INSTALLATION RESTORATION PROGRAM
TWIN CITIES ARMY AMMUNITION PLANT

FISCAL YEAR 1997 ANNUAL PERFORMANCE 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
4700 Highway 10, Suite A
Arden Hills, Minnesota
55112-3928

Prepared for:

Commander
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Arden Hills, Minnesota 55112-3928

AUGUST 1998
FINAL REPORT

Minnesota Pollution Control Agency

August 19, 1998

Mr. Martin McCleery
Remedial Project Manager
Twin Cities Army Ammunition Plant
4700 Highway 10, Suite A
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Mr. Dave Gosen
Alliant Techsystems, Inc.
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Hopkins, Minnesota 55343

Dear Mr. McCleery and Mr. Gosen:

RE: Consistency Test for the Fiscal Year 1997 Annual Performance Report/Fiscal Year 1999 Annual Monitoring Plan for the Twin Cities Army Ammunition Plant, Final Report.
Prepared by Wenck Associates, Inc., August 1998.

The staff at the Minnesota Pollution Control Agency (MPCA) and the U.S. Environmental Protection Agency (U.S. EPA) have reviewed the above-referenced document as well as Trichloroethene Trend Graphs dated May 29, 1998, and redlined pages dated June 18, 1998, and July 28, 1998, submitted by Wenck Associates, Inc. The redlined pages reflect the discussion among MPCA, U.S. EPA, Army and Alliant which took place on May 5, 1998, and subsequently.

You are hereby advised that, in accordance with Chapter XIV of the Federal Facility Agreement, the Fiscal Year 1997 Annual Performance Report/Fiscal Year 1999 Annual Monitoring Plan for the Twin Cities Army Ammunition Plant passes the Consistency Test.

If there are questions or you require additional information, please contact Dagmar Romano at (651) 296-7776 or Tom Barounis (312) 353-5577.

Sincerely,

Dagmar Romano
Project Manager
Site Remediation Section
Metro District

for

Tom Barounis
Remedial Project Manager
U.S. EPA Region 5

DR:TB:smm

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AUGUST 1998
FINAL REPORT

U.S. ARMY CORPS OF ENGINEERS
WENCK ASSOCIATES, INC.

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

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I. Executive Summary

This Fiscal Year 1997 (FY 1997) Annual Performance Report:

- Summarizes the status of remedy implementation; and
- Addresses how the remedies are performing,

for each of the three operable units related to the Twin Cities Army Ammunition Plant (TCAAP). Fiscal Year 1997 is defined as the period from October 1, 1996, through September 30, 1997.

This report marks the transition from previous Annual Monitoring Reports, which focused on groundwater and surface water characterization, to an Annual Performance Report, which addresses the performance of the final remedies. The transition is appropriate now that the Records of Decision (RODs) have been signed for all three operable units (the OU2 ROD was signed in December 1997 which was actually early in FY 1998).

The RODs present the major components of the final remedies for the media of concern. This report looks at each of the major components and addresses:

1. *Are the remedies being implemented? (Compliance check with the RODs)*
2. *Are the remedies doing what they are suppose to?*

Table I-1 summarizes the status of remedial actions at the end of FY 1997. Following are highlights of the accomplishments for each operable unit.

Operable Unit 1 (OU1): Deep Groundwater

OU1 consists of the "north" plume of VOC groundwater contamination off the TCAAP installation. The final remedy for OU1 consists of pumping three municipal wells (New Brighton municipal wells NBM #4, #14, and #15) and treating the extracted groundwater through the Permanent Granular Activated Carbon (PGAC) system. Treated water is piped to the New Brighton water supply system for distribution as potable water. Other remedy components include providing alternate water supply and/or well abandonment to affected private wells, and drilling advisories for new well construction. Highlights for FY 1997:

- Six private water supply wells were abandoned,
- NBM #14 was put into service December 30, 1996, and along with NBM #4 (and NBM #3 on an interim basis), provided partial containment of the North Plume,
- Installation and development of NBM #15 was completed in September 1997, and this well is expected to be put into service in February 1998,
- The effluent of the PGAC was in compliance with the applicable Safe Drinking Water Act criteria,
- The treated groundwater was beneficially used in the New Brighton municipal water supply system,
- The extent and magnitude of contamination in the North Plume did not change significantly; however, at most wells, the concentrations decreased.

Operable Unit 2 (OU2)

OU2 is defined as the TCAAP property, including the groundwater beneath it. The OU2 ROD, which was signed in December 1997, documents the final remedies. Performance monitoring was conducted during FY 1997 for interim groundwater remediation programs including:

- Site A Removal Action
- Site I Remedial Action
- Site K Remedial Action
- TGRS Remedial Action

Highlights for these and other activities within OU2 during FY 1997 are:

- OU2 Feasibility Study (FS)
  - The OU2 FS was completed in FY 1997.
- Shallow Soil Sites
  - A source area characterization investigation was performed at Site A during April-May 1997.
  - Efforts commenced on developing work plans for the other shallow soil sites.
- Deep Soil Sites
  - A characterization investigation of the deep soils was performed at Sites D and G during March-May 1997, as part of the design process for installing deep SVE vents.
  - The shallow SVE systems continued to operate at both Sites D and G. During FY 1997, the systems removed 764 pounds and 94 pounds of VOCs, respectively. From start of operation in 1986 through October 7, 1997, the systems have removed totals of 115,679 pounds and 104,364 pounds, respectively.
- Site A Shallow Groundwater
  - The eight-well extraction system, which has been operating since May 1994, continued to provide containment and mass removal.
  - The system pumped at an average rate of 30 gallons per minute during FY 1997 versus the design rate to achieve containment of 25 gallons per minute.

- During FY 1997, the system removed nearly 5 pounds of VOCs, with a cumulative mass removal of 27 pounds since May 1994.
- The extracted water was discharged to the sanitary sewer system in compliance with all discharge criteria.
- Two private wells were abandoned north of TCAAP in the area affected by the Site A plume.
- An investigation was conducted for the suspected sources of groundwater contamination as stated under the "Shallow Soil Sites".
- Overall, the extraction system has reduced contaminant concentrations in groundwater. Two primary areas remaining to be remediated are: in the vicinity of extraction well 01U353 for cis-1,2-dichloroethene, and in the vicinity of monitoring well 01U108 for tetrachloroethene and trichloroethene.

• Site I Shallow Groundwater
  - Sampling at Site I indicated no significant changes in VOC concentrations in Unit 1 monitoring wells in FY 1997. Five of the seven wells scheduled for sampling were dry. PCB analyses was conducted at monitoring well 01U640 with no detections of PCBs reported. VOCs analyses was conducted at monitoring wells 01U064 and 01U640.

• Site K Shallow Groundwater
  - At Site K, the groundwater extraction trench and treatment system continued to operate as designed. The system captured and treated 3,586,075 gallons of water and maintained a continuous zone of capture downgradient of Building 103. A total of 8.8 pounds of VOCs were removed in FY 1997.

- Deep Groundwater
  - The TGRS continued to operate according to the performance criteria in the 1986 ROD.
  - The TGRS creates a continuous zone of capture along the southwest TCAAP boundary that extends beyond the 5 μg/l trichloroethene contour.
  - In FY 1997, the TGRS extracted and treated 1,257,116,600 gallons of water. The mass of VOCs removed was 6,210 pounds. The total VOC mass removed by the TGRS through FY 1997 is 161,157 pounds.
  - Beginning in November 1997, wells B12 and SC4 were shut down due to reductions in the plume size, as per agreements with the MPCA and USEPA.

Operable Unit 3 (OU3): Deep Groundwater

- The PGRS continued to operate as designed.
- The PGRS is containing the leading edge of the South Plume.
- In FY 1997, a total of 509,769,000 gallons of water were treated by the PGRS, removing 17 pounds of VOCs.
- PGRS effluent VOC concentrations met or were below all applicable drinking water criteria in FY 1997.

II. Introduction

A. PURPOSE

This Fiscal Year 1997 Annual Performance Report is intended to:

- Summarize the status of remedy implementation; and
- Address how the remedies are doing,

for remedial actions in conjunction with the Twin Cities Army Ammunition Plant (TCAAP), and its role in the New Brighton/ Arden Hills Superfund site. Fiscal Year 1997 (FY 1997) extended from October 1, 1996, through September 30, 1997.

For purposes of remediation, the areas contaminated by activities at TCAAP have been divided into three areas designated "Operable Units". Operable Unit 1 (OU1) encompasses the deep groundwater "North Plume" of off-TCAAP contaminated groundwater. Operable Unit 2 (OU2) includes all soil and groundwater contamination on TCAAP. OU2 also includes the shallow Site A plume which extends off the north end of TCAAP in the Unit 1 aquifer. Operable Unit 3 (OU3) consists of the deep groundwater "South Plume" of off-TCAAP contaminated groundwater.

The report addresses remedial actions for the following mediums as prescribed in the Record of Decision (ROD) for each Operable Unit:

- Operable Unit 1
  - Deep Groundwater

- Operable Unit 2
  - Shallow Soil Sites
  - Deep Soil Sites
  - Site A Shallow Groundwater
  - Site I Shallow Groundwater
  - Site K Shallow Groundwater
  - Deep Groundwater

- Operable Unit 3
  - Deep Groundwater

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 agreed to by these parties on:

- October 12, 1990
- February 12, 1992
- March 3, 1992
- November 23, 1993
- January 5, 1998

This FY 1997 Annual Performance Report reflects the transition in work activities at TCAAP from characterizations and studies to final remedial actions. The transition means that the requirements have been fulfilled for FFA Attachment 2 (Interim Remedial Actions), Attachment 3 (Remedial Investigation), and Attachment 4 (Feasibility Study). Activities are now geared towards fulfilling the requirements of FFA Attachment 5 (Remedial Design and Remedial Action). The transition began in September 1992 with the signing of the OU3 ROD, progressed

in September 1993 with the signing of the OU1 ROD, and culminated in December 1997 with the signing of the OU2 ROD.

Accordingly, the format of this report has been revised compared to years past. The focus is solely on performance of the final remedies and not a mix of characterization and performance. The report outline closely follows the remedial actions prescribed in the three RODs.

Assessment of performance is really answering two questions:

1. *Are all of the remedies being implemented? (Compliance check with the RODs)*
2. *Are the remedies doing what they are supposed to?*

To address these two questions, this report is broken into the three Operable Units. Using each ROD, the report is broken down one more level to the major components of the selected remedy for each of the mediums described previously.

A key aspect of this report was the development of performance standards for each of the major remedy components. The performance standards are the "what they are suppose to" part of the question, "Are the remedies doing what they are suppose to?" The performance standards are the yardstick against which performance is measured, and are used to determine when a remedy component has been successfully implemented and/or completed.

For some of the remedy components, the performance standards are clearly defined in the RODs (e.g., soil or groundwater cleanup levels). For other remedy components (e.g., alternate water supply) the performance standards are less clear in the RODs, but may have been agreed to through Work Plans or design documents.

With the performance standards identified, this report then addresses the two questions described above, often through a series of sub-questions. The questions are written in the text in an attempt

to make the report focused, streamlined, and user friendly. To the extent possible, answers are in the form of pictures (figures, graphs, etc.) versus words.

In addition to the performance evaluation, another objective of making the report focused is to make the monitoring program focused and efficient. With specific questions identified, it is easier to develop the monitoring needs. In addition to reporting on FY 1997, this document presents proposed monitoring for future years.

New for this year is the introduction of a groundwater monitoring plan for a 5-year period versus a single year. The monitoring plan shows FY 1998 through FY 2002. The FY 1998 monitoring plan was previously submitted and approved as part of the FY 1996 Annual Monitoring Report, and is currently in progress (it is included in this document for reference only). The intent is that the monitoring plan will always be a revolving 5-year timespan--in other words, next year FY 1998 will drop off and FY 2003 will be added. Also, new to the groundwater monitoring plan is the inclusion of the purpose for each monitoring point (i.e., what performance question(s) will the data be used to answer).

This report represents the collaboration of work performed by the U.S. Army (Army) and Alliant Techsystems Inc. (Alliant). On behalf of the Army, the Corps of Engineers contracted Wenck Associates, Inc. (Wenck) to prepare Sections II, III, IV.A-C, and VI of this report. On behalf of Alliant Techsystems Inc., Conestoga-Rovers & Associates (CRA) prepared Sections IV.D-F and V. Wenck and CRA both contributed to Section I. The FY 1997 Annual Performance Report consists of this volume, plus a set of 20 plan sheets submitted separately.

B. SITE DESCRIPTION

The Twin Cities Army Ammunition Plant is a government-owned facility located in Arden Hills, Minnesota, in the northern portion of the Minneapolis-St. Paul metropolitan area (Figure II.B-1 and Plan Sheet 1). The facility occupies approximately a four-square mile area immediately east of U.S. Interstate Highway 35W and north of Ramsey County Highway 96. Alliant Techsystems Inc. is the contracted operator and the prime tenant on the installation.

TCAAP was constructed in 1941 to provide small-caliber ammunition for the military needs of the United States. Production began in 1941 and then alternated between periods of activity and shutdown. TCAAP was placed in "standby" status in 1976; and then in 1992, its status was changed to "modified caretaker" which indicates that it will no longer be maintained for the production of ammunition.

During periods of activity, solvents were utilized as part of the manufacturing process. Disposal of solvents and other wastes at the TCAAP site resulted in soil contamination and also groundwater contamination, which has migrated beyond the site boundary. Groundwater contamination was first discovered in July 1981, and the site was placed on the National Priorities List (NPL) in 1983.

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 2. Sites F and J have previously been remediated. The remaining sites are addressed in the OU2 ROD.

Two other sites, the Grenade Range and the Outdoor Firing Range, are being addressed as Removal Actions separate from the OU2 ROD; therefore, they are not specifically addressed in this report.

C. HYDROGEOLOGIC UNITS AND WELL NOMENCLATURE

On- and off-post wells have been installed in four hydrogeologic units beneath the site: Unit 1 through Unit 4. Descriptions of these four units are presented in Appendix A.1, along with a description of the nomenclature system used for well designations (e.g., 03U704). A well-designation cross-reference guide (sorted two different ways) is included as Appendices A.2 and A.3. The well index lists all wells of concern, the TCAAP designation, Minnesota unique number, and any other name(s) the wells may have. Well locations are shown on Plan Sheets 2 (on-post) and 3 (off-post).

D. DATA MANAGEMENT AND PRESENTATION

A groundwater monitoring program was initiated in January 1984 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 1997 was comprised of Quarter 53 (October through December), Quarter 54 (January through March), Quarter 55 (April through June), and Quarter 56 (July through September). Water sampling and water level measurements were conducted in accordance with the TCAAP Quality Assurance Project Plan (Argonne National Laboratory, 1988).

Data collected at TCAAP is stored in the U.S. Army Environmental Center (USAEC) Installation Restoration Data Management Information System (IRDMIS). The IRDMIS is managed by Potomac Research, Inc. (PRI) on behalf of the USAEC.

In an effort to reduce the bulk of this document, it was agreed during the regulator comment period on the FY 1994 AMR that this report would only contain data for the current year and two previous years. The MPCA and EPA have been provided with one computer disk set which includes all water level data, and all organic and inorganic groundwater quality data collected

since Quarter 16 (1987). The Army will maintain the original data set and additional copies of the data set can be provided upon request.

1. Groundwater Levels and Groundwater Quality

a. Data Collection and Management

Groundwater level and groundwater quality data were collected in accordance with the FY 1997 Annual Monitoring Plan (see Appendix B.1). The FY 1997 Annual Monitoring Plan established the monitoring responsibilities for both:

- The Army (to be performed by Alliant the contracted operator)
- Alliant - the tenant and responsible party

Water level monitoring and groundwater sampling were conducted by CRA for both parties, and the laboratory analysis was performed by DataChem Laboratories.

For water level measurements, CRA measured the depth to water from the top of the well casing. Using the distance from the top of the casing to the ground surface, which is surveyed when each well is constructed, CRA determined the depth to water from the 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.

Appendix D summarizes the individual parameters included within each analytical category (or family of related parameters) as indicated in the Groundwater 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), cyanide (Category 4), and polychlorinated

biphenyls (Category 5). Site A also included sampling for mercury (Category 3) and zinc (Category 9).

All laboratory data was submitted to PRI for entry into the IRDMIS. Data validation was conducted through IRDMIS in accordance with procedures and requirements outlined in the TCAAP QAPP. The data validation process involved constructing control charts of tabulated data and analyzing the data to insure that it met certain Record Check Requirements and Group Check Requirements. For a more detailed description of the data validation process, the TCAAP QAPP and the IRDMIS User's Guide should be consulted.

Field blanks and other miscellaneous blanks data generated for quality assurance/quality control purposes for organics, inorganics and PCBs are contained in Appendices E.1, E.2, and E.3, respectively.

As an additional quality assurance check, Wenck calculated the relative percent difference (RPD) for all duplicate groundwater samples collected in FY 1997, which are presented in Appendix E.4. An RPD of 25 percent was used as a trigger for further review. All RPD values greater than 25 percent are highlighted in Appendix E.4. In the case of no detection, the detection limit for the particular analysis was used in the RPD calculation.

For preparation of this FY 1997 Annual Performance Report, Wenck received groundwater elevation and groundwater quality data electronically from CRA. CRA retrieved the data directly from the IRDMIS. Data was then converted into Microsoft Excel format to permit preparation of the groundwater elevation database (Appendix C.1) and groundwater quality databases (Appendices C.2 through C.4).

To permit comparison between what monitoring was planned and what data was collected, notations have been added to the FY 1997 Annual Monitoring Plan (Appendix B.1) to indicate the data collected. Explanations for any missed data are provided in Appendix B.2.

b. Groundwater Elevation Contour Maps

Groundwater elevation contour maps were prepared using Quarter 53 and Quarter 55 data for OU2 (on-post), and using Quarter 55 data for combined OU1/OU3 (off-post). Individual maps were developed for Upper Unit 3, Lower Unit 3, and Upper Unit 4. These maps are presented as plan sheets and figures. The figures are simply photo 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.

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 are shown in parentheses on the Lower Unit 3 contour maps. 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 the Upper Unit 4 contour maps with the data in parentheses.

Note: The groundwater elevations at 409549 (Upper Unit 4) have appeared anomalous for several years (at least as far back as the FY 92 Report). A comprehensive survey of well elevations was performed by Kemper & Associates between July 18 and September 30, 1992 (under contract to Federal Cartridge Company). Based on that survey, the well reference elevations were adjusted in the IRDMIS database. We have reviewed the 1992 survey report and found that the reference elevation for 409549 was apparently not corrected in IRDMIS. The Top of Surface (TOS) elevation currently in IRDMIS is 920.0 feet, while the TOS elevation reported by Kemper was 921.3 feet. This discrepancy explains why the data at 409549 have appeared anomalous. As an example, for May 1997, the reported elevation was 826.2 feet. Adjusting this upward by 1.3 feet yields 827.5 feet, which fits nicely with the contours as drawn on Plan Sheet 4. The groundwater elevation at nearby well 04U879 was 827.6 feet. The TOS will be corrected in IRDMIS, and has been corrected in the groundwater elevation database and on Plan Sheet 4 in this report.

c. Groundwater Quality Contour Maps and Cross-Sections

As indicated on the FY 1997 Annual Monitoring Plan (Appendix B.1), the most extensive sampling event performed during FY 1997 was in June (Quarter 55). The groundwater quality data from Quarter 55 were used to prepare contour maps and cross-sections to illustrate the spatial distribution of groundwater contamination.

