681630	107861150	91304300	83286500	179520000
08/23/91	147389700	133005590	144060160	146816400	81582200	308716300	206225800	188207300	121264300	180915800	286727200	27943360	107924010	91456000	83352600	179650500
08/24/91	147654400	133261030	144354430	147085900	81830300	308716300	206603700	188365500	121450600	181235600	286853000	28172750	107979250	91586900	83410700	179762400
08/25/91	147852800	133459700	144583480	147290400	82034100	308985200	206909800	188484100	121598400	181488200	286957400	28344020	107979290	91682700	83451300	179847500
08/26/91	148157900	133765000	144937040	147604600	82348500	309397600	207376200	188666000	121828500	181877300	287119300	28604810	108029420	91832400	83514100	179983200
08/27/91	148468300	134073890	145271090	147933000	82669300	309823200	207826900	188851500	122038100	182273400	287286300	28877000	108093860	91988400	83581100	180123000
08/28/91	148721900	134325990	145368240	148192400	82925300	310160700	208202200	189002200	122223200	182588900	287418500	29091390	108146460	92111600	83633300	180233100
08/29/91	149086800	134696160	145713590	148567800	83298900	310651700	208755100	189220200	122493500	183048100	287611700	29403190	108223720	92290500	83708700	180394900
08/30/91	149305600	134917540	145933100	148793600	83522500	310944600	209082700	189350500	122653000	183325300	287728300	29591040	108271710	92398500	83754000	180492700
08/31/91	149554400	135161710	146292610	149050300	83780300	311282100	209464200	189499300	122840900	183637200	287859000	29805780	108323290	92519100	83804700	180602100

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: AUGUST 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
08/01/91	270200	298380	284010	289800	302700	370600	404200	172500	206400	354900	144300	254210	55070	124100	52700	151400	3735470
08/02/91	277000	295260	292100	293000	302700	376200	358500	175000	218800	358300	145800	260060	61350	139100	59900	166800	3779870
08/03/91	296700	312840	315880	309900	319000	396900	422800	184100	227000	375400	153600	272340	59540	132900	55900	161300	3996100
08/04/91	247900	260950	268680	263300	272100	337800	359100	156400	195900	320500	131100	231920	49500	112800	47200	137400	3392550
08/05/91	287700	302700	310470	303500	313000	389700	412300	180700	225400	372300	150800	267420	55730	130000	54400	157800	3913920
08/06/91	287800	296850	305590	298600	311100	383300	409600	177600	221900	363100	148400	263100	66870	128000	53400	155800	3871010
08/07/91	266000	284510	275160	285900	297600	367500	390000	170500	208800	350100	141900	252530	64410	122400	51200	148700	3677210
08/08/91	290300	324080	308420	322000	317500	412700	486200	191800	235700	392600	160500	282150	72060	137300	57300	167400	4158010
08/09/91	277000	291510	281290	292500	290600	376000	443400	174200	214600	358100	145600	257200	65230	124500	51800	152300	3795830
08/10/91	267800	282780	280230	290600	290100	372700	439500	172800	215200	353400	143600	255170	64440	123300	51400	151600	3754620
08/11/91	276700	291270	287820	298100	295500	382100	444500	177100	219700	364000	147600	261130	65740	126600	52700	155000	3845560
08/12/91	278400	297890	291540	304700	302300	391700	455900	182000	220600	374600	150300	267280	66090	129400	54000	158700	3925400
08/13/91	286000	315590	301060	317300	314600	406900	477100	188800	232700	389000	158100	277720	66950	134300	56000	165400	4087520
08/14/91	250200	273330	263710	275400	274300	353600	414200	163900	200900	336000	136900	241670	57240	116800	48700	143100	3549950
08/15/91	257900	300960	290230	316700	312700	409800	465200	181900	224700	384500	150900	273680	59240	143400	60000	125700	3957510
08/16/91	277900	271120	257480	278400	270800	361100	411000	160500	196600	336400	131100	246310	61520	134000	56500	105200	3555930
08/17/91	317700	299880	321240	318500	308300	411900	465300	183900	223700	385500	152800	246310	29800	152600	64600	120100	4002130
08/18/91	318100	304950	327990	319600	309700	414000	468800	184200	223100	386500	152000	267050	62370	153600	64500	121300	4077760
08/19/91	293500	278970	300540	295500	285500	382900	431100	170600	207800	357000	137900	245230	57470	140900	59500	109100	3753510
08/20/91	280200	271350	289590	283400	273800	368500	416400	163700	194400	346300	142100	236140	55060	136100	57200	116200	3630440
08/21/91	321200	313760	328120	326000	316600	423400	478800	188300	227200	397900	165800	270790	61330	155300	64900	135700	4175100
08/22/91	288100	270610	234770	271900	280000	379500	418500	172300	97900	354600	145300	244700	480	136800	60100	20600	3376160
08/23/91	309500	295430	345960	314000	304800	55200	447100	184000	222100	367500	154100	261730	62860	151700	66100	130500	3672580
08/24/91	264700	255440	294270	269500	248100	0	377900	158200	186300	319800	125800	229390	55240	130900	58100	111900	3085540
08/25/91	198400	198670	229050	204500	203800	268900	306100	118600	147800	252600	104400	171270	40	95800	40600	85100	2625630
08/26/91	305100	305300	353560	314200	314400	412400	466400	181900	230100	389100	161900	260790	50130	149700	62800	135700	4093480
08/27/91	310400	308890	334050	328400	320800	425600	450700	185500	209600	396100	167000	272190	64440	156000	67000	139800	4136470
08/28/91	253600	252100	97150	259400	256000	337500	375300	150700	185100	315500	132200	214390	52600	123200	52200	110100	3167040
08/29/91	364900	370170	345350	375400	373600	491000	552900	218000	270300	459200	193200	311800	77260	178900	75400	161800	4819180
08/30/91	218800	221380	219510	225800	223600	292900	327600	130300	159500	277200	116600	187850	47990	108000	45300	97800	2900130
08/31/91	248800	244170	359510	256700	257800	337500	381500	148800	187900	311900	130700	214740	51580	120600	50700	109400	3412300
TOTAL	8688500	8891090	8994330	9102500	9063400	11089800	13157900	5348800	6437700	11099900	4522300	7798260	1719630	4149000	1752100	4108700	115923910

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: AUGUST 1991

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)												
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM	
07/31/91	732417000	251364000	646952000	437508000	492111000	701234000	-	-	-	-	-	-	-	-	-	-	-	-	-
08/01/91	734238000	253315000	648459000	439632000	494266000	703002000	1821000	1951000	3772000	2675	1507000	2124000	3631000	2575	2155000	1768000	3923000	2782	
08/02/91	736060000	255325000	649986000	441795000	496452000	704789000	1822000	2010000	3832000	2505	1527000	2163000	3690000	2412	2186000	1787000	3973000	2597	
08/03/91	738000000	257409000	651589000	444068000	498752000	706673000	1940000	2084000	4024000	2683	1603000	2273000	3876000	2584	2300000	1884000	4184000	2789	
08/04/91	739658000	259186000	652956000	446001000	500711000	708276000	1658000	1777000	3435000	2726	1367000	1933000	3300000	2619	1959000	1603000	3562000	2827	
08/05/91	741561000	261233000	654532000	448223000	502966000	710122000	1903000	2047000	3950000	2687	1576000	2222000	3798000	2584	2255000	1846000	4101000	2790	
08/06/91	743448000	263254000	656084000	450432000	505199000	711946000	1887000	2021000	3908000	2714	1552000	2209000	3761000	2612	2233000	1824000	4057000	2817	
08/07/91	745226000	265182000	657568000	452516000	507314000	713675000	1778000	1928000	3706000	2686	1484000	2084000	3568000	2586	2115000	1729000	3844000	2786	
08/08/91	747250000	267360000	659243000	454877000	509714000	715634000	2024000	2178000	4202000	2694	1675000	2361000	4036000	2587	2400000	1959000	4359000	2794	
08/09/91	749097000	269338000	660764000	457030000	511898000	717416000	1847000	1978000	3825000	2713	1521000	2153000	3674000	2606	2184000	1782000	3966000	2813	
08/10/91	750926000	271293000	662280000	459157000	514061000	719180000	1829000	1955000	3784000	2742	1516000	2127000	3643000	2640	2163000	1764000	3927000	2846	
08/11/91	752194000	273307000	663823000	461346000	516281000	720990000	1268000	2014000	3282000	2279	1543000	2189000	3732000	2592	2220000	1810000	4030000	2799	
08/12/91	754692000	275365000	665421000	463558000	518543000	722832000	2498000	2058000	4556000	3099	1598000	2212000	3810000	2592	2262000	1842000	4104000	2792	
08/13/91	756661000	277501000	667064000	465866000	520892000	724747000	1969000	2136000	4105000	2683	1643000	2308000	3951000	2582	2349000	1915000	4264000	2787	
08/14/91	758379000	279358000	668496000	467866000	522933000	726407000	1718000	1857000	3575000	2708	1432000	2000000	3432000	2600	2041000	1660000	3701000	2804	
08/15/91	760236000	281484000	670135000	470066000	525093000	728328000	1857000	2126000	3983000	2553	1639000	2200000	3839000	2461	2160000	1921000	4081000	2616	
08/16/91	761951000	283335000	671558000	472069000	527127000	730037000	1715000	1851000	3566000	2702	1423000	2003000	3426000	2595	2034000	1709000	3743000	2836	
08/17/91	763882000	285439000	673167000	474336000	529430000	731909000	1931000	2104000	4035000	2690	1609000	2267000	3876000	2584	2303000	1872000	4175000	2783	
08/18/91	765859000	287574000	674809000	476645000	531777000	733822000	1977000	2135000	4112000	2688	1642000	2309000	3951000	2582	2347000	1913000	4260000	2784	
08/19/91	767652000	289530000	676303000	478755000	533919000	735565000	1793000	1956000	3749000	2717	1494000	2110000	3604000	2612	2142000	1743000	3885000	2815	
08/20/91	769412000	291429000	677759000	480804000	536007000	737267000	1760000	1899000	3659000	2710	1456000	2049000	3505000	2596	2088000	1702000	3790000	2807	
08/21/91	771503000	293546000	679432000	483181000	538422000	739233000	2091000	2117000	4208000	2697	1673000	2377000	4050000	2596	2415000	1966000	4381000	2808	
08/22/91	773330000	295132000	680887000	485017000	540367000	740816000	1827000	1586000	3413000	2528	1455000	1836000	3291000	2438	1945000	1583000	3528000	2613	
08/23/91	775056000	297195000	682484000	487061000	542524000	742573000	1726000	2063000	3789000	2578	1597000	2044000	3641000	2477	2157000	1757000	3914000	2663	
08/24/91	776462000	298961000	683845000	488759000	544333000	744047000	1406000	1766000	3172000	2517	1361000	1698000	3059000	2428	1809000	1474000	3283000	2606	
08/25/91	777724000	300297000	684883000	490225000	545818000	745252000	1262000	1336000	2598000	2706	1038000	1466000	2504000	2608	1485000	1205000	2690000	2802	
08/26/91	779779000	302425000	686517000	492611000	548209000	747199000	2055000	2128000	4183000	2789	1634000	2386000	4020000	2680	2391000	1947000	4338000	2892	
08/27/91	781730000	304597000	688192000	494874000	550570000	749113000	1951000	2172000	4123000	2695	1675000	2263000	3938000	2574	2361000	1914000	4275000	2794	
08/28/91	783316000	306329000	689524000	496732000	552464000	750659000	1586000	1732000	3318000	2633	1332000	1858000	3190000	2532	1894000	1546000	3440000	2730	
08/29/91	785707000	308864000	691480000	499499000	555283000	752949000	2391000	2535000	4926000	2737	1956000	2767000	4723000	2624	2819000	2290000	5109000	2838	
08/30/91	787167000	310404000	692664000	501204000	557000000	754344000	1460000	1540000	3000000	2703	1184000	1705000	2889000	2603	1717000	1395000	3112000	2804	
08/31/91	788783000	312103000	693974000	503082000	558896000	755879000	1616000	1699000	3315000	2302	1310000	1878000	3188000	2214	1896000	1535000	3431000	2383	
	56366000	60739000	47022000	65574000	66785000	54645000	56366000	60739000	117105000	2722	47022000	65574000	112596000	2617	66785000	54645000	121430000	2823	

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: JULY 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
06/30/91	132843600	128542830	94395500	173751200	105853800	160736300	266093500	71057700	295629200	186120800	138165200	118877100	23316800	173051000	87768600	75986300
07/01/91	133096100	128766860	94656330	174007100	106122100	161070600	266475800	71213000	295826800	186440000	138295300	119104830	23385820	173178900	87822800	76141300
07/02/91	133329100	129004390	94936630	174276700	106407200	161424000	266918500	71377000	296055700	186826700	138431600	119367430	23450190	173306800	87876900	76297500
07/03/91	133616500	129274890	95255490	174580800	106734400	161827500	267390500	71563800	296317800	187187600	138590700	119642110	23518870	173444000	87934500	76466500
07/04/91	133857200	129490550	95510810	174823400	106993600	162147200	267764200	71712100	296526500	187490700	138716600	119859300	23572670	173553200	87980000	76601000
07/05/91	134033400	129638260	95685100	174991800	107176300	162371500	268028700	71815000	296671300	187705900	138802800	120012980	23611430	173624300	88009400	76688900
07/06/91	134479800	130006750	96116770	175407400	107618700	162921600	268654000	72071200	297029100	188226700	139013800	120388660	23651860	173706300	88043600	76791700
07/07/91	134797700	130253840	96411290	175688700	107927700	163295500	269095500	72243300	297270300	188584400	139157700	120642610	23727150	173830200	88095500	76946600
07/08/91	135035800	130439370	96633500	175907600	108148800	163571800	269408300	72370300	297448600	188850300	139267000	120829390	23785770	173923400	88134500	77063800
07/09/91	135313000	130695040	96937280	176209900	108460400	163955600	269861600	72547700	297696600	189215900	139417700	121089420	23845660	174051800	88188500	77223300
07/10/91	135610100	130982470	97254040	176523600	108782700	164354100	270327800	72731700	297931500	189594600	139572300	121360050	23909800	174185000	88244800	77388100
07/11/91	135873100	131278180	97504980	176788400	109062200	164698600	270728900	72890000	298130100	189924000	139708100	121594240	23965630	174299000	88293300	77530600
07/12/91	136146200	131557350	97760230	177058200	109349600	165051600	271141000	73053800	298333600	190263800	139847400	121834860	24025040	174421900	88346100	77679100
07/13/91	136443300	131887300	98064730	177367800	109668800	165444800	271599400	73234900	298560400	190635700	139999500	122101870	24091470	174554900	88402500	77835800
07/14/91	136650400	132119300	98272880	177676900	110017200	165886200	272092000	73447100	298806500	191045600	140163500	122407750	24163980	174706300	88470500	78002500
07/15/91	136697100	132339000	98458740	177954200	110291000	166231700	272469800	73613600	299000500	191369700	140294500	122646460	24221650	174824500	88524600	78136600
07/16/91	136984700	132642850	98725870	178211500	110593600	166604700	272895400	73787100	299214400	191724800	140439600	122901220	24282510	174951900	88579500	78288200
07/17/91	137275600	132968490	99001770	178484900	110906000	166932900	273338900	73967800	299437200	192092000	140590300	123166880	24344880	175083300	88636800	78444700
07/18/91	137563700	133309930	99296520	178783800	111219500	167314600	273779300	74143300	299659800	192457400	140741100	123425710	24403550	175211700	88691100	78599400
07/19/91	137642700	133671530	99621520	179117100	111556400	167733700	274238000	74341300	299893300	192853100	140902800	123713920	24469240	175354500	88754300	78768700
07/20/91	137649400	133987780	99902690	179402000	111841900	168092400	274633000	74511300	300095800	193187900	141038000	123961130	24522440	175475500	88808000	78910600
07/21/91	137963500	134384350	100255830	179759100	112208800	168545700	275138900	74721700	300349700	193620700	141215600	124270050	24588820	175629200	88873700	79097400
07/22/91	138007000	134643200	100511800	180026500	112475600	168882000	275507200	74881800	300539300	193940400	141343200	124501610	24635880	175743100	88924200	79232400
07/23/91	138031300	134936250	100790620	180317100	112765000	169253100	275914100	75055900	300740100	194287000	141482700	124757540	24685380	175867400	88979400	79379400
07/24/91	138307100	135187950	101036570	180586700	113045900	169594900	276313200	75217100	300938100	194614000	141617100	124990530	24742720	175985200	89030500	79521100
07/25/91	138518700	135400140	101225220	180878000	113338900	169960900	276729600	75391200	301147700	194956000	141756700	125241370	24807110	176113500	89087500	79671000
07/26/91	138811900	135678200	101495980	181105300	113656700	170352700	277176100	75576100	301374300	195329200	141907800	125507610	24872870	176242900	89144400	79824400
07/27/91	139102800	135998790	101797280	181383800	113982800	170752000	277646700	75762300	301606400	195707700	142060300	125774830	24938750	176377500	89202200	79985600
07/28/91	139371700	136295980	102077330	181651000	114283100	171120600	278080800	75933700	301825000	196060500	142201000	126024270	24998490	176500900	89255000	80135100
07/29/91	139712700	136658930	102429610	181955000	114653800	171577400	278597100	76147600	302086000	196497000	142375500	126336160	25070500	176654800	89321600	80317600
07/30/91	139964800	136916820	102679740	182185600	114920300	171904500	278983300	76300100	302273500	196810500	142502000	126559360	25121640	176764800	89368700	80449200
07/31/91	140255700	137218240	102969020	182460400	115230200	172284200	279430500	76476700	302494700	197175800	142648700	126819220	25179390	176891200	89422300	80602600

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: JULY 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
07/01/91	252500	224030	260830	255900	268300	334300	382300	155300	197600	319200	130100	227730	69020	127900	54200	155000	3414210
07/02/91	233000	237530	280300	269600	285100	353400	442700	164000	228900	386700	136300	262600	64370	127900	54100	156200	3682700
07/03/91	287400	270500	318860	304100	327200	403500	472000	186800	262100	360900	159100	274680	68680	137200	57600	169000	4059620
07/04/91	240700	215660	255320	242600	259200	319700	373700	148300	208700	303100	125900	217190	53800	109200	45500	134500	3253070
07/05/91	176200	147710	174290	168400	182700	224300	264500	102900	144800	215200	86200	153680	38760	71100	29400	87900	2268040
07/06/91	446400	368490	431670	415600	442400	550100	625300	256200	357800	520800	211000	375680	40430	82000	34200	102800	5260870
07/07/91	317900	247090	294520	281300	309000	373900	441500	172100	241200	357700	143900	253950	75290	123900	51900	154900	3840050
07/08/91	238100	185530	222210	218900	221100	276300	312800	127000	178300	265900	109300	186780	58620	93200	39000	117200	2850240
07/09/91	277200	255670	303780	302300	311600	383800	453300	177400	248000	365600	150700	260030	59890	128400	54000	159500	3891170
07/10/91	297100	287430	316760	313700	322300	398500	466200	184000	234900	378700	154600	270630	64140	133200	56300	164800	4043260
07/11/91	263000	295710	250940	264800	279500	344500	401100	158300	198600	329400	135800	234190	55830	114000	48500	142500	3516670
07/12/91	273100	279170	255250	269800	287400	353000	412100	163800	203500	339800	139300	240620	59410	122900	52800	148500	3600450
07/13/91	297100	329950	304500	309600	319200	393200	458400	181100	226800	371900	152100	267010	66430	133000	56400	156700	4023390
07/14/91	207100	232000	208150	309100	348400	441400	492600	212200	246100	409900	164000	305880	72510	151400	68000	166700	4035440
07/15/91	46700	219700	185860	277300	273800	345500	377800	166500	194000	324100	131000	238710	57670	118200	54100	134100	3145040
07/16/91	287600	303850	267130	257300	302600	373000	425600	173500	213900	355100	145100	254760	60860	127400	54900	151600	3754200
07/17/91	290900	325640	275900	273400	312400	328200	443500	180700	222800	367200	150700	265660	62370	131400	57300	156500	3844570
07/18/91	288100	341440	294750	298900	313500	381700	440400	175500	222600	365400	150800	258830	60470	128400	54300	154700	3929790
07/19/91	79000	361600	325000	333300	336900	419100	458700	198000	233500	395700	161700	288210	63890	142800	63200	169300	4029900
07/20/91	6700	316250	281170	284900	285500	358700	395000	170000	202500	334800	135200	247210	53200	121000	53700	141900	3387730
07/21/91	314100	396570	353140	357100	366900	453300	505900	210400	253900	432800	177600	308920	66380	153700	65700	186800	4603210
07/22/91	43500	258850	255970	267400	266800	336300	368300	160100	189600	319700	127600	231560	47060	113900	50500	135000	3172140
07/23/91	24300	293050	278820	290600	289400	371100	406900	174100	200800	346600	139500	255930	49500	124300	55200	147000	3447100
07/24/91	275800	251700	245950	269600	280900	341800	399100	161200	198000	327000	134400	232990	57340	117800	51100	141700	3486380
07/25/91	211600	212190	188650	291300	293000	366000	416400	174100	209600	342000	139600	250840	64390	128300	57000	149900	3494870
07/26/91	293200	278060	270760	227300	317800	391800	446500	184900	226600	373200	151100	266240	65760	129400	56900	153400	3832920
07/27/91	290900	320590	301300	278500	326100	399300	470600	186200	232100	378500	152500	267220	65880	134600	57800	161200	4023290
07/28/91	268900	297190	280050	267200	300300	368600	434100	171400	218600	352800	140700	249440	59740	123400	52800	149500	3734720
07/29/91	341000	362950	352280	304000	370700	456800	516300	213900	261000	436500	174500	311890	72010	153900	66600	182500	4576830
07/30/91	252100	257890	250130	230600	266500	327100	386200	152500	187500	313500	126500	223200	51140	110000	47100	131600	3313560
07/31/91	290900	301420	289280	274800	309900	379700	447200	176600	221200	365300	146700	259860	57750	126400	53600	153400	3854010
TOTAL	7412100	8675410	8573520	8709200	9376400	11547900	13337000	5419000	6865500	11055000	4483500	7942120	1862590	3840200	1653700	4616300	115369440

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: JULY 1991

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)											
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM
06/30/91	676321000	191137000	600724000	372050000	425696000	646690000	-	-	-	-	-	-	-	-	-	-	-	-
07/01/91	677966000	192917000	602062000	373981000	427656000	648282000	1645000	1780000	3425000	2429	1338000	1931000	3269000	2318	1960000	1592000	3552000	2519
07/02/91	679735000	194810000	603477000	376064000	429747000	649997000	1769000	1893000	3662000	2597	1415000	2083000	3498000	2481	2091000	1715000	3806000	2699
07/03/91	681660000	196943000	605099000	378406000	432124000	651847000	1925000	2133000	4058000	2652	1622000	2342000	3964000	2591	2377000	1850000	4227000	2763
07/04/91	683390000	198657000	606386000	380315000	434030000	653514000	1730000	1714000	3444000	2800	1287000	1909000	3196000	2598	1906000	1667000	3573000	2905
07/05/91	684477000	199780000	607242000	381567000	435303000	654558000	1087000	1123000	2210000	1535	856000	1252000	2108000	1464	1273000	1044000	2317000	1609
07/06/91	687005000	202633000	609233000	384698000	438371000	657080000	2528000	2853000	5381000	2638	1991000	3131000	5122000	2511	3068000	2522000	5590000	2740
07/07/91	688901000	204590000	610737000	386883000	440575000	658886000	1896000	1957000	3853000	2733	1504000	2185000	3689000	2616	2204000	1806000	4010000	2844
07/08/91	690337000	206063000	611857000	388545000	442232000	660247000	1436000	1473000	2909000	2770	1120000	1662000	2782000	2650	1657000	1361000	3018000	2874
07/09/91	692259000	208075000	613367000	390818000	444483000	662092000	1922000	2012000	3934000	2732	1510000	2273000	3783000	2627	2251000	1845000	4096000	2844
07/10/91	694266000	210157000	614921000	393192000	446826000	664016000	2007000	2082000	4089000	2726	1554000	2374000	3928000	2619	2343000	1924000	4267000	2845
07/11/91	696064000	211901000	616286000	395229000	448854000	665678000	1798000	1744000	3542000	2746	1365000	2037000	3402000	2637	2028000	1662000	3690000	2860
07/12/91	698107000	213475000	617791000	397204000	450919000	667369000	2043000	1574000	3617000	2411	1505000	1975000	3480000	2320	2065000	1691000	3756000	2504
07/13/91	700125000	215560000	619389000	399551000	453261000	669290000	2018000	2085000	4103000	2735	1598000	2347000	3945000	2630	2342000	1921000	4263000	2842
07/14/91	701863000	217803000	621057000	401723000	455536000	671159000	1738000	2243000	3981000	2504	1668000	2172000	3840000	2415	2275000	1869000	4144000	2606
07/15/91	703219000	219563000	622390000	403385000	457310000	672616000	1356000	1760000	3116000	2473	1333000	1662000	2995000	2377	1774000	1457000	3231000	2564
07/16/91	705148000	221447000	623868000	405571000	459491000	674411000	1929000	1884000	3813000	2648	1478000	2186000	3664000	2544	2181000	1795000	3976000	2761
07/17/91	707084000	223370000	625384000	407775000	461690000	676214000	1936000	1923000	3859000	2680	1516000	2204000	3720000	2583	2199000	1803000	4002000	2779
07/18/91	709020000	225367000	626920000	410019000	463956000	678060000	1936000	1997000	3933000	2731	1536000	2244000	3780000	2625	2266000	1846000	4112000	2856
07/19/91	710946000	227564000	628621000	412290000	466293000	679996000	1926000	2197000	4123000	2643	1701000	2271000	3972000	2546	2337000	1936000	4273000	2739
07/20/91	712518000	229410000	630008000	414188000	468240000	681599000	1572000	1846000	3418000	2589	1387000	1898000	3285000	2489	1947000	1603000	3550000	2689
07/21/91	714799000	231811000	631865000	416832000	470915000	683802000	2281000	2401000	4682000	2738	1857000	2644000	4501000	2632	2675000	2203000	4878000	2853
07/22/91	716258000	233531000	633165000	418593000	472724000	685297000	1459000	1720000	3179000	2523	1300000	1761000	3061000	2429	1809000	1495000	3304000	2622
07/23/91	717826000	235411000	634590000	420484000	474690000	686917000	1568000	1880000	3448000	2554	1425000	1891000	3316000	2456	1966000	1620000	3586000	2656
07/24/91	719502000	237281000	636059000	422435000	476708000	688574000	1676000	1870000	3546000	2412	1469000	1951000	3420000	2327	2018000	1657000	3675000	2500
07/25/91	721157000	239165000	637552000	424347000	478728000	690235000	1655000	1884000	3539000	2564	1493000	1912000	3405000	2467	2020000	1661000	3681000	2667
07/26/91	722967000	241221000	639140000	426477000	480929000	692047000	1810000	2056000	3866000	2630	1588000	2130000	3718000	2529	2201000	1812000	4013000	2730
07/27/91	724946000	243330000	641768000	428782000	483262000	693966000	1979000	2109000	4088000	2725	2628000	2305000	4933000	3289	2333000	1919000	4252000	2835
07/28/91	726773000	245266000	642259000	430910000	485410000	695733000	1827000	1936000	3763000	2727	491000	2128000	2619000	1898	2148000	1767000	3915000	2837
07/29/91	728940000	247655000	644104000	433454000	488012000	697870000	2167000	2389000	4556000	2664	1845000	2544000	4389000	2567	2602000	2137000	4739000	2771
07/30/91	730539000	249379000	645426000	435321000	489906000	699426000	1599000	1724000	3323000	2702	1322000	1867000	3189000	2593	1894000	1556000	3450000	2805
07/31/91	732417000	251364000	646952000	437508000	492111000	701234000	1878000	1985000	3863000	2740	1526000	2187000	3713000	2633	2205000	1808000	4013000	2846
	56096000	60227000	46228000	65458000	66415000	54544000	56096000	60227000	116323000	2710	46228000	65458000	111686000	2602	66415000	54544000	120959000	2818

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: JUNE 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
05/31/91	123699800	121287330	85545430	164906500	96783900	149185300	253279600	65852900	289078700	175178100	133695700	110970410	21353140	169161300	86144100	71313000
06/01/91	124009000	121552700	85819550	165184700	97072500	149550800	253680800	66022900	289287900	175524700	133839600	111220990	21415680	169286100	86195700	71463200
06/02/91	124342000	121838440	86118610	165487300	97384300	149945400	254115200	66206200	289513600	175900000	133994000	111491240	21482220	169420200	86251100	71625500
06/03/91	124714500	122167710	86453200	165838700	97743000	150401700	254616200	66418000	289773900	176333000	134171600	111804260	21557960	169574200	86314600	71811300
06/04/91	125008600	122416640	86713180	166101400	98012700	150743000	254991400	66576700	289969200	176656400	134305600	112037320	21614680	169691200	86362900	71954100
06/05/91	125325400	122613500	87001180	166396600	98307900	151124600	255416200	66756700	290180200	177017800	134456800	112303720	21678040	169820800	86413300	72112500
06/06/91	125683000	122616920	87320590	166706900	98624800	151527600	255858200	66939700	290417700	177395700	134608400	112573560	21744820	169958100	86474000	72274900
06/07/91	125996500	122616920	87611150	166993100	98912400	151897600	256261300	67111100	290629000	177743800	134749300	112826920	21805070	170083800	86526400	72425900
06/08/91	126299200	122816920	87887050	167265900	99186400	152250000	256648300	67274400	290830400	178073700	134882100	113068370	21863990	170203400	86576100	72569700
06/09/91	126641700	123059580	88200520	167580200	99511900	152662300	257098900	67466100	291066400	178465400	135042900	113350910	21933050	170343800	86634500	72738600
06/10/91	126960600	123328010	88492660	167875400	99814500	153049600	257527100	67646600	291286900	178831700	135190000	113616470	21995180	170475500	86689500	72893700
06/11/91	127270700	123600050	88794720	168174700	100121900	153442200	257956100	67829400	291511000	179201800	135342900	113885800	22056270	170609500	86745200	73054300
06/12/91	127572000	123860940	89083490	168463200	100417100	153820700	258371500	68005500	291727000	179558400	135490700	114145070	22115100	170738100	86798400	73209000
06/13/91	127928700	124170180	89423470	168806700	100766900	154269600	258865100	68214900	291983000	179983100	135664800	114452980	22183810	170890700	86861600	73392500
06/14/91	128188200	124398780	89688410	169062600	101029100	154612000	259241500	68227000	292174000	180304200	135790600	114689050	22235220	171005600	86910600	73526000
06/15/91	128417900	124605080	89931600	169294900	101260400	154906500	259568600	68346000	292344500	180583000	135907100	114891360	22281580	171109200	86953800	73648400
06/16/91	128762300	124910840	90284400	169630900	101604800	155360100	260064200	68556000	292596500	181003000	136075100	115202160	22357180	171260400	87021000	73824800
06/17/91	129077600	125182570	90578290	169948400	101927400	155758700	260511500	68741400	292830700	181396700	136235200	115474720	22411140	171399700	87074700	73994400
06/18/91	129367800	125442200	90862650	170236200	102220100	156133400	260940600	68915200	293042600	181754300	136381500	115730750	22479510	171531100	87129600	74150100
06/19/91	129658000	125701830	91147000	170523900	102512800	156508100	261369700	69088900	293254500	182111800	136527800	115986790	22547880	171662400	87184500	74305700
06/20/91	129950800	125954010	91447410	170823100	102814900	156896600	261808700	69269100	293473200	182483000	136677000	116252050	22617290	171793400	87239800	74462800
06/21/91	130232300	126213000	91731680	171117800	103112100	157279200	262250800	69446900	293688300	182844500	136826400	116513430	22722300	171922700	87294200	74617600
06/22/91	130519800	126479770	92021130	171417200	103420900	157672800	262690500	69630100	293908800	183216900	136980100	116782770	22792080	172055700	87350900	74776800
06/23/91	130786800	126713220	92293000	171680300	103691900	158019000	263082100	69790700	294101500	183544700	137114600	117019240	22853370	172172600	87400200	74917100
06/24/91	131097500	126989930	92614590	171992100	104011200	158428600	263532700	69981700	294332100	183935300	137271900	117299940	22926720	172311400	87458900	75083200
06/25/91	131363000	127234490	92895550	172269700	104299200	158792500	263930200	70150700	294536300	184279300	137411700	117548300	22991170	172434200	87510700	75229800
06/26/91	131685500	127512440	93213390	172585800	104629500	159207700	264386300	70344700	294770800	184670900	137570300	117832600	23056690	172560600	87563800	75380600
06/27/91	132014100	127797730	93538670	172906100	104966200	159628700	264862200	70541400	295007600	185069900	137735400	118120610	23120110	172677300	87612700	75525500
06/28/91	132273700	128035270	93810820	173173200	105247600	159981200	265252400	70705900	295205900	185403800	137871400	118361680	23183780	172796200	87662600	75672100
06/29/91	132551100	128290670	94100820	173462800	105551400	160360500	265676100	70882900	295418100	185762700	138019200	118621330	23251250	172924200	87716100	75829700
06/30/91	132843600	128542830	94395500	173751200	105853800	160736300	266093500	71057700	295629200	186120800	138165200	118877100	23316800	173051000	87768600	75986300

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: JUNE 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
06/01/91	309200	265370	274120	278200	288600	365500	401200	170000	209200	346600	143900	250580	62540	124800	51600	150200	3691610
06/02/91	333000	285740	299060	302600	311800	394600	434400	183300	225700	375300	154400	270250	66540	134100	55400	162300	3988490
06/03/91	372500	329270	334590	351400	358700	456300	501000	211800	260300	433000	177600	313020	75740	154000	63500	185800	4578520
06/04/91	294100	248930	259980	262700	269700	341300	375200	158700	195300	323400	134000	233060	56720	117000	48300	142800	3461190
06/05/91	316800	196860	288000	295200	295200	381600	424800	180000	211000	361400	151200	266400	63360	129600	50400	158400	3770220
06/06/91	357600	3420	319410	310300	316900	403000	442000	183000	237500	377900	151600	269840	66780	137300	60700	162400	3799650
06/07/91	313500	0	290560	286200	287600	370000	403100	171400	211300	348100	140900	253360	60250	125700	52400	151000	3465370
06/08/91	302700	200000	275900	272800	274000	352400	387000	163300	201400	329900	132800	241450	58920	119600	49700	143800	3505670
06/09/91	342500	242660	313470	314300	325500	412300	450600	191700	236000	391700	160800	282540	69060	140400	58400	168900	4100830
06/10/91	318900	268430	292140	295200	302600	387300	428200	180500	220500	366300	147100	265560	62130	131700	55000	155100	3876660
06/11/91	310100	272040	302060	299300	307400	392600	429000	182800	224100	370100	152900	269330	61090	134000	55700	160600	3923120
06/12/91	301300	260890	288770	288500	295200	378500	415400	176100	216000	356600	147800	259270	58830	128600	53200	154700	3779660
06/13/91	356700	309240	339980	343500	349800	448900	493600	209400	256000	424700	174100	307910	68710	152600	63200	183500	4481840
06/14/91	259500	228600	264940	255900	262200	342400	376400	12100	191000	321100	125800	236070	51410	114900	49000	133500	3224820
06/15/91	229700	206300	243190	232300	231300	294500	327100	119000	170500	278800	116500	202310	46360	103600	43200	122400	2967060
06/16/91	344400	305760	352800	336000	344400	453600	495600	210000	252000	420000	168000	310800	75600	151200	67200	176400	4463760
06/17/91	315300	271730	293890	317500	322600	398600	447300	185400	234200	393700	160100	272560	53960	139300	53700	169600	4029440
06/18/91	290200	259630	284360	287800	292700	374700	429100	173800	211900	357600	146300	256030	68370	131400	54900	155700	3774490
06/19/91	290200	259630	284350	287700	292700	374700	429100	173700	211900	357500	146300	256040	68370	131300	54900	155600	3773990
06/20/91	292800	252180	300410	299200	302100	388500	439000	180200	218700	371200	149200	265260	69410	131000	55300	157100	3871560
06/21/91	281500	258990	284270	294700	297200	382600	442100	177800	215100	361500	149400	261380	105010	129300	54400	154800	3850050
06/22/91	287500	266770	289450	299400	308800	393600	439700	183200	220500	372400	153700	269340	69780	133000	56700	159200	3903040
06/23/91	267000	233450	271870	263100	271000	346200	391600	160600	192700	327800	134500	236470	61290	116900	49300	140300	3464080
06/24/91	310700	276710	321590	311800	319300	409600	450600	191000	230600	390600	157300	280700	73350	138800	58700	166100	4087450
06/25/91	265500	244560	280960	277600	288000	363900	397500	169000	204200	344000	139800	248360	64450	122800	51800	146600	3609030
06/26/91	322500	277950	317840	316100	330300	415200	456100	194000	234500	391600	158600	284300	65520	126400	53100	150800	4094810
06/27/91	328600	285290	325280	320300	336700	421000	475900	196700	236800	399000	165100	288010	63420	116700	48900	144900	4152600
06/28/91	259600	237540	272150	267100	281400	352500	390200	164500	198300	333900	136000	241070	63670	118900	49900	146600	3513330
06/29/91	277400	255400	290000	289600	303800	379300	423700	177000	212200	358900	147800	259650	67470	128000	53500	157600	3781320
06/30/91	292500	252160	294680	288400	302400	375800	417400	174800	211100	358100	146000	255770	65550	126800	52500	156600	3770560
TOTAL	9143800	7255500	8850070	8844700	9069900	11551000	12813900	5204800	6550500	10942700	4469500	7906690	1963660	3889700	1624500	4673300	114754220

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: JUNE 1991

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)											
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM
05/31/91	620092000	130841000	556783000	305157000	359335000	591900000	-	-	-	-	-	-	-	-	-	-	-	-
06/01/91	621910000	132761000	557896000	307306000	361456000	593661000	1818000	1920000	3738000	2709	1113000	2149000	3262000	2364	2121000	1761000	3882000	2813
06/02/91	623866000	134820000	559431000	309600000	363738000	595552000	1956000	2059000	4015000	2731	1535000	2294000	3829000	2605	2282000	1891000	4173000	2839
06/03/91	626067000	137168000	561099000	312275000	366334000	597707000	2201000	2348000	4549000	2708	1668000	2675000	4343000	2585	2596000	2155000	4751000	2828
06/04/91	627778000	138981000	562380000	314368000	368332000	599361000	1711000	1813000	3524000	2732	1281000	2093000	3374000	2616	1998000	1654000	3652000	2831
06/05/91	629938000	140781000	563676000	316744000	370276000	601485000	2160000	1800000	3960000	2750	1296000	2376000	3672000	2550	1944000	2124000	4068000	2825
06/06/91	631672000	143091000	565279000	319096000	372879000	603132000	1734000	2310000	4044000	2696	1603000	2352000	3955000	2637	2603000	1647000	4250000	2833
06/07/91	633492000	145024000	566631000	321321000	375013000	604900000	1820000	1933000	3753000	2720	1352000	2225000	3577000	2592	2134000	1768000	3902000	2828
06/08/91	635236000	146871000	567910000	323461000	377052000	606590000	1744000	1847000	3591000	2720	1279000	2140000	3419000	2590	2039000	1690000	3729000	2825
06/09/91	637258000	149024000	569412000	325943000	379428000	608557000	2022000	2153000	4175000	2729	1502000	2482000	3984000	2604	2376000	1967000	4343000	2839
06/10/91	639104000	151029000	570742000	328275000	381615000	610369000	1846000	2005000	3851000	2674	1330000	2332000	3662000	2543	2187000	1812000	3999000	2777
06/11/91	641010000	153085000	572145000	330651000	383870000	612232000	1906000	2056000	3962000	2695	1403000	2376000	3779000	2571	2255000	1863000	4118000	2801
06/12/91	642859000	155064000	573487000	332960000	386047000	614031000	1849000	1979000	3828000	2715	1342000	2309000	3651000	2589	2177000	1799000	3976000	2820
06/13/91	645041000	157407000	575253000	335515000	388627000	616159000	2182000	2343000	4525000	2693	1766000	2555000	4321000	2572	2580000	2128000	4708000	2802
06/14/91	646539000	159127000	576451000	337386000	390458000	617673000	1498000	1720000	3218000	2616	1198000	1871000	3069000	2495	1831000	1514000	3345000	2720
06/15/91	648002000	160715000	577652000	339084000	392193000	619104000	1463000	1588000	3051000	2676	1201000	1698000	2899000	2543	1735000	1431000	3166000	2777
06/16/91	650186000	162807000	579164000	341772000	394545000	621372000	2184000	2092000	4276000	2545	1512000	2688000	4200000	2500	2352000	2268000	4620000	2750
06/17/91	652151000	165156000	580995000	343942000	397090000	623146000	1965000	2349000	4314000	2876	1831000	2170000	4001000	2667	2545000	1774000	4319000	2879
06/18/91	653997000	167116000	582487000	346081000	399260000	624931000	1846000	1960000	3806000	2643	1492000	2139000	3631000	2522	2170000	1785000	3955000	2747
06/19/91	655843000	169075000	583978000	348219000	401429000	626716000	1846000	1959000	3805000	2642	1491000	2138000	3629000	2520	2169000	1785000	3954000	2746
06/20/91	657722000	171100000	585518000	350397000	403654000	628552000	1879000	2025000	3904000	2711	1540000	2178000	3718000	2582	2225000	1836000	4061000	2820
06/21/91	659611000	173090000	587066000	352550000	405860000	630370000	1889000	1990000	3879000	2639	1548000	2153000	3701000	2518	2206000	1818000	4024000	2737
06/22/91	661506000	175145000	588604000	354776000	408115000	632230000	1895000	2055000	3950000	2687	1538000	2226000	3764000	2561	2255000	1860000	4115000	2799
06/23/91	663199000	176949000	589983000	356733000	410111000	633873000	1693000	1804000	3497000	2711	1379000	1957000	3336000	2586	1996000	1643000	3639000	2821
06/24/91	665197000	179095000	591612000	359056000	412467000	635815000	1998000	2146000	4144000	2708	1629000	2323000	3952000	2583	2356000	1942000	4298000	2809
06/25/91	666940000	180983000	593052000	361081000	414546000	637526000	1743000	1888000	3631000	2690	1440000	2025000	3465000	2567	2079000	1711000	3790000	2807
06/26/91	668922000	183132000	594693000	363385000	416903000	639467000	1982000	2149000	4131000	2700	1641000	2304000	3945000	2578	2357000	1941000	4298000	2809
06/27/91	670936000	185348000	596369000	365747000	419319000	641453000	2014000	2216000	4230000	2660	1676000	2362000	4038000	2540	2416000	1986000	4402000	2769
06/28/91	672638000	187183000	597765000	367723000	421335000	643111000	1702000	1835000	3537000	2680	1396000	1976000	3372000	2555	2016000	1658000	3674000	2783
06/29/91	674483000	189167000	599234000	369909000	423521000	644905000	1845000	1984000	3829000	2716	1469000	2186000	3655000	2592	2186000	1794000	3980000	2823
06/30/91	676321000	191137000	600724000	372050000	425696000	646690000	1838000	1970000	3808000	2701	1490000	2141000	3631000	2575	2175000	1785000	3960000	2809
	56229000	60296000	43941000	66893000	66361000	54790000	56229000	60296000	116525000	2718	43941000	66893000	110834000	2585	66361000	54790000	121151000	2826

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: MAY 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
04/30/91	114337400	113720880	77186110	155820400	87255000	137231500	240232500	60239700	282250200	163871800	128966000	102762950	19231320	165115000	84414700	66414800
05/01/91	114642300	113972030	77473960	156122100	87568000	137624000	240657100	60424400	282472700	164239900	129122900	103032060	19292860	165247500	84473100	66571900
05/02/91	114960000	114230390	77769040	156436400	87892000	138030700	241102500	60615600	282703500	164622300	129284300	103311430	19354900	165383800	84533000	66734500
05/03/91	115239600	114462840	78029640	156711000	88179800	138391200	241497200	60784800	282908500	164962600	129437900	103559460	19409540	165505400	84586300	66880400
05/04/91	115534100	114706300	78308250	156996500	88482400	138769400	241907700	60962900	283122700	165317800	129597600	103819380	19469070	165632600	84642200	67033700
05/05/91	115844600	114960190	78604410	157301400	88799100	139165200	242341600	61148600	283348400	165691600	129763100	104090620	19530050	165765500	84700500	67196500
05/06/91	116176400	115217750	78902400	157606000	89122000	139567300	242783800	61337200	283579500	166075800	129932700	104365930	19591240	165900600	84759300	67362400
05/07/91	116483000	115463320	79183970	157895700	89428600	139950300	243205900	61516900	283799300	166437300	130093300	104628280	19688480	166028500	84814800	67520900
05/08/91	116788900	115708700	79401440	158183500	89732000	140332000	243621200	61697200	284017500	166794200	130250700	104890840	19761800	166157500	84871600	67678000
05/09/91	117095300	115958530	79640390	158475200	90038900	140718200	244037600	61879500	284237000	167156700	130406300	105156370	19831800	166288400	84929100	67838600
05/10/91	117388000	116211530	79913240	158778100	90355800	141116900	244470300	62067100	284463500	167533700	130560000	105430630	19903200	166422200	84987900	68002700
05/11/91	117690900	116297770	80165950	159073400	90664300	141504300	244891900	62249600	284684500	167898200	130716800	105696810	19975200	166552600	85045100	68162800
05/12/91	117902600	116297770	80394420	159321200	90929800	141833200	245248900	62405000	284873700	168209300	130844600	105923590	20036000	166665000	85094300	68300200
05/13/91	118249100	116297770	80699770	159659800	91283800	142274600	245735700	62612500	285127200	168621000	131018400	106225900	20117170	166814800	85159500	68485100
05/14/91	118531900	116525770	80913230	159935300	91575400	142639200	246130600	62784000	285335000	168975900	131163900	106477260	20184390	166937700	85212700	68635900
05/15/91	118840900	116812620	81134850	160229400	91887500	143029200	246553300	62968200	285557400	169344600	131319000	106745880	20255910	167069600	85270000	68797500
05/16/91	119145400	117104290	81414380	160528300	92203800	143424000	246979500	63153500	285783200	169720500	131477700	107017260	20328240	167203200	85327600	68961900
05/17/91	119456800	117382290	81703740	160818700	92512700	143805900	247402200	63332300	286002900	170084200	131627900	107278710	20401060	167333300	85382300	69119400
05/18/91	119764100	117652470	81975110	161100000	92811400	144176500	247810100	63505400	286215700	170434200	131769300	107532560	20469630	167458600	85434700	69270800
05/19/91	120092400	117952690	82276930	161415000	93142900	144587200	248257100	63697800	286450700	170822200	131928100	107813740	20546260	167598300	85493100	69439200
05/20/91	120396200	118239870	82558430	161717600	93459400	144980500	248687500	63882400	286675500	171199900	132080200	108084270	20619420	167731800	85549200	69598900
05/21/91	120694100	118516990	82830540	162006200	93763900	145359600	249096200	64060500	286892000	171554800	132226700	108343780	20689960	167860700	85603200	69753300
05/22/91	120989800	118792830	83094000	162293600	94065800	145737200	249501800	64237900	287107400	171910000	132370300	108603270	20757950	167988900	85656700	69906800
05/23/91	121287700	119076340	83371800	162589800	94378200	146126800	249927900	64420500	287330100	172278600	132520200	108870860	20831960	168121100	85711800	70065600
05/24/91	121546800	119327560	83622080	162852600	94654800	146471900	250304700	64582400	287527400	172604100	132652800	109107880	20886360	168238500	85760700	70206600
05/25/91	121873300	119643000	83939600	163183400	94997700	146906600	250781900	64786300	287775800	173013300	132817700	109406350	20954230	168386100	85822100	70383500
05/26/91	122178400	119934690	84235420	163490100	95311600	147310200	251221600	64975400	288006500	173394100	132968700	109683300	21017430	168523000	85879000	70548100
05/27/91	122475300	120214350	84513030	163783700	95613300	147696800	251643000	65157000	288227500	173759700	133116400	109948760	21076530	168654700	85933700	70706300
05/28/91	122773100	120493480	84797200	164075000	95916300	148083000	252063500	65338500	288447900	174139800	133263000	110214960	21134220	168784300	85987400	70862400
05/29/91	123095500	120778440	85015680	164364900	96231200	148487700	252509300	65529000	288678300	174514600	133418900	110492490	21194200	168920200	86044200	71024700
05/30/91	123389100	121025200	85269160	164627100	96497000	148823300	252881500	65684900	288870800	174834500	133553900	110722320	21265080	169038700	86093200	71165400
05/31/91	123699800	121287330	85545430	164906500	96783900	149185300	253279600	65852900	289078700	175178100	133695700	110970410	21353140	169161300	86144100	71313000

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: MAY 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
05/01/91	304900	287900	287850	301700	313000	392500	424600	184700	222500	368100	156900	269110	61540	132500	58400	157100	3923300
05/02/91	317700	295860	295080	314300	324000	406700	445400	191200	230800	382400	161400	279370	62040	136300	59900	162600	4065050
05/03/91	279600	266200	260600	274600	287800	360500	394700	169200	205000	340300	153600	248030	54640	121600	53300	145900	3615570
05/04/91	294500	277960	278610	285500	302600	378200	410500	178100	214200	355200	159700	259920	59530	127200	55900	153300	3790920
05/05/91	310500	291390	296160	304900	316700	395800	433900	185700	225700	373800	165500	271240	60980	132900	58300	162800	3986270
05/06/91	331800	295060	297990	304600	322900	402100	442200	188600	231100	384200	169600	275310	61190	135100	58800	165900	4066450
05/07/91	306600	280820	281570	289700	306600	383000	422100	179700	219800	361500	160600	262350	97240	127900	55500	158500	3893480
05/08/91	305900	281380	217470	287800	303400	381700	415300	180300	218200	356900	157400	262560	73320	129000	56800	157100	3784530
05/09/91	306400	285830	238950	291700	306900	386200	416400	182300	219500	362500	155600	265530	70000	130900	57500	160600	3836810
05/10/91	292700	289750	272850	302900	316900	398700	432700	187600	226500	377000	153700	274260	71400	133800	58800	164100	3953660
05/11/91	302900	282240	252710	295300	308500	387400	421600	182500	221000	364500	156800	266180	72000	130400	57200	160100	3861330
05/12/91	211700	241080	228470	247800	265500	328900	357000	155400	189200	311100	127800	226780	60800	112400	49200	137400	3250530
05/13/91	346500	323400	305350	338600	354000	441400	486800	207500	253500	411700	173800	302310	81170	149800	65200	184900	4425930
05/14/91	282800	264750	213460	275500	291600	364600	394900	171500	207800	354900	145500	251360	67220	122900	53200	150800	3612790
05/15/91	309000	286850	221620	294100	312100	390000	422700	184200	222400	368700	155100	268620	71520	131900	57300	161600	3857710
05/16/91	304500	291670	279530	298900	316300	394800	426200	185300	225800	375900	158700	271380	72330	133600	57600	164400	3956910
05/17/91	311400	278000	289360	290400	308900	381900	422700	178800	219700	363700	150200	261450	72820	130100	54700	157500	3871630
05/18/91	307300	270180	271370	281300	298700	370600	407900	173100	212800	350000	141400	253850	68570	125300	52400	151400	3736170
05/19/91	328300	300220	301820	315000	331500	410700	447000	192400	235000	388000	158800	281180	76630	139700	58400	168400	4133050
05/20/91	303800	287180	281500	302600	316500	393300	430400	184600	224800	377700	152100	270530	73160	133500	56100	159700	3947470
05/21/91	297900	277120	272110	288600	304500	379100	408700	178100	216500	354900	146500	259510	70540	128900	54000	154400	3791380
05/22/91	295700	275840	263460	287400	301900	377600	405600	177400	215400	355200	143600	259490	67990	128200	53500	153500	3761780
05/23/91	297900	283510	277800	296200	312400	389600	426100	182600	222700	368600	149900	267590	74010	132200	55100	158800	3895010
05/24/91	259100	251220	250280	262800	276600	345100	376800	161900	197300	325500	132600	237020	54400	117400	48900	141000	3437920
05/25/91	326500	315440	317520	330800	342900	434700	477200	203900	248400	409200	164900	298470	67870	147600	61400	176900	4323700
05/26/91	305100	291690	295820	306700	313900	403600	439700	189100	230700	380800	151000	276950	63200	136900	56900	164600	4006660
05/27/91	296900	279660	277610	293600	301700	386600	421400	181600	221000	365600	147700	265460	59100	131700	54700	158200	3842530
05/28/91	297800	279130	284170	291300	303000	386200	420500	181500	220400	380100	146600	266200	57690	129600	53700	156100	3853990
05/29/91	322400	284960	218480	289900	314900	404700	445800	190500	230400	374800	155900	277530	59980	135900	56800	162300	3925250
05/30/91	293600	246760	253480	262200	265800	335600	372200	155900	192500	319900	135000	229830	70880	118500	49000	140700	3441850
05/31/91	310700	262130	276270	279400	286900	362000	398100	168000	207900	343600	141800	248090	88060	122600	50900	147600	3694050
TOTAL	9362400	8725180	8359320	9086100	9528900	11953800	13047100	5613200	6828500	11306300	4729700	8207460	2121820	4046300	1729400	4898200	119543680