Groundwater quality contour maps were generated by hand, based on the observed contaminant concentrations and the extent of past site contamination.

Contour maps are provided for trichloroethene, as this is the principal contaminant on a concentration basis. Contour maps were prepared by Wenck for OU2 (on-post) and

OU1/OU3 combined (off-post), with individual maps for Upper Unit 3, Lower Unit 3, and Upper Unit 4. To complement the groundwater quality contour maps, cross-sections have been prepared to illustrate the vertical distribution of trichloroethene. One section line passes through the source area at Site G and follows the north plume (OU1) off-post, extending past Gross Golf Course (well 200812). A second section line passes through the source area at Site I and traces the south plume (OU3) off-post through the Plume Groundwater Recovery System (PGRS). These maps are presented as plan sheets and as figures. The figures are simply photo 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 are shown in parentheses on the Lower Unit 3 contour maps, but were not used for contouring purposes except when no Lower Unit 3 wells are in the vicinity. Similarly, wells completed in the Jordan aquifer (04J) and wells completed as open holes intersecting both the Prairie du Chien and Jordan aquifers (PJ#) are shown with the data in parentheses on the Upper Unit 4 maps, but were not used to develop contour lines.

Contaminant concentrations at recovery wells are also shown in parentheses on the maps, but were not used alone to prepare the isoconcentration 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.

For Site A, an isoconcentration contour map was developed for 1,2-dichloroethene as this is the most widespread contaminant at Site A. Site A cross-sections were also prepared which illustrate 1,2-dichloroethene. Contour maps for Site A were prepared only for Unit 1 since this is the only contaminated aquifer.

2. Groundwater Pumping

Groundwater pumping data was collected to aid in evaluating the effect which the pumping has on the shape and migration of the contaminant plume. The data was compiled primarily from a database maintained by the Minnesota Department of Natural Resources (MDNR). The MDNR database includes all permitted wells in Minnesota. Permits are required for wells with pumping rates greater than 10,000 gallons per day or 1,000,000 gallons per year.

The MDNR anticipates having 1997 pumping data available in May 1998. This information will be added to the FY 1997 Annual Performance Report when it becomes available.

Groundwater pumping data for the Cities of New Brighton and St. Anthony was obtained directly from city personnel, and not from the MDNR database. As shown by the data in Appendix G, the pumping from these two municipalities historically includes the vast majority of the groundwater use in the vicinity of the TCAAP plume.

Appendix G includes all permitted wells in the vicinity of the plume and is divided into "High Capacity Wells" and "Other Wells." High capacity wells are defined as those wells with a permitted pumping rate of greater than or equal to 50 gallons per minute. On-TCAAP recovery wells are not included in Appendix G.

III. Operable Unit 1 (OU1): Deep Groundwater

The reference for the OU1 ROD is:

RECORD OF DECISION
Groundwater Remediation
Operable Unit 1
At New Brighton/Arden Hills Superfund Site
September 1993

There have been no subsequent ROD Amendments or Explanations of Significant Differences.

Section I.D. of the ROD prescribes six major components of the remedy as described in the following sections.

A. REMEDY COMPONENT #1: ALTERNATE WATER SUPPLY/WELL ABANDONMENT

Description: "Providing an alternative water supply to residents with private wells within the North Plume." (OU1 ROD, page 2)

- Clarified by the OU1 Alternate Water Supply Plan (Montgomery Watson, October 1995) to delete "residents with" since the remedy applies to other wells in addition to residential wells. This plan also identifies the criteria for determining what wells are eligible for an alternate water supply.
- Clarified by the OU1 Alternate Water Supply Plan to also include well abandonment.

- Clarified by the OU1 Alternate Water Supply Plan (page i-2) to also encompass OU3 and the OU2 Site A shallow groundwater plume.

Performance Standard (how do you know when you're done):

- For alternate water supply, when all well owners that meet all of the following criteria have been offered and provided with an alternate water supply (or offered and rejected):
    i. The well is located within the area affected by groundwater plumes that originate at TCAAP; and
    ii. The well is completed in an affected aquifer; and
    iii. The well contains detectable concentrations of the TCAAP-related chemicals of concern identified on page 18 of the OU1 ROD (or page 26 of the OU3 ROD, or Table 1 of the OU2 ROD, as appropriate for the well location); and
    iv. The well is used in a manner to cause exposure (uses are defined in the Alternate Water Supply Plan); and
    v. The well owner does not already have an alternate water supply.

  If eligible well owners refuse the offer to have an alternate water supply provided, this also satisfies the performance standard.

- For well abandonment, when all wells that meet all of the following criteria have been offered and provided abandonment (or offered and rejected):
    i. The well is located within the area affected by groundwater plumes that originate at TCAAP; and
    ii. The well is completed in an affected aquifer; and
    iii. The well contains detectable concentrations of the TCAAP-related chemicals of concern identified on page 18 of the OU1 ROD (or

page 26 of the OU3 ROD, or Table 1 of the OU2 ROD, as appropriate for the well location); and

iv. The well was constructed prior to the Minnesota Department of Health (MDH) Special Well Construction Area advisory; and

v. The well is being used by the well owner or use was discontinued due to contamination; and

vi. The well is used in a manner to cause exposure (uses are defined in the Alternate Water Supply Plan).

If eligible well owners refuse the offer for abandonment, this also satisfies the performance standard. An exception to abandonment would be if the well is needed for groundwater monitoring.

Is this remedy component being implemented?

Yes. The Alternate Water Supply and Well Abandonment Program is underway, but is not yet completed. Highlights include:

- The Alternate Water Supply Plan (Montgomery Watson) was finalized in October 1995 (FY 1996).
- Twelve wells were sealed in October 1995 (FY 1996) as described in the FY 1996 Annual Monitoring Report.
- The Inventory of Wells in the Vicinity of TCAAP, 1995 Update (CRA) was finalized in March 1997. That document identified 15 well owners (18 wells) eligible for alternate water supply and/or well abandonment.
- During FY 1997, Montgomery Watson implemented the abandonment of six wells. A copy of a 1997 status report prepared by Montgomery Watson is included as Appendix H.

Within the North Plume, are there any well owners which meet the criteria, but have not yet been provided an alternate water supply?

Yes. See Appendix H. Also, CRA is working on the 1996/1997 Well Inventory Update which will identify additional wells. That report will be available early in FY 1998.

Within the North Plume, are there any wells which meet the criteria, but have not yet been abandoned?

Yes. Same response as for the previous question.

Did the boundary of the North Plume get any bigger during FY 1997, as defined by the 1 μg/l contour line?

No. Figures III.A-1 through III.A-3 illustrate the changes from FY 1996 to FY 1997 for trichloroethene at three depths: Upper Unit 3, Lower Unit 3, and Upper Unit 4. Trichloroethene is in general the most widespread of the chemicals of concern for OU1. Each figure presents side-by-side the isoconcentration contour maps for the two years. Plan Sheets 7-9 are enlargements of the FY 1997 maps for more detailed (legible) review of the data at individual wells. These figures indicate there was no appreciable change in the 1 μg/l contour for the North Plume (or the South Plume for OU3).

Were any new wells discovered within the North Plume during FY 1997?

Yes. The new wells will be identified in the 1996/1997 Well Inventory Update being prepared by CRA.

Were any water supply wells within the North Plume sampled during FY 1997 (outside of those included in the OU1 performance monitoring plan)?

Yes. The results will be presented in the 1996/1997 Well Inventory Update being prepared by CRA.

Were any well owners offered an alternate water supply?

Yes. See Appendix H.

Were any wells offered abandonment?

Yes. See Appendix H.

Are there any alternate water supply hookups or well abandonments proposed prior to the next report?

Yes. See Appendix H.

Is any sampling of water supply wells (excluding those included in the OU1 performance monitoring plan) proposed prior to the next report?

Yes. The proposed monitoring will be presented in the 1996/1997 Well Inventory Update being prepared by CRA.

Are there any changes or additional actions required for this remedy component? No.

B. REMEDY COMPONENT #2: DRILLING ADVISORIES

Description: "Implementing drilling advisories that would regulate the installation of new private wells within the North Plume as a Special Well Construction Area." (OU1 ROD, page 2)

Performance Standard (how do you know when you're done):

When the MDH has issued a Special Well Construction Area Advisory.

Has the MDH issued a Special Well Construction Area Advisory?

Yes. It was issued in June 1996. In addition to covering OU1, the Special Well Construction Area also encompasses OU3 and the OU2 Site A shallow groundwater plume.

Are any changes or additional actions required for this remedy component? No.

C. REMEDY COMPONENT #3: GROUNDWATER CONTAINMENT

Description: "Extracting groundwater at the containment boundary in the North Plume near County Road E." (ROD, page 2)

- This remedy component consists of recovering deep (Unit 4) groundwater using three City of New Brighton municipal wells: NBM #4, #14, and #15. New Brighton municipal well #4 (NBM #4) was an existing well completed in both the Prairie du Chien and Jordan. NBM #14 and NBM #15 were constructed in the Prairie du Chien as part of the remedy. The location of the three recovery wells are approximately ⅓ mile south of Interstate 694, east of Silver Lake Road, as shown on Plan Sheet 3.
- NBM #3 has been designated as an alternate containment/production well for times when one of the three primary wells are not in operation. NBM #3 was pumped while NBM #14 and NBM #15 were being constructed.

The OU1 remedy is part of the New Brighton water supply system, and as such, New Brighton took the lead on design and construction of the system, and will be responsible for operation of the system. New Brighton contracted Barr Engineering to provide design and construction oversite services. The OU1 remedy is being paid for by the Army.

Performance Standard (how do you know when you're done):

When the containment boundary created by the extraction system is providing complete capture of all groundwater with contaminant concentrations exceeding the cleanup standards specified on page 18 of the OU1 ROD.

Is this remedy component being implemented?

Yes. Recent highlights include:

- NBM #14 was installed and started pumping December 30, 1996.
- Drilling of NBM #15 was completed in September 1997, with installation of the pump, piping, and controls expected to be completed in February 1998.

During FY 1997, did the OU1 extraction system provide complete capture (at the containment boundary) of all groundwater exceeding the cleanup standards specified on page 18 of the OU1 ROD?

No. The system provided partial containment, but not complete containment.

During preparation of the OU1 Feasibility Study, the MPCA, USEPA, and Army agreed to use groundwater modeling to support the evaluation of containment. The actual method of modeling has not yet been agreed upon. Unless a different approach is agreed to, the present method for evaluation of containment consists of:

1. Comparing actual pumping rates to predicted pumping rates (predicted by MODFLOW);
2. Hand contouring (modeling) of water level data with 2-D presentation in plan view; and
3. Review of vertical hydraulic gradients.

NBM #15 was installed during FY 1997, but had not yet been placed into service. In the interim, NBM #3 was pumped along with NBM #4 and #14. The reported combined pumping rate for the three wells was below the design pumping rate needed for containment, as illustrated by the data on the next page. After NBM #14 went into service on December 30, 1996, its monthly pumping rate increased to above the design rate after 3 months, and remained above for the rest of FY 1997. The pumping rates at NBM #3 and NBM #4 never achieved the design rates. According to Barr Engineering, the pumps need to be reconfigured (more bowls added) in order to attain the desired rates. The design pumping rates to provide containment and the January-September 1997 pumping rates were:

	NBM #4	NBM #14	NBM #3 (in place of NBM #15)	Total
Design pumping rate for containment (gpm)	1,000	1,000	695	2,695
January pumping rate (gpm)*	473	857	191	1,521
February pumping rate (gpm)*	281	942	439	1,662
March pumping rate (gpm)*	431	946	529	1,906
April pumping rate (gpm)*	526	1,087	516	2,129
May pumping rate (gpm)*	642	1,150	384	2,176
June pumping rate (gpm)*	609	1,134	331	2,074
July pumping rate (gpm)*	458	1,131	100	1,689
August pumping rate (gpm)*	637	1,143	517	2,297
September pumping rate (gpm)*	668	1,147	478	2,293
January-September 1997 average pumping rates (gpm)	525	1,060	387	1,972

* Table III.C-1 presents monthly and yearly pumping volumes for each of the contaminant/production wells. The monthly pumping rates were calculated using the monthly pumpage, divided by the number of days in the month, divided by 24 hours in a day, and divided by 60 minutes in an hour.

The water level contour map for Upper Unit 4 (Figure III.C-1 and Plan Sheet 4) shows the influence of pumping at NBM #3, NBM #4 and NBM #14 during the summer of 1997. Better definition of the influence will be possible once additional monitoring wells are installed at the locations shown on Plan Sheet 4. Two monitoring wells were completed in FY 1997 and the rest will be completed in FY 1998.

Table III.C-2 presents vertical hydraulic gradients calculated for well nests in OU1. These well nests are located both upgradient and downgradient of the containment system, but are not in close proximity to the system. Better evaluation of vertical gradients in the vicinity of the containment system will be possible when the additional monitoring wells are installed, as described above. With the exception of one well nest (03L841-04U841), the vertical gradients indicate downward flow from the Upper Unit 3 to Lower Unit 3 to Prairie du Chien to Jordan.

Further discussion of containment will be deferred to the FY 1998 Annual Performance Report at which time all of the extraction wells will be in service.

Is any monitoring proposed prior to the next report?

Yes. See Section III.F. Relatively intensive monitoring will occur once the last containment/production well (NBM #15) is in service and the new monitoring wells are completed. After an initial intensive evaluation, monitoring frequencies will be scaled back.

Are any changes or additional actions required for this remedy component? No.

D. REMEDY COMPONENT #4: REMOVAL OF VOCs BY GAC

Description: "Pumping the extracted groundwater to the Permanent Granular Activated Carbon (PGAC) Water Treatment Facility in New Brighton for removal of VOCs by a pressurized GAC system." (OU1 ROD, page 2)

- The PGAC, along with iron and manganese removal, make the recovered groundwater suitable for municipal drinking water purposes. The PGAC is located approximately ⅓ mile south of Interstate 694 near Silver Lake Road as shown on Plan Sheet 3. The City of New Brighton is responsible for operation and maintenance of the PGAC, with cost reimbursement for the operations related to the remedy from the Army.

Performance Standard (how do you know when you're done):
When the treated water meets the MCLs and non-zero MCLGs established by the Safe Drinking Water Act (SDWA). (OU1 ROD, page 18)

- Specifically for the chemicals of concern identified on page 18 of the OU1 ROD.

During FY 1997, did the treated water meet the MCLs and non-zero MCLGs established by the SDWA for the OU1 chemicals of concern?
Yes. Table III.D-1 shows the effluent results from the PGAC for FY 1997 (Note: for the FY 1998 Report, it is intended to show data for each of the OU1 chemicals of concern, versus total VOCs). The data is not from a combined effluent after the GAC vessels; instead, it is from sampling ports between the lead and lag GAC vessel for each of the 8 GAC vessel pairs in the PGAC. The sampling is primarily intended to determine when breakthrough of each lead GAC vessel has occurred. When breakthrough of a lead vessel has occurred, the sampling location is switched to after the lag vessel, which then becomes the lead vessel. The vessel with breakthrough has its carbon changed-out, and then it becomes the lag vessel, which puts the sampling location back between two vessels.

Is any sampling of the treated water proposed prior to the next report?
Yes. Sampling will be performed by the City of New Brighton or their contractor.

Are any changes or additional actions required for this remedy component? No.

E. REMEDY COMPONENT #5: DISCHARGE OF TREATED WATER

Description: "Discharging all of the treated water to the New Brighton municipal distribution system." (OU1 ROD, page 2)

Performance Standard (how do you know when you're done):
When the connection to the New Brighton municipal supply system has been completed and water is being discharged.

Is the treated water being discharged to the New Brighton municipal distribution system?
Yes. Note that NBM #15 was not yet in service for this reporting period. As noted earlier, NBM #3 was pumped instead.

Are any changes or additional actions required for this remedy component? No.

F. REMEDY COMPONENT #6: GROUNDWATER MONITORING

Description: "Monitoring the groundwater to verify the effectiveness of the remedy." (OU1 ROD, page 2)

Performance Standard (how do you know when you're done):
When a performance groundwater monitoring program has been established and on-going monitoring is in compliance with the program.

Is this remedy component being implemented?
Yes. Performance monitoring programs have been established to collect the data required to verify the effectiveness of remedy components #1-#5. Table III.F-1 summarizes the performance

monitoring requirements, responsible parties, and the documents which contain the monitoring plans.

Were the groundwater monitoring requirements for this remedy met?

A significant portion of the proposed OU1 monitoring was presented in the FY 1997 Monitoring Plan, which was submitted and approved as part of the FY 1995 Annual Monitoring Report. A copy of the FY 1997 Monitoring Plan is included as Appendix B.1 and the Plan has been marked to show what monitoring was missed. Explanations for missed monitoring are provided in Appendix B.2. For wells with chronic problems (e.g., access denied, no water level port, etc.) monitoring was deleted for the FY 1998 Monitoring Plan.

Is any groundwater sampling proposed prior to the next report? Yes.

- Groundwater sampling of water supply wells related to alternate supply and abandonment will be in accordance with recommendations in the 1996/1997 Well Inventory Update (CRA), which will be available in FY 1998.
- Monitoring of the extraction wells and treatment system effluent will be performed by the City of New Brighton in accordance with the "New Brighton Water System Sampling and Analysis Plan," June 1997.
- Other groundwater monitoring will be in accordance with the Groundwater Monitoring Plan included as Appendix I.1. The Monitoring Plan for FY 1998 was previously submitted and approved as part of the FY 1996 Annual Monitoring Report. New for this year is a plan showing a five-year timeframe versus one-year. Relative to FY 1998, proposed changes (and rationale) are summarized in Table III.F-2.

Are any changes or additional actions required for this remedy component? No.

G. OVERALL REMEDY FOR OU1 DEEP GROUNDWATER

Has the OU1 remedy been completed (i.e., have the cleanup levels on page 18 of the OU1 ROD been attained throughout the areal and vertical extent of the North Plume)? No.

What impact is the groundwater extraction system having on contaminant concentrations? As described in Section III.A, Figures III.A-1 through III.A-3 illustrate changes in the North Plume from FY 1996 to FY 1997.

Figure III.A-1 shows that for Upper Unit 3, the contours did not change much. Near TCAAP, the 1,000-μg/l contour narrowed. Near the downgradient edge, the 1-, 10-, and 100-μg/l contours all retreated.

Figure III.A-2 shows that for Lower Unit 3, the contours changed very little. Similar to the 1,000 μg/l contour for Upper Unit 3, the 100 μg/l contour narrowed for Lower Unit 3 near TCAAP.

Figure III.A-3 also shows relatively minor changes in the contours. These may simply be fluctuations (variability) in the data. One specific noticeable change was an eastward shift of the 10 and 100 μg/l contours to NBM #14 which started pumping in FY 1997.

Figure III.G-1 presents a cross-section (A-A') through the OU1 plume showing trichloroethene concentrations and contours.