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: MAY 1991

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)											
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM
04/30/91	561888000	68831000	510091000	236916000	291242000	535169000	-	-	-	-	-	-	-	-	-	-	-	-
05/01/91	563807000	70887000	511614000	239175000	293493000	537049000	1919000	2056000	3975000	2704	1523000	2259000	3782000	2573	2251000	1880000	4131000	2810
05/02/91	565780000	72997000	513192000	241488000	295801000	538974000	1973000	2110000	4083000	2722	1578000	2313000	3891000	2594	2308000	1925000	4233000	2822
05/03/91	567544000	74877000	514510000	243639000	297862000	540693000	1764000	1880000	3644000	2699	1318000	2151000	3469000	2570	2061000	1719000	3780000	2800
05/04/91	569386000	76821000	515972000	245790000	300003000	542484000	1842000	1944000	3786000	2743	1462000	2151000	3613000	2618	2141000	1791000	3932000	2849
05/05/91	571355000	78908000	517536000	248089000	302301000	544401000	1969000	2087000	4056000	2704	1564000	2299000	3863000	2575	2298000	1917000	4215000	2810
05/06/91	573353000	81012000	519092000	250435000	304621000	546339000	1998000	2104000	4102000	2735	1556000	2346000	3902000	2601	2320000	1938000	4258000	2839
05/07/91	575227000	82990000	520579000	252625000	306800000	548157000	1874000	1978000	3852000	2732	1487000	2190000	3677000	2608	2179000	1818000	3997000	2835
05/08/91	577065000	84986000	521962000	254886000	308969000	549968000	1838000	1996000	3834000	2663	1383000	2261000	3644000	2531	2169000	1811000	3980000	2764
05/09/91	578887000	87007000	523397000	257117000	311138000	551777000	1822000	2021000	3843000	2669	1435000	2231000	3666000	2546	2169000	1809000	3978000	2763
05/10/91	580727000	89006000	524887000	259357000	313338000	553587000	1840000	1999000	3839000	2612	1490000	2240000	3730000	2537	2200000	1810000	4010000	2728
05/11/91	582571000	91004000	526335000	261588000	315517000	555399000	1844000	1998000	3842000	2668	1448000	2231000	3679000	2555	2179000	1812000	3991000	2772
05/12/91	584213000	92808000	527818000	263309000	317438000	557035000	1642000	1804000	3446000	2802	1483000	1721000	3204000	2605	1921000	1636000	3557000	2892
05/13/91	586375000	95114000	529566000	265856000	319970000	559145000	2162000	2306000	4468000	2708	1748000	2547000	4295000	2603	2532000	2110000	4642000	2813
05/14/91	588106000	97002000	531002000	267833000	322017000	560854000	1731000	1888000	3619000	2681	1436000	1977000	3413000	2528	2047000	1709000	3756000	2782
05/15/91	589959000	99029000	532542000	269995000	324208000	562680000	1853000	2027000	3880000	2694	1540000	2162000	3702000	2571	2191000	1826000	4017000	2790
05/16/91	591870000	101081000	534110000	272212000	326454000	564553000	1911000	2052000	3963000	2696	1568000	2217000	3785000	2575	2246000	1873000	4119000	2802
05/17/91	593780000	103102000	535634000	274429000	328680000	566405000	1910000	2021000	3931000	2730	1524000	2217000	3741000	2598	2226000	1852000	4078000	2832
05/18/91	595600000	105033000	537100000	276540000	330803000	568173000	1820000	1931000	3751000	2718	1466000	2111000	3577000	2592	2123000	1768000	3891000	2820
05/19/91	597617000	107186000	538738000	278873000	333168000	570140000	2017000	2153000	4170000	2725	1638000	2333000	3971000	2595	2365000	1967000	4332000	2831
05/20/91	599508000	109225000	540304000	281056000	335391000	571993000	1891000	2039000	3930000	2673	1566000	2183000	3749000	2550	2223000	1853000	4076000	2773
05/21/91	601338000	111202000	541814000	283174000	337549000	573790000	1830000	1977000	3807000	2700	1510000	2118000	3628000	2573	2158000	1797000	3955000	2805
05/22/91	603165000	113176000	543306000	285305000	339699000	575582000	1827000	1974000	3801000	2696	1492000	2131000	3623000	2570	2150000	1792000	3942000	2796
05/23/91	605039000	115197000	544833000	287497000	341911000	577421000	1874000	2021000	3895000	2705	1527000	2192000	3719000	2583	2212000	1839000	4051000	2813
05/24/91	606713000	117002000	546202000	289441000	343881000	579061000	1674000	1805000	3479000	2697	1369000	1944000	3313000	2568	1970000	1640000	3610000	2798
05/25/91	608794000	119258000	547902000	291884000	346344000	581107000	2081000	2256000	4337000	2677	1700000	2443000	4143000	2557	2463000	2046000	4509000	2783
05/26/91	610738000	121365000	549506000	294139000	348637000	583014000	1944000	2107000	4051000	2701	1604000	2255000	3859000	2573	2293000	1907000	4200000	2800
05/27/91	612599000	123376000	551012000	296329000	350840000	584843000	1861000	2011000	3872000	2689	1506000	2190000	3696000	2567	2203000	1829000	4032000	2800
05/28/91	614430000	125353000	552393000	298588000	353007000	586643000	1831000	1977000	3808000	2701	1381000	2259000	3640000	2582	2167000	1800000	3967000	2813
05/29/91	616532000	127156000	553747000	300964000	355231000	588489000	2102000	1803000	3905000	2656	1354000	2376000	3730000	2537	2224000	1846000	4070000	2769
05/30/91	618289000	128950000	555088000	303032000	357239000	590161000	1757000	1794000	3551000	2690	1341000	2068000	3409000	2583	2008000	1672000	3680000	2788
05/31/91	620092000	130841000	556783000	305157000	359335000	591900000	1803000	1891000	3694000	2620	1695000	2125000	3820000	2709	2096000	1739000	3835000	2720
	58204000	62010000	46692000	68241000	68093000	56731000	58204000	62010000	120214000	2704	46692000	68241000	114933000	2585	68093000	56731000	124824000	2808

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: APRIL 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
03/31/91	106022300	106993370	69389580	147333200	78813300	126104300	227721900	54928800	275969200	153306500	124662200	94927350	17372990	161249200	82686200	61695800
04/01/91	106285200	107240740	69672840	147629700	79126600	126486800	228148700	55105400	276185600	153664900	124810000	95191250	17418280	161377600	82742300	61848700
04/02/91	106549400	107494510	69969690	147934700	79448800	126881500	228589500	55287200	276408900	154017500	124960900	95464000	17462880	161509200	82799500	62004900
04/03/91	106781500	107696700	70130160	148159600	79689800	127183300	228928500	55425300	276576900	154309100	125078400	95677900	17512820	161627700	82851900	62135000
04/04/91	107103300	107956860	70423370	148467000	80035600	127585200	229373800	55609700	276804100	154699300	125233400	95954810	17582720	161762700	82912500	62295800
04/05/91	107401700	108191320	70699400	148745500	80353300	127949300	229780200	55776400	277010200	155041700	125373100	96205700	17645230	161884000	82966700	62441000
04/06/91	107713700	108435150	70967450	149035200	80681200	128327700	230195900	55949300	277223000	155392900	125517400	96467310	17709090	162011100	83024200	62585100
04/07/91	108030100	108682070	71252230	149331100	80985600	128708600	230626900	56131500	277438600	155749100	125665200	96729700	17775060	162140000	83081400	62752100
04/08/91	108365600	108940540	71553960	149640100	81307800	129111100	231086800	56322600	277666400	156128800	125820600	97006530	17842480	162274700	83141000	62927700
04/09/91	108656600	109172620	71814670	149911600	81420300	129469300	231477000	56496000	277867800	156460400	125957800	97255150	17900820	162396800	83196600	63084000
04/10/91	108973800	109439980	72039450	150217700	81420300	129879300	231921800	56698500	278096600	156837200	126113400	97541660	17969690	162537600	83262100	63260500
04/11/91	109237200	109652450	72286190	150461200	81664900	130201900	232360000	56849400	278280000	157211700	126240000	97824660	18035760	162674700	83323900	63434300
04/12/91	109548400	109899710	72564540	150755400	81962900	130586500	232789000	57032500	278496800	157573600	126386300	98090010	18097360	162803600	83380600	63608500
04/13/91	109878700	109951930	72868570	151060200	82292400	130991700	233234200	57232000	278726600	157956000	126544300	98374600	18162320	162945200	83445100	63787500
04/14/91	110181600	109952040	73120950	151343000	82592200	131370900	233645900	57417700	278937200	158307700	126686600	98639930	18220940	163074900	83505100	63950800
04/15/91	110442000	110136550	73266660	151571000	82853400	131717600	234024500	57581900	279126300	158622900	126822100	98900390	18282290	163226800	83567200	64102800
04/16/91	110647700	110342050	73476140	151815200	83107100	132039800	234375200	57735800	279307300	158923500	126941600	99123050	18335940	163336200	83617800	64232500
04/17/91	110880500	110567750	73709420	152082400	83384000	132390500	234768200	57903800	279504500	159261000	127072200	99364770	18394910	163456900	83673200	64376100
04/18/91	111108200	110791700	73953610	152346900	83664500	132745100	235126600	58072700	279704000	159564700	127205700	99611750	18455480	163575000	83727300	64515700
04/19/91	111332600	111019620	74232670	152624600	83907500	133051000	235488900	58252600	279876700	159905700	127342200	99871690	18520340	163701100	83786000	64665000
04/20/91	111551100	111248990	74507540	152888300	84182100	133408900	235915700	58418500	280073900	160241700	127479800	100118280	18582480	163821000	83839800	64809800
04/21/91	111807700	111494280	74782150	153181200	84487700	133791200	236370800	58599400	280290300	160603000	127628700	100381020	18648560	163949900	83897200	64966600
04/22/91	112071200	111757320	75076690	153493400	84814800	134173300	236858800	58793900	280521200	160990000	127786100	100662840	18718280	164087900	83959700	65134900
04/23/91	112313500	112004230	75351380	153786900	85119900	134557700	237300200	58976200	280737800	161352000	127932600	100920960	18785700	164218100	84017200	65295300
04/24/91	112607600	112251560	75613350	154078900	85426400	134941800	237717100	59158000	280957000	161713900	128080700	101185790	18851980	164347200	84073100	65451600
04/25/91	112877800	112490020	75872790	154362700	85721900	135313100	238125100	59333600	281164200	162063400	128223000	101441430	18914380	164469400	84129100	65607100
04/26/91	113188600	112760940	76169540	154682500	86059900	135735900	238592000	59533200	281403000	162462500	128384900	101732730	18985800	164611100	84192100	65784500
04/27/91	113455800	112972100	76393700	154931800	86323300	136063700	238952000	59688200	281588900	162770800	128513300	101958610	19041300	164722200	84241100	65923500
04/28/91	113772700	113248090	76680520	155257300	86665500	136492800	239423300	59891100	281831300	163173500	128676900	102254230	19112100	164867000	84305000	66104500
04/29/91	114064600	113496500	76939920	155552300	86975900	136883000	239852100	60075500	282052100	163542500	128825100	102522530	19174760	164997400	84362700	66268400
04/30/91	114337400	113720880	77186110	155820400	87255000	137231500	240232500	60239700	282250200	163871800	128966000	102762950	19231320	165115000	84414700	66414800

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: APRIL 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
04/01/91	262900	247370	283260	296500	313300	382500	426800	176600	216400	358400	147800	263900	45290	128400	56100	152900	3758420
04/02/91	264200	253770	296850	305000	322200	394700	440800	181800	223300	352600	150900	272750	44600	131600	57200	156200	3848470
04/03/91	232100	202190	160470	224900	241000	301800	339000	138100	168000	291600	117500	213900	49940	118500	52400	130100	2981500
04/04/91	321800	260160	293210	307400	345800	401900	445300	184400	227200	390200	155000	276910	69900	135000	60600	160800	4035580
04/05/91	298400	234460	276030	278500	317700	364100	406400	166700	206100	342400	139700	250890	62510	121300	54200	145200	3664590
04/06/91	312000	243830	268050	289700	327900	378400	415700	172900	212800	351200	144300	261610	63860	127100	57500	144100	3770950
04/07/91	316400	246920	284780	295900	304400	380900	431000	182200	215600	356200	147800	262390	65970	128900	57200	167000	3843560
04/08/91	335500	258470	301730	309000	322200	402500	459900	191100	227800	379700	155400	276830	67420	134700	59600	175600	4057450
04/09/91	291000	232080	260710	271500	112500	358200	390200	173400	201400	331600	137200	248620	58340	122100	55600	156300	3400750
04/10/91	317200	267360	224780	306100	0	410000	444800	202500	228800	376800	155600	286510	68870	140800	65500	176500	3672120
04/11/91	263400	212470	246740	243500	244600	322600	438200	150900	183400	374500	126600	283000	66070	137100	61800	173800	3528680
04/12/91	311200	247260	278350	294200	298000	384600	429000	183100	216800	361900	146300	265350	61600	128900	56700	174200	3837460
04/13/91	330300	52220	304030	304800	329500	405200	445200	199500	229800	382400	158000	284590	64960	141600	64500	179000	3875600
04/14/91	302900	110	252380	282800	299800	379200	411700	185700	210600	351700	142300	265330	58620	129700	60000	163300	3496140
04/15/91	260400	184510	145710	228000	261200	346700	378600	164200	189100	315200	135500	260460	61350	151900	62100	152000	3296930
04/16/91	205700	205500	209480	244200	253700	322200	350700	153900	181000	300600	119500	222660	53650	109400	50600	129700	3112490
04/17/91	232800	225700	233280	267200	276900	350700	393000	168000	197200	337500	130600	241720	58970	120700	55400	143600	3433270
04/18/91	227700	223950	244190	264500	280500	354600	358400	168900	199500	303700	133500	246980	60570	118100	54100	139600	3378790
04/19/91	224400	227920	279060	277700	243000	305900	362300	179900	172700	341000	136500	259940	64860	126100	58700	149300	3409280
04/20/91	218500	229370	274870	263700	274600	357900	426800	165900	197200	336000	137600	246590	62140	119900	53800	144800	3509670
04/21/91	256600	245290	274610	292900	305600	382300	455100	180900	216400	361300	148900	262740	66080	128900	57400	156800	3791820
04/22/91	263500	263040	294540	312200	327100	382100	488000	194500	230900	387000	157400	281820	69720	138000	62500	168300	4020620
04/23/91	242300	246910	274690	293500	305100	384400	441400	182300	216600	362000	146500	258120	67420	130200	57500	160400	3769340
04/24/91	294100	247330	261970	292000	306500	384100	416900	181800	219200	361900	148100	264830	66280	129100	55900	156300	3786310
04/25/91	270200	238460	259440	283800	295500	371300	408000	175600	207200	349500	142300	255640	62400	122200	56000	155500	3653040
04/26/91	310800	270920	296750	319800	338000	422800	466900	199600	238800	399100	161900	291300	71420	141700	63000	177400	4170190
04/27/91	267200	211160	224160	249300	263400	327800	360000	155000	185900	308300	128400	225880	55500	111100	49000	139000	3261100
04/28/91	316900	275990	286820	325500	342200	429100	471300	202900	242400	402700	163600	295620	70800	144800	63900	181000	4215530
04/29/91	291900	248410	259400	295000	310400	390200	428800	184400	220800	369000	148200	268300	62660	130400	57700	163900	3829470
04/30/91	272800	224380	246190	268100	279100	348500	380400	164200	198100	329300	140900	240420	56560	117600	52000	146400	3464950
TOTAL	8315100	6727510	7796530	8487200	8441700	11127200	12510600	5310900	6281000	10565300	4303800	7835600	1858330	3865800	1728500	4719000	109874070

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: APRIL 1991

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)											
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM
03/31/91	507454000	12023000	468451000	172238000	228344000	482490000	-	-	-	-	-	-	-	-	-	-	-	-
04/01/91	509296000	14009000	469854000	174493000	230512000	484311000	1842000	1986000	3828000	2715	1403000	2255000	3658000	2594	2168000	1821000	3989000	2829
04/02/91	511165000	16013000	471260000	176778000	232698000	486144000	1869000	2004000	3873000	2690	1406000	2285000	3691000	2563	2186000	1833000	4019000	2791
04/03/91	512225000	18010000	472010000	178924000	234422000	487580000	1060000	1997000	3057000	2123	750000	2146000	2896000	2011	1724000	1436000	3160000	2194
04/04/91	514263000	20041000	473577000	181265000	236724000	489508000	2038000	2031000	4069000	2713	1567000	2341000	3908000	2605	2302000	1928000	4230000	2820
04/05/91	516118000	21899000	474996000	183407000	238815000	491265000	1855000	1858000	3713000	2750	1419000	2142000	3561000	2638	2091000	1757000	3848000	2850
04/06/91	517963000	23828000	476447000	185563000	240956000	493060000	1845000	1929000	3774000	2677	1451000	2156000	3607000	2558	2141000	1795000	3936000	2791
04/07/91	519882000	25812000	477944000	187797000	243162000	494911000	1919000	1984000	3903000	2655	1497000	2234000	3731000	2538	2206000	1851000	4057000	2760
04/08/91	521906000	27896000	479519000	190136000	245489000	496860000	2024000	2084000	4108000	2739	1575000	2339000	3914000	2609	2327000	1949000	4276000	2851
04/09/91	523521000	29712000	480878000	192054000	247441000	498499000	1615000	1816000	3431000	2599	1359000	1918000	3277000	2483	1952000	1639000	3591000	2720
04/10/91	525647000	31306000	482100000	194385000	249539000	500258000	2126000	1594000	3720000	2480	1222000	2331000	3553000	2369	2098000	1759000	3857000	2571
04/11/91	527246000	33275000	483320000	196566000	251543000	501938000	1599000	1969000	3568000	2427	1220000	2181000	3401000	2314	2004000	1680000	3684000	2506
04/12/91	529127000	35252000	484736000	198824000	253733000	503774000	1881000	1977000	3858000	2736	1416000	2258000	3674000	2606	2190000	1836000	4026000	2855
04/13/91	530938000	37369000	486064000	201248000	255947000	505633000	1811000	2117000	3928000	2567	1328000	2424000	3752000	2452	2214000	1859000	4073000	2662
04/14/91	532558000	39234000	487380000	203257000	257914000	507279000	1620000	1865000	3485000	2472	1316000	2009000	3325000	2358	1967000	1646000	3613000	2562
04/15/91	534819000	40332000	488778000	205070000	259811000	508858000	2261000	1098000	3359000	2073	1398000	1813000	3211000	1982	1897000	1579000	3476000	2146
04/16/91	536311000	41943000	489960000	206850000	261524000	510326000	1492000	1611000	3103000	2652	1182000	1780000	2962000	2532	1713000	1468000	3181000	2719
04/17/91	538023000	43788000	491331000	208864000	263576000	512014000	1712000	1845000	3557000	2635	1371000	2014000	3385000	2507	2052000	1688000	3740000	2770
04/18/91	539828000	45375000	492672000	210758000	265496000	513624000	1805000	1587000	3392000	2019	1341000	1894000	3235000	1926	1920000	1610000	3530000	2101
04/19/91	541539000	47105000	493823000	212886000	267437000	515252000	1711000	1730000	3441000	2549	1151000	2128000	3279000	2429	1941000	1628000	3569000	2644
04/20/91	543255000	48952000	495228000	214880000	269451000	516939000	1716000	1847000	3563000	2699	1405000	1994000	3399000	2575	2014000	1687000	3701000	2804
04/21/91	545123000	50930000	496727000	217051000	271630000	518765000	1868000	1978000	3846000	2728	1499000	2171000	3670000	2603	2179000	1826000	4005000	2840
04/22/91	547090000	53050000	498342000	219336000	273942000	520909000	1967000	2120000	4087000	2671	1615000	2285000	3900000	2549	2312000	2144000	4456000	2912
04/23/91	548958000	54990000	499880000	221438000	276101000	522507000	1868000	1940000	3808000	2644	1538000	2102000	3640000	2528	2159000	1598000	3757000	2609
04/24/91	550835000	56991000	501401000	223640000	278289000	524339000	1877000	2001000	3878000	2693	1521000	2202000	3723000	2585	2188000	1832000	4020000	2792
04/25/91	552625000	58894000	502851000	225747000	280382000	526090000	1790000	1903000	3693000	2619	1450000	2107000	3557000	2523	2093000	1751000	3844000	2726
04/26/91	554654000	61066000	504473000	228163000	282760000	528078000	2029000	2172000	4201000	2693	1622000	2416000	4038000	2588	2378000	1988000	4366000	2799
04/27/91	556269000	62787000	505725000	230111000	284646000	529657000	1615000	1721000	3336000	2712	1252000	1948000	3200000	2602	1886000	1579000	3465000	2817
04/28/91	558334000	65009000	507358000	232601000	287069000	531683000	2065000	2222000	4287000	2748	1633000	2490000	4123000	2643	2423000	2026000	4449000	2852
04/29/91	560199000	67016000	508780000	234890000	289258000	533512000	1865000	2007000	3872000	2634	1422000	2289000	3711000	2524	2189000	1829000	4018000	2733
04/30/91	561888000	68831000	510091000	236916000	291242000	535169000	1689000	1815000	3504000	2596	1311000	2026000	3337000	2472	1984000	1657000	3641000	2697
	54434000	56808000	41640000	64678000	62898000	52679000	54434000	56808000	111242000	2647	41640000	64678000	106318000	2530	62898000	52679000	115577000	2750

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: MARCH 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
02/28/91	97876400	98663800	60263480	138354400	69669100	114404400	214401900	49516800	269394700	142348900	120128500	86848080	15644850	157384300	80959500	56993400
03/01/91	98175200	98974130	60591220	138650300	69969200	114791500	214817000	49696300	269610100	142713500	120280400	87116550	15698550	157508800	81014600	57150700
03/02/91	98373500	99183770	60813480	138852000	70176800	115059800	215104400	49819100	269759200	142965400	120382100	87305270	15733040	157591600	81051400	57258300
03/03/91	98647000	99492760	61102680	139145700	70469300	115438100	215510500	49996200	269970400	143318700	120531600	87564130	15786680	157716600	81107200	57415300
03/04/91	98928100	99810740	61402650	139448600	70773500	115834300	215930700	50180000	270190000	143695800	120683600	87837680	15839000	157843200	81163800	57576100
03/05/91	99168600	100095240	61668000	139716400	71045200	116184800	216310800	50343000	270385000	144020000	120821500	88079880	15883520	157957000	81215000	57722100
03/06/91	99407800	100385150	61893480	139981300	71314500	116536300	216681200	50505700	270579500	144351800	120958400	88327340	15931830	158078400	81270500	57871600
03/07/91	99684900	100696040	62188720	140275900	71607100	116920900	217096200	50682700	270793500	144707600	121105700	88593350	15999870	158205100	81328700	58025900
03/08/91	99962800	101009470	62494200	140573800	71903500	117308000	217546100	50861600	271010200	145069500	121254300	88860420	16068040	158332700	81386800	58182600
03/09/91	100240800	101323250	62804830	140872100	72200900	117696000	218002800	51040800	271227300	145432000	121403600	89128190	16134580	158460400	81444600	58339600
03/10/91	100522500	101640710	63094320	141172600	72500100	118087500	218463900	51221600	271446100	145798300	121552500	89398650	16200310	158588900	81502800	58498400
03/11/91	100883900	102047080	63463940	141556200	72880800	118585400	219052800	51452400	271725000	146263600	121743700	89741490	16281820	158754100	81577400	58701500
03/12/91	101107300	102300680	63694970	141794900	73118700	118895900	219423400	51596100	271898900	146553900	121862500	89955980	16330620	158857100	81623800	58827900
03/13/91	101347100	102591230	63961080	142069100	73393100	119251600	219845900	51761000	272098500	146886500	121999500	90201080	16383280	158975000	81676800	58971800
03/14/91	101598500	102910010	64254280	142365900	73693100	119641200	220305900	51941400	272317200	147251500	122150600	90469810	16438880	159104700	81735000	59129500
03/15/91	101813500	103190620	64512050	142626300	73954500	119981100	220707200	52099700	272508400	147566700	122282600	90704120	16483460	159219700	81786600	59269000
03/16/91	102036400	103440750	64764520	142863600	74193000	120291600	221077200	52242700	272683200	147859200	122401900	90919170	16535530	159320000	81831600	59387200
03/17/91	102266900	103719480	65024640	143125100	74455400	120632900	221490800	52404400	272879300	148185500	122536800	91154710	16586270	159435700	81883500	59527000
03/18/91	102585300	104072500	65400100	143459700	74795900	121071700	222004900	52604100	273123400	148591700	122704900	91455430	16656810	159577200	81946500	59697100
03/19/91	102839800	104376760	65713310	143752600	75091500	121452700	222458500	52780500	273339400	148952800	122854000	91717640	16712650	159703000	82002500	59848300
03/20/91	103074600	104672120	66020200	144039500	75382000	121829200	222906800	52954600	273552600	149303000	122999500	91976640	16764450	159826600	82057600	59996900
03/21/91	103350500	104997400	66359250	144359500	75694500	122238400	223365000	53144600	273783200	149687400	123160100	92259560	16828110	159963700	82119000	60159700
03/22/91	103588900	105012220	66661380	144633800	75971100	122605600	223740100	53313600	273989700	150030000	123302100	92513460	16887130	160085100	82173600	60304600
03/23/91	103865900	105012220	67013700	144958000	76295100	123032800	224230100	53510300	274231100	150429400	123462500	92808360	16950390	160220900	82234000	60468600
03/24/91	104097400	105232670	67295780	145219200	76574800	123373700	224627700	53668100	274424100	150749400	123601400	93044020	17002880	160338700	82286200	60610300
03/25/91	104373500	105490730	67626320	145530000	76904100	123775500	225092800	53853600	274651700	151127100	123758600	93320130	17060580	160472600	82345400	60771600
03/26/91	104653300	105730180	67935710	145818900	77211900	124148900	225535800	54026000	274863400	151480000	123904400	93577120	17116940	160596300	82399500	60919600
03/27/91	104939200	105980630	68258540	146122200	77534400	124539400	225974200	54206400	275084400	151830200	124056200	93846230	17172100	160726300	82456400	61074700
03/28/91	105218600	106233330	68541850	146423700	77854400	124929400	226411300	54386500	275304800	152210500	124207700	94115680	17223920	160856400	82513700	61229000
03/29/91	105485200	106485700	68827030	146725400	78173800	125319500	226846600	54566300	275525200	152575600	124358800	94384970	17274540	160986600	82571000	61383500
03/30/91	105760700	106746400	69118910	147037500	78501700	125722200	227296100	54752300	275753000	152949800	124514700	94663120	17325340	161121400	82630200	61543900
03/31/91	106022300	106993370	69389580	147333200	78813300	126104300	227721900	54928800	275969200	153306500	124662200	94927350	17372990	161249200	82686200	61695800

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: MARCH 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
03/01/91	298800	310330	327740	295900	300100	387100	415100	179500	215400	364600	151900	268470	53700	124500	55100	157300	3905540
03/02/91	198300	209640	222260	201700	207600	268300	287400	122800	149100	251900	101700	188720	34490	82800	36800	107600	2671110
03/03/91	273500	308990	289200	293700	292500	378300	406100	177100	211200	353300	149500	258860	53640	125000	55800	157000	3783690
03/04/91	281100	317980	299970	302900	304200	396200	420200	183800	219600	377100	152000	273550	52320	126600	56600	160800	3924920
03/05/91	240500	284500	265350	267800	271700	350500	380100	163000	195000	324200	137900	242200	44520	113800	51200	146000	3478270
03/06/91	239200	289910	225480	264900	269300	351500	370400	162700	194500	331800	136900	247460	48310	121400	55500	149500	3458760
03/07/91	277100	310890	295240	294600	292600	384600	415000	177000	214000	355800	147300	266010	68040	126700	58200	154300	3837380
03/08/91	277900	313430	305480	297900	296400	387100	449900	178900	216700	361900	148600	267070	68170	127600	58100	156700	3911850
03/09/91	278000	313780	310630	298300	297400	388000	456700	179200	217100	362500	149300	267770	66540	127700	57800	157000	3927720
03/10/91	281700	317460	289490	300500	299200	391500	461100	180800	218800	366300	148900	270460	65730	128500	58200	158800	3937440
03/11/91	361400	406370	369620	383600	380700	497900	588900	230800	278900	465300	191200	342840	81510	165200	74600	203100	5021940
03/12/91	223400	253600	231030	238700	237900	310500	370600	143700	173900	290300	118800	214490	48800	103000	46400	126400	3131520
03/13/91	239800	290550	266110	274200	274400	355700	422500	164900	199600	332600	137000	245100	52660	117900	53000	143900	3569920
03/14/91	251400	318780	293200	296800	300000	389600	460000	180400	218700	365000	151100	268730	55600	129700	58200	157700	3894910
03/15/91	215000	280610	257770	260400	261400	339900	401300	158300	191200	315200	132000	234310	44580	115000	51600	139500	3398070
03/16/91	222900	250130	252470	237300	238500	310500	370000	143000	174800	292500	119300	215050	52070	100300	45000	118200	3142020
03/17/91	230500	278730	260120	261500	262400	341300	413600	161700	196100	326300	134900	235540	50740	115700	51900	139800	3460830
03/18/91	318400	353020	375460	334600	340500	438800	514100	199700	244100	406200	168100	300720	70540	141500	63000	170100	4438840
03/19/91	254500	304260	313210	292900	295600	381000	453600	176400	216000	361100	149100	262210	55840	125800	56000	151200	3848720
03/20/91	234800	295360	306890	286900	290500	376500	448300	174100	213200	350200	145500	259000	51800	123600	55100	148600	3760350
03/21/91	275900	325280	339050	320000	312500	409200	458200	190000	230600	384400	160600	282920	63660	137100	61400	162800	4113610
03/22/91	238400	200820	302130	274300	276600	367200	375100	169000	206500	342600	142000	253900	59020	121400	54600	144900	3528470
03/23/91	277000	306000	352320	324200	324000	427200	490000	196700	241400	399400	160400	294900	63260	135800	60400	164000	4216980
03/24/91	231500	220450	282080	261200	279700	340900	397600	157800	193000	320000	138900	235660	52490	117800	52200	141700	3422980
03/25/91	276100	258060	330540	310800	329300	401800	465100	185500	227600	377700	157200	276110	57700	133900	59200	161300	4007910
03/26/91	279800	239450	309390	288900	307800	373400	443000	172400	211700	352900	145800	256990	56360	123700	54100	148000	3763690
03/27/91	285900	250450	322830	303300	322500	390500	438400	180400	221000	350200	151800	269110	55160	130000	56900	155100	3883550
03/28/91	279400	252700	283310	301500	320000	390000	437100	180100	220400	380300	151500	269450	51820	130100	57300	154300	3859280
03/29/91	266600	252370	285180	301700	319400	390100	435300	179800	220400	365100	151100	269290	50620	130200	57300	154500	3828960
03/30/91	275500	260700	291880	312100	327900	402700	449500	186000	227800	374200	155900	278150	50800	134800	59200	160400	3947530
03/31/91	261600	246970	270670	295700	311600	382100	425800	176500	216200	356700	147500	264230	47650	127800	56000	151900	3738920
TOTAL	8145900	8821570	9126100	8978800	9144200	11699900	13320000	5412000	6574500	10957600	4533700	8079270	1728140	3864900	1726700	4702400	116815680

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: MARCH 1991

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)											
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM
02/28/91	1449570000	1334910000	424168000	1104306000	1162321000	1426404000	-	-	-	-	-	-	-	-	-	-	-	-
03/01/91	1451495000	1336879000	425668000	1106552000	1164517000	1428290000	1925000	1969000	3894000	2704	1500000	2246000	3746000	2601	2196000	1886000	4082000	2835
03/02/91	1452749000	1338179000	426644000	1108021000	1165961000	1429502000	1254000	1300000	2554000	1811	976000	1469000	2445000	1734	1444000	1212000	2656000	1884
03/03/91	1454638000	1340145000	428135000	1110248000	1168130000	1431351000	1889000	1966000	3855000	2677	1491000	2227000	3718000	2582	2169000	1849000	4018000	2790
03/04/91	1456501000	1342120000	429619000	1112460000	1170292000	1433197000	1863000	1975000	3838000	2665	1484000	2212000	3696000	2567	2162000	1846000	4008000	2783
03/05/91	1458221000	1343935000	430985000	1114501000	1172286000	1434896000	1720000	1815000	3535000	2678	1366000	2041000	3407000	2581	1994000	1699000	3693000	2798
03/06/91	1460402000	1345182000	432361000	1116411000	1174217000	1436536000	2181000	1247000	3428000	2197	1376000	1910000	3286000	2106	1931000	1640000	3571000	2289
03/07/91	1462263000	1347136000	433836000	1118606000	1176365000	1438367000	1861000	1954000	3815000	2649	1475000	2195000	3670000	2549	2148000	1831000	3979000	2763
03/08/91	1464170000	1349107000	435332000	1120846000	1178555000	1440236000	1907000	1971000	3878000	2693	1496000	2240000	3736000	2594	2190000	1869000	4059000	2819
03/09/91	1466085000	1351077000	436829000	1123086000	1180749000	1442105000	1915000	1970000	3885000	2698	1497000	2240000	3737000	2595	2194000	1869000	4063000	2822
03/10/91	1468000000	1353071000	438330000	1125339000	1182954000	1443986000	1915000	1994000	3909000	2715	1501000	2253000	3754000	2607	2205000	1881000	4086000	2838
03/11/91	1470452000	1355619000	440252000	1128238000	1185778000	1446393000	2452000	2548000	5000000	2688	1922000	2899000	4821000	2592	2824000	2407000	5231000	2812
03/12/91	1471962000	1357192000	441438000	1130016000	1187520000	1447881000	1510000	1573000	3083000	2704	1186000	1778000	2964000	2600	1742000	1488000	3230000	2833
03/13/91	1473698000	1359005000	442812000	1132064000	1189528000	1449591000	1736000	1813000	3549000	2689	1374000	2048000	3422000	2592	2008000	1710000	3718000	2817
03/14/91	1475574000	1360981000	444300000	1134286000	1191708000	1451450000	1876000	1976000	3852000	2675	1488000	2222000	3710000	2576	2180000	1859000	4039000	2805
03/15/91	1477259000	1362756000	445639000	1136273000	1193658000	1453114000	1685000	1775000	3460000	2621	1339000	1987000	3326000	2520	1950000	1664000	3614000	2738
03/16/91	1478772000	1364287000	446821000	1138023000	1195379000	1454582000	1513000	1531000	3044000	2602	1182000	1750000	2932000	2506	1721000	1468000	3189000	2726
03/17/91	1480475000	1366061000	448167000	1140025000	1197344000	1456257000	1703000	1774000	3477000	2634	1346000	2002000	3348000	2536	1965000	1675000	3640000	2758
03/18/91	1482617000	1368238000	449773000	1142586000	1199789000	1458349000	2142000	2177000	4319000	2769	1606000	2561000	4167000	2671	2445000	2092000	4537000	2908
03/19/91	1484538000	1370199000	451189000	1144906000	1201908000	1460224000	1921000	1961000	3882000	2696	1416000	2320000	3736000	2594	2119000	1875000	3994000	2774
03/20/91	1486366000	1372094000	452523000	1147157000	1204091000	1462019000	1828000	1895000	3723000	2698	1334000	2251000	3585000	2598	2183000	1795000	3978000	2883
03/21/91	1488399000	1374180000	453996000	1149641000	1206423000	1464007000	2033000	2086000	4119000	2692	1473000	2484000	3957000	2586	2332000	1988000	4320000	2824
03/22/91	1490132000	1376038000	455350000	1151732000	1208452000	1465740000	1733000	1858000	3591000	2660	1354000	2091000	3445000	2552	2029000	1733000	3762000	2787
03/23/91	1492120000	1378112000	456892000	1154100000	1210750000	1467703000	1988000	2074000	4062000	2708	1542000	2368000	3910000	2607	2298000	1963000	4261000	2841
03/24/91	1493930000	1378609000	458251000	1156211000	1212796000	1469429000	1810000	3602000	5412000	2729	1359000	2111000	3470000	2629	2046000	1726000	3772000	2858
03/25/91	1496007000	27000	459773000	1158566000	1215111000	1471373000	2077000	4027000	6104000	2685	1522000	2355000	3877000	2585	2315000	1944000	4259000	2839
03/26/91	1497966000	1920000	461233000	1160762000	1217277000	1473196000	1939000	1893000	3832000	2661	1460000	2196000	3656000	2539	2166000	1823000	3989000	2770
03/27/91	1499910000	3930000	462734000	1163050000	1219515000	1475076000	1964000	2010000	3974000	2760	1501000	2288000	3789000	2631	2238000	1880000	4118000	2860
03/28/91	1501804000	5949000	464166000	1165350000	1221727000	1476936000	1894000	2019000	3913000	2717	1432000	2300000	3732000	2592	2212000	1860000	4072000	2828
03/29/91	1503683000	7964000	465596000	1167633000	1223926000	1478779000	1879000	2015000	3894000	2704	1430000	2283000	3713000	2578	2199000	1843000	4042000	2807
03/30/91	1505620000	10044000	467072000	1169988000	1226197000	1480688000	1937000	2080000	4017000	2678	1476000	2355000	3831000	2554	2271000	1909000	4180000	2787
03/31/91	1507454000	12023000	468451000	1172238000	1228344000	1482490000	1834000	1979000	3813000	2704	1379000	2250000	3629000	2574	2147000	1802000	3949000	2801
	57884000	62827000	44283000	67932000	66023000	56086000	57884000	62827000	120711000	2732	44283000	67932000	112215000	2539	66023000	56086000	122109000	2763

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: FEBRUARY 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
01/31/91	90194900	91265430	52417090	130201400	61462400	103735600	202789400	44546200	263550100	132385400	116098100	79405550	13689480	154000100	79415600	52688100
02/01/91	90497100	91566180	52713940	130507500	61771900	104139400	203232700	44734600	263768800	132761900	116245600	79689770	13752190	154126800	79474500	52850000
02/02/91	90766500	91834360	52979160	130781200	62050200	104501000	203624300	44963000	263965900	133097800	116376400	79943220	13807290	154240200	79526900	52993900
02/03/91	91080300	92146280	53287980	131099500	62373500	104920400	204079100	45098600	264194400	133489500	116530100	80236940	13869670	154371700	79588100	53165900
02/04/91	91346700	92410970	53549300	131370200	62648600	105277000	204465500	45265100	264389500	133825600	116660100	80486440	13922490	154483600	79639900	53311100
02/05/91	91636100	92698750	53837540	131668000	62948000	105665100	204896200	45446300	264602900	134186000	116804100	80757790	13978250	154605300	79696000	53468700
02/06/91	91925500	92987040	54126740	131966700	63248100	106054500	205318900	45628200	264816100	134550500	116947500	81030130	14033910	154727200	79752200	53626100
02/07/91	92239100	93299050	54439760	132289800	63572300	106475900	205771100	45825000	265045700	134942700	117101400	81324830	14097380	154859300	79813100	53797100
02/08/91	92500800	93562820	54704570	132563200	63847000	106832100	206154500	45991500	265239200	135275500	117230600	81573790	14205750	154970600	79864200	53941500
02/09/91	92826200	93913400	55040940	132912100	64198300	107287000	206655300	46204400	265486700	135697900	117397600	81891710	14348200	155112200	79928900	54126100
02/10/91	93122100	94257930	55354810	133236700	64525100	107710500	207113700	46402900	265716400	136093300	117554000	82187300	14467720	155244600	79989400	54298400
02/11/91	93392900	94573380	55642630	133534500	64824600	108099100	207532200	46585100	265927200	136456000	117696000	82458280	14587680	155365700	80044500	54466400
02/12/91	93617500	94834890	55881230	133781600	65072600	108421400	207888200	46736400	266101300	136756700	117812700	82683220	14640950	155466800	80090600	54623000
02/13/91	93888700	95151070	56170180	134080700	65372600	108811400	208309100	46919600	266311200	137121000	117960700	82955550	14706690	155589400	80146400	54754800
02/14/91	94122200	95432850	56421940	134347500	65641400	109159700	208690800	47081500	266502300	137446800	118094600	83197500	14773170	155699700	80197000	54890800
02/15/91	94423800	95721930	56726170	134670300	65966100	109582000	209149300	47277000	266733200	137842500	118256500	83491680	14853760	155834400	80258400	55068000
02/16/91	94704400	95721930	57023850	134967900	66268000	109970900	209570200	47457500	266947200	138202900	118408900	83762690	14927000	155958800	80314800	55233700
02/17/91	94977300	95721930	57313020	135261400	66568100	110357200	209989200	47636800	267160200	138564900	118559900	84031890	15000080	156082700	80371000	55390200
02/18/91	95258600	95721930	57589180	135546000	66857200	110729400	210394300	47810000	267366800	138914900	118705800	84290750	15068350	156201700	80424600	55544900
02/19/91	95537700	95997690	57910850	135848800	67165600	111127900	210836300	47994700	267588300	139289200	118861100	84568190	15147930	156329300	80482800	55702400
02/20/91	95806800	96317330	58189640	136146400	67466100	111518600	211263800	48176500	267804700	139653300	119013200	84840470	15222860	156455300	80540300	55857700
02/21/91	96075900	96641440	58469600	136448300	67771700	111915500	211701600	48361000	268024300	140024400	119165700	85117070	15295550	156582400	80598200	56014900
02/22/91	96351700	96958880	58717370	136743400	68066100	112303400	212121700	48541100	268237400	140385700	119316200	85387540	15351570	156708000	80655200	56165900
02/23/91	96637000	97286050	58969510	137050200	68368900	112704200	212555500	48727000	268456800	140757800	119470200	85667330	15406760	156836900	80713800	56323000
02/24/91	96889200	97577230	59195540	137323900	68638600	113061100	212942300	48892700	268652400	141091000	119607800	85915830	15456900	156951900	80765900	56464100
02/25/91	97158500	97885770	59458810	137615200	68925000	113437900	213352900	49068200	268860000	141441700	119754300	86176660	15511030	157075800	80821500	56615600
02/26/91	97392500	98143700	59722850	137861300	69173700	113760700	213702700	49217900	269039300	141751200	119877000	86401390	15554780	157176700	80866700	56739200
02/27/91	97649100	98422370	60008010	138124900	69437100	114101900	214068500	49377400	269228600	142063300	120011400	86637330	15603630	157288500	80916500	56877500
02/28/91	97876400	98663800	60263480	138354400	69669100	114404400	214401900	49516800	269394700	142348900	120128500	86848080	15644850	157384300	80959500	56993400

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: FEBRUARY 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
02/01/91	302200	300750	296850	306100	309500	403800	443300	188400	218700	376500	147500	284220	62710	126700	58900	161900	3988030
02/02/91	269400	268180	265220	273700	278300	361600	391600	228400	197100	335900	130800	253450	55100	113400	52400	143900	3618450
02/03/91	313800	311920	308820	318300	323300	419400	454800	135600	228500	391700	153700	293720	62380	131500	61200	172000	4080640
02/04/91	266400	264690	261320	270700	275100	356600	386400	166500	195100	336100	130000	249500	52820	111900	51800	145200	3520130
02/05/91	289400	287780	288240	297800	299400	388100	430700	181200	213400	360400	144000	271350	55760	121700	56100	157600	3842930
02/06/91	289400	288290	289200	298700	300100	389400	422700	181900	213200	364500	143400	272340	55660	121900	56200	157400	3844290
02/07/91	313600	312010	313020	323100	324200	421400	452200	196800	229600	392200	153900	294700	63470	132100	60900	171000	4154200
02/08/91	261700	263770	264810	273400	274700	356200	383400	166500	193500	332800	129200	248960	108370	111300	51100	144400	3564110
02/09/91	325400	350580	336370	348900	351300	454900	500800	212900	247500	422400	167000	317920	142450	141600	64700	184600	4569320
02/10/91	295900	344530	313870	324600	326800	423500	458400	198500	229700	395400	156400	295590	119520	132400	60500	172300	4247910
02/11/91	270800	315450	287820	297800	299500	388600	418500	182200	210800	362700	142000	270980	119960	121100	55100	168000	3911310
02/12/91	224600	261510	238600	247100	248000	322300	356000	151300	174100	300700	116700	224940	53270	101100	46100	156600	3222920
02/13/91	271200	316180	288950	299100	300000	390000	420900	183200	209900	364300	148000	272330	65740	122600	55800	131800	3840000
02/14/91	233500	281780	251760	266800	268800	348300	381700	161900	191100	325800	133900	241950	66480	110300	50600	136000	3450670
02/15/91	301600	289080	304230	322800	324700	422300	458500	195500	230900	395700	161900	294180	80590	134700	61400	177200	4155280
02/16/91	280600	288000	297680	297600	301900	388900	420900	180500	214000	360400	152400	271010	73240	124400	56400	165700	3873630
02/17/91	272900	288000	289170	293500	300100	386300	419000	179300	213000	362000	151000	269200	73080	123900	56200	156500	3833150
02/18/91	281300	288000	276160	284600	289100	372200	405100	173200	206600	350000	145900	258860	68270	119000	53600	154700	3726590
02/19/91	279100	275760	321670	302800	308400	398500	442000	184700	221500	374300	155300	277440	79580	127600	58200	157500	3964350
02/20/91	269100	319640	278790	297600	300500	390700	427500	181800	216400	364100	152100	272280	74930	126000	57500	155300	3884240
02/21/91	269100	324110	279960	301900	305600	396900	437800	184500	219600	371100	152500	276600	72690	127100	57900	157200	3934560
02/22/91	275800	317440	247770	295100	294400	387900	420100	180100	213100	361300	150500	270470	56020	125600	57000	151000	3803600
02/23/91	285300	327170	252140	306800	302800	400800	433800	185900	219400	372100	154000	279790	55190	128900	58600	157100	3919790
02/24/91	252200	291180	226030	273700	269700	356900	386800	165700	195600	333200	137600	248500	50140	115000	52100	141100	3495450
02/25/91	269300	308540	263270	291300	286400	376800	410600	175500	207600	350700	146500	260830	54130	123900	55600	151500	3732470
02/26/91	234000	257930	264040	246100	248700	322800	369800	149700	179300	309500	122700	224730	43750	100900	45200	123600	3222750
02/27/91	256600	278670	285160	263600	263400	341200	365800	159500	189300	312100	134400	235940	48850	111800	49800	138300	3434420
02/28/91	227300	241430	255470	229500	232000	302500	333400	139400	166100	285600	117100	210750	41220	95800	43000	115900	3036470
TOTAL	7681500	8262370	7846390	8153000	8206700	10668800	11612500	4970600	5844600	9963500	4030400	7442530	1955370	3384200	1543900	4305300	105871660

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: JANUARY 1991

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
01/31/90	81372000	82059620	43515500	121104200	52360800	91753100	189612000	39024200	257122000	121139000	111594400	71024280	11536480	150193000	77642400	47991200
01/01/91	81685200	82372560	43806010	121412900	52662900	92159100	190058400	39208300	257354300	121523200	111749300	71308310	11620050	150324200	77702400	48155000
01/02/91	81967700	82665640	44075900	121702000	52944600	92539500	190474000	39381000	257571900	121883900	111893200	71573580	11703810	150447000	77758500	48308500
01/03/91	82248600	82958650	44349740	121991400	53226500	92920500	190887200	39554200	257789400	122242700	112036000	71838890	11790820	150569800	77814900	48462100
01/04/91	82534500	83257040	44631890	122286400	53513700	93309200	191344400	39730900	258010600	122608300	112180300	72109580	11875880	150694800	77872100	48618200
01/05/91	82814300	83555200	44907340	122582000	53800800	93698700	191732300	39908400	258231600	122973400	112324700	72381100	11957240	150820100	77929600	48774800
01/06/91	83096900	83855510	45195090	122880200	54090600	94091300	192162100	40087200	258454900	123342200	112469200	72654520	12042920	150945800	77987100	48932500
01/07/91	83368900	84140370	45467680	123163100	54365300	94464400	192572900	40257300	258667800	123695600	112608500	72914030	12123410	151065300	78041700	49082700
01/08/91	83643700	84437540	45749320	123460900	54658700	94860700	193001300	40437400	258891200	124064700	112756400	73187660	12208320	151192700	78100400	49240000
01/09/91	83904900	84690120	45927980	123706700	54914000	95226700	193440700	40603300	259080900	124412300	112896900	73446430	12258100	151316200	78160700	49389100
01/10/91	84185800	84982730	46236390	123997900	55197300	95607000	193861100	40778400	259282900	124768400	113040700	73707560	12324820	151439300	78218600	49532200
01/11/91	84470100	85277350	46548430	124292700	55485400	95995900	194291200	40956700	259489600	125132100	113186400	73974320	12391880	151563200	78276900	49676000
01/12/91	84753200	85571150	46860320	124587800	55773400	96386200	194722200	41135000	259697200	125494400	113332500	74247360	12459490	151687200	78335000	49824300
01/13/91	85048200	85867390	47170990	124883000	56074600	96774200	195149900	41313100	259906500	125857900	113480500	74519090	12527050	151810300	78392500	49972900
01/14/91	85341500	86183160	47482520	125177100	56374500	97162500	195576300	41491200	260116200	126223100	113627600	74789870	12594330	151932800	78449500	50121100
01/15/91	85625100	86502710	47793150	125473600	56674200	97548800	196004200	41669200	260322400	126585400	113773000	75062060	12660990	152055400	78506600	50268700
01/16/91	85907000	86823640	48105880	125773100	56976500	97938700	196435200	41848700	260531600	126950900	113919100	75335650	12728360	152178000	78563700	50416600
01/17/91	86188200	87144500	48394790	126070100	57277400	98324200	196861500	42026600	260740200	127310500	114064900	75606020	12796660	152300300	78620700	50566100
01/18/91	86479800	87475360	48696150	126378200	57589000	98724900	197304400	42211500	260956200	127684700	114214000	75887450	12866460	152425600	78679200	50721000
01/19/91	86773600	87760140	48982100	126665200	57882800	99102400	197722700	42385900	261160200	128035000	114359000	76152500	12930490	152545000	78734800	50872000
01/20/91	87074400	88053180	49269190	126960500	58184500	99491300	198149700	42565400	261368000	128396000	114505500	76425900	12994440	152667800	78792000	51025100
01/21/91	87371900	88345740	49555840	127255600	58485400	99879900	198578300	42745200	261575200	128757900	114650900	76698500	13056670	152790000	78849000	51179300
01/22/91	87667400	88637280	49813010	127548500	58790000	100280000	199016500	42929200	261658100	129128400	114801000	76983070	13122020	152918100	78910400	51338200
01/23/91	87958900	88930970	50087370	127841900	59092500	100671900	199451000	43100900	261873000	129498300	114950500	77259350	13186020	153041900	78968000	51495800
01/24/91	88226800	89222760	50405230	128132000	59366000	101022000	199837000	43284600	262064300	129851200	115093700	77533730	13242780	153147200	79016900	51632000
01/25/91	88514000	89516540	50691930	128428000	59665100	101408100	200260900	43463800	262275100	130212000	115237800	77774770	13307920	153269400	79074200	51780400
01/26/91	88811100	89810970	50982810	128729200	59968500	101800200	200689400	43645800	262490100	130575900	115383400	78050030	13373240	153391900	79131500	51930400
01/27/91	89121500	90105840	51275000	129027200	60269900	102188900	201117400	43826500	262703800	130940900	115529100	78322370	13438410	153514100	79188400	52081800
01/28/91	89391900	90398180	51562400	129324000	60570500	102579000	201541300	44008000	262917800	131306900	115673700	78595650	13503500	153637200	79246000	52233500
01/29/91	89641400	90690930	51850810	129619000	60869400	102967700	201960300	44189000	263129600	131669200	115816900	78868180	13567120	153759500	79303300	52385200
01/30/91	89920000	90984860	52140530	129916500	61170900	103359500	202385800	44371200	263344600	132034400	115960300	79143100	13630000	153882200	79360700	52539300
01/31/91	90194900	91265430	52417090	130201400	61462400	103735600	202789400	44546200	263550100	132385400	116098100	79405550	13689480	154000100	79415600	52688100