When viewing Figures III.A-3 and III.G-1, the reader should note that the downgradient extent of the 100 μg/l contour in Upper Unit 4 is not well-defined south of 04U872. Most of the contamination in Unit 4 is in the Prairie du Chien versus the underlying Jordan. Wells 04U872 and 04U834 (quite a ways south of 04U872) are completed in the Prairie du Chien and help to delineate the contamination. However, between these two wells the delineation in the Prairie du

Chien is less-clear because the four wells are either completed in the Jordan or both the Prairie du Chien/Jordan. Hence, the 100 μg/l contour in the Prairie du Chien may extend further south than shown on the figures. Regardless of the true extent, water supplies in this area are protected through the alternate water supply and abandonment program, and GAC treatment on the St. Anthony municipal water supply.

How much VOC mass has been removed (at each well and total)?
See Table III.C-1.

Are any changes or additional actions required for OU1? No.

IV. Operable Unit 2 (OU2)

The reference for the OU2 ROD is:

Twin Cities Army Ammunition Plant
New Brighton/Arden Hills Superfund Site
Operable Unit 2
RECORD OF DECISION
October 1997

There have been no subsequent ROD Amendments or Explanations of Significant Differences.

Section I.D. of the ROD prescribes major remedy components for each of four media as described in the following sections.

A. SHALLOW SOIL SITES

Through the RI/FS process, Sites A, C, E, H, 129-3, and 129-5 were found to have inorganic and/or organic contaminants above the cleanup goals specified in Table 1 of the OU2 ROD. Unpermitted landfills, or dumps, exist within Sites A, B, E, H, and 129-15. The OU2 ROD (page 2) describes nine remedy components to address the shallow soil sites.

1. Remedy Components #1-7: Soil Remediation

Description: These seven components collectively address the characterization, excavation, sorting, treatment, disposal, site restoration, and site access restrictions for the shallow soils and dumps at Sites A, C, E, H, 129-3, and 129-5.

Performance Standard (how do you know when you're done):

When the soils at these sites have been remediated such that the contaminant concentrations are below the cleanup levels specified in Table 1 of the OU2 ROD.

Are these remedy components being implemented?

Yes. Activities during FY 1997 were:

- Development of Work Plans for the sites.
- Completion of a characterization investigation at Site A.

The Site A work was performed between April and May. The investigation found a disposal trench believed to be a source for groundwater contamination. The findings of the investigation are presented in the Site A Investigation Report (Stone and Webster, 1998).

2. Remedy Component #8: Groundwater Monitoring

Description: "Five-year period of groundwater monitoring to verify no adverse remedy impacts at Sites A, C, E, H, 129-3, and 129-5." (OU2 ROD, page 2)

Performance Standard (how do you know when you're done):

When five years have elapsed with groundwater monitoring results below the groundwater cleanup levels.

Is this remedy component being implemented?

No. The intent of this remedy component is to verify that soil characterization and/or remediation activities do not somehow cause impacts to groundwater. As such, the five-year monitoring period is intended to start after completion of remedy components #1-7 above. Thus, specifically for this remedy component, there was no monitoring performed in FY 1997. Given

the anticipated schedules of completing remedy components #1-7, it is estimated that the five-year verification monitoring will begin in the years 2000-2002 at the various shallow soil sites.

Through a future report, a monitoring plan will be developed for this remedy component. The plan will address the following items for each of the shallow soil sites:

- The well(s) to be sampled
- The frequency of sampling
- The analytical parameters
- The cleanup levels
- How the data will be compared to the cleanup levels (e.g., all data must be below the criteria, or mean values, etc.).

With respect to bullets 3 and 4, the OU2 ROD specifies shallow groundwater contaminant cleanup levels for Site A (Table 1), but not for the other shallow soil sites. Since there is no shallow (Unit 1) groundwater beneath Sites E and 129-3, it is implied that the OU2 Deep Groundwater cleanup levels would apply to these two sites. It is unclear whether the Site A parameter list and cleanup levels apply to the other shallow soil sites. This is an issue to be resolved in the future.

3. Remedy Component #9: Characterization of Dumps

Description: "Characterization of dumps at Sites B and 129-15 to determine their contents. If contents are found to be toxic, hazardous, or contaminated, then a remedy for the landfill will be utilized and documented through a post-ROD amendment. If the contents are not toxic, hazardous or contaminated, a no further action remedy would be employed." (OU2 Rod, page 2)

Performance Standard (how do you know when you're done):

When characterization has been sufficient to determine if the contents are toxic, hazardous, or contaminated.

Is this remedy component being implemented?

No characterization work was performed during FY 1997.

B. DEEP SOIL SITES

Sites D and G have been impacted primarily by VOC contaminants at depths extending to between 50 and 170 feet. Some additional shallow soil contaminants may exist at Site D, and Site G also contains a dump. The OU2 ROD (pages 2-3) describes seven remedy components for these two sites. The final remedy incorporates the use of existing SVE systems and site caps, which were installed in 1986.

1. Remedy Component #1: Groundwater Monitoring

Description: "Groundwater Monitoring." (OU2 ROD, page 2)

Performance Standard (how do you know when you're done):

When groundwater monitoring results from wells adjacent to each site are below the cleanup levels for deep groundwater specified in Table 1 of the OU2 ROD.

Is this remedy component being implemented? Yes.

Were the groundwater monitoring requirements of this remedy met?

Yes. Samples were collected and analyzed from the wells nearest to Sites D and G in accordance with the FY 1997 Monitoring Plan.

What impact are the SVE systems having on contaminant concentrations in groundwater adjacent to Sites D and G?

Figure IV.B-1 shows the locations of the wells nearest to Site D (03U096, 03U093, and 03U018) and Site G (03U094 and 03U014). As shown on the trend graphs in Figures IV.B-2 through IV.B-5, trichloroethene concentrations in these wells continued to decrease in FY 1997, except at 03U093, where the reported value of 680 μg/l is an increase from 260 μg/l in September 1996. Over a longer period of time at 03U093, say from 1992 to 1997 as shown by the inset on Figure IV.B-3, the concentrations have been variable, but trending downward. There is not an obvious explanation for the increase from 1996 to 1997, and in the big picture it is not a concern unless future data continues to show increases.

Table IV.B-1 presents the FY 1997 data from these five wells for the deep groundwater chemicals of concern. The table shows that four of the five wells still exceed the cleanup level for trichloroethene, and two wells exceed the cleanup level for 1,1-dichloroethene.

Overall, these results indicate that the SVE systems at Sites D and G are effectively minimizing (or eliminating) further contamination of the deep groundwater beneath these sites.

Is any groundwater sampling proposed prior to the next report?

Yes. As shown in Appendix I-1, these same five wells will be sampled in June 1998 for VOC analysis.

Are any changes or additional actions required for this remedy component? No.

2. Remedy Component #2: Restrict Site Access

Description: "Restrict site access and use during remedy implementation." (OU2 ROD, page 2)

Performance Standard (how do you know when you're done):
When site access is adequately restricted to protect human health.

Is this remedy component being implemented?
Yes. TCAAP is fenced with locking gates controlled by the operating contractor, Alliant Techsystems.

Are any changes or additional actions required for this remedy component? No.

3. Remedy Component #3: SVE Systems

Description: "Install and operate deep soil vapor extraction (SVE) systems with modified shallow SVE." (OU2 ROD, page 2)

- Soil vapor extraction (SVE) systems were installed at Sites D and G in 1986 as Interim Remedial Actions to address soil contamination. The existing system at Site D consists of 39 shallow vents (depths of 33-54 feet) and one deep vent (depth of 150 feet). At Site G there are 89 shallow vents (depths of 23-55 feet).
- The intent of this remedy component is to add additional deep vents, as needed, at both sites to address presumably contaminated soils below the existing SVE systems. The existing systems will be modified as needed, including possibly turning off vents which are removing little, if any, VOC mass.

Performance Standard (how do you know when you're done):

When the soil concentrations are below the cleanup levels specified in Table 8 of the OU2 ROD.

Is this remedy component being implemented?

Yes. During FY 1997, additional characterization sampling and analysis was performed at Sites D and G by Stone and Webster as a prelude to the pilot study for installation of deep vents. The report of findings will be available in FY 1998. Operation of the existing SVE systems continued.

Have the deep SVE systems been installed? No.

Have the shallow SVE systems been modified?

No. The modifications are pending installation of the deep SVE systems.

Were the monitoring requirements for this remedy component met?

Yes. The combined discharge at each system was monitored monthly for flowrate and air quality analyses as reported in Table IV.B-2. Samples from Site D were analyzed for 1,1,1-trichloroethane and trichloroethene, while samples from Site G were analyzed for these same two compounds, plus cis-1,2-dichloroethene. This monitoring was in accordance with past agreements between the Army, MPCA, and USEPA.

How much VOC mass has been removed (at each vent and total)?

Table IV.B-2 shows that during FY 1997, the existing SVE systems at Sites D and G removed 764 pounds and 94 pounds of VOCs, respectively. From startup in 1986, through October 7, 1997, the systems have removed 115,679 pounds and 104,364 pounds, respectively. These calculations utilize measured air flowrate, laboratory VOC air monitoring results, and operating time to determine mass removal rates. Periods of downtime are accounted for in these calculations. The current monitoring program does not permit calculation of VOC mass removal at individual vents, only total system results.

Are the air emissions in exceedance of any discharge criteria?

No. The annual emissions are below the regulatory thresholds of 10 tons per year for any individual hazardous air pollutant and 25 tons per year for total hazardous air pollutants, that would require an air emissions permit.

Is any monitoring proposed prior to the next report?

Yes. There will be continuation of the monthly monitoring program currently in place. Additional monitoring may be proposed at a later time as part of either the remedial design process, or other recommended operation actions.

Are any changes or additional actions required for this remedy component? No.

4. Remedy Component #4: Enhancements to the SVE Systems

Description: "Evaluate and potentially use enhancements to the SVE systems." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When an adequate evaluation has been completed.

Is this remedy component being implemented?

Not yet, but a pilot study for Site D has been proposed and there will be an evaluation of the design.

Are any evaluations proposed prior to the next report?

See response above.

Are any changes or additional actions required for this remedy component? No.

5. Remedy Component #5: Maintain Existing Site Caps

Description: "Maintain existing site caps." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When the caps are maintained in adequate condition.

Is this remedy component being implemented?
Yes. Alliant Techsystems inspects the caps during routine operation and maintenance inspections.

Are there any problems with the caps?
No problems were observed in FY 1997 beyond the maintenance items described below.

Were any maintenance activities performed for the caps in FY 1997?
Yes. Trees and bushy vegetation were cut and removed at both sites. Also, ruts caused by the drilling rig used for the investigation conducted by Stone and Webster were repaired with clay after the investigation work at Sites D and G.

Are any maintenance activities planned prior to the next report?
No, except for cutting of any trees or bushes, as necessary.

Are any changes or additional actions required for this remedy component? No.

6. Remedy Component #6: Maintain Surface Drainage Controls

Description: "Maintain surface [drainage] controls." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When surface water does not pond on the caps, and surface water flows off at a rate that does not cause erosion problems with the cap.

Is this remedy component being implemented?
Yes. Alliant Techsystems inspects the drainage conditions during routine operation and maintenance inspections.

Are there any problems with the surface drainage controls? No.

Were any maintenance activities performed for the surface drainage controls in FY 1997?
No.

Are any maintenance activities planned prior to the next report? No.

Are any changes or additional actions required for this remedy component? No.

7. Remedy Component #7: Characterize Shallow Soils and Dump

Description: "Following completion of SVE remediation of deep soils, characterize Site D shallow soils and Site G dump to determine appropriate action." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When the characterizations have provided answers necessary to determine if additional remediation is required, and if remediation is required, when it has been completed.

Is this remedy component being implemented?
No, the SVE remediation is not completed yet.

Is any characterization work proposed prior to the next report? No.

Are any changes or additional actions required for this remedy component? No.

8. Overall Remedy for Deep Soil Sites

Has the SVE remediation been completed (i.e., have the soil cleanup levels in Table 8 of the OU2 ROD been attained throughout the areal and vertical extent of Sites D and G)?
No. Soil sampling and analysis performed by Stone and Webster at Sites D and G during FY 1997 should shed some light on the progress of the remediation. The report of findings will be available in FY 1998.

Has it been determined that remediation of shallow soils at Site D and/or the dump at Site G is not required, or if required, has the remediation been completed?
No, the determination has not been made.

C. SITE A SHALLOW GROUNDWATER

Shallow groundwater at Site A has been impacted by VOCs and antimony. The selected remedy in the OU2 ROD consists of five components which incorporate the use of the existing groundwater extraction system which began operation May 31, 1994.

1. Remedy Component #1: Groundwater Monitoring

Description: "Groundwater monitoring to track plume migration and remedy performance." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When a performance groundwater monitoring program has been established and on-going monitoring is in compliance with the program.

Is this remedy component being implemented?

Yes. Performance monitoring programs have been established to collect the data required for remedy components #2-#4 and evaluation of the overall remedy. Table IV.C-1 summarizes the performance monitoring requirements, responsible parties, and the documents which contain the monitoring plans.

Were the groundwater monitoring requirements for this remedy met?

Yes, in most cases. The Site A monitoring was presented in the FY 1997 Monitoring Plan, which was submitted and approved as part of the FY 1995 Annual Monitoring Report. A copy of the FY 1997 Monitoring Plan is included as Appendix B.1 and the Plan has been marked to show what monitoring was missed. Explanations for missed monitoring are provided in Appendix B.2.

Is any groundwater sampling proposed prior to the next report? Yes.

- Groundwater sampling of water supply wells related to alternate water supply and well abandonment will be in accordance with recommendations in the 1996/1997 Well Inventory Update (CRA), which is expected to be available in FY 1998.

- Monitoring of the extraction wells (pumping volumes, water levels, and water quality) and treatment system effluent will be performed in accordance with Appendix I.2.
- Other groundwater monitoring will be in accordance with the Groundwater Monitoring Plan included as Appendix I.1. Monitoring shown for FY 1998 was previously submitted and approved as part of the FY 1996 Annual Monitoring Report. New for this year is a plan showing a five-year timeframe versus one-year. Relative to FY 1998, it is proposed to change the frequency of monitoring to be uniformly on an annual basis for all wells, versus a mix of semi-annual and annual monitoring. The past three years of more frequent monitoring data has demonstrated performance of the extraction system. Operation of the system is based primarily on extraction well flowrate data, not water level or water quality data. An annual check of hydraulic performance by looking at water level data is sufficient. Likewise, an annual evaluation of attainment of cleanup levels is adequate.

Are any changes or additional actions required for this remedy component? No.

2. Remedy Component #2: Groundwater Containment and Mass Removal

Description: "Use of existing gradient control wells to contain the contaminant plume and remove mass." (OU2 ROD, page 3)

- Eight recovery wells (01U351-01U358) were installed in two capture lines as shown on Figure IV.C-1. Seven of the eight recovery wells fully penetrate the Unit 1 aquifer and range in depth from 31 to 48 feet, as shown in cross-section view on Figure IV.C-2 (Plan Sheet 11). The one partially penetrating well, 01U353, was completed in silt to sandy clay units which were resistant to drilling and determined to be the top of Unit

2 by the field geologist. The well log does not note the presence of silt (Fuller, 1994). The partially penetrating well is illustrated on cross-section B-B' on Figure IV.C-2 (Plan Sheet 11).

Performance Standard (how do you know when you're done):
When the extraction system is providing complete capture of all groundwater exceeding the cleanup levels specified in Table 1 of the OU2 ROD.

Is the Site A groundwater extraction system providing complete capture of all groundwater exceeding the cleanup levels specified in Table 1 of the OU2 ROD?
Yes. Table IV.C-2 shows the monthly pumping volume for each extraction well. From this data, the average pumping rate for the entire system in FY 1997 was 30 gpm, which exceeds the flowrate of 25 gpm determined necessary to achieve containment.

Figure IV.C-3 (Plan Sheet 12) shows the influence of pumping at the extraction wells during the summer of 1997, and supports the statement that the system is providing complete capture of all groundwater exceeding the Site A cleanup levels.

Are any changes or additional actions required for this remedy component? No.

3. Remedy Component #3: Drilling Advisory/Alternate Water Supply/Well Abandonment

Description: "Institutional controls to restrict new well installations and provide alternate water supplies and well abandonment as necessary." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When the MDH has issued a Special Well Construction Area Advisory and when well owners who qualify have been offered and provided with alternate water supply and/or have had their wells abandoned (or the offers have been rejected).

Is the remedy component being implemented?

Yes. The OU1 Alternate Water Supply and Well Abandonment Program is underway and was expanded to cover the area affected by the OU2 Site A Shallow Groundwater plume. See Section III.A of this report.

Has the MDH issued a Special Well Construction Area Advisory for the area impacted by Site A?

Yes, it was issued in June 1996.

Within the Site A plume, are there any well owners which meet the criteria but have not yet been provided an alternate water supply?

No. No eligible wells were identified through the end of FY 1997.

Within the Site A plume, are there any wells which meet the criteria, but have not yet been abandoned?

No. The Gamradt residence (5567 Fairview Avenue) refused the Army's offer for abandonment so they will be excluded from future eligibility. No other eligible wells were identified through the end of FY 1997.

Did the boundary of the Site A plume get any bigger, as defined by the 1 μg/l contour?

No. Figure IV.C-4 shows that there were no significant changes in the 1 μg/l contour lines from FY 1996 to FY 1997 for 1,2-dichloroethene. Plan Sheet 11 is an enlargement of the FY 1997 map for more detailed (legible) review of the data at individual wells.

Were any new water supply wells discovered within the Site A plume?

To be answered in the 1996/1997 Well Inventory Update being prepared by CRA.

Were any water supply wells within the Site A plume sampled during FY 1997?

To be answered in the 1996/1997 Well Inventory Update being prepared by CRA.

Were any well owners offered an alternate supply?

No. None qualified.

Were any wells offered abandonment?

Yes. The Martin residence (1831 West County Road I) and the Shanzer residence (1740 Pinewood Drive) were abandoned during FY 1997. The Gamradt residence (5567 Fairview Avenue) refused the Army's offer for abandonment and will be excluded from future eligibility.

Are there any alternate water supply hookups or well abandonments proposed prior to the next report?

No. To be discussed in the 1996/1997 Well Inventory Update being prepared by CRA.

Is any sampling of water supply wells proposed prior to the next report?

Yes. The proposed monitoring will be presented in the 1996/1997 Well Inventory Update being prepared by CRA.

Are any changes or additional actions required for this remedy component? No.

4. Remedy Component #4: Discharge of Extracted Water

Description: "Discharge of extracted groundwater to a publicly-owned treatment works (POTW)." (OU2 ROD, page 3)

- The recovered groundwater is piped to a sewer discharge manhole (Shoreview sanitary sewer discharge manhole #229) located approximately 150 feet north of the TCAAP boundary as shown in Figure IV.C-1. The recovered groundwater is conveyed via a City of Shoreview sanitary sewer to the Metropolitan Council Environmental Services (MCES) Treatment Plant located at 2400 Childs Road in St. Paul, Minnesota. Discharge is in accordance with Industrial Discharge Permit Number 2194 from the MCES.

Performance Standard (how do you know when you're done):

When the concentrations of contaminants in the extracted groundwater and the flow rate are below the criteria in the Special Discharge Permit:

• 1,2-Dichloroethene	3,000 μg/l (3 mg/l)
• Trichloroethene	3,000 μg/l
• Tetrachloroethene	3,000 μg/l
• Total Mercury	0.2 μg/l
• pH	5.0-11.0
• Total Suspended Solids	(No criteria. Monitoring required to determine strength charge.)
• Chemical Oxygen Demand	(No criteria. Monitoring required to determine strength charge.)