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: JANUARY 1991

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
01/01/91	313200	312940	290510	308700	302100	406000	446400	184100	232300	384200	154900	284030	83570	131200	60000	163800	4057950
01/02/91	282500	293080	269890	289100	281700	380400	415600	172700	217600	360700	143900	265270	83760	122800	56100	153500	3788600
01/03/91	280900	293010	273840	289400	281900	381000	413200	173200	217500	358800	142800	265310	87010	122800	56400	153600	3790670
01/04/91	285900	298390	282150	295000	287200	388700	457200	176700	221200	365600	144300	270690	85060	125000	57200	156100	3896390
01/05/91	279800	298160	275450	295600	287100	389500	387900	177500	221000	365100	144400	271520	81360	125300	57500	156600	3813790
01/06/91	282600	300310	287750	298200	289800	392600	429800	178800	223300	368800	144500	273420	85680	125700	57500	157700	3896460
01/07/91	272000	284860	272590	282900	274700	373100	410800	170100	212900	353400	139300	259510	80490	119500	54600	150200	3710950
01/08/91	274800	297170	281640	297800	293400	396300	428400	180100	223400	369100	147900	273630	84910	127400	58700	157300	3891950
01/09/91	261200	252580	178660	245800	255300	366000	439400	165900	189700	347600	140500	258770	49780	123500	60300	149100	3484090
01/10/91	280900	292610	308410	291200	283300	380300	420400	175100	202000	356100	143800	261130	66720	123100	57900	143100	3786070
01/11/91	284300	294620	312040	294800	288100	388900	430100	178300	206700	363700	145700	266760	67060	123900	58300	143800	3847080
01/12/91	283100	293800	311890	295100	288000	390300	431000	178300	207600	362300	146100	273040	67610	124000	58100	148300	3858540
01/13/91	295000	296240	310670	295200	301200	388000	427700	178100	209300	363500	148000	271730	67560	123100	57500	148600	3881400
01/14/91	293300	315770	311530	294100	299900	388300	426400	178100	209700	365200	147100	270780	67280	122500	57000	148200	3895160
01/15/91	283600	319550	310630	296500	299700	386300	427900	178000	206200	362300	145400	272190	66660	122600	57100	147600	3882230
01/16/91	281900	320930	312730	299500	302300	389900	431000	179500	209200	365500	146100	273590	67370	122600	57100	147900	3907120
01/17/91	281200	320860	288910	297000	300900	385500	426300	177900	208600	359600	145800	270370	68300	122300	57000	149500	3860040
01/18/91	291600	330860	301360	308100	311600	400700	442900	184900	216000	374200	149100	281430	69800	125300	58500	154900	4001250
01/19/91	293800	284780	285950	287000	293800	377500	418300	174400	204000	350300	145000	265050	64030	119400	55600	151000	3769910
01/20/91	300800	293040	287090	295300	301700	388900	427000	179500	207800	361000	146500	273400	63950	122800	57200	153100	3859080
01/21/91	297500	292560	286650	295100	300900	388600	428600	179800	207200	361900	145400	272600	62230	122200	57000	154200	3852440
01/22/91	295500	291540	257170	292900	304600	400100	438200	184000	82900	370500	150100	284570	65350	128100	61400	158900	3765830
01/23/91	291500	293690	274360	293400	302500	391900	434500	171700	214900	369900	149500	276280	64000	123800	57600	157600	3867130
01/24/91	267900	291790	317860	290100	273500	350100	386000	183700	191300	352900	143200	274380	56760	105300	48900	136200	3669890
01/25/91	287200	293780	286700	296000	299100	386100	423900	179200	210800	360800	144100	241040	65140	122200	57300	148400	3801760
01/26/91	297100	294430	290880	301200	303400	392100	428500	182000	215000	363900	145600	275260	65320	122500	57300	150000	3884490
01/27/91	310400	294870	292190	298000	301400	388700	428000	180700	213700	365000	145700	272340	65170	122200	56900	151400	3886670
01/28/91	270400	292340	287400	296800	300600	390100	423900	181500	214000	366000	144600	273280	65090	123100	57600	151700	3838410
01/29/91	249500	292750	288410	295000	298900	388700	419000	181000	211800	362300	143200	272530	63620	122300	57300	151700	3798010
01/30/91	278600	293930	289720	297500	301500	391800	425500	182200	215000	365200	143400	274920	62880	122700	57400	154100	3856350
01/31/91	274900	280570	276560	284900	291500	376100	403600	175000	205500	351000	137800	262450	59480	117900	54900	148800	3700960
TOTAL	8822900	9205810	8901590	9097200	9101600	11982500	13177400	5522000	6428100	11246400	4503700	8381270	2153000	3807100	1773200	4696900	118800670

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: JANUARY 1991

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)											
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM
12/31/90	1340104000	1220297000	338084000	974968000	1085982000	1318511000	-	-	-	-	-	-	-	-	-	-	-	-
01/01/90	1342079000	1222356000	339604000	977317000	1085982000	1320470000	1975000	2059000	4034000	2689	1520000	2349000	3869000	2579	0	1959000	1959000	1306
01/02/90	1343939000	1224299000	341032000	979540000	1085982000	1322311000	1860000	1943000	3803000	2697	1428000	2223000	3651000	2589	0	1841000	1841000	1306
01/03/90	1345777000	1226237000	342445000	981749000	1085982000	1324149000	1838000	1938000	3776000	2678	1413000	2209000	3622000	2569	0	1838000	1838000	1304
01/04/90	1347661000	1228215000	343881000	984014000	1085982000	1326028000	1884000	1978000	3862000	2682	1436000	2265000	3701000	2570	0	1879000	1879000	1305
01/05/90	1349529000	1230186000	345329000	986248000	1085982000	1327885000	1868000	1971000	3839000	2666	1448000	2234000	3682000	2557	0	1857000	1857000	1290
01/06/90	1351406000	1232168000	346753000	988525000	1085982000	1329771000	1877000	1982000	3859000	2680	1424000	2277000	3701000	2570	0	1886000	1886000	1310
01/07/90	1353212000	1234063000	348100000	990728000	1085982000	1331568000	1806000	1895000	3701000	2682	1347000	2203000	3550000	2572	0	1797000	1797000	1302
01/08/90	1355089000	1236039000	349554000	992971000	1085982000	1333435000	1877000	1976000	3853000	2621	1454000	2243000	3697000	2515	0	1867000	1867000	1270
01/09/90	1356856000	1237731000	351114000	994734000	1085982000	1335113000	1767000	1692000	3459000	2353	1560000	1763000	3323000	2261	0	1678000	1678000	1141
01/10/90	1358741000	1239704000	352587000	996970000	1085982000	1336981000	1885000	1973000	3858000	2679	1473000	2236000	3709000	2576	0	1868000	1868000	1297
01/11/90	1360626000	1241686000	354038000	999226000	1085982000	1338853000	1885000	1982000	3867000	2685	1451000	2256000	3707000	2574	0	1872000	1872000	1300
01/12/90	1362496000	1243662000	355508000	1001464000	1085982000	1340733000	1870000	1976000	3846000	2671	1470000	2238000	3708000	2575	0	1880000	1880000	1306
01/13/90	1364398000	1245637000	357003000	1003697000	1085982000	1342621000	1902000	1975000	3877000	2692	1495000	2233000	3728000	2589	0	1888000	1888000	1311
01/14/90	1366317000	1247611000	358493000	1005950000	1085982000	1344517000	1919000	1974000	3893000	2703	1490000	2253000	3743000	2599	0	1896000	1896000	1317
01/15/90	1368223000	1249589000	359989000	1008193000	1085982000	1346409000	1906000	1978000	3884000	2697	1496000	2243000	3739000	2597	0	1892000	1892000	1314
01/16/90	1370136000	1251562000	361473000	1010438000	1085982000	1348305000	1913000	1973000	3886000	2699	1484000	2245000	3729000	2590	0	1896000	1896000	1317
01/17/90	1372034000	1253540000	362962000	1012679000	1085982000	1350189000	1898000	1978000	3876000	2692	1489000	2241000	3730000	2590	0	1884000	1884000	1308
01/18/90	1373969000	1255559000	364475000	1014973000	1085982000	1352114000	1935000	2019000	3954000	2690	1513000	2294000	3807000	2590	0	1925000	1925000	1310
01/19/90	1375819000	1257487000	365924000	1017166000	1085982000	1353954000	1850000	1928000	3778000	2679	1449000	2193000	3642000	2583	0	1840000	1840000	1305
01/20/90	1377695000	1259468000	367397000	1019398000	1085982000	1355835000	1876000	1981000	3857000	2678	1473000	2232000	3705000	2573	0	1881000	1881000	1306
01/21/90	1379573000	1261444000	368876000	1021621000	1085982000	1357707000	1878000	1976000	3854000	2676	1479000	2223000	3702000	2571	0	1872000	1872000	1300
01/22/90	1381503000	1263242000	370442000	1023628000	1085982000	1359526000	1930000	1798000	3728000	2536	1566000	2007000	3573000	2431	0	1819000	1819000	1237
01/23/90	1383461000	1265089000	371961000	1025762000	1085982000	1361380000	1958000	1847000	3805000	2642	1519000	2134000	3653000	2537	0	1854000	1854000	1288
01/24/90	1385207000	1267027000	373287000	1027970000	1087904000	1363047000	1746000	1938000	3684000	2558	1326000	2208000	3534000	2454	1922000	1667000	3589000	2492
01/25/90	1387089000	1269000000	374732000	1030237000	1090066000	1364899000	1882000	1973000	3855000	2677	1445000	2267000	3712000	2578	2162000	1852000	4014000	2788
01/26/90	1388976000	1270976000	376190000	1032493000	1092229000	1366747000	1887000	1976000	3863000	2683	1458000	2256000	3714000	2579	2163000	1848000	4011000	2785
01/27/90	1390877000	1272951000	377675000	1034736000	1094404000	1368606000	1901000	1975000	3876000	2692	1485000	2243000	3728000	2589	2175000	1859000	4034000	2801
01/28/90	1392733000	1274925000	379146000	1036950000	1096552000	1370438000	1856000	1974000	3830000	2660	1471000	2214000	3685000	2559	2148000	1832000	3980000	2764
01/29/90	1394565000	1276897000	380606000	1039149000	1098686000	1372260000	1832000	1972000	3804000	2642	1460000	2199000	3659000	2541	2134000	1822000	3956000	2747
01/30/90	1396419000	1278871000	382078000	1041367000	1100842000	1374095000	1854000	1974000	3828000	2658	1472000	2218000	3690000	2563	2156000	1835000	3991000	2772
01/31/90	1398202000	1280768000	383493000	1043498000	1102908000	1375859000	1783000	1897000	3680000	2667	1415000	2131000	3546000	2570	2066000	1764000	3830000	2775
	58098000	60471000	45409000	68530000	16926000	57348000	58098000	60471000	118569000	2658	45409000	68530000	113939000	2554	16926000	57348000	74274000	1665

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: DECEMBER 1990

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
11/30/90	72389500	72902900	36189830	112267000	42728700	79921600	176668000	33647700	250456400	109987900	106960100	62656170	9371860	146275000	76024400	43282700
12/01/90	72668900	73193720	36462190	112534500	43029500	80270700	177051400	33808800	250652700	110312700	107109200	62901180	9443670	146392900	76076200	43422000
12/02/90	72894700	73425510	36661360	112746900	43268700	80555300	177367900	33938700	250813000	110582600	107225000	63102550	9499800	146484900	76117400	43534500
12/03/90	73202200	73741830	36930410	113032500	43595900	80940400	177789400	34114900	251029600	110948000	107383700	63374770	9581780	146612600	76174700	43690000
12/04/90	73497000	74042730	37161130	113299300	43919600	81317800	178202800	34287300	251240500	111304300	107539600	63643390	9665510	146739300	76232300	43842900
12/05/90	73790200	74344190	37418180	113568900	44233900	81698200	178619500	34459400	251453000	111664300	107699200	63913150	9743250	146868300	76290900	43997300
12/06/90	74078500	74638490	37608660	113850700	44551000	82091600	179047900	34641300	251673000	112035500	107861600	64190910	9821460	146996900	76351400	44152800
12/07/90	74357500	74928370	37842760	114134100	44859700	82465000	179455200	34815400	251883300	112381400	108017800	64455280	9895280	147118500	76407800	44301000
12/08/90	74691000	75268030	38056720	114462200	45227000	82913900	179948100	35024400	252135100	112800600	108204600	64770500	9982030	147264200	76475800	44477000
12/09/90	74962400	75552660	38056720	114737100	45530200	83280900	180348500	35196500	252341900	113144300	108359500	65029720	10050190	147383400	76531400	44622200
12/10/90	75243000	75844230	38056720	115021500	45845200	83666500	180769000	35376500	252558000	113506900	108518700	65303290	10119860	147503100	76588400	44768200
12/11/90	75493300	76150280	38064700	115317200	46162800	84049000	181183100	35553300	252777800	113872500	108669700	65574140	10189080	147638900	76651200	44910300
12/12/90	75730600	76445650	38344410	115604400	46474300	84424800	181594200	35726100	252993300	114234200	108814500	65842350	10253980	147767600	76710800	45045500
12/13/90	76007600	76743780	38622830	115894300	46790500	84808300	182016200	35899400	253211000	114595200	108961800	66118720	10319400	147897600	76770000	45194900
12/14/90	76286500	77039890	38818900	116183300	47109100	85199400	182440900	36074000	253430600	114961700	109110100	66397110	10387790	148027700	76829300	45347600
12/15/90	76606500	77353840	39170250	116489300	47454000	85604800	182889500	36255500	253659300	115345300	109266600	66684590	10458820	148161300	76889000	45511100
12/16/90	76894200	77635570	39429860	116762200	47761900	85966700	183289500	36417700	253864500	115689200	109405500	66940760	10521140	148280700	76942100	45659000
12/17/90	77204200	77939290	39711720	117058500	48095100	86357600	183721800	36593700	254086900	116063100	109554800	67218690	10587110	148406900	76970300	45812500
12/18/90	77514500	78245480	39995310	117357700	48430300	86751600	184155200	36771600	254310700	116437400	109705500	67498900	10654760	148537300	77010400	45972400
12/19/90	77806200	78532590	40271670	117638200	48736200	87122200	184561000	36938700	254521000	116790300	109846100	67763030	10716740	148659200	77052200	46123000
12/20/90	78129400	78851430	40567760	117947200	49066000	87533700	185013400	37124100	254753900	117179900	110002700	68054320	10785210	148794300	77101100	46290100
12/21/90	78429900	79146690	40836500	118234500	49368300	87917200	185431000	37296800	254970200	117542600	110147100	68325800	10847810	148919500	77147900	46446000
12/22/90	78735800	79443030	41121720	118528700	49672900	88308100	185858600	37471300	255188400	117906200	110293100	68600840	10901910	149046500	77168200	46601500
12/23/90	79061600	79756340	41421300	118835900	49997300	88714000	186300800	37654100	255415900	118286600	110447900	68885840	10955340	149179500	77186600	46765400
12/24/90	79373300	80052530	41703940	119128700	50302500	89099500	186722900	37827200	255631300	118648100	110593000	69156590	11019100	149305400	77243400	46920900
12/25/90	79659200	80338840	41976460	119411100	50599800	89471900	187131900	37995200	255840400	118998300	110734500	69418440	11079530	149426500	77293300	47071100
12/26/90	79956200	80634220	42254120	119705000	50908600	89858200	187550500	38169600	256057700	119360200	110881300	69689370	11144700	149552500	77355500	47226400
12/27/90	80247800	80925940	42529930	119996100	51212900	90241500	187965400	38342700	256271700	119718200	111025100	69958510	11211880	149676900	77412000	47380700
12/28/90	80543700	81228300	42816810	120297800	51530400	90639200	188398200	38522500	256494900	120090000	111174400	70237670	11282250	149805300	77470400	47541300
12/29/90	80786000	81462310	42966140	120519000	51787000	90973900	188758800	38670700	256679400	120407700	111301800	70480490	11366960	149939400	77525600	47679000
12/30/90	81084700	81761390	43236550	120811300	52074400	91362700	189183100	38847000	256900500	120772400	111448800	70752110	11450900	150065700	77583500	47834600
12/31/90	81372000	82059620	43515500	121104200	52360800	91753100	189612000	39024200	257122000	121139000	111594400	71024280	11536480	150193000	77642400	47991200

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: DECEMBER 1990

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
12/01/90	279400	290820	272360	267500	300800	349100	383400	161100	196300	324800	149100	245010	71810	117900	51800	139300	3600500
12/02/90	225800	231790	199170	212400	239200	284600	316500	129900	160300	269900	115800	201370	56130	92000	41200	112500	2888560
12/03/90	307500	316320	269050	285600	327200	385100	421500	176200	216600	365400	158700	272220	81980	127700	57300	155500	3923870
12/04/90	294800	300900	230720	266800	323700	377400	413400	172400	210900	356300	155900	268620	83730	126700	57600	152900	3792770
12/05/90	293200	301460	257050	269600	314300	380400	416700	172100	212500	360000	159600	269760	77740	129000	58600	154400	3826410
12/06/90	288300	294300	190480	281800	317100	393400	428400	181900	220000	371200	162400	277760	78210	128600	60500	155500	3829850
12/07/90	279000	289880	234100	283400	308700	373400	407300	174100	210300	345900	156200	264370	73820	121600	56400	148200	3726670
12/08/90	333500	339660	213960	328100	367300	448900	492900	209000	251800	419200	186800	315220	86750	145700	68000	176000	4382790
12/09/90	271400	284630	259200	274900	303200	367000	400400	172100	206800	343700	154900	259220	68160	119200	55600	145200	3685610
12/10/90	280600	291570	259200	284400	315000	385600	420500	180000	216100	362600	159200	273570	69670	119700	57000	146000	3820710
12/11/90	250300	306050	259200	295700	317600	382500	414100	176800	219800	365600	151000	270850	69220	135800	62800	142100	3819420
12/12/90	237300	295370	279710	287200	311500	375800	411100	172800	215500	361700	144800	268210	64900	128700	59600	135200	3749390
12/13/90	277000	298130	278420	289900	316200	383500	422000	173300	217700	361000	147300	276370	65420	130000	59200	149400	3844840
12/14/90	278900	296110	196070	289000	318600	391100	424700	174600	219600	366500	148300	278390	68390	130100	59300	152700	3792360
12/15/90	320000	313950	351350	306000	344900	405400	448600	181500	228700	383600	156500	287480	71030	133600	59700	163500	4155810
12/16/90	287700	281730	259610	272900	307900	361900	400000	162200	205200	343900	138900	256170	62320	119400	53100	147900	3660830
12/17/90	310000	303720	281860	296300	333200	390900	432300	176000	222400	373900	149300	277930	65970	126200	28200	153500	3921680
12/18/90	310300	306190	283590	299200	335200	394000	433400	177900	223800	374300	150700	280210	67650	130400	40100	159900	3966840
12/19/90	291700	287110	276360	280500	305900	370600	405800	167100	210300	352900	140600	264130	61980	121900	41800	150600	3729280
12/20/90	323200	318840	296090	309000	329800	411500	452400	185400	232900	389600	156600	291290	68470	135100	48900	167100	4116190
12/21/90	300500	295260	268740	287300	302300	383500	417600	172700	216300	362700	144400	271480	62600	125200	46800	155900	3813280
12/22/90	305900	296340	285220	294200	304600	390900	427600	174500	218200	363600	146000	275040	54100	127000	20300	155500	3839000
12/23/90	325800	313310	299580	307200	324400	405900	442200	182800	227500	380400	154800	285000	53430	133000	18400	163900	4017620
12/24/90	311700	296190	282640	292800	305200	385500	422100	173100	215400	361500	145100	270750	63760	125900	56800	155500	3863940
12/25/90	285900	286310	272520	282400	297300	372400	409000	168000	209100	350200	141500	261850	60430	121100	49900	150200	3718110
12/26/90	297000	295380	277660	293900	308800	386300	418600	174400	217300	361900	146800	270930	65170	126000	62200	155300	3857640
12/27/90	291600	291720	275810	291100	304300	383300	414900	173100	214000	358000	143800	269140	67180	124400	56500	154300	3813150
12/28/90	295900	302360	286880	301700	317500	397700	432800	179800	223200	371800	149300	279160	70370	128400	58400	160600	3955870
12/29/90	242300	234010	149330	221200	256600	334700	360600	148200	184500	317700	127400	242820	84710	134100	55200	137700	3231070
12/30/90	298700	299080	270410	292300	287400	388800	424300	176300	221100	364700	147000	271620	83940	126300	57900	155600	3865450
12/31/90	287300	298230	278950	292900	286400	390400	428900	177200	221500	366600	145600	272170	85580	127300	58900	156600	3874530
TOTAL	8982500	9156720	8095290	8837200	9632100	11831500	12944000	5376500	6665600	11151100	4634300	8368110	2164620	3918000	1618000	4708500	118084040

ALLIANT TECHSYSTEMS BGRS/TGRS TREATMENT CENTER WATER METER READING LOG, FOR THE MONTH OF: DECEMBER 1990

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)												
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM	
11/30/90	1281229000	1161700000	293513000	907012000	1085982000	1261437000	-	-	-	-	-	-	-	-	-	-	-	-	-
12/01/90	1283061000	1163503000	294822000	909180000	1085982000	1263208000	1832000	1803000	3635000	2754	1309000	2168000	3477000	2634	0	1771000	1771000	1342	
12/02/90	1284542000	1164832000	295829000	910870000	1085982000	1264574000	1481000	1329000	2810000	2602	1007000	1690000	2697000	2497	0	1366000	1366000	1265	
12/03/90	1286633000	1166652000	297231000	913208000	1085982000	1266469000	2091000	1820000	3911000	2716	1402000	2338000	3740000	2597	0	1895000	1895000	1316	
12/04/90	1288586000	1168430000	298624000	915371000	1085982000	1268288000	1953000	1778000	3731000	2646	1393000	2163000	3556000	2522	0	1819000	1819000	1290	
12/05/90	1290578000	1170261000	300123000	917527000	1085982000	1270148000	1992000	1831000	3823000	2655	1499000	2156000	3655000	2538	0	1860000	1860000	1292	
12/06/90	1292573000	1172069000	301640000	919640000	1085982000	1271997000	1995000	1808000	3803000	2641	1517000	2113000	3630000	2521	0	1849000	1849000	1284	
12/07/90	1294478000	1173887000	303107000	921728000	1085982000	1273804000	1905000	1818000	3723000	2698	1467000	2088000	3555000	2576	0	1807000	1807000	1309	
12/08/90	1296714000	1176004000	304824000	924178000	1085982000	1275938000	2236000	2117000	4353000	2638	1717000	2450000	4167000	2525	0	2134000	2134000	1293	
12/09/90	1298532000	1177841000	306231000	926292000	1085982000	1277711000	1818000	1837000	3655000	2707	1407000	2114000	3521000	2608	0	1773000	1773000	1313	
12/10/90	1300350000	1179635000	307657000	928308000	1085982000	1279466000	1818000	1794000	3612000	2617	1426000	2016000	3442000	2494	0	1755000	1755000	1272	
12/11/90	1302191000	1181698000	309122000	930586000	1085982000	1281363000	1841000	2063000	3904000	2603	1465000	2278000	3743000	2495	0	1897000	1897000	1265	
12/12/90	1303933000	1183639000	310537000	932709000	1085982000	1283153000	1742000	1941000	3683000	2612	1415000	2123000	3538000	2509	0	1790000	1790000	1270	
12/13/90	1305757000	1185619000	311987000	934904000	1085982000	1285003000	1824000	1980000	3804000	2642	1450000	2195000	3645000	2531	0	1850000	1850000	1285	
12/14/90	1307691000	1187465000	313497000	937010000	1085982000	1286840000	1934000	1846000	3780000	2625	1510000	2106000	3616000	2511	0	1837000	1837000	1276	
12/15/90	1309705000	1189532000	315041000	939378000	1085982000	1288824000	2014000	2067000	4081000	2721	1544000	2368000	3912000	2608	0	1984000	1984000	1323	
12/16/90	1311514000	1191386000	316440000	941495000	1085982000	1290609000	1809000	1854000	3663000	2713	1399000	2117000	3516000	2604	0	1785000	1785000	1322	
12/17/90	1313438000	1193378000	317927000	943758000	1085982000	1292506000	1924000	1992000	3916000	2719	1487000	2263000	3750000	2604	0	1897000	1897000	1317	
12/18/90	1315386000	1195399000	319419000	946070000	1085982000	1294434000	1948000	2021000	3969000	2700	1492000	2312000	3804000	2588	0	1928000	1928000	1312	
12/19/90	1317214000	1197292000	320819000	948239000	1085982000	1296238000	1828000	1893000	3721000	2696	1400000	2169000	3569000	2586	0	1804000	1804000	1307	
12/20/90	1319228000	1199393000	322371000	950635000	1085982000	1298236000	2014000	2101000	4115000	2690	1552000	2396000	3948000	2580	0	1998000	1998000	1306	
12/21/90	1321090000	1201339000	323801000	952854000	1085982000	1300081000	1862000	1946000	3808000	2701	1430000	2219000	3649000	2588	0	1845000	1845000	1309	
12/22/90	1322951000	1203313000	325236000	955089000	1085982000	1301945000	1861000	1974000	3835000	2663	1435000	2235000	3670000	2549	0	1864000	1864000	1294	
12/23/90	1324913000	1205381000	326750000	957439000	1085982000	1303901000	1962000	2068000	4030000	2687	1514000	2350000	3864000	2576	0	1956000	1956000	1304	
12/24/90	1326825000	1207357000	328209000	959708000	1085982000	1305790000	1912000	1976000	3888000	2700	1459000	2269000	3728000	2589	0	1889000	1889000	1312	
12/25/90	1328651000	1209253000	329615000	961870000	1085982000	1307598000	1826000	1896000	3722000	2697	1406000	2162000	3568000	2586	0	1808000	1808000	1310	
12/26/90	1330538000	1211233000	331069000	964120000	1085982000	1309478000	1887000	1980000	3867000	2685	1454000	2250000	3704000	2572	0	1880000	1880000	1306	
12/27/90	1332393000	1213175000	332498000	966335000	1085982000	1311322000	1855000	1942000	3797000	2693	1429000	2215000	3644000	2584	0	1844000	1844000	1308	
12/28/90	1334314000	1215191000	333981000	968629000	1085982000	1313236000	1921000	2016000	3937000	2678	1483000	2294000	3777000	2569	0	1914000	1914000	1302	
12/29/90	1336378000	1216338000	335188000	970492000	1085982000	1314780000	2064000	1147000	3211000	2230	1207000	1863000	3070000	2132	0	1544000	1544000	1072	
12/30/90	1338276000	1218320000	336650000	972752000	1085982000	1316655000	1898000	1982000	3880000	2694	1462000	2260000	3722000	2585	0	1875000	1875000	1302	
12/31/90	1340104000	1220297000	338084000	974968000	1085982000	1318511000	1828000	1977000	3805000	2642	1434000	2216000	3650000	2535	0	1856000	1856000	1289	
	58875000	58597000	44571000	67956000	0	57074000	58875000	58597000	117472000	2660	44571000	67956000	112527000	2548	0	57074000	57074000	1292	

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: NOVEMBER 1990

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
11/01/90	65249800	64649060	28280590	104646900	35791200	69868800	165667400	29045400	244812500	100455300	102687400	55436490	7293040	142810900	74496800	39312000
11/02/90	65521700	65010030	28623480	104979600	36047000	70307700	166137100	29244300	245057400	100865100	102872400	55744100	7388500	142967800	74565500	39485700
11/03/90	65718700	65274940	28873830	105225300	36246200	70632400	166497000	29393200	245238400	101167100	103009300	55973430	7455940	143078700	74614900	39610400
11/04/90	65960900	65600250	29179250	105526700	36490800	71030900	166917900	29576500	245460800	101537800	103179500	56255280	7537180	143215100	74675800	39763100
11/05/90	66203900	65926610	29483380	105827900	36734700	71430900	167341300	29759700	245683700	101912000	103350500	56537100	7616680	143351700	74736900	39916000
11/06/90	66433100	66236420	29776720	106111500	36961100	71807500	167738900	29930800	245894500	102265000	103505300	56804860	7700610	143481000	74794400	40062400
11/07/90	66675500	66564560	30089100	106412500	37201800	72207900	168162300	30114400	246118400	102639100	103670900	57090080	7785170	143616900	74855100	40216000
11/08/90	66899600	66868500	30386590	106691500	37425300	72578500	168557700	30284000	246325600	102985100	103825300	57353780	7861450	143743200	74911400	40358500
11/09/90	67145500	67198860	30720250	106995000	37667800	72978600	168987000	30468100	246551100	103360500	103993900	57638440	7940670	143880000	74972200	40514100
11/10/90	67430400	67525170	31049100	107297800	37909400	73379300	169419000	30652200	246775900	103736100	104162300	57924110	8016370	144016300	75032200	40669100
11/11/90	67709500	67844270	31360600	107590300	38139900	73761500	169845800	30828200	246990400	104094600	104329400	58196070	8086530	144146000	75089200	40817000
11/12/90	67996300	68173490	31680440	107894600	38384000	74164700	170297100	31013100	247217000	104475900	104502500	58480400	8160230	144285800	75150700	40976000
11/13/90	68286200	68506430	32007390	108200700	38623700	74563500	170731500	31197200	247441300	104843300	104678500	58766300	8228790	144417500	75209400	41127900
11/14/90	68569400	68830700	32330690	108500900	38862000	74958400	171140100	31378700	247662400	105212900	104850400	59047780	8297190	144549300	75268200	41281300
11/15/90	68810800	69093780	32590010	108744500	39054600	75276800	171479100	31525600	247840600	105517300	104992300	59279600	8357460	144664700	75320300	41415700
11/16/90	69025600	69340860	32825370	108974600	39300800	75581800	171926300	31663200	248012200	105908100	105117800	59576020	8439250	144799300	75381900	41572000
11/17/90	69303300	69668420	33149320	109278200	39623400	75981600	172344900	31845700	248236500	106282300	105286800	59862540	8527920	144933800	75441200	41727400
11/18/90	69569200	69981550	33458370	109568300	39931500	76362900	172768900	32020200	248450800	106640600	105449700	60134780	8611630	145061800	75497200	41875000
11/19/90	69865800	70304650	33776800	109868600	40250200	76757300	173202100	32200500	248672600	107012100	105620700	60416050	8695810	145194600	75555100	42028900
11/20/90	70169000	70616610	34083930	110158900	40558400	77138400	173627800	32374600	248886800	107370400	105786900	60687450	8777140	145322700	75610900	42177500
11/21/90	70485500	70940420	34409500	110461100	40878400	77533600	174062900	32555300	249110800	107741300	105957900	60969300	8859880	145454700	75668300	42331100
11/22/90	70796900	71254740	34687920	110749900	41191600	77919800	174490100	32732200	249329100	108102800	106125600	61245270	8939560	145584700	75725400	42481600
11/23/90	71009100	71470490	34892730	110949100	41398300	78178800	174775200	32851200	249476300	108346800	106237300	61428840	8993070	145676600	75764200	42585800
11/24/90	71009100	71470490	34892730	110949100	41398300	78178800	174775200	32851200	249476300	108346800	106237300	61428840	8993070	145676600	75764200	42585800
11/25/90	71009100	71470490	34892730	110949100	41398300	78178800	174775200	32851200	249476300	108346800	106237300	61428840	8993070	145676600	75764200	42585800
11/26/90	71190400	71649960	35015900	111114400	41444000	78411300	175027600	32953800	249603200	108568600	106329500	61591840	9044070	145773800	75802200	42684300
11/27/90	71459300	71930270	35282040	111372000	41731200	78748300	175391900	33108500	249794100	108887100	106469600	61829340	9120440	145886400	75851900	42818700
11/28/90	71774100	72259470	35587380	111674700	42070300	79147000	175815100	33290600	250019400	109262100	106635100	62110470	9208980	146018200	75910400	42976000
11/29/90	72082300	72581660	35891860	111971300	42399300	79534000	176244000	33469200	250237900	109625400	106797500	62382860	9291570	146147100	75967400	43129600
11/30/90	72389500	72902900	36189830	112267000	42728700	79921600	176668000	33647700	250456400	109987900	106960100	62656170	9371860	146275000	76024400	43282700

ALLIANT TECHSYSTEMS BGRS/TGRS EXTRACTION WELL WATER PUMPED, FOR THE MONTH OF: NOVEMBER 1990

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
11/01/90	157400	193370	109900	179700	163400	245500	271000	105100	132900	236800	95400	175340	39750	119900	40200	109100	2374760
11/02/90	271900	360970	342890	332700	255800	438900	469700	198900	244900	409800	185000	307610	95460	156900	68700	173700	4313830
11/03/90	197000	264910	250350	245700	199200	324700	359900	148900	181000	302000	136900	229330	67440	110900	49400	124700	3192330
11/04/90	242200	325310	305420	301400	244600	398500	420900	183300	222400	370700	170200	281850	81240	136400	60900	152700	3898020
11/05/90	243000	326360	304130	301200	243900	400000	423400	183200	222900	374200	171000	281820	79500	136600	61100	152900	3905210
11/06/90	229200	309810	293340	283600	226400	376600	397600	171100	210800	353000	154800	267760	83930	129300	57500	146400	3691140
11/07/90	242400	328140	312380	301000	240700	400400	423400	183600	223900	374100	165600	285220	84560	135900	60700	153600	3915600
11/08/90	224100	303940	297490	279000	223500	370600	395400	169600	207200	346000	154400	263700	76280	126300	56300	142500	3636310
11/09/90	245900	330360	333660	303500	242500	400100	429300	184100	225500	375400	168600	284660	79220	136800	60800	155600	3956000
11/10/90	284900	326310	328850	302800	241600	400700	432000	184100	224800	375600	168400	285670	75700	136300	60000	155000	3982730
11/11/90	279100	319100	311500	292500	230500	382200	426800	176000	214500	358500	167100	271960	70160	129700	57000	147900	3834520
11/12/90	286800	329220	319840	304300	244100	403200	451300	184900	226600	381300	173100	284330	73700	139800	61500	159000	4022990
11/13/90	289900	332940	326950	306100	239700	398800	434400	184100	224300	367400	176000	285900	68560	131700	58700	151900	3977350
11/14/90	283200	324270	323300	300200	238300	394900	408600	181500	221100	369600	171900	281480	68400	131800	58800	153400	3910750
11/15/90	241400	263080	259320	243600	192600	318400	339000	146900	178200	304400	141900	231820	60270	115400	52100	134400	3222790
11/16/90	214800	247080	235360	230100	246200	305000	447200	137600	171600	390800	125500	296420	81790	134600	61600	156300	3481950
11/17/90	277700	327560	323950	303600	322600	399800	418600	182500	224300	374200	169000	286520	88670	134500	59300	155400	4048200
11/18/90	265900	313130	309050	290100	308100	381300	424000	174500	214300	358300	162900	272240	83710	128000	56000	147600	3889130
11/19/90	296600	323100	318430	300300	318700	394400	433200	180300	221800	371500	171000	281270	84180	132800	57900	153900	4039380
11/20/90	303200	311960	307130	290300	308200	381100	425700	174100	214200	358300	166200	271400	81330	128100	55800	148600	3925620
11/21/90	316500	323810	325570	302200	320000	395200	435100	180700	224000	370900	171000	281850	82740	132000	57400	153600	4072570
11/22/90	311400	314320	278420	288800	313200	386200	427200	176900	218300	361500	167700	275970	79680	130000	57100	150500	3937190
11/23/90	212200	215750	204810	199200	206700	259000	285100	119000	147200	244000	111700	183570	53510	91900	38800	104200	2676640
11/24/90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/25/90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/26/90	181300	179470	123170	165300	45700	232500	252400	102600	126900	221800	92200	163000	51000	97200	38000	98500	2171040
11/27/90	268900	280310	266140	257600	287200	337000	364300	154700	190900	318500	140100	237500	76370	112600	49700	134400	3476220
11/28/90	314800	329200	305340	302700	339100	398700	423200	182100	225300	375000	165500	281130	88540	131800	58500	157300	4078210
11/29/90	308200	322190	304480	296600	329000	387000	428900	178600	218500	363300	162400	272390	82590	128900	57000	153600	3993650
11/30/90	307200	321240	297970	295700	329400	387600	424000	178500	218500	362500	162600	273310	80290	127900	57000	153100	3976810
TOTAL	7297100	8447210	8019140	7799800	7100900	10298300	11271600	4707400	5776800	9769400	4368100	7395020	2118570	3584000	1567800	4079800	103600940

*** NOTE: WHEN TRACKING TOTAL SYSTEM FLOW VOLUMES USE METERS #1 AND #2. METERS #3 & #4 AND #5 & #6 ARE PROCESS CONTROL METERS ONLY AND SHOULD NOT BE USED FOR TRACKING FLOW VOLUMES. ***

HONEYWELL BGRS/TGRS EXTRACTION WELL WATER METER READING LOG
 FOR THE MONTH OF: OCTOBER 1990

METER READING (GALLONS X 100)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5
09/30/90	57537300	55656690	22964180	95502000	28082000	57604600	152350300	23491200	238080500	88969100	97548700	46593030	4907410	138551900	72662700	34598400
10/01/90	57782700	55656690	23033770	95797020	28356780	58007510	152785600	23674210	238299410	89339880	97714600	46882363	5018188	138688070	72722690	34748790
10/02/90	58042000	55656830	23033770	96092040	28631560	58410420	153220900	23857220	238518320	89710660	97880000	47171696	5128966	138824240	72782680	34899180
10/03/90	58313300	55656830	23033770	96387060	28906340	58813330	153656200	24040230	238737230	90081440	98055100	47461029	5239744	138960410	72842670	35049570
10/04/90	58556500	55934360	23033770	96682080	29181120	59216240	154091500	24223240	238956140	90452220	98211000	47750362	5350522	139096580	72902660	35199960
10/05/90	58809800	56268370	23033770	96977100	29455900	59619150	154526800	24406250	239175050	90823000	98375800	48039695	5461300	139232750	72962650	35350350
10/06/90	59071700	56614870	23033770	97272120	29730680	60022060	154962100	24589260	239393960	91193780	98547200	48329028	5572078	139368920	73022640	35500740
10/07/90	59314200	56935070	23033770	97567140	30005460	60424970	155397400	24772270	239612870	91564560	98706300	48618361	5682856	139505090	73082630	35651130
10/08/90	59606900	57321590	23033770	97862160	30280240	60827880	155832700	24955280	239831780	91935340	98899400	48907694	5793634	139641260	73142620	35801520
10/09/90	59860300	57656040	23033770	98157180	30555020	61230790	156268000	25138290	240050690	92306120	99066900	49197027	5904412	139777430	73202610	35951910
10/10/90	60139000	58025440	23033770	98452200	30829800	61633700	156703300	25321300	240269600	92676900	99251700	49486360	6015190	139913600	73262600	36102300
10/11/90	60352200	58309480	23033770	98697700	31059500	61972700	157070900	25475100	240454300	92996100	99392700	49730570	6104880	140023200	73311500	36221800
10/12/90	60660000	58674120	23040780	99035400	31059900	62420600	157553900	25680400	240700900	93453700	99580900	50049010	6179900	140183800	73387700	36403200
10/13/90	60874700	58949030	23268140	99287300	31062500	62764000	157915800	25835400	240890800	93715700	99720200	50298000	6234920	140300500	73440500	36534200
10/14/90	61108000	59259240	23523190	99572000	31314000	63139500	158320500	26006600	241100300	94066400	99878200	50568050	6295990	140430200	73495800	36679500
10/15/90	61387200	59631670	23815950	99913700	31615300	63589500	158825300	26211600	241349400	94475100	100069100	50891270	6367690	140585100	73561800	36852600
10/16/90	61595500	59908370	24033170	100168500	31839700	63924800	159194300	26364400	241535100	94818800	100212300	51132940	6419990	140700600	73611200	36981200
10/17/90	61842700	60228980	24303260	100467900	32105900	64322900	159626200	26544900	241754600	95176300	100376300	51418970	6475720	140837000	73670000	37134500
10/18/90	62074000	60522770	24544220	100749400	32356200	64696200	160027000	26714700	241959000	95527200	100531100	51687900	6528100	140964800	73725500	37276900
10/19/90	62306900	60871200	24785420	101073900	32612100	65079600	160483300	26886200	242197200	95934400	100684700	51997380	6590330	141111800	73782000	37442400
10/20/90	62538000	61175850	25056810	101356700	32862500	65454300	160888400	27056200	242403700	96285900	100840900	52266090	6643850	141239900	73837100	37586500
10/21/90	62795100	61512060	25352560	101670100	33138800	65865500	161338300	27244400	242629900	96672700	101016400	52559380	6702500	141381300	73897800	37744900
10/22/90	63023500	61804780	25610030	101952600	33390100	66242800	161747600	27414700	242835700	97032200	101172000	52831370	6754000	141508400	73953000	37887700
10/23/90	63260700	62109190	25879200	102243900	33648400	66627900	162144400	27589700	243045100	97390900	101335200	53108150	6803640	141635900	74008800	38031100
10/24/90	63493800	62411970	26141540	102529400	33900100	67003900	162547900	27761000	243249800	97740400	101494700	53377880	6861390	141769500	74064800	38175600
10/25/90	63695300	62737500	26414160	102779200	34121500	67339400	162910400	27911100	243433900	98060300	101630000	53618810	6902950	141880500	74112900	38301700
10/26/90	63929300	62975550	26727490	103067300	34375100	67717900	163320200	28083800	243640900	98418400	101790100	53889110	6954310	142011200	74169900	38451600
10/27/90	64169900	63286160	27054350	103365100	34637800	68111700	163748900	28263000	243856200	98789500	101956200	54171180	7018940	142145000	74228100	38605000
10/28/90	64438700	63634160	27421540	103699000	34931300	68550900	164214500	28462900	244097300	99204600	102140900	54485040	7089310	142294300	74293100	38775100
10/29/90	64682300	63951710	27754990	104003100	35198100	68950600	164664800	28646200	244318200	99583900	102310400	54770280	7153160	142429600	74351700	38931200
10/30/90	64910800	64248560	28070730	104289400	35449700	69328000	165092700	28816700	244524600	99943200	102471500	55039980	7209070	142556400	74406700	39078400
10/31/90	65092400	64455690	28170690	104467200	35627800	69623300	165396400	28940300	244679600	100218500	102592000	55261150	7253290	142691000	74456600	39202900

HONEYWELL BGRS/TGRS EXTRACTION WELL WATER PUMPED
FOR THE MONTH OF: OCTOBER 1990

VOLUME OF WATER PUMPED (GALLONS)

	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	SC2	SC3	SC4	SC5	TOTAL
10/01/90	245400	285120	69590	295020	274780	402910	435300	183010	218910	370780	165900	289333	110778	136170	59990	150390	3693381
10/02/90	259300	289440	0	295020	274780	402910	435300	183010	218910	370780	165400	289333	110778	136170	59990	150390	3641511
10/03/90	271300	288000	0	295020	274780	402910	435300	183010	218910	370780	175100	289333	110778	136170	59990	150390	3661771
10/04/90	243200	277530	0	295020	274780	402910	435300	183010	218910	370780	155900	289333	110778	136170	59990	150390	3604001
10/05/90	253300	334010	0	295020	274780	402910	435300	183010	218910	370780	164800	289333	110778	136170	59990	150390	3679481
10/06/90	261900	346500	0	295020	274780	402910	435300	183010	218910	370780	171400	289333	110778	136170	59990	150390	3707171
10/07/90	242500	320200	0	295020	274780	402910	435300	183010	218910	370780	159100	289333	110778	136170	59990	150390	3649171
10/08/90	292700	386520	0	295020	274780	402910	435300	183010	218910	370780	193100	289333	110778	136170	59990	150390	3799691
10/09/90	253400	334450	0	295020	274780	402910	435300	183010	218910	370780	167500	289333	110778	136170	59990	150390	3682721
10/10/90	278700	369400	0	295020	274780	402910	435300	183010	218910	370780	184800	289333	110778	136170	59990	150390	3760271
10/11/90	213200	284040	0	245500	229700	339000	367600	153800	184700	319200	141000	244210	89690	109600	48900	119500	3089640
10/12/90	307800	364640	7010	337700	400	447900	483000	205300	246600	457600	188200	318440	75020	160600	76200	181400	3857810
10/13/90	214700	274910	227360	251900	244800	343400	361900	155000	189900	262000	139300	248990	55020	116700	52800	131000	3269680
10/14/90	233300	310210	255050	284700	251500	375500	404700	171200	209500	350700	158000	270050	61070	129700	55300	145300	3665780
10/15/90	279200	372430	292760	341700	301300	450000	504800	205000	249100	408700	190900	323220	71700	154900	66000	173100	4384810
10/16/90	208300	276700	217220	254800	224400	335300	369000	152800	185700	343700	143200	241670	52300	115500	49400	128600	3298590
10/17/90	247200	320610	270090	299400	266200	398100	431900	180500	219500	357500	164000	286030	55730	136400	58800	153300	3845260
10/18/90	231300	293790	240960	281500	250300	373300	400800	169800	204400	350900	154800	268930	52380	127800	55500	142400	3598860
10/19/90	232900	348430	241200	324500	255900	383400	456300	171500	238200	407200	153600	309480	62230	147000	56500	165500	3953840
10/20/90	231100	304650	271390	282800	250400	374700	405100	170000	206500	351500	156200	268710	53520	128100	55100	144100	3653870
10/21/90	257100	336210	295750	313400	276300	411200	449900	188200	226200	386800	175500	293290	58650	141400	60700	158400	4029000
10/22/90	228400	292720	257470	282500	251300	377300	409300	170300	205800	359500	155600	271990	51500	127100	55200	142800	3638780
10/23/90	237200	304410	269170	291300	258300	385100	396800	175000	209400	358700	163200	276780	49640	127500	55800	143400	3701700
10/24/90	233100	302780	262340	285500	251700	376000	403500	171300	204700	349500	159500	269730	57750	133600	56000	144500	3661500
10/25/90	201500	325530	272620	249800	221400	335500	362500	150100	184100	319900	135300	240930	41560	111000	48100	126100	3325940
10/26/90	234000	238050	313330	288100	253600	378500	409800	172700	207000	358100	160100	270300	51360	130700	57000	149900	3672540
10/27/90	240600	310610	326860	297800	262700	393800	428700	179200	215300	371100	166100	282070	64630	133800	58200	153400	3884870
10/28/90	268800	348000	367190	333900	293500	439200	465600	199900	241100	415100	184700	313860	70370	149300	65000	170100	4325620
10/29/90	243600	317550	333450	304100	266800	399700	450300	183300	220900	379300	169500	285240	63850	135300	58600	156100	3967590
10/30/90	228500	296850	315740	286300	251600	377400	427900	170500	206400	359300	161100	269700	55910	126800	55000	147200	3736200
10/31/90	181600	207130	99960	177800	178100	295300	303700	123600	155000	275300	120500	221170	44220	134600	49900	124500	2692380
TOTAL	7555100	9661420	5206510	8965200	7788000	12018700	13046100	5449100	6599100	11249400	5043300	8668120	2345880	4139100	1793900	4604500	114133430