During FY 1997, was the discharge water in compliance with the Industrial Discharge Permit requirements?

Table IV.C-3 shows that the effluent water quality was below the discharge criteria every month in FY 1997.

Is any sampling of the discharge water proposed prior to the next report?

Yes. In accordance with the permit requirements, the discharge will be sampled monthly for 1,2-dichloroethene; trichloroethene; tetrachloroethene; and total mercury, and annually for pH; Total Suspended Solids; and Chemical Oxygen Demand (see Appendix I.2).

Are any changes or additional actions required for this remedy component? No.

5. Remedy Component #5: Source Characterization/Remediation

Description: "Source characterization/remediation." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

For characterization, when the investigation has answered the questions needed to prepare remedial design documents. For remediation, when the contaminant concentrations in soil are below the cleanup levels specified in Table 1 of the OU2 ROD.

Is this remedy component being implemented?

Yes. During April and May 1997, Stone and Webster led investigation/characterization work at Site A. See Section IV.A of this report.

Is any characterization work or remediation work proposed prior to the next report?

The Site A prepared by Stone and Webster will address recommendations for future work.

Are any changes or additional actions required for this remedy component? No.

6. Overall Remedy for Site A Shallow Groundwater

Performance Standard (how do you know when you're done):

When the cleanup levels in Table 1 of the OU2 ROD have been attained throughout the areal and vertical extent of the Site A plume within the anticipated ten-year lifespan of the remedy. If the remedy has not been completed within ten years, additional remedial measures will be addressed. (OU2 ROD, p. 54)

Has the Site A shallow groundwater remedy been completed (i.e., have the cleanup levels in Table 1 of the OU2 ROD been attained throughout the areal and vertical extent of the Site A plume)?

No. Table IV.C-4 shows the exceedances in wells at Site A during FY 1997.

What impact is the groundwater extraction system having on contaminant concentrations?

The groundwater extraction system continues to cause a decrease in contaminant concentrations at Site A. While there may be short-term increases (fluctuations) at individual wells, the long-term trend is downward.

Figure IV.C-4 illustrates the changes caused by the extraction system from FY 1996 to FY 1997 for 1,2-dichloroethene. The figure presents side-by-side the isoconcentration contour maps for the two years. Plan Sheet 11 is an enlargement of the FY 1997 map for more detailed (legible) review of the data at individual wells.

Figure IV.C-4 shows that the 1,2-dichloroethene plumes decreased slightly from FY 1996 to FY 1997 as defined by the 1 μg/l contour. More important were reductions in the 10 μg/l and 100 μg/l contours since the cleanup level is 70 μg/l. In FY 1996, there were two areas with concentrations greater than 100 μg/l, but the concentrations in FY 1997 decreased, thereby eliminating the 100 μg/l contours.

As a different perspective on the contaminant conditions, Figure IV.C-2 (Plan Sheet 9) presents several cross-sections with 1,2-dichloroethene concentrations and contours.

As supporting evidence that the contaminant concentrations are decreasing in groundwater, Figures IV.C-5 through IV.C-10 present trend graphs of 1,2-dichloroethene; trichloroethene; and tetrachloroethene for representative wells:

- 01U102 - Near the suspected source area for the "South" plume
- 01U108 - Near the suspected source area for the "North" plume
- 01U902 - Downgradient of the recovery system for the "South" plume
- 01U115 - Downgradient of the recovery system for the "North" plume
- Recovery Wells 01U351 - 01U358 (1,2-dichloroethene only)

Appendix C.3 shows that lead concentrations were reported above the federal tap water action criteria of 15 ug/l in recovery well 01U351 (27.4 ug/l) in December 1996, and in recovery wells 01U352 (16.2 ug/l), 01U354 (28.5 ug/l), and 01U356 (32.4 ug/l) in June 1997. Lead is a Chemical of Concern (COC) in soil at Site A, but presently is not a COC for groundwater. These samples are not filtered so it is likely that the lead is associated with sediment (turbidity) in the wells, and is not indicative of a dissolved groundwater plume at Site A. Dating back to 1994, the lead concentrations have been relatively erratic at all of the Site A recovery wells, which supports the interpretation of sediment as the cause, since the amount of sediment in the samples would be random. Filtering the samples is an option; however, the MCES requires unfiltered samples for compliance with the discharge permit. Rather than collect both filtered and unfiltered samples, CRA intends to try to minimize the turbidity in these wells during operation. If that fails, collection of filtered samples will be considered in the future.

How much VOC mass has been removed (at each well and total)?

Table IV.C-2 shows the calculated VOC mass removal rates for each extraction well during FY 1997. The system removed nearly 5 pounds of VOCs in FY 1997, with a cumulative VOC mass removal of 27 pounds since system startup on May 31, 1994.

Has 10 years elapsed since signing of the OU2 ROD? No.

Do additional remedial measures need to be addressed? No.

D. SITE I REMEDIAL ACTION

VOCs were identified in the Unit 1 groundwater at Site I. PCBs were identified in soils east of Building 502.

PCB contaminated soils east of Building 502 were excavated in 1986. These soils were stored in a storage building built as part of the PCB Interim Remedial Action (IRA) at Site I. During August and September 1996, these soils were removed and disposed of at a Toxic Substances Control Act (TSCA) landfill with approval of the MPCA and USEPA.

Monitoring in FY 1997 addressed the long term performance of the PCB removal and the VOCs identified in the groundwater beneath the western portion of Building 502. The selected remedy in the OU2 ROD consists of four components, which incorporate the use of an existing well for groundwater extraction and additional investigation beneath the building slab. The final scope of the remedy depends on the results of the additional investigation.

1. Remedy Component #1: Groundwater Monitoring

Description: "Groundwater monitoring to track remedy performance." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When a monitoring plan has been established and on-going monitoring is in compliance with the plan.

Is the remedy component being implemented?

Partially. Monitoring at Site I in FY 1997 was conducted according to the monitoring plan for FY 1997, which did not address the final remedy in the OU2 ROD. Appendix B summarizes the FY 1997 monitoring plan and any deviations.

Seven Unit 1 monitoring wells were planned for sampling at Site I (Building 502) during 1997. These wells are 01U064, 01U636, 01U639, 01U640, I01-MW, I02-MW, and I05-MW. Figure IV.D-1 shows these well locations. All of these wells, except 01U064 and 01U640, were dry at the time of sampling (June 30, 1997). The dry wells yielded water when originally installed. The sample from well 01U640 was analyzed using EPA Method 608 for PCBs. Samples from both wells were analyzed using EPA Method 601 for VOCs. Table IV.D-1 presents the results of the FY 1997 analyses.

What were the monitoring results for FY 1997?

Neither VOCs nor PCBs were detected in the 01U640 sample. The VOCs present at well 01U064 are consistent with past data which identified VOCs in Unit 1 at Site I. The Unit 1 aquifer at Site I did not flow off-site during the monitoring year. This is evidenced by dry Unit 1 monitoring wells along the south and west boundaries of Site I as discussed above. To the east and north, Unit 2 is absent and the perched Unit 1 aquifer is absent.

PCBs are monitored in groundwater as part of the long term monitoring of the PCB removal activities. The historical absence of PCBs over previous years suggests that any residual PCBs that remain in the excavated area are immobile and are not a threat to Unit 1 groundwater. The relative immobility of PCBs in soil is evidenced by their extremely high organic carbon partitioning coefficients documented in the literature.

2. Remedy Component #2: Groundwater Extraction

Description: "Use of an existing well to remove impacted groundwater." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When the equipment has been installed and is operating according to the Remedial Design approved by the regulators.

Has the remedy component been implemented?
No. The OU2 ROD was signed in December 1997 thus, the remedy for Site I was not implemented in FY 1997.

3. Remedy Component #3: POTW Discharge

Description: "POTW discharge of extracted groundwater." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When the discharge component has been implemented.

Has the remedy component been implemented?
No. The OU2 ROD was signed in December 1997 (FY 1998) thus, the remedy for Site I was not implemented in FY 1997.

4. Remedy Component #4: Additional Investigation

Description: "Additional characterization of the Unit 1 and Unit 2 soil and groundwater." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When the work has been completed according to a regulator approved work plan.

Has the remedy component been implemented?

No. The OU2 ROD was signed in December 1997 thus, the remedy for Site I was not implemented in FY 1997. A work plan is being prepared to address this remedy component.

Overall Remedy for Site I Shallow Groundwater

The remedy specified in the OU2 ROD has not been implemented since the ROD was not signed until FY 1998. The work plan for the additional investigation is being prepared. Monitoring in FY 1997 was consistent with the FY 1997 monitoring plan. The following conclusions are made for FY 1997:

- PCBs potentially present in Site I soils have not impacted the Unit 1 aquifer at the Site.
- VOCs continue to be present in the Unit 1 aquifer beneath the western portion of Building 502.

Is additional monitoring proposed prior to the next report?

Yes. Appendix I presents the FY 1998 - FY 2003 Monitoring Plan. Table IV.D-2 presents the monitoring requirements for Site I. Unit 3 and Unit 4 groundwater monitoring at Site I is addressed as part of the deep groundwater portion of the monitoring plan. The monitoring plan for Site I will be subject to review based on the results of the additional investigation work and the final design of the remedial action.

E. SITE K REMEDIAL ACTION

Volatile organic compound (VOC) contamination was identified in the Unit 1 (perched aquifer) at Building 103. The limits of the VOC plume in the perched groundwater have been defined to be beneath and immediately northwest of Building 103.

The remedy selected in the OU2 ROD consists of seven components that incorporate the existing groundwater extraction trench and air stripper, which began operation in August 1986. The remedy also includes additional investigation of the unsaturated soils beneath the building slab.

1. Remedy Component #1: Groundwater Monitoring

Description: "Groundwater monitoring to track remedy performance." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When a monitoring plan is established and monitoring is in compliance with the plan.

Is the remedy component being implemented?
Yes. Appendix B summarizes the FY 1997 monitoring plan and any deviations. Monitoring was as follows:

Treatment System

The treatment system effluent was sampled on a monthly basis for total phosphorus and orthophosphate. On a quarterly basis, the influent was sampled for target VOCs and the effluent was sampled for target VOCs, metals, total phosphorus and orthophosphate as listed on Table IV.E-1. Appendix L.4 summarizes operational data and events at the groundwater extraction and treatment system. The flowmeter that measures the discharge from the trench has frequently malfunctioned due to fouling. During FY 1998 a regular cleaning schedule has been implemented and the meter is periodically being checked for accuracy.

Groundwater Monitoring

Water levels are collected semi-annually from the monitoring wells and bundle piezometers in the vicinity of the groundwater collection and treatment system. Groundwater samples were collected and analyzed for the parameters in Table IV.E-1. FY 1997 monitoring was performed in accordance with the Monitoring Plan included as Appendix B. The comprehensive monitoring well sampling was conducted in June 1997. Figure IV.E-1 and Figure IV.E-2 present the sampling and water level monitoring locations. Figure IV.E-1 also shows the cross-section alignment.

2. Remedy Component #2: Sentinel Wells

Description: "Installation of sentinel wells at the bottom of Unit 1 and top of Unit 3." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When the wells have been installed according to a regulator approved work plan.

Is the remedy component being implemented?

No. The OU2 ROD was signed in December 1997 (FY 1998) thus, the remedy for Site K was not implemented in FY 1997.

3. Remedy Component #3: Hydraulic Containment

Description: "Use of existing interceptor/recovery trench to contain plume and remove impacted groundwater." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When the trench is operating as designed and capturing all groundwater exceeding the clean up levels presented in Table 1 of the OU2 ROD, as described below.

Is the remedy component being implemented?

Yes. The groundwater collection system continues to provide capture (as described later) of the Unit 1 groundwater, upgradient of the trench and beneath Building 103, as designed.

Is the system providing hydraulic capture of the plume?

Yes. Water level data are presented in Table IV.E-2. Figures IV.E-3 and IV.E-4 present plan views of the groundwater contours from the two rounds of groundwater level measurement. At nested wells, the lowest water elevation was used to create the plan view contours. 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 operation.

Vertical capture was also effective as illustrated on Figures IV.E-5 and IV.E-6. As seen in the figures, groundwater both upgradient and downgradient of the trench is captured and collected. The upward gradient beneath the trench indicates that groundwater does not migrate below the trench. The monitoring coverage provided by the bundle piezometers demonstrates complete vertical and horizontal hydraulic capture.

Figure IV.E-7 presents the trichloroethene concentrations from the June 1997 annual sampling event. TRCLE concentrations range from less than 1.00 μg/l to 41,500 μg/l. Comparison of Figure IV.E-7 to the groundwater contour maps indicates that the VOC plume is hydraulically contained by the treatment system. Table IV.E-3 presents the monitoring well sampling data. The plume was originally defined based on data from all of the monitoring wells. The current monitoring well network is used to confirm the plume contours and measure the progress of remediation. Thus, Figure IV.E-7 was drawn with consideration of the extensive historical data.

Three wells (01U128, 01U617, and 01U621) exhibit low concentrations of 1,2-dichloroethene downgradient of the groundwater collection system's capture zone. Two of these wells (01U128 and 01U617) have exhibited reasonably consistent concentrations of 1,2-dichloroethene since

1987, indicating that it migrated prior to the establishment of the capture zone. The third well, 01U621, has only exhibited 1,2-dichloroethene since September 1993. The concentrations at these wells exhibited decreased concentrations in FY 1997.

Trichloroethene was detected downgradient of the trench, at well 01U604, with a concentration of 1.7 μg/l. This well is within the hydraulic capture zone of the trench.

Were there any major operational changes during the year? No.

4. Remedy Component #4: Groundwater Treatment

Description: "Treatment of contaminated groundwater using air stripping." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When the air stripping facility is treating water to the clean up standards.

Is the remedy component being implemented?
Yes. See discussion below.

5. Remedy Component #5: Treated Water Discharge

Description: "Discharge of treated groundwater to Rice Creek." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When the system is operating as designed with treated water discharge to the storm sewer that, in turn, discharges to Rice Creek. The water is required to meet the substantive requirements of Document No. MNU000579 (MPCA). Sampling and analysis are performed to monitor performance (see below).

Is the remedy component being implemented?

Yes. See discussion below.

6. Remedy Component #6: Discharge Monitoring

Description: "Monitoring to track compliance with discharge requirements." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When a monitoring plan is established and is being implemented in accordance with the plan.

Is the remedy component being implemented?

Yes. Influent and effluent analytical results are presented in Table IV.E-4. The discharge met all the treatment requirements. Table IV.E-5 presents the VOC mass removal and monthly flow rates. A total of 3,586,075 gallons of water and 8.9 pounds of VOCs were removed from the aquifer in FY 1997.

7. Remedy Component #7: Additional Investigation

Description: "Additional characterization of the unsaturated Unit 1 soil." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When the additional investigation has been completed according to a regulator approved work plan.

Is the remedy component being implemented?

No. The OU2 ROD was signed in FY 1998. Thus, this component was not completed in FY 1997. A work plan for completing this component is being prepared.

8. Overall Remedy for Site K

Overall, the remedy for Site K continued to operate consistent with past years and in compliance with the required performance criteria.

Is additional monitoring proposed prior to the next report?

Yes. Appendix I presents the FY 1998 - 2002 Monitoring Plan. Table IV.E-6 presents the Site K monitoring requirements. The plan has been changed to one annual groundwater monitoring round based on the stability observed over the last several years. The monitoring plan is subject to review based on the results of the additional investigation and final design of the remedial action.

F. DEEP GROUNDWATER

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 operation of the TCAAP Groundwater Recovery System (TGRS). The TGRS was designed to capture the deep groundwater VOC plume at the TCAAP boundary.

In accordance with Section 3.7.2 of Attachment 2 of the TCAAP Federal Facilities Agreement (FFA) and subsequent modifications, this section of the report presents the monitoring results from the ninth year of operation of the TGRS, which began full scale operation on January 31, 1989. This report documents all performance and monitoring data collected from October 1996 through September 1997.

The selected remedy for the Deep Groundwater in the OU2 ROD consists of five remedial components that include continued use of the TGRS, with modifications to improve VOC

contaminant removal from the source area. It also includes an annual review of new and emerging technologies potentially applicable to the Deep Groundwater.

Given the transitional nature of this annual report, the following discussion is organized according to the requirements of both the FFA and the OU2 ROD. The OU2 ROD requirements do not apply to the FY 1997 operations but are used here to establish a format for performance reporting as the OU2 remedy is implemented.

1. Remedy Component #1: Hydraulic Containment and Contaminant Removal From the Source Area

Description: "Groundwater extraction to hydraulically contain the contaminated source area to the 5 µg/L trichloroethene (TCE) concentration contour and optimize the removal of contaminants from the source area through pumping of select wells." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When the TGRS is containing the contaminated source area to the 5 µg/l trichloroethene contour. (with the added requirement in FY 1997, from the 1986 ROD, that containment occur at the site boundary) and the system is operated to maximize the contaminant removal from the source area.

Is the remedy component being implemented?

Partially. The TGRS was operated in FY 1997 consistent with the requirements of the 1986 ROD and the FFA. Table IV.F-1 presents the groundwater capture and treatment requirements for the TGRS from the 1986 ROD. As such, it met the requirement for capture at the TCAAP boundary. The TGRS was not, however, optimized with respect to contaminant removal from the source area. A work plan addressing this requirement is being prepared.

How is the system operated and what preventative maintenance measures were conducted during the year?

Summary of Operations

Through FY 1997, groundwater was extracted from 11 wells along the southwest boundary of TCAAP (B1 through B11) and four wells downgradient of interior source areas on TCAAP (SC1 through SC3 and 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 on Figure IV.F-1.

The TGRS is designed and constructed with three options for treated water discharge: recharge at the Arsenal Sand and Gravel Pit, discharge to Rice Creek and discharge to the TCAAP elevated water tank. Water stored in the elevated tank is "polished" with granular activated carbon (GAC) prior to distribution at TCAAP. Currently, the Arsenal Sand and Gravel Pit option is utilized for the majority of treated water. The TCAAP, through its distribution system, uses approximately 50,000 to 100,000 gallons per work day, depending on the time of year.

System Operation 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:

- The groundwater extraction system, including the treatment center and 17 TGRS extraction wells, was designed to provide a theoretical hydraulic capacity of 2,900 gpm and a sustained daily average capacity of 2,730 gpm (by agreement with the regulators, B12 and SC4 were shut down in November 1996).

- The influent to the treatment plant is divided between Towers 1 and 2, each receiving up to a maximum of 1,450 gpm.

- Wet Well Pumps 1 and 2 (WWP#1 and WWP#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.

- Wet Well Pumps 3 and 4 (WWP#3 and WWP#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 standard cubic feet per minute (scfm) each. The blowers for Towers 3 and 4 provide 9,000 - 14,000 scfm each.

Water level sensors within the wet wells communicate with the programmed logic controller (PLC) according to changing water levels. A complete and balanced operation should provide continuing water levels above the low level sensors and below the high-level sensors. 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(s) or wet well pumps according to high water levels occurring in the wet wells; and in turn, cycle-off the wet well pumps according to low levels occurring within these wet wells.

The system operates such that the wet well pumps cycle rather than the extraction well pumps. The rationale behind this is that there are a relatively small number of motors, starters and electrically controlled valves associated with the wet wells when compared with the extraction well field. This also provides for more continuous and complete hydraulic capture within the aquifer units. The extraction well field will cycle if necessary, however, starting with the least contaminated extraction well, B7, and followed by the other extraction wells in a predetermined sequence.