HONEYWELL BGRS/TGRS TREATMENT CENTER WATER METER READING LOG

FOR THE MONTH OF: OCTOBER 1990

DATE	METER READINGS (GALLONS)						VOLUME OF TREATED WATER (GALLONS) AND FLOWRATE (GALLONS PER MINUTE, GPM)											
	Meter #1	Meter #2	Meter #3	Meter #4	Meter #5	Meter #6	Meter #1	Meter #2	TOTAL	GPM	Meter #3	Meter #4	TOTAL	GPM	Meter #5	Meter #6	TOTAL	GPM
09/30/90	1178174000	1048418000	216008000	777213000	1022965000	1157972000	-	-	-	-	-	-	-	-	-	-	-	-
10/01/90	1180015000	1050422000	217414000	779490000	1025141000	1159794000	1841000	2004000	3845000	2670	1406000	2277000	3683000	2558	2176000	1822000	3998000	2776
10/02/90	1181630000	1052413000	218743000	781620000	1027183000	1161506000	1615000	1991000	3606000	2504	1329000	2130000	3459000	2402	2042000	1712000	3754000	2607
10/03/90	1183338000	1054514000	220174000	783839000	1029340000	1163312000	1708000	2101000	3809000	2514	1431000	2219000	3650000	2409	2157000	1806000	3963000	2616
10/04/90	1184809000	1056380000	221423000	785800000	1031232000	1164897000	1471000	1866000	3337000	2472	1249000	1961000	3210000	2378	1892000	1585000	3477000	2576
10/05/90	1186392000	1058335000	222749000	787861000	1033232000	1166572000	1583000	1955000	3538000	2509	1326000	2061000	3387000	2402	2000000	1675000	3675000	2606
10/06/90	1188032000	1060358000	224127000	790006000	1035305000	1168310000	1640000	2023000	3663000	2518	1378000	2145000	3523000	2421	2073000	1738000	3811000	2619
10/07/90	1189537000	1062229000	225401000	791970000	1037221000	1169915000	1505000	1871000	3376000	2501	1274000	1964000	3238000	2399	1916000	1605000	3521000	2608
10/08/90	1191357000	1064476000	226930000	794352000	1039525000	1171846000	1820000	2247000	4067000	2487	1529000	2382000	3911000	2392	2304000	1931000	4235000	2590
10/09/90	1192964000	1066455000	228277000	796444000	1041555000	1173457000	1607000	1979000	3586000	2516	1347000	2092000	3439000	2413	2030000	1611000	3641000	2555
10/10/90	1194699000	1068600000	229699000	798761000	1043753000	1175389000	1735000	2145000	3880000	2487	1422000	2317000	3739000	2397	2198000	1932000	4130000	2647
10/11/90	1196010000	1070205000	230767000	800480000	1045411000	1176774000	1311000	1605000	2916000	2525	1068000	1719000	2787000	2413	1658000	1385000	3043000	2635
10/12/90	1197592000	1072555000	232251000	802776000	1047627000	1178628000	1582000	2350000	3932000	2279	1484000	2296000	3780000	2191	2216000	1854000	4070000	2359
10/13/90	1198946000	1074262000	233365000	804600000	1049363000	1180080000	1354000	1707000	3061000	2489	1114000	1824000	2938000	2389	1736000	1452000	3188000	2592
10/14/90	1200699000	1076172000	234703000	806774000	1051437000	1181820000	1753000	1910000	3663000	2654	1338000	2174000	3512000	2545	2074000	1740000	3814000	2764
10/15/90	1202794000	1078456000	236279000	809400000	1053924000	1183905000	2095000	2284000	4379000	2654	1576000	2626000	4202000	2547	2487000	2085000	4572000	2771
10/16/90	1204346000	1080159000	237465000	811337000	1055770000	1185456000	1552000	1703000	3255000	2646	1186000	1937000	3123000	2539	1846000	1551000	3397000	2762
10/17/90	1206193000	1082168000	238857000	813646000	1057955000	1187286000	1847000	2009000	3856000	2623	1392000	2309000	3701000	2518	2185000	1830000	4015000	2731
10/18/90	1207892000	1084124000	240169000	815853000	1060031000	1189028000	1699000	1956000	3655000	2649	1312000	2207000	3519000	2550	2076000	1742000	3818000	2767
10/19/90	1209626000	1086244000	241577000	818134000	1062211000	1190857000	1734000	2120000	3854000	2569	1408000	2281000	3689000	2459	2180000	1829000	4009000	2673
10/20/90	1211383000	1088146000	242921000	820300000	1064283000	1192590000	1757000	1902000	3659000	2651	1344000	2166000	3510000	2543	2072000	1733000	3805000	2757
10/21/90	1213315000	1090247000	244373000	822721000	1066577000	1194503000	1932000	2101000	4033000	2610	1452000	2421000	3873000	2507	2294000	1913000	4207000	2723
10/22/90	1215045000	1092149000	245689000	824873000	1068635000	1196223000	1730000	1902000	3632000	2632	1316000	2152000	3468000	2513	2058000	1720000	3778000	2738
10/23/90	1216788000	1094075000	247025000	827063000	1070715000	1197961000	1743000	1926000	3669000	2630	1336000	2190000	3526000	2528	2080000	1738000	3818000	2737
10/24/90	1218558000	1096024000	248352000	829311000	1072826000	1199726000	1770000	1949000	3719000	2638	1327000	2248000	3575000	2535	2111000	1765000	3876000	2749
10/25/90	1220061000	1097625000	249456000	831181000	1074578000	1201190000	1503000	1601000	3104000	2112	1104000	1870000	2974000	2023	1752000	1464000	3216000	2188
10/26/90	1221905000	1099601000	250850000	833449000	1076747000	1203001000	1844000	1976000	3820000	2653	1394000	2268000	3662000	2543	2169000	1811000	3980000	2764
10/27/90	1223774000	1101604000	252272000	835732000	1078945000	1204834000	1869000	2003000	3872000	2689	1422000	2283000	3705000	2573	2198000	1833000	4031000	2799
10/28/90	1225837000	1103834000	253856000	838270000	1081388000	1206875000	2063000	2230000	4293000	2700	1584000	2538000	4122000	2592	2443000	2041000	4484000	2820
10/29/90	1227751000	1105864000	255285000	840622000	1083631000	1208745000	1914000	2030000	3944000	2683	1429000	2352000	3781000	2572	2243000	1870000	4113000	2798
10/30/90	1229530000	1107750000	256612000	842804000	1085710000	1210479000	1779000	1886000	3665000	2656	1327000	2182000	3509000	2543	2079000	1734000	3813000	2763
10/31/90	1231587000	1108450000	257608000	844442000	1085982000	1211782000	2057000	700000	2757000	1915	996000	1638000	2634000	1829	272000	1303000	1575000	1094
	53413000	60032000	41600000	67229000	63017000	53810000	53413000	60032000	113445000	2543	41600000	67229000	108829000	2439	63017000	53810000	116827000	2619

Appendix H.2

1991 TGRS Inspection and Maintenance Activities

OCTOBER 1990

NOTES:

- (1) ON 10/01/90, B-3'S FLOW METER INOPERATIVE. SUB CONTRACTOR ON SITE TO TROUBLESHOOT. FLOW METER STOPPED APPROX. 5.5 HRS AFTER 09/30'S INSPECTION.
- (2) ON 10/03/90, B-2'S FLOW METER WAS INTERCHANGED WITH B-3'S. THE OLD, B-3 FLOW METER NUMBERS WERE ROLLED BACK TO B-2'S ORIGINAL NUMBER. DOWN TIME WAS 2.5 HRS.
- (3) ON 10/12/90, B-3 HAD NEW PUMP AND MOTOR INSTALLED. APPROXIMATELY 4.0 HOURS WAS TAKEN FOR THE INSTALLATION.
- (4) ON 10/12/90, B-5 HAD STOPPED FLOW. RESET OF THE PLC COMMAND (116) RESTARTED PUMP AND IS RUNNING PROPERLY. CLOSER ATTENTION WILL BE DONE DURING DAILY INSPECTIONS. FLOW VOLUMES WERE ESTIMATED FROM PRESSURE AND FLOW DATA.
- (5) ON 10/18/90, PUMPHOUSES B-1,B-3,B-5,B-6,B-8 AND B-11 WERE MANUALLY SHUT OFF DUE TO PUMP REPLACEMENT IN WET WELL #1 IN TREATMENT CENTER. DOWN TIME WAS 3.0 HOURS.
- (6) ON 10/24/90, SYSTEM MANUALLY SHUT OFF DUE TO FCC ELECTRICAL REPAIRS. DOWN TIME 5.0 HOURS.
- (7) ON 10/31/90, WELL FIELD CYCLED 77 TIMES WITHIN A 24 HOUR PERIOD. E.C.V. #2 IN T.C. HAD A CLOGGED SOLENOID CAUSING THE E.C.V. TO PARTIALLY CLOSE. SOLENOID WAS REMOVED AND CLEANED, WORKS PROPERLY.
- (8) ON 10/31/90, FLOW METER #5 IN T.C. WAS INOPERATIVE. FLOW IS OCCURRING BUT, METER IS STICKING. UNABLE TO LOOSEN METER, TROUBLE SHOOTING WILL CONTINUE.

NOVEMBER 1990

NOTES:

- (1) ON 12/01/90, FCC REQUESTED TREATMENT CENTER BE SHUT DOWN FOR THE DAY DUE TO ELECTRIC POWER POLE INSTALLMENTS. DOWN TIME = 9.0 HRS..

DECEMBER 1990

NOTES:

- (1) ON 12/01/90, FCC REQUESTED TREATMENT CENTER BE SHUT DOWN FOR THE DAY DUE TO ELECTRIC POWER POLE INSTALLMENTS. DOWN TIME = 9.0 HRS..
- (2) ON 12/05/90, MONTHLY INSPECTION OF TREATMENT CENTER AND PUMPHOUSES. EXTRACTION WELLS B-1,B-2,B-3,B-5 FLOW RATES WERE ABOVE TARGET FLOW RATES AND TREATMENT CENTER WET WELL PUMP CAPACITY. THIS CAUSED THE EXTRACTION WELL FIELD TO CYCLE. WELLS B-1,B-2,B-3,B-5 FLOW RATES ADJUSTED TO MEET TARGET FLOW RATES.
- (3) ON 12/08/90, B-3'S FLOW METER INOPERATIVE. TROUBLE SHOOTING WILL BE PERFORMED ON MONDAY, 12/10/90.
- (4) ON 12/11/90, RUBBER O-RING FROM INSPECTION PORT HOLE ON THE WELL COVER WAS THE PROBLEM FOR AN INOPERATIVE FLOW METER IN B-3. THE O-RING HAD JAMMED THE METER IMPELLER.
- (5) ON 12/23/90, BLOWER #2 IN TREATMENT CENTER HAD A BROKEN BLOWER BELT. SYSTEM REMAINED ON DURING REPAIRS. TIME OF REPAIR WAS ONE HALF HOUR.
- (6) ON 12/24/90, B-5'S PRESSURE GAUGE WAS BROKEN. REMOVED AND REPLACED GAUGE WITH A NEW 300 p.s.i. U.S GAUGE. PRESSURE READING IS AT 95 p.s.i..
- (7) ON 12/29/90, WELL FIELD HAD CYCLED 58 TIMES WITHIN A 24 HOUR PERIOD. E.C.V. #2 IN T.C. WAS PARTIALLY CLOSED DUE TO A CLOGGED SOLENOID VALVE.

JANUARY 1991

NOTES:

- (1) ON 01/07/91, MONTHLY PREVENTIVE MAINTENANCE AND INSPECTION WAS PERFORMED. TREATMENT CENTER DONE ON 01/07 AND PUMPHOUSES DONE ON 01/08. SYSTEM CYCLED 4 TIMES TO BALANCE THE FLOWS.
- (2) ON 01/09/91, WELL FIELD CYCLED 48 TIMES WITHIN 24 HOUR PERIOD. E.C.V. #4 IN TREATMENT CENTER NOT FUNCTIONING PROPERLY. TROUBLESHOOTING WILL CONTINUE TOMORROW.
- (3) ON 01/16/91, AUXILIARY HEATER IN PUMPHOUSE SC-4 HAS BROKEN COOLING FAN. HEATER COILS BURNING EXTERIOR HEATER PAINT. A REPLACEMENT HEATER IS ON ORDER.
- (4) ON 01/21/91, WELL FIELD CYCLED 47 TIMES WITHIN A 24 HOUR PERIOD. PROBLEM BEING THE E.C.V.'S #3 AND #4 IN THE TREATMENT CENTER. THE VALVES WERE STICKING, PARTIALLY CLOSED.
- (5) ON 01/23/91, BLOWER #2 FOUND TO BE INOPERATIVE. A SERVICE CALL WAS MADE TO BERGERSON-CASWELL. PUMPHOUSES B5, B6, B7, B9, B12, AND THE SOURCE CONTROL WELLS WERE MANUALLY SHUT OFF.
- (6) ON 01/24/91, BLOWER #4 FOUND TO BE INOPERATIVE. BLOWER BELTS WERE FOUND TO BE FINE. CIRCUIT BREAKER HAD BEEN TRIPPED, RESET AT THE MCC CONTROL.

FEBRUARY 1991

NOTES:

- (1) ON 02/11/91, BLOWER FLOW GAUGE FOUND INOPERATIVE. TROUBLESHOOTING WILL CONTINUE ON 02/12/91.
- (2) ON 02/11/91, PUMPHOUSE SC-5 WAS UNACCESSIBLE. DOOR HANDLE FOUND TO BE BROKEN. UNABLE TO MONITOR OPERATIONS THIS DAY. A LOCAL LOCKSMITH WILL BE CONTACTED FOR SERVICE REPAIR.
- (3) ON 02/15/91, AIR FLOW GAUGE FOR TOWER #4 HAS BEEN REMOVED AND SHIPPED TO MANUFACTURE FOR REPAIR.
- (4) ON 02/15/91, PUMPHOUSE B-2 HAS INOPERATIVE FLOW METER. FLOW IS OCCURRING BUT, NEEDLE ISN'T INDICATING FLOW MEASURE OR GALLON TOTALS. REPAIR WILL BE PERFORMED ON 02/18/91 DURING P.M. WORK.
- (5) ON 02/18/91, B-2'S FLOW METER HAD A BROKEN SPRING LOADED DRIVE SHAFT. INSTALLED NEW DRIVE SHAFT FROM SPARE METER. FLOW METER FUNCTIONING PROPERLY.
- (6) ON 02/25/91, BEN IMBERTSON OF FCC CONTACTED CRA REQUESTING TREATMENT CENTER BE TURNED OFF DUE TO ELECTRICAL REPAIRS WITHIN BUILDING 116. THE PLC PANEL AND THE PUMP DIRECTORS WERE TURNED OFF BY CRA OPERATIONS PERSONNEL AT 9:00 a.m.. DOWN TIME WAS 5.5 HOURS.
- (7) ON 02/27/91, BEN IMBERTSON OF FCC CONTACTED CRA AND REQUESTED TREATMENT CENTER BE TURNED OFF. CONTINUED ELECTRICAL REPAIR IN BUILDING 116 WAS PERFORMED. SYSTEM DOWN TIME WAS 9.5 HOURS.

MARCH 1991

NOTES:

- (1) ON 03/02/91, E.C.V.'S #1 AND #2 HAD "CLOSED WITHOUT COMMAND". RESETTNG OF THE PUMP DIRECTORS 1 AND 2 WERE PERFORMED. VISUAL INSPECTION DURING RESTART WAS DONE, SYSTEM O.K.. ESTIMATED DOWN TIME WAS WITHIN 12 HOURS AFTER THE DAILY INSPECTION. IF THIS WAS A POWER DELAY MALFUNCTION, THE AUTO-DIALER WOULD HAVE BEEN ACTIVATED AND WOULD HAVE CONTACTED THE PROPER PERSONNEL.
- (2) ON 03/06/91, E.C.V. #2 IN TREATMENT CENTER HAD "CLOSED W/OUT COMMAND" AND THE WELL FIELD HAD CYCLED 39 TIMES. MANUAL RESET AT E.C.V. #2'S PUMP DIRECTOR WAS PERFORMED. SYSTEM OPERATIONS FULLY RESTORED.
- (3) ON 03/15/91, FCC CONTACTED CRA AND REQUESTED TREATMENT CENTER BE TURNED OFF COMPLETELY DUE TO ELECTRICAL REPAIRS WITHIN BLDG. #116. SYSTEM DOWN TIME WAS 7.5 HOURS.
- (4) ON 03/20/91, BEN IMBERTSON OF FCC REQUESTED TO HAVE POWER SHUT OFF TO THE TREATMENT CENTER DUE TO ELECTRICAL REPAIRS IN BUILDING #116. DOWN TIME WAS 1.25 HOURS.
- (5) ON 03/22/91, FLOW METER IN B-2 FOUND TO BE INOPERATIVE. ACTUAL FLOW IS OCCURRING BUT UNABLE TO COLLECT TOTAL GALLONS FOR THE DAY.
- (6) ON 03/23/91, DURING DAILY INSPECTION. BLOWER #2 HAD A BROKEN BELT. A SPARE BELT IN INVENTORY WAS USED AND THE BLOWER WAS BACK RUNNING AT 11:10 a.m..
- (7) ON 03/23/91, DURING DAILY INSPECTION. AIR FLOW MONITOR FOR TOWER #4 WAS INSTALLED. INSPECTION OF COPPER AIR FLOW TUBES WAS MADE PROIR TO INSTALLATION. READING WAS 11,750 CFM AND FUNCTIONING PROPERLY.
- (8) ON 03/23/91, DURING DAILY INSPECTION. B-2'S INOPERATIVE FLOW METER WAS CHANGED OUT WITH A SPARE METER. THE SPARE METER'S TOTALIZER READING WAS SPUN BACK TO READ THE SAME AS THE INOPERATIVE METER.
- (9) ON 03/24/91, FLOW METER #2 IN TREATMENT CENTER FOUND INOPERATIVE. SERVICE REPAIR CALL WAS MADE FOR MONDAY, 03/25/91. BOB MEYER OF BERGERSON CASWELL WAS CONTACTED. THE CALCULATED VOLUMES FOR METER #2, ON 3/24 & 3/25 ARE BASED ON TREATMENT CENTER METERS #3 & #4.

APRIL 1991

NOTES:

- (1) ON 04/08/91, DURING THE DAILY INSPECTION PUMPHOUSE B-5'S SUBMERSIBLE PUMP AND MOTOR WERE FOUND TO BE MAKING A LOUD RATTLING NOISE. C.COOKE WAS NOTIFIED OF THE SITUATION.
- (2) ON 04/09/91, B-5'S MOTOR AND PUMP FOUND INOPERATIVE. TROUBLESHOOTING INDICATES A FAILED MOTOR AND CONDUCTOR. WELL SCHEDULED TO BE PULLED ON 4/10/91.
- (3) ON 04/10/91, NEW FRANKLIN 25 h.p. MOTOR INSTALLED IN B5. THE OLD MOTOR HAD SINGLE PHASED AND FAILED DUE TO A BURNED CONDUCTOR. LIGHTENING MAY HAVE CAUSED CONDUCTOR TO FAIL. DOWN TIME 54.5 HOURS.
- (4) ON 04/13/91, PUMPHOUSE B-2'S PUMP WAS INOPERATIVE. THE SURGE PROTECTOR WAS FOUND TO BE FAULTY. WIRES INSIDE THE SURGE PROTECTOR WERE RESODERED.
- (5) ON 04/15/91, MONTHLY PREVENTIVE MAINTENANCE INSPECTION WITH B. MEYER OF BERGERSON-CASWELL.
- (6) ON 04/17/91, ELECTRICAL SERVICE TO THE 50 KVA POLE MOUNTED TRANSFORMER WAS DICONITNUED TO ALLOW REPAIR. THE TREATMENT SYSTEM WAS ALSO SHUT DOWN DURING THE REPAIR. DOWN TIME 6.5 HOURS.
- (7) ON 04/18/91, PUMPHOUSES B-5,6,7, AND 9 WERE MANUALLY SHUT OFF TO PREVENT CYCLING OF WELL FIELD DURING THE REBUILD OF E.C.V. #3 IN THE TREATMENT CENTER. DOWN TIME 5.5 HOURS.
- (8) ON 04/29/91, SYSTEM MODIFICATIONS PERFORMED IN TREATMENT CENTER. B-C, BOB MEYER INSTALLED A SADDLE TYPE SUPPORT FOR E.C.V. #3. THE VALVE NO LONGER RESTS ON THE FORCEMAIN.
- (9) ON 04/29/91, TREATMENT CENTER WET WELL PROBE SETTINGS WERE MEASURED AND ADJUSTED. LOW WATER LEVEL PROBES FOR WWP #2 & #3 WERE RAISED. SYSTEM DOWN TIME: 1.0 HOUR.

MAY 1991

NOTES:

- (1) 5/1/91, PUMPHOUSE B-2's FLOW RATE IS BELOW THE TARGET FLOW RATE. THE FLOW METER IS THOUGHT TO BE INACCURATE. METER ACCURACY WILL BE VERIFIED DURING THE MONTHLY P.M.
- (2) 5/9/91, 5:08 A.M., THE AUTODIALER CALLED D. NELSON AT HOME. W.W.P.#1 PUMP DIRECTOR INDICATES FAILURE MODE #6 (INSUFFICIENT PRESSURE TO PRESSURE SWITCH). THE PUMP DIRECTOR WAS RESET AND THE SYSTEM RESTARTED AT 5:53 A.M. THE WELL FIELD CYCLED 4 TIMES DURING THE INCIDENT. NO DOWN TIME RECORDED.
- (3) 5/11/91, PUMPHOUSE B-2'S McCROMETER FLOW METER FOUND INOPERATIVE DURING DAILY INSPECTION. THE PRESSURE GAUGE READS 65 PSI, WHICH IS INDICATIVE TARGET FLOW RATES. A SERVICE CALL WILL BE MADE MONDAY TO BERGERSON-CASWELL TO CORRECT THE PROBLEM.
- (4) 5/13/91, PUMPHOUSE B-2'S FLOW METER HAS A BROKEN DRIVE SHAFT. THE REPLACEMENT FLOW METER TOTALIZER WAS RESET TO THE LAST NUMBER DISPLAYED ON THE BROKEN METER. DOWN TIME 1.0 HOUR.
- (5) 5/15/91, PUMPHOUSE B-2 FLOW METER WAS FOUND TO BE INACCURATE. FLOW VOLUMES AND RATES FROM 5/1/91 THROUGH 5/14/91 HAVE BEEN CORRECTED.
- (6) 5/29/91, IN THE COURSE OF THE DAILY INSPECTION BLOWER #2 BELT WAS FOUND TO BE BROKEN. BERGERSON-CASWELL, R. MEYER WAS CONTACTED TO MAKE REPAIRS. WORK COMPLETED BY 3:00 P.M. NO DOWN TIME RECORDED.
- (7) 5/29/91, TREATMENT CENTER E.C.V.#2 WAS PARTIALLY CLOSED. THIS CONDITION CAUSED THE WELL FIELD CYCLE SEVERAL TIMES. E.C.V.#2 WAS EXERCISED TO ALLEVIATE THE STICKING CONDITION. B-C, R. MEYER PERFORMED THE WORK AS HE WAS ALREADY ON-SITE.
- (8) 5/29/91, FCC, BEN IMBRETSON CONTACTED CRA, C. COOKE. TCAAP ELECTRICAL SERVICE WILL BE DOWN FOR POWER POLE REPAIR. DOWN TIME: 2 HRS.

JUNE 1991

NOTES:

- (1) 6/04/91, FCC ELECTRICIANS WERE WORKING IN BUILDING #116 WORK SHOP AREA. CRA PERSONNEL NOTICED THAT AN FCC ELECTRICIAN WAS THROWING CIRCUIT BREAKER SWITCHES LOCATED IN BREAKER PANEL "B". AFTER ONE OF THE SWITCHES WAS THROWN THE TGRS SHUT DOWN. APPARENTLY THIS WAS THE CIRCUIT BREAKER FOR TGRS CONTROL PANEL POWER. THE TGRS SHUT DOWN WAS BROUGHT TO THE ATTENTION OF THE FCC ELECTRICIAN AND THE CIRCUIT BREAKER WAS RESET. THE TGRS WAS RESTARTED WITHOUT FAILURE. SUBSEQUENT TO THIS FCC, BEN IMBRETSON WAS CONTACTED. THE CIRCUIT BREAKER WAS TAGGED AND LOCKED TO PREVENT FUTURE PROBLEMS.
- (2) 6/06/91, THE B2 FLOW METER WAS FOUND TO BE INOPERATIVE. REPAIRS COMPLETED ON 6/7/91.
- (3) 6/14/91, DURING THE DAILY INSPECTION WELL B8 WAS FOUND TO BE INOPERATIVE. UPON TROUBLESHOOTING IT WAS FOUND THAT THE PUMPHOUSE OUTPUT MODULE CONNECTIONS WERE DIRTY. THE MODULE CONTACTS WERE CLEANED AND THE MODULE REINSTALLED. THE PUMPHOUSE WAS RETURNED TO OPERATION. APPROXIMATE DOWNTIME: 22 HRS.
- (4) 6/19/91, DURING THE DAILY INSPECTION THE AIR FLOW METER FOR TOWER #1 WAS FOUND NOT TO BE INDICATING AIR FLOW. TROUBLE SHOOTING WAS INITIATED.
- (5) 6/21/91, THE LOCKING NUT ON THE AIR FLOW DAMPER FOR TOWER #1 WAS LOOSE AND THE DAMPER PARTIALLY CLOSED. THE DAMPER LOCK NUT WAS TIGHTENED WITH THE DAMPER IN THE FULL OPEN POSITION.
- (6) 6/26/91, FCC EXPERIENCED AN ELECTRICAL STRIKE TO ONE OF TCAAP TRANSFORMERS. THE AFFECTED SOURCE CONTROL WELLS #2-#5 WERE SHUT OFF UNTIL REPAIRS TO THE TCAAP ELECTRICAL SYSTEM WERE COMPLETE. FCC CONTACTED CRA WHEN THE TRANSFORMER REPAIRS WERE COMPLETE. DOWN TIME 7.0 HRS.

JULY 1991

NOTES:

- (1) 7/1/91, EMERGENCY CALL, 1:00 a.m., LIGHTNING STORM DAMAGED TCAAP ELECTRICAL SYSTEM, INTERRUPTING SERVICE TO "B" WELLS. SYSTEM UP AT 3:00 a.m. DOWN TIME 1.0 HR.
- (2) 7/2/91, B-1 WELL FOUND DOWN DURING DAILY INSPECTION. ECV CLEANED AND WELL PUT BACK IN SERVICE. DOWN TIME: 1.0 HR.
- (3) 7/3/91, DURING DAILY INSPECTION, THE PUMP IN WELL B1 WAS FOUND TO BE INOPERATIVE. ECV CONTROL PIPING AND SOLENOIDS WERE CLEANED AND THE WELL RESTARTED. WELL OPERATED ACCEPTABLY. DOWN TIME INDETERMINATE.
- (4) 7/4/91, FCC PERFORMING ELECTRICAL REPAIRS TO TCAAP SYSTEM. TGRS SHUT DOWN AT 6:20 A.M., RESTARTED AT 5:30 P.M. DOWN TIME: 11 HRS.
- (5) 7/5/91, FCC PERFORMING ELECTRICAL REPAIRS TO TCAAP ELECTRICAL SYSTEM. PUMPHOUSES SC-2 -> SC-5 ARE SHUT DOWN FROM 6:15 A.M. TO 5:00 P.M. DOWN TIME: 11.0 HRS.
- (6) 7/6/91, FCC PERFORMING ELECTRICAL REPAIRS TO TCAAP ELECTRICAL SYSTEM. PUMPHOUSES SC-2 -> SC-5 ARE SHUT DOWN FROM 7:00 A.M. TO 5:00 P.M. DOWN TIME: 10.0 HRS.
- (7) 7/06/91, TREATMENT CENTER ECV #4 PARTIALLY CLOSES ON COMPLETE CLOSE COMMAND. REPAIRS SCHEDULED. NO DOWN TIME.
- (8) 7/9/91, B-2's PUMP AND MOTOR WAS PULLED AND CLEANED. HEAVY RUST BUILD UP WAS THE CAUSE OF DECREASING FLOW RATES. PIPING WAS CLEANED AND RISER PIPE #5 AND #6 WERE REPLACED. DOWN TIME 4.0 HOURS.
- (9) 7/11/91, WET WELL PUMP #2 CIRCUIT BREAKER TRIPPED, POSSIBLE LINE OVERLOAD DUE TO LIGHTNING STRIKE. DOWN TIME 2.5 HOURS.
- (10) 7/12/91, DURING DAILY INSPECTION. WELL FIELD WAS DOWN AND ALL 4 PUMPS HAD A FAILURE MODE (VALVE CLOSED W/OUT COMMAND) AT THE PUMP DIRECTORS. RESET PUMP DIRECTORS, SYSTEM UP BY 8:45 a.m.
- (11) 7/14/91, DURING DAILY INSPECTION, PUMPHOUSES B-1, B-2 AND B-3 WERE DOWN. FCC EXPERIENCED SINGLE PHASING FROM ONE OF THEIR TRANSFORMERS. FCC ELECTRICIANS WERE CALLED IN FOR REPAIRS. A FUSE WITHIN THE TRANSFORMER WAS BLOWN. THE CAUSE WAS MADE BY A RACCOON MAKING CONTACT WITH THE TRANSFORMER. ESTIMATED DOWN TIME WAS 12.5 HOURS.
- (12) 7/19/91, DURING DAILY INSPECTION, THE B-1 GREEN LIGHT IN THE TREATMENT CENTER WAS FOUND TO BE FLASHING. UPON TURNING THE ON/OFF SWITCH OFF AND THEN RETURNING IT TO ON, THE LIGHT REMAINED LIGHTED. ALL OPERATIONS AT THE PUMPHOUSE WERE NORMAL UPON ARRIVING AT THE PUMPHOUSE.
- (13) 7/22/91, DURING DAILY INSPECTION, THE B-1 PLC GREEN LIGHT IN THE TREATMENT CENTER WAS FOUND TO BE FLASHING, WELL DOWN. RESTARTED WELL AT PLC, REMAINED ON. DOWN TIME: 22.0 HRS.
- (14) 7/23/91, B-1 WELL FOUND DOWN. CONTRACTOR CALLED TO MAKE REPAIRS. DOWN TIME: 24.0 HRS.
- (15) 7/23/91, AST #3 MIST ELIMINATOR STEAMED CLEANED DUE TO BUILDUP OF ORGANIC GROWTH. DOWN TIME: 2 HRS.
- (16) 7/25/91, B1,2,3 DOWN DUE TO TCAAP SERVICE FAILURE. ANIMAL CRAWLED INTO THE POWER POLE EQUIPMENT CAUSING A PHASE LOSS. DOWN TIME:
- (17) 7/26/91, AUTODIALER CALLED CRA OFFICE, SITE RESPONSE MADE. NO PROBLEM FOUND.
- (18) 7/31/91, AUTODIALER CALLED CRA OFFICE, SITE RESPONSE MADE. NO FAILURE FOUND.

AUGUST 1991

NOTES:

- (1) 08/14/91, MONTHLY AND ANNUAL P.M. WORK PERFORMED. PUMPHOUSE B-1 WAS DOWN FOR 2 HRS. DURING CHANGE OUT OF ALL THE FLOW METERS.
- (2) 08/19/91, BELLAIRE CONSTRUCTION AND LAUGHLIN ELECTRIC ON SITE FOR INSTALLATION OF INSULATION TO THE PUMPHOUSES. THIS WILL NOT AFFECT THE OPERATIONS OF THE PUMPS.
- (3) 08/23/91, PUMPHOUSE B-6 WAS NOT RUNNING. PUMP WOULD RUN ON MANUAL BUT, NOT ON AUTO. TROUBLESHOOTING WAS DIFFICULT DUE TO THE CONSTRUCTION WORK WITHIN THE PUMPHOUSE. DN TIME 21 HOURS.
- (4) 08/23/91, BEN IMBERTSON OF FCC, CONTACTED CRA AND REQUESTED THAT THE TREATMENT CENTER BE TURNED OFF FOR THE DAY, DUE TO ELECTRICAL MAINTENANCE. DN. TIME 10.5 HRS.
- (5) 08/31/91, FCC REQUESTING THAT THE TREATMENT CENTER BE TURNED OFF FOR A FEW HOURS DURING ELECTRICAL REPAIRS. SYSTEM DOWN FOR 3.5 HOURS.

SEPTEMBER 1991

NOTES:

- (1) ON 09/03/91, THE BLDG. 116 #6 FLOW METER WAS INOPERATIVE UPON DAILY INSPECTION. IT BECAME OPERATIONAL ON IT'S OWN ON 9/5/91. GALLONS OF FLOW ARE PROJECTED FOR THE DAYS OF INOPERATION.
- (2) ON 09/09/91, AUTO DIALER CONTACTED D. NELSON AT 1:30 a.m. TRANSFORMER OUTSIDE OF BUILDING 116 WAS STRUCK BY LIGHTNING. SYSTEM COMPLETELY DOWN. A MANUAL SHUT OFF AT EACH PUMP DIRECTOR, PLC PANEL, AND THE CONTROL PANEL. DOWN TIME 9.5 HOURS.
- (3) ON 09/17/91, PUMPHOUSES B-2, B-3, B-12 AND SC-2 WITH McCROMETER METERS WERE REPLACED WITH NEPTUNE TRIDENT FLOW METERS. FLOW READINGS WILL BE CHANGED ACCORDINGLY. .5 HOUR DOWN TIME PER P.HOUSE.
- (4) ON 09/19/91, DURING DAILY INSPECTION, BLOWER BELT FOR TOWER #2 WAS DISCOVERED BROKEN. A SPARE BELT FROM INVENTORY WAS USED FOR REPLACEMENT. INSUFFICIENT AMOUNT OF INFORMATION TO DETERMINE TIME OF BREAKAGE.
- (5) ON 09/29/91, TREATMENT CENTER AND PUMPHOUSES WERE COMPLETELY SHUT OFF AT 7:00 a.m.. FCC REQUESTED THIS PROCEDURE SINCE THEY WERE PERFORMING ELECTRICAL REPAIRS WITHIN THE VICINITY. DOWN TIME WAS 9.0 HOURS.
- (6) 09/30/91, AIR RELEASE VALVE CHAMBER, WEST OF SNELLING AVENUE CHAMBER, DISCOVERED TO BE LEAKING. BERGERSON-CASWELL WAS CALLED FOR SERVICE AND WAS ON-SITE AT 11:30 a.m.. THE FORCEMAIN VALVE FOR THAT CHAMBER WAS TURNED TO THE "OFF" POSITION TO DRAIN THE CHAMBER. THE FLOAT AND RUBBER SEAT OF THE AIR RELEASE VALVE WAS FAULTY. A SPARE FLOAT AND RUBBER SEAT WAS INSTALLED. THE FORCEMAIN VALVE WAS REOPENED AND THE AIR RELEASE VALVE DID NOT LEAK. DOWN TIME 1.5 HOURS.

Appendix H.3

1991 TGRS Events

Summary of Extraction Well and Treatment Center Downtime

B1	B2	B3	B4	B5	B6	B7
11/05/90 New pump and motor installed. New capacity heaters installed. Down Time: 4.5 Hrs.	10/03/90 Flow meter interchanged with B-3's Down Time: 0.5 Hrs.	10/01/90 Pump and motor burnt out. 10/03/90 Flow meter interchanged with B-3's Down Time: 0.5 Hrs.	11/15/90 FCC performing electrical repairs. Down Time: 7.0 Hrs.	11/15/90 New pump and motor installed. Repairs made during FCC's repairs.	11/15/90 FCC performing electrical repairs. Down Time: 7.0 Hrs.	11/23/90 FCC and Collins electric performing power pole replacement during the weekend. Down Time: 77.0 Hrs.
11/15/90 FCC performing electrical repairs. Down Time: 7.0 Hrs.	11/15/90 FCC performing electrical repairs. Down Time: 7.0 Hrs.	10/12/90 New Pump and Motor installed. Down Time: 12 Days.	11/23/90 FCC and Collins electric performing power pole replacement during the weekend. Down Time: 77.0 Hrs.	11/23/90 FCC and Collins electric performing power pole replacement during the weekend. Down Time: 77.0 Hrs.	11/23/90 FCC and Collins electric performing power pole replacement during the weekend. Down Time: 77.0 Hrs.	12/01/90 FCC and Collins electric performing power pole replacements. Down Time: 9.0 Hrs.
11/23/90 FCC and Collins electric performing power pole replacement during the weekend. Down Time: 77.0 Hrs.	11/23/90 FCC and Collins electric performing power pole replacement during the weekend. Down Time: 77.0 Hrs.	10/16/90 New 300 psi pressure gauge installed.	12/01/90 FCC and Collins electric performing power pole replacements. Down Time: 9.0 Hrs.	12/01/90 FCC and Collins electric performing power pole replacements. Down Time: 9.0 Hrs.	12/01/90 FCC and Collins electric performing power pole replacements. Down Time: 9.0 Hrs.	01/08/91 "Y" strainer screen replaced.
12/01/90 FCC and Collins electric performing power pole replacements. Down Time: 9.0 Hrs.	12/01/90 FCC and Collins electric performing power pole replacements. Down Time: 9.0 Hrs.	11/15/90 FCC performing electrical repairs. Down Time: 7.0 Hrs.	01/08/91 "Y" strainer screen replaced.	12/24/90 New 300 psi pressure gauge installed.	01/08/91 "Y" strainer screen replaced.	01/23/91 System down during T.C. repairs. Down Time: 2.0 Hrs.
01/08/91 "Y" strainer screen replaced.	01/08/91 "Y" strainer screen replaced.	11/23/90 FCC and Collins electric performing power pole replacement during the weekend. Down Time: 77.0 Hrs.	01/09/91 New 300 psi pressure gauge installed.	01/08/91 "Y" strainer screen replaced.	01/23/91 System down during T.C. repairs. Down Time: 2.0 Hrs.	02/25/91 FCC performing electrical repairs. System shut down. Down Time: 5.5 Hrs.
01/23/91 System down during T.C. repairs. Down Time: 2.0 Hrs.	01/09/91 New 300 psi pressure gauge installed.	12/01/90 FCC and Collins electric performing power pole replacements.	01/23/91 System down during T.C. repairs. Down Time: 2.0 Hrs.	01/23/91 System down during T.C. repairs. Down Time: 2.0 Hrs.	02/25/91 FCC performing electrical repairs. System shut down. Down Time: 5.5 Hrs.	02/27/91 FCC performing electrical repairs. System shut down. Down Time: 9.5 Hrs.
02/25/91	01/23/91 System down during T.C.		02/25/91 FCC performing electrical repairs. System shut down.	02/25/91 FCC performing electrical repairs. System shut down.	02/27/91 FCC performing electrical	03/15/91 FCC performing electrical

Summary of Extraction Well and Treatment Center Downtime

B1	B2	B3	B4	B5	B6	B7
FCC performing electrical repairs. System shut down. Down Time: 5.5 Hrs.	repairs. Down Time: 2.0 Hrs.	Down Time: 9.0 Hrs.	Down Time: 5.5 Hrs.	Down Time: 5.5 Hrs.	repairs. System shut down. Down Time: 9.5 Hrs.	repairs within Bldg. 116. Down Time: 7.5 Hrs.
02/27/91	02/15/91	12/11/90	02/27/91	02/27/91	03/15/91	03/20/91
FCC performing electrical repairs. System shut down. Down Time: 9.5 Hrs.	Inoperative McCrometer flow meter.	Inoperative McCrometer flow meter. Down Time: 0.5 Hrs.	FCC performing electrical repairs. System shut down. Down Time: 9.5 Hrs.	FCC performing electrical repairs. System shut down. Down Time: 9.5 Hrs.	FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	FCC performing electrical repairs. Down Time: 1.0 Hrs.
03/15/91	02/17/91	01/08/91	03/15/91	03/15/91	03/20/91	04/18/91
FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	Repaired flow meter. Fixed broken drive shaft.	"Y" strainer screen replaced.	FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	FCC performing electrical repairs. Down Time: 1.0 Hrs.	Treatment Center E.C.V. #3 repairs. System shut down. Down Time: 5.5 Hrs.
03/20/91	02/25/91	01/23/91	03/20/91	03/20/91	04/09/91	04/19/91
FCC performing electrical repairs. Down Time: 1.0 Hrs.	FCC performing electrical repairs. System shut down. Down Time: 5.5 Hrs.	System down during T.C. repairs. Down Time: 2.0 Hrs.	FCC performing electrical repairs. Down Time: 1.0 Hrs.	FCC performing electrical repairs. Down Time: 1.0 Hrs.	Pump off during B-5's repairs.	Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.
04/18/91	02/27/91	02/25/91	04/18/91	04/09/91	04/18/91	05/29/91
Treatment Center E.C.V. #3 repairs. System shut down. Down Time: 5.5 Hrs.	FCC performing electrical repairs. System shut down. Down Time: 9.5 Hrs.	FCC performing electrical repairs. System shut down. Down Time: 5.5 Hrs.	Treatment Center E.C.V. #3 repairs. System shut down. Down Time: 5.5 Hrs.	Pump and motor single phasing. Lightning strikes.	Treatment Center E.C.V. #3 repairs. System shut down. Down Time: 5.5 Hrs.	FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.
04/19/91	03/15/91	02/27/91	04/19/91	04/10/91	04/19/91	06/18/91
Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	FCC performing electrical repairs. System shut down. Down Time: 9.5 Hrs.	Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	Pump and motor pulled. Motor had burnt conductor. Installed new motor. Down Time: 54.0 Hrs.	Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	lightning arrester struck by lightning. Down Time: 1.0 Hrs.
05/29/91	03/20/91	03/15/91	05/29/91	04/18/91	05/29/91	07/01/91
FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	FCC performing electrical repairs. Down Time: 1.0 Hrs.	FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	Treatment Center E.C.V. #3 repairs. System shut down. Down Time: 5.5 Hrs.	FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.
	03/22/91	03/20/91	06/18/91	04/19/91	06/18/91	
	Inoperative McCrometer	FCC performing electrical repairs.		Oil leak found on power		

Summary of Extraction Well and Treatment Center Downtime

B1	B2	B3	B4	B5	B6	B7
	flow meter.	Down Time: 1.0 Hrs.	lightning arrester struck by lightning. Down Time: 1.0 Hrs.	pole transformer. System down during inspection. Down Time: 6.5 Hrs.	lightning arrester struck by lightning. Down Time: 1.0 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.
06/18/91 lightning arrester struck by lightning. Down Time: 1.0 Hrs.	03/23/91 A spare McCrometer meter installed. Down Time: 0.5 Hrs.	04/18/91 Treatment Center E.C.V. #3 repairs. System shut down. Down Time: 5.5 Hrs.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.
07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	04/18/91 Treatment Center E.C.V. #3 repairs. System shut down. Down Time: 5.5 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	06/18/91 lightning arrester struck by lightning. Down Time: 1.0 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.
07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.
07/02/91 Check valve malfunction. Solenoid inspected and cleaned. Down Time: 1.0 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	06/18/91 lightning arrester struck by lightning. Down Time: 1.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	07/17/91 Remote A-B, I/O card non-active. pulled fuse and cleaned. reset pump.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.
07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	06/06/91 Spare McCrometer flow meter inoperative.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116.
07/14/91 Power leg from transformer had burnt out. A racoon	06/18/91 lightning arrester struck by lightning. Down Time: 1.0 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.		08/24/91 FCC performing electrical	08/22 - 08/25/91	

Summary of Extraction Well and Treatment Center Downtime

B1	B2	B3	B4	B5	B6	B7
had climbed the power pole. Down Time: 12.5 Hrs.	electrical system. System shut down. Down Time: 2.5 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	modifications. System shut down. Down Time: 10.5 Hrs.	Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	System shut down. Down Time: 9.5 Hrs.
07/19/91 Solenoid malfunctions dis- assembled and cleaned. Down Time: 18.0 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	07/14/91 Power leg from transformer had burnt out. A racoon had climbed the power pole. Down Time: 12.5 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	09/29/91 FCC performing electrical repairs from 9/9's light- ning strike at Bldg. 116. Down Time: 9.0 Hrs.
07/25/91 FCC power transformer had burnt out. A racoon had climbed the power pole. Down Time: 3.0 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	07/25/91 FCC power transformer had burnt out. A racoon had climbed the power pole. Down Time: 3.0 Hrs.	09/29/91 FCC performing electrical repairs from 9/9's light- ning strike at Bldg. 116. Down Time: 9.0 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.	
08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	07/09/91 Pull, inspect, and clean pump and motor. Down Time: 4.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.		09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.	09/29/91 FCC performing electrical repairs from 9/9's light- ning strike at Bldg. 116. Down Time: 9.0 Hrs.	
08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	07/14/91 Power leg from transformer had burnt out. A racoon had climbed the power pole. Down Time: 12.5 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.		09/29/91 FCC performing electrical repairs from 9/9's light- ning strike at Bldg. 116. Down Time: 9.0 Hrs.		
08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	07/25/91 FCC power transformer had burnt out. A racoon had climbed the power pole. Down Time: 3.0 Hrs.	08/30/91 FCC performing electrical modifications. System shut down.				
09/09/91 Lightning strikes FCC	08/24/91					

Summary of Extraction Well and Treatment Center Downtime

B1	B2	B3	B4	B5	B6	B7
transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.	FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	down. Down Time: 4.5 Hrs.				
09/29/91 FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.				
	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	09/17/91 Replaced McCrometer flow meter with a 3" Trident Neptune flow meter. Down Time: 0.5 Hrs.				
	09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.	09/29/91 FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.				
	09/17/91 Replaced McCrometer flow meter with a 3" Trident Neptune flow meter. Down Time: 0.5 Hrs.					
	09/29/91 FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.					

Summary of Extraction Well and Treatment Center Downtime

B8	B9	B10	B11	B12	SC-2	SC-3
repairs. System shut down. Down Time: 9.5 Hrs.	repairs. System shut down. Down Time: 9.5 Hrs.	repairs within Bldg. 116. Down Time: 7.5 Hrs.	repairs. System shut down. Down Time: 9.5 Hrs.	repairs within Bldg. 116. Down Time: 7.5 Hrs.	repairs within Bldg. 116. Down Time: 7.5 Hrs.	repairs within Bldg. 116. Down Time: 7.5 Hrs.
03/15/91 FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	03/15/91 FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.	03/15/91 FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.	03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.	03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.
03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.	03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.
04/09/91 Pump off during B-5's repairs.	04/09/91 Pump off during B-5's repairs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.
04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	06/26/91 Lightning strikes trans- former up on hill. Down Time: 7.0 Hrs.	06/26/91 Lightning strikes trans- former up on hill. Down Time: 7.0 Hrs.
05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	06/18/91 lightning arrester struck by lightning. Down Time: 1.0 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.
06/14/91 A-B card malfunction. cleaned and reinstalled. Down Time: 22.0 Hrs.	06/18/91 lightning arrester struck by lightning. Down Time: 1.0 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down.	07/02/91 TCAAP electrical pole mounted power meter failed System shut down.
06/18/91	07/01/91					

Summary of Extraction Well and Treatment Center Downtime

B8	B9	B10	B11	B12	SC-2	SC-3
lightning arrester struck by lightning. Down Time: 1.0 Hrs.	Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	shut down. Down Time: 11.0 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	shut down. Down Time: 11.0 Hrs.	Down Time: 3.0 Hrs.	Down Time: 3.0 Hrs.
07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	07/05/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 10.0 Hrs.	07/05/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 10.0 Hrs.
07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.
07/04/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 11.0 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.
08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.
08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	09/29/91 FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116.	09/17/91 Replaced McCrometer flow meter with a 3" Trident Neptune flow meter. Down Time: 0.5 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.	09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.
				09/29/91 Replaced McCrometer flow		

Summary of Extraction Well and Treatment Center Downtime

B8	B9	B10	B11	B12	SC-2	SC-3
<p>08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.</p> <p>09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.</p> <p>09/29/91 FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.</p>	<p>09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down. Down Time: 9.5 Hrs.</p> <p>09/29/91 FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.</p>		<p>System shut down. Down Time: 9.5 Hrs.</p> <p>09/29/91 FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.</p>	<p>FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.</p>	<p>meter with a 3" Trident Neptune flow meter. Down Time: 0.5 Hrs.</p> <p>09/29/91 FCC performing electrical repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.</p>	<p>repairs from 9/9's lightning strike at Bldg. 116. Down Time: 9.0 Hrs.</p>

Summary of Extraction Well and Treatment Center Downtime

SC-4	SC-5	Treatment Center
<p>11/23/90 FCC and Collins electric performing power pole replacement during the week-end. Down Time: 77.0 Hrs.</p>	<p>11/23/90 FCC and Collins electric performing power pole replacement during the week-end. Down Time: 77.0 Hrs.</p>	<p>10/18/90, New 2 Stage Delta pump installed in W.W. #1.</p> <p>10/31/90, E.C.V. #2 clogged with rust/iron buildup. Caused well field to cycle 77 times within 24 hours. Removed and cleaned solenoid.</p>
<p>12/01/90 FCC and Collins electric performing power pole replacements. Down Time: 9.0 Hrs.</p>	<p>12/01/90 FCC and Collins electric performing power pole replacements. Down Time: 9.0 Hrs.</p>	<p>11/23/90, Auto dialer calls. E.C.V. #2 "closed without command". Solenoid clogged No down time, well field cycles 5 times.</p> <p>12/23/90, Blower belt to tower #2 had broken.</p>
<p>01/08/91 "Y" strainer screen replaced.</p>	<p>01/08/91 "Y" strainer screen replaced.</p>	<p>12/29/90, Well field cycles 58 times. E.C.V. #2 solenoid clogged with debris. Removed and cleaned as necessary.</p>
<p>01/16/91 Auxiliary heater burnt out. replaced as necessary.</p>	<p>01/23/91 System down during T.C. repairs. Down Time: 2.0 Hrs.</p>	<p>01/08/91, Emergency stop solenoid for E.C.V. #4 replaced.</p>
<p>01/23/91 System down during T.C. repairs. Down Time: 2.0 Hrs.</p>	<p>02/13/91 Door knob broken. Service call made to local locksmith.</p>	<p>01/24/91, Starter to blower #4 tripped. Manual reset performed. Time of blower tripping unknown.</p>
<p>02/25/91 FCC performing electrical repairs. System shut down. Down Time: 5.5 Hrs.</p>	<p>02/25/91 FCC performing electrical repairs. System shut down. Down Time: 5.5 Hrs.</p>	<p>02/15/91, Air flow gauge for tower #4 inoperative. Shipped to manufacture for repairs.</p>
<p>02/27/91 FCC performing electrical repairs. System shut down.</p>	<p>02/27/91 FCC performing electrical</p>	<p>02/18/91, E.C.V. #3 exercised. Valve does not close completely. Adjusted micro-switch to activate proper closing and to shut pump off when exercised.</p>
		<p>03/06/91,</p>

Summary of Extraction Well and Treatment Center Downtime

SC-4	SC-5	Treatment Center
Down Time: 9.5 Hrs.	repairs. System shut down. Down Time: 9.5 Hrs.	E.C.V. #2 "closed without command". Manual reset performed, pump restarted and functioning properly.
03/15/91 FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	03/15/91 FCC performing electrical repairs within Bldg. 116. Down Time: 7.5 Hrs.	03/23/91, Installed new 1.0" W.C. Magnehelic air flow gauge. Range:(0 - 21,200cfm) for towers #3 and #4.
03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.	03/20/91 FCC performing electrical repairs. Down Time: 1.0 Hrs.	03/23/91, Tower #2 blower belt broke. Replaced with a new belt from inventory.
04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	04/19/91 Oil leak found on power pole transformer. System down during inspection. Down Time: 6.5 Hrs.	03/24/91, Flow meter #2 inoperative. Remove and install new 6" Rockwell turbine (DRSL 2000) flow meter. Pump off during repairs.
05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	05/29/91 FCC power pole repairs. System shut down. Down Time: 2.0 Hrs.	04/03/91, Checked and cleaned all solenoids, strainers and associated piping to all check valves.
06/26/91 Lightning strikes transformer up on hill. Down Time: 7.0 Hrs.	06/26/91 Lightning strikes transformer up on hill. Down Time: 7.0 Hrs.	04/03/91, E.C.V. #1 "closed without command". Manual reset performed. Well field cycles 10 times.
07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	07/01/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 2.5 Hrs.	04/18/91, E.C.V. #3 had a chrome liner installed. Well field decreased to 900 gallons during repairs.
		05/09/91, Auto dialer calls. W.W.Pump #1 had a failure mode #6 (Insufficient pump pressure to pressure switch). Starter reset switch activated, pump reset at the pump director.
		05/29/91, Blower belt to tower #2 had broke. New belt installed from inventory. Time of breakage unknown.

Summary of Extraction Well and Treatment Center Downtime

SC-4	SC-5	Treatment Center
07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	07/02/91 TCAAP electrical pole mounted power meter failed. System shut down. Down Time: 3.0 Hrs.	06/04/91, System simultaneously shut off. FCC personel pulling breaker switches at panel "B" in 116. Immediate notifications performed. Mandatory lock bars installed to prevent future incidents regarding the treatment center.
07/05/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 10.0 Hrs.	07/05/91 Lightning strikes TCAAP electrical system. System shut down. Down Time: 10.0 Hrs.	07/08/91, Access ports with saddles installed on forcemain for meters #5 and #6.
08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	08/24/91 FCC performing electrical modifications. System shut down. Down Time: 10.5 Hrs.	07/09/91, 1/2" swing check installed on E.C.V. #4. Replaced old worn swing check. Valve closes properly when activated.
08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	08/22 - 08/25/91 Spraying of foam urethane insulation. Manual shut during spraying. Down Time: 2.0 Hrs.	07/11/91, W.W.Pump #2 had tripped on overload. Service call made to Bergerson-Caswell Inc. The gears on the starter had to be realigned prior to resetting the pump manually at the pump director.
08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	08/30/91 FCC performing electrical modifications. System shut down. Down Time: 4.5 Hrs.	07/26/91, Auto dialer calls. Possible E.C.V. malfunction. During inspection, no simulated failures. False alarm.
09/09/91 Lightning strikes FCC transformer at Bldg. 116. System shut down.	09/09/91 Lightning strikes FCC transformer at Bldg. 116.	

Summary of Extraction Well and Treatment Center Downtime

SC-4	SC-5	Treatment Center
Down Time: 9.5 Hrs.	System shut down. Down Time: 9.5 Hrs.	
09/29/91 FCC performing electrical repairs from 9/9's light- ning strike at Bldg. 116. Down Time: 9.0 Hrs.	09/29/91 FCC performing electrical repairs from 9/9's light- ning strike at Bldg. 116. Down Time: 9.0 Hrs.	