In summary, the priority of operation is as follows:

- Maintain constant operation of all extraction wells and air stripping towers;
- Maintain the desired flow rates at individual wells;
- Maintain treatment center WWP#1 and WWP#2 pumping rate equal to or slightly above the combined pumping rate of the extraction well field;
- Maintain treatment center WWP#3 and WWP#4 pumping rate equal to or slightly above WWP#1 and #2; and
- Provide water to the TCAAP water supply system.

FY 1997 Maintenance and Inspection Activity

Preventive Maintenance (PM): The extensive PM program 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 was collected during this year's PM. This information was 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 were interchanged. Flow volume measurements before and after conducting maintenance on the meters were compared to verify the consistency of measurements.

Daily Tracking of Flow Rates: Pumphouse and treatment center meter readings were recorded in the course of the daily inspections. Daily meter readings were entered into the computer and the flow rates were calculated and reviewed by the operations staff. Early detection of changes in

flow rate were critical in early identification of failing equipment. By early detection of flow rate changes, equipment repair was typically scheduled before a failure occurred.

Pumphouse Flow Tests and Motor Amperage Readings: Pumphouse lift systems were tested to determine the flow capacity and motor amperage draw. The test data were compared to the original flow capacity and amperage draw. Decreases in flow capacity or changes in current draw alerted the system operations staff to inspect suspect equipment and schedule repairs before a down time failure occurred.

Did the system operate at a rate sufficient for complete capture?

Yes. The TGRS successfully captured and treated 1,257,116,600 gallons of contaminated water from October 1996 through September 1997. The system pumped at an average of 2,392 gpm, of which the boundary wells contributed 2,111 gpm and the source control wells contributed 281 gpm. The TGRS pumphouses were operational over 97 percent of the time.

The monthly and annual volume of water pumped is presented in Tables IV.F-2 and IV-F-3. Table IV.F-2 presents the pumphouse metered monthly flow volumes of each extraction well and historical flow data. Table IV.F-3 presents the combined pumphouse-metered flow volume (extraction wells) and the flow volumes metered at various stages in the treatment center along with historical data.

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 are totaled to provide a monthly flow volume. A compilation of FY 1997 Monthly Flow Reports is presented in Appendix L.1. During FY 1997, treatment center flow meters #1 and #2 were used to measure total flow volumes used in monthly reports because they are the most accurate and representative of actual flow. Daily variation in readings at individual wells is primarily due to differences in the time of day when meter readings were taken.

How much down time occurred during the year?

The down time for each extraction well, over the last three years, is presented in Table IV.F-4. A summary of average down time for the pumphouses and the treatment center by the category of failure is presented in Table IV.F-5. A description of each down time event, organized chronologically, is presented in Appendix L.2. The same descriptions organized by affected pumphouse and treatment center is presented in Appendix L.3.

Treatment center and extraction well down times resulted primarily from failure and subsequent repair of components in the pumphouses, treatment center and TCAAP electrical system.

Description of Down Time Categories

PUMPHOUSES

Component Failures: Pumphouse component failures accounted for an average of 2.5 days down time. Pumphouse component failures and repairs typically involved replacement of failed fuses, submersible pumps and motors and/or cleaning iron or manganese sludge from the well and piping.

Typical treatment center component failures and repairs that caused pumphouse down time consisted of electric check valve repair and wet well pump repair. Treatment center component failure and repairs accounted for an average of 3.2 days of down time.

TCAAP electrical system failures accounted for an average of 4.3 days down time. Electrical storm damage was the primary cause of down time.

Miscellaneous failures that caused pumphouse down time included forcemain maintenance and adjustment. Miscellaneous failures accounted for an average of 0.3 days of down time.

Preventative maintenance procedures accounted for less than an average of 0.1 days of system down time. Preventative maintenance procedures are described in the project Operation and Maintenance Manual.

Table IV.F-4 states that pumphouses B-1, and B-2 were down for 34.2 and 29.9 days, respectively.

Extraction well B1 required redevelopment to restore lost capacity. Its capacity dropped to approximately 180 gpm in January 1997. The well was shut down and redeveloped over a three week period. B1 was able to produce 215 gpm upon completion of redevelopment.

Extraction well B2 was shut down for 5.8 days for redevelopment to restore lost capacity. The pumphouse was also shut down for 9.0 days for replacement of the flow control valve, submersible pump and cleaning of piping.

TREATMENT CENTER

Treatment center and forcemain components also caused 17.2 days down time of the treatment center components. Failing water level sensors in the wet wells and electric check valve control component failures accounted for the majority of down time. In response to these failures, all water level sensors were replaced and control components cleaned or replaced. Cartridge type water filters will be installed on the control component piping to reduce particulate induced failures in FY 1998.

Were there any major operational changes during the year?

Yes. Extraction wells B12 and SC4 were shut down on November 11, 1996 in response to reductions in plume size and concentration. These wells were shut down after reaching an agreement with the MPCA and the USEPA based on the results published in the FY 1995 AMR.

Did the system achieve hydraulic capture?

Yes. The zone of hydraulic capture for the TGRS in FY 1997 was determined by contouring the December 1996 and May 1997 water level data. Contours were constructed manually. Past site experience and discussions with the 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. The 1989 report included pumping test analysis, drawdown analysis and vertical gradient analysis. The reader should consult the 1989 report for a complete analysis of hydraulic capture.

Appendix F.1 contains the water level database for the monitoring wells. Figures IV.F-2, IV.F-4, and IV.F-6 present the groundwater contours for Upper Unit 3, Lower Unit 3 and Unit 4, respectively for December 1996. Figures IV.F-3, IV.F-5, and IV.F-7 present the groundwater contours for May 1997. These figures are also presented full size as Plan Sheets 12 through 17. These plan sheets and figures present the potentiometric contours from three vertical portions of the aquifer. The capture zone is smaller by approximately 400 to 500 feet, compared to the past years, due to the shut down of B12. In the past, SC4 pumped at a relatively low rate and its shut down had no significant effect on capture.

Inspection of these figures indicates a broad area of very low horizontal gradients immediately southwest of the TGRS, which is indicative of a stagnation zone downgradient of the TGRS. In the southern portion of the TGRS there are insufficient wells to accurately contour Unit 4 capture in this part of the Site. The flat gradients do indicate there is capture of bedrock groundwater by Unit 3 extraction wells. Contaminants are not currently in Unit 4 in this area; therefore, Unit 4 is not of concern for remediation in this area of the Site and further definition of Unit 4 capture is not needed.

Plan Sheet 18, Plan Sheet 19, and Plan Sheet 20 present the trichloroethene contours for Upper Unit 3, Lower Unit 3, and Unit 4 aquifers, respectively, based on the June 1997 sampling data. These plans are also included here on Figure IV.F-8, Figure IV.F-9 and Figure IV.F-10, respectively. The Figures also present the FY 1996 plumes for comparison.

Along the TCAAP boundary, the width of the source area above 5 μg/l trichloroethene has been shrinking since approximately 1993. Currently, there are no Unit 3 wells north of B7 above 5 μg/l trichloroethene. In Unit 4, only wells 04U714 and 04U713 are above 5 μg/l and these are both less than 6 μg/l. These declining VOC concentrations show that the TGRS has successfully reduced the source area contaminant concentration in this portion of the site. As discussed earlier, extraction well B12 was shut down in November 1996 in response to the observed reduction in the extent of source area contamination.

As shown above, the zone of capture created by the TGRS extends beyond the 5 μg/l trichloroethene contour along the entire southwest TCAAP boundary, in both Unit 3 and Unit 4.

How much VOC mass was removed by the system and how is it changing with time?

As discussed above, the TGRS extracted and treated 1,257,116,600 gallons of water from October 1996 through September 1997. Based on the monthly influent and effluent VOC concentrations and the monthly flow totals measured with meters #1 and #2, the TGRS removed a total of 6,210 pounds of VOCs from October 1996 through September 1997. The VOC mass is 42 percent lower than the FY 1996 VOC mass removal of 10,665 pounds. This VOC mass removal rate for the TGRS has been declining since FY 1992. This reflects the overall decrease in plume concentration. Table IV.F-6 summarizes the individual VOC mass contribution of each extraction well and the entire system.

The total mass removed is based on the monthly TGRS influent and effluent sampling and flow through the treatment system. The monthly sampling of the treatment system provides the best

estimate of overall mass removal rather than the individual extraction well sampling due to the larger number of samples and consistency in the month-to-month analytical results. The percent contributions for each well are based on the average flows from each well and the semi-annual 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 VOC concentrations at the wells and monthly VOC concentrations in the influent and effluent.

VOC samples were collected semi-annually from the 17 extraction wells that comprise the TGRS. Wells B12 and SC4 were temporarily turned on for sampling. Table IV.F-7 presents a summary of these sampling results. Variations in detection limits from round to round are the result of varying sample dilution's performed by the laboratory. Dilutions are required due to the high concentrations of some analytes. The location of the extraction wells is presented on Figure IV.F-1.

Appendix K.1 presents trichloroethene versus time graphs for each extraction well. Wells B1, B2, B6, B7, B8, B9, B10, B11, B12, SC2, SC3 and SC5 exhibit declining trichloroethene concentrations over time. As is typical, these wells exhibit asymptotic decreases over time. Wells B3 and B4 exhibited rising trichloroethene concentrations with time which now appear to be leveling off or declining. Well B5 was increasing through 1992 and has been decreasing since then. Overall, the graphs indicate a long-term decrease in VOC concentrations. Extraction well B7 was below the contaminant-specific requirement for trichloroethene (5 μg/l), and all other VOCs, throughout FY 1997. B12 has been below the criteria since FY 1992 and was shut down in November 1996. SC4 VOC concentrations were rising but were low (less than 30 μg/l) and this well was shut down in November 1996.

These trends reflect the overall decline in source area contaminant concentrations. In addition, as discussed below, there has been a reduction in overall TGRS influent concentrations over the previous several years.

As Table IV.F-6 illustrates, wells B1, B4, B5, B6, B9 and SC5, which are located in the centers of the source area, achieve the largest rates of VOC removal. These six wells together accounted for 96 percent of the VOC mass removed. Well B5, located in the center of the north plume, removed 29.6 percent of the total VOC mass. Wells B7, B10 and B11, which pump on the south and north edges of the plume, removed only about 8.1 pounds (0.13 percent) of the total VOC mass.

The source control wells, SC1 through SC3 and SC5, together accounted for 37 percent of the VOC mass removed while accounting for only 12 percent of the water pumped by the system. SC5, in particular, removed 34.8 percent of the total VOC mass at a rate of only approximately 100 gpm. This illustrates the efficiency of extraction from near the source areas.

Extraction well SC4 was removing significantly less VOC mass than the other extraction wells. Consequently, it was shut down in November 1996, as discussed earlier.

2. Remedy Component # 2: Groundwater Treatment

Description: "Groundwater treatment using air stripping." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):
When the air stripping treatment facility is treating water and meeting the clean up requirements in Table 1 of the OU2 ROD.

Is the remedy component being implemented?
Yes. The air stripping treatment facility has been operating since 1986.

Did the treatment system meet the treatment requirements in the 1986 ROD?

Yes. Influent and effluent water were sampled on a monthly basis during FY 1997. Table IV.F-8 presents a summary of the influent and effluent data. TGRS influent is labeled TGRSI and effluent is labeled TGRSE. The complete influent/effluent database for FY 1997 is contained in Appendix K.2. Figure IV.F-11 presents a graph of influent trichloroethene versus time. This graph is cumulative and includes data from before 1989, when the system consisted of only six extraction wells. Influent concentrations were declining in FY 1997.

The average FY 1997 influent trichloroethene concentration was 570 μg/l, down from 715 μg/l in FY 1996. Since the full-scale start-up of the TGRS, influent concentrations have not exhibited a clear trend until approximately 1993, when a decrease appeared to be occurring. The decline corresponds to the decrease in VOC mass removal and shrinkage of the plume discussed earlier.

Figure IV.F-11 also includes a summary of the effluent trichloroethene concentration versus time. As indicated, effluent has remained below 5 μg/l trichloroethene for all sampling events in FY 1997. A review of the FY 1997 database indicates that the effluent has also remained below the Contaminant Specific Requirements for all other VOC compounds specified in the 1986 ROD. Comparison of influent and effluent trichloroethene concentrations indicates an average removal efficiency over 99.9 percent.

Annual Effluent TAL/TCL Scan

Appendix K.2 includes the results of the annual effluent Target Analyte List/Target Compound List (TAL/TCL) scan conducted in June 1996. Semi-volatile compounds were not detected. Pesticides were not detected. PCBs were not detected. These compounds are not expected to be present in the TGRS effluent. The TAL/TCL 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.

No metals were identified in the TAL scan above the contaminant specific requirements in the 1986 ROD.

Metals

In addition to the TAL scan, samples for metals analyses were collected monthly from the system effluent. Metals, specifically lead and cadmium, have been sporadically detected above contaminant specific requirements in the effluent and in a few monitoring wells.

The 1997 effluent metals analyses did not exhibit any metals exceeding the contaminant specific requirements in the 1986 ROD. Table IV.F-9 presents the effluent metals and cyanide summary. In particular, lead was detected once and cadmium was not detected in the TGRS effluent during FY 1997.

What was the mass of VOCs emitted into the air?

The air stripping towers remove VOCs with an efficiency of over 99.9 percent. Thus, the air emissions are essentially equal to the VOC mass removal rates presented in Table IV.F-6. Air emissions therefore averaged 17 pounds/day based on the VOC mass removal rates. The total VOC emissions from October 1996 through September 1997 were 6,210 pounds.

3. Remedy Component #3: Treated Water Discharge

Description: "Discharge of treated water to the on-site gravel pit." (OU2 ROD, page 3)

Performance Standard (how do you know when you're done):

When the gravel pit is accommodating the discharge from the treatment system and allowing it to recharge to the aquifer.

Is the remedy component being implemented?

Yes. The water elevation in the Arsenal Sand and Gravel Pit was relatively unchanged in FY 1997. Based on visual observation during FY 1997, there were no noticeable changes in Gravel Pit performance. The Gravel Pit is accommodating the TGRS discharge as designed.

4. Remedy Component #4: Institutional Controls

Description: "Institutional controls to restrict access to contaminated aquifers and prevent exposure to contaminated groundwater." (OU2 ROD, page 4)

Performance Standard (how do you know when you're done):

When a special well construction area and alternate water supplies have been established and private wells in impacted areas have been sealed.

Is the remedy component being implemented?

Yes, although, the institutional controls have not been formally adopted for OU2. There are no private users of groundwater on TCAAP and the TCAAP potable water supply is treated by the TGRS prior to distribution. TCAAP is a government reservation, is fenced, and access is restricted to authorized personnel. TCAAP will remain under Army control into the foreseeable future.

5. Remedy Component #5: Review of New Technologies

Description: "Reviews of new and emerging technologies that have the potential to cost-effectively accelerate the timeframe for aquifer restoration. Reviews shall be performed by the Army and reported annually in accordance with the consistency provisions of the TCAAP FFA." (OU2 ROD, page 4)

Performance Standard (how do you know when you're done):

When the Army presents its annual review of emerging technologies in the annual monitoring report.

Is the remedy component being implemented?

No. The OU2 ROD was signed in FY 1998. This component will be addressed for the first time in the FY 1998 Performance Report.

6. Remedy Component #6: Groundwater Monitoring

Description: "Groundwater monitoring to track remedy performance." (OU2 ROD, page 4)

Performance Standard (how do you know when you're done):

When a regulator approved monitoring plan is in place and monitoring is conducted according to the plan.

Is the remedy component being implemented?

Yes. Monitoring in FY 1997 was consistent with the 1986 ROD and the FFA. Appendix B summarizes the FY 1997 monitoring plan and any deviations. Future monitoring will be consistent with the OU2 ROD. Monitoring was as follows:

Groundwater

Groundwater samples and groundwater levels were collected in December 1996 and June 1997 in accordance with the FY 1997 monitoring plan. Samples were analyzed for VOCs.

Treatment System

The TGRS treatment system was sampled monthly during FY 1997 in accordance with the FY 1997 monitoring plan. TGRS influent and effluent were sampled monthly and analyzed for VOCs. The TGRS effluent was also sampled monthly and analyzed for metals. In June 1997,

the effluent was analyzed for Target Analyte List/Target Compound List (TAL/TCL) compounds.

7. Overall Remedy for Deep Groundwater

Did the TGRS meet the requirements of the 1986 ROD? Yes.

- Hydraulic capture in Unit 3 extends beyond the 5μg/l trichloroethene contour at the TCAAP boundary. This meets the VOC capture criterion in the 1986 ROD.

- Hydraulic capture in Unit 4 extends beyond the 5 μg/l trichloroethene contour at the TCAAP boundary. This meets the VOC capture criterion in the 1986 ROD.

- The TGRS extracted and treated 1,257,116,600 gallons of water and removed 6,210 pounds of VOCs from October 1996 to September 1997.

- The source area contamination continued to decrease in size and concentration. This demonstrates that the TGRS is effectively removing VOC contamination from the aquifer as it also effectively contains the contamination.

- All effluent metals sampling results were below the contaminant-specific requirements.

- Effluent VOC concentrations were below contaminant-specific requirements for all sampling events.

- The effluent priority pollutant scan indicated no parameters above the contaminant-specific requirements.

Is additional monitoring proposed prior to the next report?

Yes. Table IV.F-10 presents the monitoring requirements for Deep Groundwater. For FY 1999 through FY 2002, bi-annual monitoring well sampling and water level measurements will be conducted. The reduction in groundwater monitoring frequency is based on the stability observed over the last nine years. The TGRS extraction wells will be monitored semi-annually and the TGRS treatment system influent and effluent will continue to be monitored monthly to permit detailed system tracking. Appendix I presents the proposed FY 1998 to FY 2002 monitoring plan.

V. Operable Unit 3 (OU3): Performance Evaluation

The PGRS (Plume Groundwater Recovery System) of Operable Unit 3 (OU3) is an off-post groundwater extraction and treatment system, and municipal potable water supply. The PGRS consists of New Brighton Municipal Well #13 (NBM#13) and a GAC treatment plant. The water is used by New Brighton for Municipal supply. The PGRS is designed to contain the south plume of VOC contamination emanating from TCAAP and to prevent further downgradient migration. Recovered groundwater is treated and used by the City of New Brighton to fulfill its municipal water supply demand. Figure V-1 presents a site plan for OU3.

The PGRS began operations on May 3, 1994. This section of the report presents the monitoring results from the FY 1997 operation of the PGRS and documents treatment and groundwater capture performance.

The ROD for OU3 was signed in September 1992 and presents the selected remedy. The selected remedy for OU3 consists of four remedial components that comprise the PGRS.

1. Remedy Component #1: Groundwater Extraction

Description: "Extraction of groundwater at the leading edge of the South Plume." (OU3 ROD, page 2)

Performance Standard (how do you know when you're done):
When the PGRS is operating at the designed flow rates.

Is the remedy component being implemented?

Yes. The PGRS has been in full scale operation since May 1994.

Is the PGRS containing the south plume?

Yes. The zone of hydraulic capture for the PGRS in FY 1997 was determined by manually contouring the May 1997 and September 1997 water level data. Appendix M.1 contains the water level database for the monitoring wells. Figures V-2 and V-3 present the groundwater contours for the Prairie du Chien aquifer (the aquifer of concern) for December 1996 and May 1997. Inspection of these figures indicates a broad area of very low horizontal gradients immediately southwest of the PGRS. This area is indicative of a stagnation zone downgradient of the PGRS.

Based on monitoring well data, contaminants are not found in the Unit 3 or Jordan Sandstone aquifer in this area, which lie above and below the Prairie du Chien, respectively (see Appendix A for a description of the aquifer units). Therefore, the Unit 3 and Jordan Sandstone aquifer are not of concern for remediation in this area of the Site and further definition of Unit 3 and Jordan Sandstone capture is not needed.

Vertical Gradients

Table V-1 presents a summary of the vertical gradients for nested wells shown on Figure V-1, since March 30, 1994.

FY 1997 data is comparable to the historic data which indicate an upward gradient between the Unit 3 and the Prairie du Chien immediately southwest of TCAAP. South of well nest 859, vertical gradients reverse to a downward trend. This downward gradient is also indicated in the Unit 3 VOC plume which extends to 03L859. The vertical gradient and analytical data suggests that the VOC plume is moving from the Unit 3 into the Prairie du Chien under this downward vertical gradient.

Table V-1 shows that there is a downward vertical gradient between the Prairie du Chien and the Jordan Sandstone. However, this downward vertical gradient has been reduced since pumping began. Using the average background gradient compared to the average gradient for FY 1997, this downward vertical gradient has been decreased by 34 percent and 79 percent at well nests 864 and 866, respectively. Nearer to extraction well NBM #13 (completed in the Prairie du Chien) larger drawdowns within the Prairie du Chien are likely sufficient to create an upward vertical gradient between the Jordan and Prairie du Chien.

Chemical Performance

South VOC Plume

A total of 27 monitoring wells were sampled in June 1997 for the annual monitoring event. Sixteen of these wells are completed in the Prairie du Chien Formation. Nine wells are completed in the Unit 3, Hillside Sand Formation and two wells are in the Jordan Sandstone Formation. The treatment system was monitored monthly and the influent data essentially represents groundwater from NBM#13, which was completed in the Prairie du Chien formation.

A total of eight monitoring wells were sampled in December 1996 for the semiannual monitoring event. These wells were also sampled during the annual event and include five Prairie du Chien, one Hillside Sand and two Jordan Sandstone wells.

Prairie du Chien

The trichloroethene concentrations from the wells sampled in the Prairie du Chien ranged from non-detect to 125 μg/l. Ten of these wells exhibited concentrations above the MCL for drinking water, which is 5 μg/l. A distribution of the trichloroethene concentration above 5 μg/l is provided in Figure V-4. As shown, the trichloroethene plume extends approximately 1-1/2 miles

southwest of TCAAP to extraction well NBM #13. Monitoring wells beyond NBM#13 to the south are non-detect for trichloroethene.

Unit 3

The trichloroethene concentrations from the wells sampled in Unit 3 ranged from non-detect to 510 µg/l (at well 03M848). Three of the nine wells sampled exhibited concentrations above the MCLs. A distribution of the trichloroethene concentration above 5 µg/l is provided in Figure V-5. As shown, the trichloroethene plume in the Unit 3 extends only approximately 1/2 mile from TCAAP, and does not extend into the area of NBM#13. The Unit 3 plume has remained stable for the last several years.

Jordan Sandstone

VOCs were not detected in the two Jordan Sandstone monitoring wells sampled (04J864 and 04J866).

2. Remedy Component #2: Groundwater Treatment

Description: "Treatment of extracted groundwater for the removal of volatile organic compounds (VOCs) by a pressurized granular activated carbon (GAC) system." (OU3 ROD, page 2)

Performance Standard (how do you know when you're done):

When the effluent from the treatment system meets the standards in the OU3 ROD.

Is the remedy component being implemented?

Yes. The GAC treatment system has been in operation since 1994. The City of New Brighton operates the system as part of their municipal water system.

Is treatment meeting the requirements of the OU3 ROD?

Yes. Influent and effluent water was sampled on a monthly basis during FY 1997 and the results are provided in Table V-2. PGRS influent is labeled NB13I and effluent is labeled NB13E. Table V-3 presents a historical summary of the influent/effluent results and Figure V-6 shows the influent trichloroethene concentration versus time. The average FY 1997 influent trichloroethene concentration was 4.2 μg/l. Figure V-6 indicates that influent concentrations continue to decrease. The influent to the treatment system ranged from 1.08 μg/l to 7.69 μg/l trichloroethene in FY 1997. The average FY 1996 influent trichloroethene concentration was 8.0 μg/L.

Figure V-6 also presents a summary of the effluent trichloroethene concentration versus time. As indicated, effluent has remained below detection limits for all sampling events in FY 1997. A review of the 1997 database indicates that the effluent has remained below the contaminant-specific requirements for all other VOC compounds.

Arsenic

In addition to the VOC parameter list, a sample for arsenic analysis was collected quarterly from the system influent. Arsenic was not detected above the quantitation limit of 2.35 μg/L, as shown on Table V-4.

How much VOC mass did the system remove?

The PGRS extracted and treated 509,769,000 gallons of water from October 1996 through September 1997 (Appendix J.2) for an average of 970 gpm. A total of 8 days of down time occurred during August 1997. The down time was the result of maintenance related to shock chlorination, some mechanical work and regeneration of the iron/manganese filter.

Based on the average monthly VOC concentrations from the NBM#13 influent for FY 1997, the PGRS removed approximately 17 pounds of VOCs from October 1996 through September 1997. A summary of the PGRS monthly pumping volumes and VOC mass removal is shown in Table

V-5. The total VOC mass removed from the PGRS from startup through FY 1997 is 124 pounds. The purpose of the PGRS is to contain the leading edge of the south plume, where VOC concentrations are low. Therefore, the VOC mass removal is generally low.

3. Remedy Component #3: Use of Water for Municipal Supply.

Description: "Discharge of treated ground water to the potable supply of the City of New Brighton." (OU3 ROD, page 2)

Performance Standard (how do you know when you're done):

When the City of New Brighton is able to accept the entire discharge from the PGRS, and is doing so on a full time basis.

Is the remedy component being implemented?

Yes. The City of New Brighton established a municipal water supply interconnection with the City of Fridley in 1994. This has allowed them to accept the discharge from the PGRS on a full time basis since its start up in May 1994. The City of New Brighton operates the well and treatment system.

4. Remedy Component #4: Groundwater Monitoring.

Description: "Monitoring of the ground water to verify the effectiveness of the remedy." (OU3 ROD, page 2)

Performance Standard (how do you know when you're done):

When a monitoring program is established and monitoring is in compliance with the regulator approved Annual Monitoring Plan.

Is the remedy component being implemented?

Yes. Appendix B summarizes the FY 1997 monitoring plan and any deviations. Monitoring was as follows:

Groundwater

Groundwater samples and water level measurements for the annual event were collected in June 1997, from 27 monitoring wells. Groundwater samples for the semiannual event were collected in December 1996 from eight monitoring wells. All samples were analyzed for VOCs using the Army Environmental Center (USAEC) Method N83. Monitoring wells used for water levels and sampling for the PGRS are shown on Figure V-1. Appendix M.1 presents the water level database.

Treatment System

Samples were collected from the treatment facility effluent and influent on a monthly basis throughout FY 1997. Samples collected in August 1997 were not analyzed because they exceeded the allowable temperature when the laboratory received them. This occurred due to the shipping delays that were caused during the UPS strike. All influent and effluent samples were analyzed for VOCs using USAEC Method N83. Influent samples were analyzed for arsenic using USAEC Method AX8 in December 1996 and March, June and September 1997. The extraction well flow measurements are provided in Appendix M.2.

5. Overall Remedy for OU3

Is the Remedy for OU3 Operating in Compliance with the OU3 ROD?

The PGRS continued to operate as designed during FY 1997. It is effectively containing the leading edge of the South Plume of contamination from TCAAP.

FY 1997 total VOC concentrations at NBM#13 exhibited a steady decrease throughout the year. The highest concentration was 7.69 μg/l in November 1996, and the lowest concentration was 1.08 μg/l in September 1997.

Is additional monitoring proposed prior to the next report?

Yes. Table V-6 presents the monitoring requirements for OU3. For FY 1999 through FY 2002, bi-annual monitoring well sampling and water level measurements will be conducted. This change is based on stability observed over the last several years. Treatment system influent and effluent will continue to be monitored monthly. Appendix I presents the FY 1999 - FY 2003 monitoring plan.

VI. Other Installation Restoration Activities During FY 1997

Appendix N briefly summarizes the status of other activities at TCAAP which are related to the Installation Restoration Program, but are not required in the RODs for OU1 through OU3. They are not part of the performance evaluation or the performance monitoring programs.

VII. References

Argonne National Laboratory, 1988. "Installation Restoration Program, Quality Assurance Project Plan for the Remedial Investigation/Feasibility Study at the Twin Cities Army Ammunition Plant." Final Report, June 1988.

"Federal Facility Agreement." August 12, 1997.

Fuller, D.B., 1994. Personal Communication from David Fuller, Federal Cartridge Company to William P. Johnsen, Wenck Associates, Inc., December 13, 1994.

Montgomery Watson, 1995. "Operable Unit 1 Alternate Water Supply Plan." Final Report, October 1995.

Montgomery Watson, 1997. "Operable Unit 2 Feasibility Study." Final Report, March 1997.

"Record of Decision, Groundwater Remediation Operable Unit 3 at New Brighton/Arden Hills Superfund Site." September 1992.

"Record of Decision, Groundwater Remediation Operable Unit 1 at New Brighton/Arden Hills Superfund Site." September 1993.

Stone and Webster. "Site A Investigation Report." February 3, 1998.

"Twin Cities Army Ammunition Plant, New Brighton/Arden Hills Superfund Site, Operable Unit 2, Record of Decision." October 1997.

Wenck Associates, Inc. and Conestoga-Rovers and Associates. "Fiscal Year 1996 Annual Monitoring Report." September 1997.

TABLES

Table I-1

Status of Remedial Actions: FY 1997

Table I-1

Status of Remedial Actions: FY 1997
Twin Cities Army Ammunition Plant

Remedy Component	Is the component being implemented?	Is the component doing what it is suppose to?	Comments
Operable Unit 1: Deep Groundwater			
#1: Alternate Water Supply/Well Abandonment	Yes	Yes	--
#2: Drilling Advisories	Yes	Yes	Component completed
#3: Groundwater Containment	Yes	Partially	NBM#15 not in service yet
#4: Removal of VOCs by GAC (Discharge Quality)	Yes	Yes	--
#5: Discharge of Treated Water	Yes	Yes	--
#6: Groundwater Monitoring	Yes	Yes	--
Overall Remedy	Yes	Yes	--
Operable Unit 2: Shallow Soil Sites			
#1-7: Soil Remediation	Partially	Partially	Only Site A
#8: Groundwater Monitoring	No	No	Starts after #1-7 are completed
#9: Characterization of Dumps	No	No	--

Table I-1 (continued)

Status of Remedial Actions: FY 1997
Twin Cities Army Ammunition Plant

Remedy Component	Is the component being implemented?	Is the component doing what it is suppose to?	Comments
Operable Unit 2: Deep Soil Sites			
#1: Groundwater Monitoring	Yes	Yes	--
#2: Restrict Site Access	Yes	Yes	--
#3: SVE Systems	Yes	Partially	Deep SVE not installed yet
#4: Enhancements to SVE Systems	No	No	Starts after deep vents are completed
#5: Maintain Existing Site Caps	Yes	Yes	--
#6: Maintain Surface Drainage Controls	Yes	Yes	--
#7: Characterize Shallow Soils and Dump	No	No	Starts after #3 is completed
Overall Remedy	Yes	Yes	

Table I-1 (continued)

Status of Remedial Actions: FY 1997
Twin Cities Army Ammunition Plant

Remedy Component	Is the component being implemented?	Is the component doing what it is suppose to?	Comments
Operable Unit 2: Site A Shallow Groundwater			
#1: Groundwater Monitoring	Yes	Yes	
#2: Groundwater Containment/Mass Removal	Yes	Yes	
#3: Drilling Advisory/Alternate Water Supply/Well Abandonment	Yes	Yes	
#4: Discharge of Extracted Water	Yes	Yes	
#5: Source Characterization/Remediation	Yes	Yes	
Overall Remedy	Yes	Yes	
Operable Unit 2: Site I Shallow Groundwater			
#1: Groundwater Monitoring	Partially	Partially	FY 1997 monitoring did not address OU2 ROD requirements
#2: Groundwater Extraction	No	No	See above
#3: POTW Discharge	No	No	See above
#4: Additional Investigation	No	No	See above
Overall Remedy	No	No	OU2 ROD not applicable in FY 1997, work plan in progress.

Table I-1 (continued)

Status of Remedial Actions: FY 1997
Twin Cities Army Ammunition Plant

Remedy Component	Is the component being implemented?	Is the component doing what it is suppose to?	Comments
Operable Unit 2: Site K Shallow Groundwater			
#1: Groundwater Monitoring	Yes	Yes	
#2: Sentinel Wells	No	No	OU2 ROD not applicable in FY 1997, work plan in progress
#3: Hydraulic Containment	Yes	Yes	
#4: Groundwater Treatment	Yes	Yes	
#5: Treated Water Discharge	Yes	Yes	
#6: Discharge Monitoring	Yes	Yes	
#7: Additional Investigation	No	No	OU2 ROD not applicable in FY 1997, work plan in progress
Overall Remedy	Yes	Yes	

Table I-1 (continued)

Status of Remedial Actions: FY 1997
Twin Cities Army Ammunition Plant

Remedy Component	Is the component being implemented?	Is the component doing what it is suppose to?	Comments
Operable Unit 2: Deep Groundwater			
#1: Hydraulic Containment and Contaminant Mass Removal	Partially	Partially	TGRS operated in accordance with 1986 ROD in FY 1997
#2: Groundwater Treatment	Yes	Yes	
#3: Treated Water Discharge	Yes	Yes	
#4: Institutional Controls	Yes	Yes	
#5: Review of New Technologies	No	No	Addressed for the first time in FY 1998
#6: Groundwater Monitoring	Yes	Yes	
Overall Remedy	Yes	Yes	Based on 1986 ROD requirements
Operable Unit 3: Deep Groundwater			
#1: Groundwater Extraction	Yes	Yes	
#2: Groundwater Treatment	Yes	Yes	
#3: Use of Water for Municipal Supply	Yes	Yes	
#4: Groundwater Monitoring	Yes	Yes	
Overall Remedy	Yes	Yes	

Table III.C-1

OU1 Pumping/VOC Mass Removal Data

31-Dec-97

Report #2
City of New Brighton
VOCS REMOVED FROM AQUIFER BY PGAC AND PGRS WELLS
(Amount of VOCS in pounds)

		PGAC Wells					PGRS Well		
MTH/YR	ITEMS	WELL #3	WELL #4	WELL #5	WELL #6	WELL#14	WELL#15	WELL #13	TOTAL PGAC WELLS	TOTAL ALL GAC WELLS
GAC Replaced in contactors 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A between January 7 - January 21, 1997. "B" Vessels become the Lead Vessels.										
January, 1997	Pumpage (Thousands of gals.)	8,545	21,115	57	159	38,290		47,881	68,166	116,047
	VOC Level (ppb)	105	135	218	132	306		5		
	Total VOCs (lbs)	7	24	0	0	98		2	129	131
February, 1997	Pumpage (Thousands of gals.)	17,686	11,314	18	24	37,965		39,728	67,007	106,735
	VOC Level (ppb)	112	110	192	107	279		4		
	Total VOCs (lbs)	17	10	0	0	88		1	115	117
March, 1997	Pumpage (Thousands of gals.)	23,632	19,242	0	0	42,227		44,142	85,101	129,243
	VOC Level (ppb)	97	98	182	104	252		3		
	Total VOCs (lbs)	19	16	0	0	89		1	124	125
April, 1997	Pumpage (Thousands of gals.)	22,289	22,723	0	3,593	46,937		41,732	95,542	137,274
	VOC Level (ppb)	51	151	197 *	110	284		3		
	Total VOCs (lbs)	9	29	0	3	111		1	153	154
May, 1997	Pumpage (Thousands of gals.)	17,141	28,668	0	2,223	51,339		44,111	99,371	143,482
	VOC Level (ppb)	52	150	197 *	115	285		3		
	Total VOCs (lbs)	7	36	0	2	122		1	168	169
June, 1997	Pumpage (Thousands of gals.)	14,279	26,306	1,254	11,932	49,001		49,533	102,772	152,305
	VOC Level (ppb)	98	120	250	150	300		3		
	Total VOCs (lbs)	12	26	3	15	123		1	178	179
July, 1997	Pumpage (Thousands of gals.)	4,465	20,440	4	141	50,475		50,006	75,525	125,531
	VOC Level (ppb)	62	95	222	132	268		4		
	Total VOCs (lbs)	2	16	0	0	113		2	132	133
August, 1997	Pumpage (Thousands of gals.)	23,090	28,454	2,416	282	51,010		31,157	105,252	136,409
	VOC Level (ppb)	44	122	247	197	240		3		
	Total VOCs (lbs)	8	29	5	0	102		1	145	146
September, 1997	Pumpage (Thousands of gals.)	20,671	28,876	462	10	49,537		41,736	99,556	141,292
	VOC Level (ppb)	47	146	202	137	214		2		
	Total VOCs (lbs)	8	35	1	0	88		1	133	133
October , 1997	Pumpage (Thousands of gals.)	20,859	28,986	893	316	51,216		44,166	102,270	146,436
	VOC Level (ppb)	75	82	262	171	298		3		
	Total VOCs (lbs)	13	20	2	0	127		1	163	164
November, 1997	Pumpage (Thousands of gals.)	20,012	6,857	2,906	8	44,709		47,718	74,492	122,210
	VOC Level (ppb)	34	101	197	102	216		2		
	Total VOCs (lbs)	6	6	5	0	81		1	97	98
December, 1997	Pumpage (Thousands of gals.)									
	VOC Level (ppb)									
	Total VOCs (lbs)									
TOTALS FOR 1997	Pumpage (Thousands of gals.)	192,669	242,981	8,010	18,688	512,706		481,910	975,054	1,456,964
	Total VOCs (lbs)	109	247	15	22	1,142		13	1,536	1,548

* VOC Levels were not sampled due to routine maintenance of Well #5 during April and May. The levels for April and May are an average of the January - March levels.

Table III.C-2

OU1 Vertical Hydraulic Gradients

Table III.C-2

OU1 Vertical Hydraulic Gradients

	Mid-Screen (or hole) Elevation (ft)	Groundwater Elevation (ft) 12/3/96	Groundwater Elevation (ft) 5/29/97
03U811	803	842.5	842.1
03L811	689	841.8	841.2
Difference	114	0.7	0.9
Vertical Gradient		.006	.008
03U822	786	No Data	No Data
03L822	761	833.9	830.6
Difference	25	-	-
Vertical Gradient		-	-
04U834	570	811.0	809.0
04J834	496	807.8	804.7
Difference	74	3.2	4.3
Vertical Gradient		.043	.058
03L841	760	840.3	840.4
04U841	682	841.2	841.1
Difference	78	-0.9	-0.7
Vertical Gradient		-.012	-.009
03L846	760	829.5	828.4
04U846	674	828.5	827.6
Difference	86	1.0	0.8
Vertical Gradient		.012	.009
04U882	600	810.2	808.0
04J882	455	772.8	769.3
Difference	145	37.4	38.7
Vertical Gradient		.258	.267
409546 (PCA2L3)	737	830.6	829.7
409548 (PCA2U4)	660	829.5	828.6
Difference	77	1.1	1.1
Vertical Gradient		.014	.014

Note: Negative sign denotes upward vertical gradient.

Table III.D-1

PGAC Effluent Water Quality

31-Dec-97

Note: These results are from sampling ports after the lead GAC vessel and before the lag vessel. Notes below indicate GAC replacement.

Report #8
City of New Brighton
PGAC, Water Treatment Plant #1
TOTAL VOLATILE ORGANIC COMPOUND TEST RESULTS (ppb)

		QUARTERLY INFLUENT WELL MONITORING						MONTHLY OPERATIONAL PERFORMANCE MONITORING (Lead Contactor Sampling)							
SAMPLE DATE	COMPOUND (ppb)	Well #3	Well #4	Well #5	Well #6	Well #14	Well #15	Cont. #1	Cont. #2	Cont. #3	Cont. #4	Cont. #5	Cont. #6	Cont. #7	Cont. #8
01/19/93	Total VOC's	442	307	218	186			0	0	0	2	0	0	0	0
02/10/93	Total VOC's	429	355	177	196			0	0	7	4	2	3	4	0
03/18/93	Total VOC's	410	298	177	182			4	0	13	9	4	6	27	7
		GAC Replaced in contactors 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A between March 22 - March 31, 1993. "B" Vessels become the Lead Vessels.													
03/19/93	Total VOC's	424	277	156	0			0	0	0	0	0	0	0	0
05/19/93	Total VOC's	432	265	237	159			0	0	0	0	0	0	0	0
06/08/93	Total VOC's	301	340	191	159			0	0	0	0	0	0	0	0
07/28/93	Total VOC's	248	270	206	147			0	0	0	0	0	0	0	0
08/26/93	Total VOC's	377	328	215	158			0	0	0	0	0	0	0	0
09/23/93	Total VOC's	323	234	140	155			0	0	0	0	0	0	0	0
10/12/93	Total VOC's	297	290	181	139			0	0	0	0	0	0	0	0
11/22/93	Total VOC's	410	313	215	169			0	0	0	0	0	0	0	0
		GAC Replaced in contactors 1B, 2B, 3B, 4B, 5B, 6B, 7B, 8B between December 1, 1993 - January 10, 1994. "A" Vessels become the Lead Vessels.													
12/28/93	Total VOC's	414	293	389	0			0	0	0	0	0	0	0	0
01/13/94								0	0	0	0	0	0	0	0
01/24/94	Total VOC's	459	292	269	182			0	0	0	0	0	0	0	0
02/23/94	Total VOC's	383	322	204	213			0	0	0	0	0	0	0	0
03/28/94	Total VOC's	478	382	168	150			0	0	0	0	0	0	0	0
04/30/94	Total VOC's	397	336	135	166			0	0	0	0	0	0	0	0
05/31/94	Total VOC's	404	386	168	135			0	0	0	0	0	0	0	0
06/30/94	Total VOC's	412	312	169	149			0	0	0	0	0	0	0	0
07/28/94	Total VOC's	270	269	156	134			0	0	0	0	0	0	0	0
08/29/94	Total VOC's	385	288	177	132			0	0	0	0	0	0	0	0
09/30/94	Total VOC's	209	214	158	121			0	0	0	0	0	1	0	0
10/31/94	Total VOC's	203	226	156	126			0	0	0	0	0	0	0	0
		GAC Replaced in contactors 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A between October 26 - December 6, 1994. "B" Vessels become the Lead Vessels.													
11/29/94	Total VOC's	203	226	156	126			0	0	0	0	0	0	0	0
12/07/94	Total VOC's	197	239	154	132			0	0	0	0	0	0	0	0
01/31/95	Total VOC's	212	240	135	113			0	0	0	0	0	0	0	0
02/28/95	Total VOC's	209	240	132	109			0	0	0	0	0	0	0	0
03/31/95	Total VOC's	241	240	170	123			0	0	0	0	0	0	0	0
04/30/95	Total VOC's	258	280	145	108			0	0	0	0	0	0	0	0
05/31/95	Total VOC's	230	232	133	107			0	0	0	0	0	0	0	0
06/30/95	Total VOC's	216	237	136	127			0	0	0	0	0	0	0	0
07/31/95	Total VOC's	225	188	135	105			0	0	0	0	0	0	0	0
08/31/95	Total VOC's	215	159	148	110			0	0	0	0	0	0	0	0
09/30/95	Total VOC's	225	188	135	105			0	0	0	0	0	0	0	0
10/31/95	Total VOC's	174	184	182	181			0	0	0	0	0	0	0	0
11/30/95	Total VOC's	154	177	176	106			2.5	3.7	0	0	0	0	0	0
		GAC Replaced in contactors 1B, 2B, 3B, 4B, 5A, 5B, 6B, 7B, 8B between December 5 - December 20, 1995. "A" Vessels become the Lead Vessels.													
12/31/95	Total VOC's	206	212	158	126			0	0	0	0	0	0	0	0
01/11/96	Total VOC's	201	200	173	135			0	0	0	0	0	0	0	0
02/28/96	Total VOC's	189	203	191	177			0	0	0	0	0	0	0	0
03/31/96	Total VOC's	177	179	198	177			0	0	0	0	0	0	0	0
04/30/96	Total VOC's	174	173	159	125			0	0	0	0	0	0	0	0
05/31/96	Total VOC's	162	218	144	134			0	0	0	0	0	0	0	0
06/30/96	Total VOC's	135	254	147	133			0	0	0	0	0	0	0	0
07/31/96	Total VOC's	125	205	143	121			0	0	0	0	0	0	0	0
08/31/96	Total VOC's	117	234	181	125			0	0	0	0	0	0	0	0
09/30/96	Total VOC's	104	221	173	123			0	0	0	0	0	0	0	0
10/31/96	Total VOC's	113	158	153	108			0	0	0	0	0	0	0	0
11/30/96	Total VOC's	95	200	130	109			0	1.4	1.1	1	2.3	1.1	0	0
12/31/96	Total VOC's	103	193	155	100	279		1.3	3	1.8	4.2	4.8	1.9	1.6	1.2
		GAC Replaced in contactors 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A between January 7, 1997 - January 21, 1997. "B" Vessels become the Lead Vessels.													
01/31/97	Total VOC's	105	135	218	132	306		0	0	0	0	0	0	0	0
02/28/97	Total VOC's	112	110	192	107	279		0	0	0	0	0	0	0	0
03/31/97	Total VOC's	97	98	182	104	252		0	0	0	0	0	0	0	0
04/30/97	Total VOC's	51	151	197	110	284		0	0	0	0	0	0	0	0
05/31/97	Total VOC's	52	150	197	115	285		0	0	0	0	0	0	0	0
06/30/97	Total VOC's	98	120	250	150	300		0	0	0	0	0	0	0	0
07/31/97	Total VOC's	62	95	222	132	268		0	0	0	0	0	0	0	0
08/31/97	Total VOC's	44	122	247	197	240		0	0	0	3.1	0	1.1	2.9	0
09/30/97	Total VOC's	47	146	202	137	214		1.8	1.9	2.6	6.2	0	3	4.9	1.7
10/31/97	Total VOC's	75	82	262	171	298		4.9	6	7.7	9.8	3.3	7.8	11	5.1
		GAC Replaced in contactors 1B, 2B, 3B, 4B, 5B, 6B, 7B, 8B between November 5, 1997 - November 21, 1997. "A" Vessels become the Lead Vessels.													
11/30/97	Total VOC's	34	101	197	102	216		0	0	0	0	0	0	0	0
12/31/97	Total VOC's														

Table III.F-1

Summary of OU1 Monitoring Requirements

Table III.F-1

Summary of OU1 Monitoring Requirements

Remedy Component	Monitoring Requirements	Responsible Party	Documents Containing the Monitoring Plan
#1: Alternate Water Supply/Well Abandonment	a. Water quality data for the perimeter of the plume to define the area of concern	Army	OU1 Groundwater Monitoring Plan (in the Annual Report)
	b. Water quality data for water supply wells to determine eligibility for alternate supply/abandonment	Army	Well Inventory Report
#2: Drilling Advisories	• None		
#3: Groundwater Containment	a. Pumping volume and rates for each extraction well for comparison to design flowrates for containment	New Brighton	New Brighton Water System Sampling and Analysis Plan
	b. Water levels from monitoring wells to draw contour maps showing the influences of pumping	Army	OU1 Groundwater Monitoring Plan (in the Annual Report)
#4: Removal of VOCs	a. Effluent water quality to demonstrate compliance with the Safe Drinking Water Act	New Brighton	New Brighton Water System Sampling and Analysis Plan
#5: Discharge of Treated Water	• None		
#6: Groundwater Monitoring	• Outlined above and below		
Overall Remedy (Attainment of cleanup goals)	a. Water quality data throughout the North Plume to evaluate attainment	Army	OU1 Groundwater Monitoring Plan (in the Annual Report)

Table III.F-2

Summary of Changes in the OU1 Groundwater Monitoring Plan

Table III.F-2

Summary of Changes in the OU1 Groundwater Monitoring Plan

Well	Change From FY 1998	Reason
03U815	Deleted WL	Not used for evaluation of OU1 remedy.
03U821	Deleted WL	Not used for evaluation of OU1 remedy.
03U824	Added biennial WL and WQ	Monitor cleanup progress near the axis of the plume.
03L832	Moved to OU3 section of Plan and deleted WQ	The well is within the geographic area of the OU3 plume; however, the data is not needed as it is redundant to 03L854.
03U832	Deleted WL and WQ. Moved to OU3 to be consistent with 03L832 and 04U832	Provides redundant data to 03U831.
409596	Deleted WL	Not used for evaluation of OU1 remedy.
04U850	Added WQ	Immediately upgradient of the OU1 containment system to assess what is coming to the system.
233221 (Reuben Meats)	Added biennial WQ sampling	To better define the 1 μg/l contour along the west edge of the plume.
St. Anthony Municipal Wells #3-5	Deleted WL	Data is not used for contouring.
All wells with either WL or WQ monitoring, except 04U855 as noted below.	Changed frequency from a mix of quarterly, semi-annual, and annual to a uniform frequency of annual for FY 1999 and then every other year after that.	Given the following: 1. The remediation will last >30 years, and 2. Past data has shown that changes are gradual; then more frequent monitoring is not justified.
04U855	Kept annual frequency for WL and WQ	Defines the west edge of the plume for water supply protection purposes. Revisit the frequency in 2 years.

Table IV.B-1

Deep Groundwater Data Near Sites D and G: FY 1997

Table IV.B-1

Deep Groundwater Data Near Sites D and G: FY1997

			Tetrachloroethene (ug/l)	Trichloroethene (ug/l)	1,1-Dichloroethene (ug/l)	Cis-1,2-Dichloroethene (ug/l)	1,1-Dichloroethane (ug/l)	1,1,1-Trichloroethane (ug/l)	1,2-Dichloroethane (ug/l)
OU2 Cleanup Level(1)			5	5	7	70	70	200	5
Site D	03U096	12-Jun-97	<0.75	17.60	<1.70	<0.76*	0.87	8.60	<1.10
	03U093	10-Dec-96	<0.75	680.00	14.60	10.20*	32.60	26.90	<1.10
	03U018	12-Jun-97	<0.75	198.00	3.26	2.80*	2.70	28.00	<1.10
Site G	03U094	12-Jun-97	<0.75	440.00	13.50	3.01*	4.04	200.00	<1.10
	03U014	10-Jun-97	<0.75	1.87	<1.70	<0.76*	<0.73	0.97	<1.10

Notes:

(1) Cleanup levels for Deep Groundwater from Table 1 of the OU2 ROD. Shading indicates exceedance of the cleanup level.

* Data is total 1,2-Dichloroethene; not just the cis-isomer.

Table IV.B-2

Sites D and G SVE System Flow Rates and Mass Removal: FY 1997

Table IV.B-2

Sites D and G
SVE System Flow Rates and Mass Removal
FY 1997

Site D- Laboratory Analysis and Mass Removal Calculations									
				1,1,1-Trichloroethane		1,1,2-Trichloroethlyene		Total VOCs	
Date	Days of Operation in Monitoring Period	Flow Rate (ft^3/min)	Liters of Air Sampled(L)	Mass in Sample (µg)	Weight Removed During Monitoring Period (lbs)	Mass in Sample (µg)	Weight Removed During Monitoring Period (lbs)	Weight Removed During Monitoring Period (lbs)	Cumulative VOCs Removed (lbs)
09/30/96	19	6700	8.08	11.0	10.06	74.0	67.71	77.77	114,915
11/07/96	28	6300	9.84	14.0	14.58	90.0	93.70	108.27	115,023
12/03/96	18	6000	9.78	14.0	8.98	88.0	56.44	65.41	115,088
01/07/97	25	6100	9.40	14.0	13.19	83.0	78.20	91.39	115,180
02/06/97	22	6100	8.58	12.0	10.90	73.0	66.31	77.21	115,257
03/05/97	19	6100	8.06	5.8	4.84	32.0	26.72	31.57	115,288
04/02/97	12	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)
05/08/97	14	6400	7.92	11.0	13.42	64.0	78.09	91.51	115,380
06/06/97	21	6500	7.82	8.2	8.31	49.0	49.67	57.98	115,438
07/01/97	17	6270	9.80	14.0	8.84	78.0	49.27	58.11	115,496
08/05/97	25	6460	9.66	10.0	9.71	63.0	61.17	70.88	115,567
09/03/97	21	6460	9.66	11.0	8.97	65.0	53.01	61.98	115,629
10/07/97	24	6570	10.04	7.4	6.75	48.0	43.78	50.53	115,679

Site G- Laboratory Analysis and Mass Removal Calculations											
				1,1,1-Trichloroethane		1,1,2-Trichloroethlyene		cis-1,2-Dichloroethylene		Total VOCs	
Date	Days of Operation in Monitoring Period	Flow Rate (ft^3/min)	Liters of Air Sampled (L)	Mass in Sample (µg)	Weight Removed During Monitoring Period (lbs)	Mass in Sample (µg)	Weight Removed During Monitoring Period (lbs)	Mass in Sample (µg)	Weight Removed During Monitoring Period (lbs)	Weight Removed During Monitoring Period (lbs)	Cumulative VOCs Removed (lbs)
09/30/96	19	8300	8.08	<4.4	0.00	12	13.60	5.7	6.46	20.06	104,270
11/07/96	28	7300	9.84	<4.4	0.00	14	16.89	5.4	6.51	23.40	104,293
12/03/96	18	7000	9.78	<4.4	0.00	8.6	6.43	<3.2	0.00	6.43	104,300
01/07/97	25	6900	9.40	<4.4	0.00	6.8	7.25	<3.2	0.00	7.25	104,307
02/06/97	22	7100	8.58	<4.4	0.00	5.4	5.71	<3.2	0.00	5.71	104,313
03/05/97	19	7000	8.06	<4.4	0.00	5	4.79	<3.2	0.00	4.79	104,317
04/02/97	0	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)	No Sample (1)
05/08/97	14	3800	7.92	<4.4	0.00	5.6	2.18	<3.2	0.00	2.18	104,320
06/06/97	21	7100	7.82	<4.4	0.00	5.6	6.20	<3.2	0.00	6.20	104,326
07/01/97	17	6930	9.80	<4.4	0.00	7.6	5.31	<3.2	0.00	5.31	104,331
08/05/97	25	7340	9.66	<4.4	0.00	8.7	9.60	<3.2	0.00	9.60	104,341
09/03/97	21	7630	9.66	<4.4	0.00	12	11.56	4.2	4.05	15.61	104,356
10/07/97	24	7630	10.04	<4.4	0.00	7.7	8.16	<3.2	0.00	8.16	104,364

NOTES:

(1) Site G was shut down for predesign investigations from March 6 to April 18, 1997. Site D was shut down for predesign modifications from March 22 to April 18, 1997. Monthly samples were not collected in April.

Source: Conestoga-Rovers and Associates

Table IV.C-1

Summary of Site A Shallow Groundwater Monitoring Requirements

Table IV.C-1

Summary of Site A Shallow Groundwater Monitoring Requirements

Remedy Component	Monitoring Requirements	Responsible Party	Documents Containing the Monitoring Plan
#1: Groundwater Monitoring	• Outlined below		
#2: Containment and Mass Removal	a. Pumping volumes and rates for each extraction well for comparison to design flowrates for containment	Army	Site A Monitoring Plan in the Annual Report
	b. Water levels from monitoring wells to draw contour maps showing the influences of pumping	Army	Site A Monitoring Plan in the Annual Report
	c. Water quality data for each extraction well to determine VOC mass removal	Army	Site A Monitoring Plan in the Annual Report
#3: Drilling Advisory/Alternate Water Supply/Well Abandonment	• See OU1, Remedy Component #1 which also includes the area north of Site A		
#4: Discharge of Extracted Water	a. Water quality data for total system effluent to demonstrate compliance with the Industrial Discharge Permit	Army	Site A Monitoring Plan in the Annual Report
#5: Source Characterization/ Remediation	• None		
Overall Remedy (Attainment of cleanup goals)	a. Water quality data throughout the Site A plume to evaluate attainment	Army	Site A Monitoring Plan in the Annual Report

Table IV.C-2

Site A Removal Action Pumping/ VOC Recovery Data

TABLE IV.C-2
Site A Removal Action Pumping/VOC Recovery Data

Measurement Date	Recovery Well 01U351					Recovery Well 01U352					Recovery Well 01U353					Recovery Well 01U354				
	Average Flowrate (GPM)	Meter Reading	Gallons Pumped	VOCs (1) Detected (ug/l)	VOCs Recovered (lbs)	Average Flowrate (GPM)	Meter Reading	Gallons Pumped	VOCs (1) Detected (ug/l)	VOCs Recovered (lbs)	Average Flowrate (GPM)	Meter Reading	Gallons Pumped	VOCs (1) Detected (ug/l)	VOCs Recovered (lbs)	Average Flowrate (GPM)	Meter Reading	Gallons Pumped	VOCs (1) Detected (ug/l)	VOCs Recovered (lbs)
01-Oct-96	0.0	1,365,570	0	0	0.000	0.0	28,350	0	0	0.000	0.0	1,597,430	0	0.00	0.000	0.0	1,471,760	0	0.00	0.000
31-Oct-96	4.4	1,557,680	192,110	14.38	0.023	3.4	176,390	148,040	69.98	0.086	4.2	1,779,380	181,950	184.38	0.278	4.2	1,651,930	180,170	13.12	0.020
30-Nov-96	4.4	1,747,190	189,510	14.38	0.023	2.5	285,820	109,430	69.98	0.064	4.1	1,954,980	175,600	184.38	0.269	3.7	1,813,200	161,270	13.12	0.018
31-Dec-96	4.8	1,961,170	213,980	14.38	0.026	3.1	425,720	139,900	69.98	0.081	4.5	2,156,670	201,690	184.38	0.309	4.0	1,990,250	177,050	13.12	0.019
31-Jan-97	4.6	2,164,430	203,260	10.35	0.017	2.9	555,110	129,390	38.08	0.041	4.5	2,357,040	200,370	111.24	0.185	3.2	2,133,740	143,490	10.74	0.013
28-Feb-97	3.8	2,317,570	153,140	10.35	0.013	2.1	639,990	84,880	38.08	0.027	3.8	2,509,780	152,740	111.24	0.141	3.7	2,282,260	148,520	10.74	0.013
31-Mar-97	4.2	2,505,950	188,380	10.35	0.016	3.1	780,240	140,250	38.08	0.044	4.4	2,706,750	196,970	111.24	0.182	3.5	2,438,770	156,510	10.74	0.014
30-Apr-97	4.4	2,695,410	189,460	10.19	0.016	3.9	946,600	166,360	35.80	0.049	4.9	2,920,450	213,700	100.92	0.179	3.7	2,599,020	160,250	10.19	0.014
31-May-97	4.2	2,884,590	189,180	10.19	0.016	3.3	1,094,740	148,140	35.80	0.044	4.9	3,138,680	218,230	100.92	0.183	4.2	2,786,720	187,700	10.19	0.016
30-Jun-97	4.0	3,059,260	174,670	10.19	0.015	2.1	1,184,620	89,880	35.80	0.027	4.4	3,327,020	188,340	100.92	0.158	4.2	2,967,950	181,230	10.19	0.015
31-Jul-97	5.1	3,285,620	226,360	10.79	0.020	1.5	1,249,950	65,330	52.01	0.028	5.2	3,560,400	233,380	104.62	0.203	4.8	3,182,850	214,900	10.07	0.018
31-Aug-97	4.1	3,469,660	184,040	10.79	0.016	2.6	114,810	114,810	52.01	0.050	4.4	136,060	194,590	104.62	0.169	3.2	3,325,690	142,840	10.07	0.012
30-Sep-97	4.4	3,657,590	187,930	10.79	0.017	2.1	205,740	90,930	52.01	0.039	4.1	314,880	178,820	104.62	0.155	3.1	3,461,080	135,390	10.07	0.011
					0.218					0.580					2.410					0.182
TOTAL	4.4		2,292,020			2.7		1,427,340			4.5		2,336,380			3.8		1,989,320		

Measurement Date	Recovery Well 01U355					Recovery Well 01U356					Recovery Well 01U357					Recovery Well 01U358					Total RA System		
	Average Flowrate (GPM)	Meter Reading	Gallons Pumped	VOCs (1) Detected (ug/l)	VOCs Recovered (lbs)	Average Flowrate (GPM)	Meter Reading	Gallons Pumped	VOCs (1) Detected (ug/l)	VOCs Recovered (lbs)	Average Flowrate (GPM)	Meter Reading	Gallons Pumped	VOCs (1) Detected (ug/l)	VOCs Recovered (lbs)	Average Flowrate (GPM)	Meter Reading	Gallons Pumped	VOCs (1) Detected (ug/l)	VOCs Recovered (lbs)	Average Flowrate (GPM)	Gallons Pumped	VOCs Recovered (lbs)
01-Oct-96	0.0	1,359,490	0	0.00	0.000	0.0	603,770	0	0.00	0.000	0.0	471,150	0	0.00	0.000	0.0	1,165,010	0	0.00	0.000	0.0	0	0.000
31-Oct-96	3.7	127,130	161,390	34.22	0.046	3.8	769,060	165,290	36.04	0.049	2.6	585,400	114,250	33.84	0.032	4.3	1,350,770	185,760	23.14	0.036	30.8	1,328,960	0.570
30-Nov-96	3.6	284,020	156,890	34.22	0.045	3.5	918,840	149,780	36.04	0.045	2.8	705,080	119,680	33.84	0.034	3.7	1,509,640	158,870	23.14	0.031	28.3	1,221,030	0.526
31-Dec-96	4.0	460,480	176,460	34.22	0.050	3.9	1,091,070	172,230	36.04	0.052	2.9	834,700	129,620	33.84	0.036	3.5	1,666,850	157,210	23.14	0.030	30.6	1,368,140	0.603
31-Jan-97	3.6	621,990	161,510	22.34	0.030	3.7	1,256,340	165,270	23.64	0.032	3.2	975,830	141,130	21.74	0.025	3.4	1,817,360	150,510	18.03	0.023	29.0	1,294,930	0.367
28-Feb-97	3.5	764,720	142,730	22.34	0.026	3.4	1,395,160	138,820	23.64	0.027	2.4	1,073,190	97,360	21.74	0.018	3.3	1,949,780	132,420	18.03	0.020	26.1	1,050,610	0.285
31-Mar-97	4.2	950,890	186,170	22.34	0.035	3.9	1,569,910	174,750	23.64	0.034	2.1	1,169,070	95,880	21.74	0.017	3.9	2,124,290	174,510	18.03	0.026	29.4	1,313,420	0.369
30-Apr-97	4.9	1,164,220	213,330	19.54	0.035	4.3	1,756,960	187,050	19.24	0.030	2.1	1,258,730	89,660	18.71	0.014	4.6	2,322,590	198,300	14.30	0.024	32.8	1,418,110	0.360
31-May-97	4.6	1,369,670	205,450	19.54	0.033	4.1	1,941,370	184,410	19.24	0.029	2.0	1,347,820	89,090	18.71	0.014	4.4	2,519,610	197,020	14.30	0.023	31.8	1,419,220	0.359
30-Jun-97	4.1	1,545,190	175,520	19.54	0.028	3.7	2,099,730	158,360	19.24	0.025	1.2	1,399,860	52,040	18.71	0.008	3.9	2,689,510	169,900	14.30	0.020	27.5	1,189,940	0.297
31-Jul-97	5.2	1,776,960	231,770	19.44	0.037	4.7	2,310,760	211,030	18.44	0.032	4.6	1,548,290	148,430	15.59	0.019	4.9	2,909,810	220,300	13.15	0.024	34.8	1,551,500	0.382
31-Aug-97	5.8	1,905,570	259,118	19.44	0.042	4.0	2,490,670	179,910	18.44	0.028	2.0	1,637,250	88,960	15.59	0.012	4.2	3,096,410	186,600	13.15	0.020	30.3	1,350,868	0.348
30-Sep-97	5.8	2,103,710	250,759	19.44	0.040	3.5	2,642,330	151,660	18.44	0.023	1.8	1,716,500	79,250	15.59	0.010	3.9	3,265,560	169,150	13.15	0.018	28.8	1,243,889	0.315
					0.448					0.407					0.239					0.295			
TOTAL	4.4		2,321,098			3.9		2,038,560			2.5		1,245,350			4.0		2,100,550				15,750,618	4.780

Note:
(1) Uses 1/2 of the detection limit for compounds which were not detected. Starting in FY 1997, VOC analysis is only performed quarterly.

Source: Conestoga-Rovers & Associates

Table IV.C-3

Site A Removal Action Effluent Water Quality - (ug/l)

Notes:

(1) Qtr = Quarter. Under this heading, F = FCC and A = Alliant Techsystems Inc.

(2) These entries are the lot and sample numbers for the corresponding data points.

(3) Duplicate sample collected for QA/QC purposes.

(4) Field blank collected at this location. See Appendices E.1 and E.2 for FY 1997 field blank data.

(5) Unvalidated lab data provided by GES which is not present in IRDMIS.

Flagging Codes
Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.

Data Qualifiers
Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

TABLE IV.C - 3
Site A Removal Action Effluent Water Quality - (ug/l)

Site ID	Sample Date	Qtr (1)		12DCE (ug/l)	C12DCE (ug/l)	T12DCE (ug/l)	TCLEE (ug/l)	TRCLE (ug/l)	HG (ug/l)	TSS (ug/l)	COD (mg/l)
EFFLUENT-A	10-Oct-94	F45		68.00			<1.00	2.52	<0.74		
EFFLUENT-A	10-Oct-94	F45	(2	IVZ 007			IVZ 007	IVZ 007	IJX 015		
EFFLUENT-A	10-Oct-94	F45	(5)						<0.20		
EFFLUENT-A	08-Nov-94	F45		51.20			<1.00	1.68	<0.74		
EFFLUENT-A	08-Nov-94	F45	(2	IZB 012			IZB 012	IZB 012	IJY 016		
EFFLUENT-A	05-Dec-94	F45		61.00			<1.00	1.77	<0.74		
EFFLUENT-A	05-Dec-94	F45	(2	IZD 005			IZD 005	IZD 005	IJZ 016		
EFFLUENT-A	17-Jan-95	F46		46.00			<2.00	0.84	<0.74		
EFFLUENT-A	17-Jan-95	F46	(2	IZI 011			IZI 011	IZI 011	JDA 014		
EFFLUENT-A	01-Feb-95	F46							<0.70		
EFFLUENT-A	01-Feb-95	F46	(2)						DQC 017		
EFFLUENT-A	08-Feb-95	F46			36.80	2.83	<2.41	1.28	<0.20		
EFFLUENT-A	08-Feb-95	F46	(2)		DPN 016	DPN 016	DPN 016	DPN 016	DQD 016		
EFFLUENT-A	03-Mar-95	F46			49.50	3.82	<2.41	2.25	<0.20	2000.00	
EFFLUENT-A	03-Mar-95	F46	(2)		DRJ 013	DRJ 013	DRJ 013	DRJ 013	DRE 017	DRI 003	
EFFLUENT-A	03-Mar-95	F46							<0.70		
EFFLUENT-A	03-Mar-95	F46	(2)						DRD 016		
EFFLUENT-A	03-Apr-95	F47			52.80	4.61	<2.41	1.86	<0.20		
EFFLUENT-A	03-Apr-95	F47	(2)		DSG 012	DSG 012	DSG 012	DSG 012	DSW 016		
EFFLUENT-A	03-Apr-95	F47							<0.70		
EFFLUENT-A	03-Apr-95	F47	(2)						DSV 015		

TABLE IV.C - 3
Site A Removal Action Effluent Water Quality - (ug/l)

Site ID	Sample Date	Qtr (1)		12DCE (ug/l)	C12DCE (ug/l)	T12DCE (ug/l)	TCLEE (ug/l)	TRCLE (ug/l)	HG (ug/l)	TSS (ug/l)	COD (mg/l)
EFFLUENT-A	08-May-95	F47			42.9	3.55	<2.41	1.43	<0.20		
EFFLUENT-A	08-May-95	F47	(2)		DYT 013	DYT 013	DYT 013	DYT 013	DYP 016		
EFFLUENT-A	08-May-95	F47							<0.70		
EFFLUENT-A	08-May-95	F47	(2)						DYO 015		
EFFLUENT-A	01-Jun-95	F47							<0.70	2000.00	
EFFLUENT-A	01-Jun-95	F47	(2)						ECZ 022	EDE 003	
EFFLUENT-A	01-Jun-95	F47							<0.20		
EFFLUENT-A	01-Jun-95	F47	(2)						EDA 021		
EFFLUENT-A	11-Jul-95	F48			31.50	2.15	<2.41	<1.04	<0.70		
EFFLUENT-A	11-Jul-95	F48	(2)		ENH 010	ENH 010	ENH 010	ENH 010	ENA 021		
EFFLUENT-A	11-Jul-95	F48							<0.20		
EFFLUENT-A	11-Jul-95	F48	(2)						ENB 021		
EFFLUENT-A	08-Aug-95	F48			29.40	1.98	<2.41	<1.04	<0.20		
EFFLUENT-A	08-Aug-95	F48	(2)		ESI 010	ESI 010	ESI 010	ESI 010	ESD 032		
EFFLUENT-A	08-Aug-95	F48							L<0.70		
EFFLUENT-A	08-Aug-95	F48	(2)						ESC 032		
EFFLUENT-A	07-Sep-95	F48			24.80	1.44	<2.41	<1.04	<0.20	2000.00	
EFFLUENT-A	07-Sep-95	F48	(2)		EWC 010	EWC 010	EWC 010	EWC 010	EVW 004	EWA 003	
EFFLUENT-A	07-Sep-95	F48							<0.70		
EFFLUENT-A	07-Sep-95	F48	(2)						EVV 016		

TABLE IV.C - 3
Site A Removal Action Effluent Water Quality - (ug/l)

Site ID		Sample Date	Qtr (1)		12DCE (ug/l)	C12DCE (ug/l)	T12DCE (ug/l)	TCLEE (ug/l)	TRCLE (ug/l)	HG (ug/l)	TSS (ug/l)	COD (mg/l)
EFFLUENT-A	(4)	11-Oct-95	F49			32.40	2.76	<2.41	1.94	<0.70		
EFFLUENT-A	(4)	11-Oct-95	F49	(2)		EXM 006	EXM 006	EXM 006	EXM 006	EXI 006		
EFFLUENT-A		28-Nov-95	A50		39.90		2.23	<1.00	1.02	<0.74	116000.00	
EFFLUENT-A		28-Nov-95	A50	(2)	HWI 014		HWI 014	HWI 014	HWI 014	JDP 012	KJC 001	
EFFLUENT-A		28-Nov-95	A50							<0.20	118000.00	
EFFLUENT-A		28-Nov-95	A50	(2)							KJC 002	
EFFLUENT-A		15-Dec-95	A50		34.00			<1.00	1.46	<0.74	<10000.00	<50.00
EFFLUENT-A		15-Dec-95	A50	(2)	HWJ 005			HWJ 005	HWJ 005	JDQ 004	KGY 001	KGZ 001
EFFLUENT-A	(3)	15-Dec-95	A50							<0.20		<50.00
EFFLUENT-A	(3)	15-Dec-95	A50	(2)								KGZ 002
EFFLUENT-A		16-Jan-96	A51		22.20		1.70	<1.00	1.98	<0.74		
EFFLUENT-A		16-Jan-96	A51	(2)	HWM 004		HWM 004	HWM 004	HWM 004	JDS 004		
EFFLUENT-A		16-Jan-96	A51	(5)						<0.20		
EFFLUENT-A		13-Feb-96	A51		24.10			<1.00	2.00	<0.74		
EFFLUENT-A		13-Feb-96	A51	(2)	HWN 011			HWN 011	HWN 011	JDT 005		
EFFLUENT-A		13-Feb-96	A51	(5)						<0.20		
EFFLUENT-A		07-Mar-96	A51		32.90		0.99	<1.00	1.73	<0.74	<10000.00	<50.00
EFFLUENT-A		07-Mar-96	A51	(2)	HWP 004		HWP 004	HWP 004	HWP 004	JDV 004	KGN 001	KIV 001
EFFLUENT-A		07-Mar-96	A51	(5)						<0.20		
EFFLUENT-A	(3)	07-Mar-96	A51									<50.00
EFFLUENT-A	(3)	07-Mar-96	A51	(2)								KIV 002

TABLE IV.C - 3
Site A Removal Action Effluent Water Quality - (ug/l)

Site ID	Sample Date	Qtr (1)		12DCE (ug/l)	C12DCE (ug/l)	T12DCE (ug/l)	TCLEE (ug/l)	TRCLE (ug/l)	HG (ug/l)	TSS (ug/l)	COD (mg/l)
EFFLUENT-A	09-Apr-96	A52		41.50			<1.00	1.64	<0.74		
EFFLUENT-A	09-Apr-96	A52	(2)	HWS 012			HWS 012	HWS 012	JDX 007		
EFFLUENT-A	23-May-96	A52		18.20			<1.00	1.32	<0.74		
EFFLUENT-A	23-May-96	A52	(2)	HWU 004			HWU 004	HWU 004	JDZ 004		
EFFLUENT-A	23-May-96	A52	(5)						<0.20		
EFFLUENT-A	28-Jun-96	A52		49.20			<0.75	1.55	<0.20	<4000.00	<100.00
EFFLUENT-A	28-Jun-96	A52	(2)	AXWR 005		AXWR 005	AXWR 005	AXWR 005	AXWG 003	AXWM 002	AXUQ 002
EFFLUENT-A	28-Jun-96	A52							<0.10		
EFFLUENT-A	28-Jun-96	A52	(2)						AXWF 005		
EFFLUENT-A	15-Jul-96	A53		29.10			<0.75	1.14	<0.20		
EFFLUENT-A	15-Jul-96	A53	(2)	AYAU 005			AYAU 005	AYAU 005	AYDD 003		
EFFLUENT-A	15-Jul-96	A53							<0.10		
EFFLUENT-A	15-Jul-96	A53	(2)						AYDC 005		
EFFLUENT-A	09-Aug-96	A53		28.50			<0.75	<0.56	<0.20		
EFFLUENT-A	09-Aug-96	A53	(2)	AYIK 008			AYIK 008	AYIK 008	AYJA 003		
EFFLUENT-A	09-Aug-96	A53							<0.10		
EFFLUENT-A	09-Aug-96	A53	(2)						AYNH 005		
EFFLUENT-A	03-Sep-96	A53		34.40			<0.75	1.65	<0.20	<4000.00	<10.00
EFFLUENT-A	03-Sep-96	A53	(2)	AYZB 013			AYZB 013	AYZB 013	AYXM 003	AYYY 002	AYZJ 002
EFFLUENT-A	03-Sep-96	A53							<0.10		
EFFLUENT-A	03-Sep-96	A53	(2)						AYXK 011		

TABLE IV.C - 3
Site A Removal Action Effluent Water Quality - (ug/l)

Site ID	Sample Date	Qtr (1)	12DCE (ug/l)	C12DCE (ug/l)	T12DCE (ug/l)	TCLEE (ug/l)	TRCLE (ug/l)	HG (ug/l)	TSS (ug/l)	COD (mg/l)
EFFLUENT-A	01-Oct-96	A54	(V) 43.90			(V) <0.75	(V) 1.62	(V) <0.20		
EFFLUENT-A	01-Oct-96	A54	(2 AZNE 005			AZNE 005	AZNE 005	AZJN 003		
EFFLUENT-A	01-Oct-96	A54						(V) <0.10		
EFFLUENT-A	01-Oct-96	A54	(2)					AZJO 005		
EFFLUENT-A	11-Nov-96	A54	30			<0.75	1.59	<0.10		
EFFLUENT-A	11-Nov-96	A54	(2 BAHM 005			BAHM 005	BAHM 005	BAET 005		
EFFLUENT-A	11-Nov-96	A54						<0.10		
EFFLUENT-A	11-Nov-96	A54	(2)					BAES 003		
EFFLUENT-A	03-Dec-96	A54	33.7			<0.75	1.84	<0.20		
EFFLUENT-A	03-Dec-96	A54	(2 BAQF 005			BAQF 005	BAQF 005	BANR 003		
EFFLUENT-A	03-Dec-96	A54						<0.10		
EFFLUENT-A	03-Dec-96	A54	(2)					BANS 007		
EFFLUENT-A	07-Jan-97	A55	30.1			<0.75	2.82	<0.10		
EFFLUENT-A	07-Jan-97	A55	(2 BBCG 005			BBCG 005	BBCG 005	BBDP 005		
EFFLUENT-A	04-Feb-97	A55						<0.10		
EFFLUENT-A	04-Feb-97	A55	(2)					BBKA 005		
EFFLUENT-A	03-Mar-97	A55	24.4			<0.75	1.93	<0.10		
EFFLUENT-A	03-Mar-97	A55	(2 BBSH 005			BBSH 005	BBSH 005	BBVT 007		
EFFLUENT-A	03-Apr-97	A56	34.1			<0.75	2.07	<0.10		
EFFLUENT-A	03-Apr-97	A56	(2 BCVN 005			BCVN 005	BCVN 005	BCVJ 005		

TABLE IV.C - 3
Site A Removal Action Effluent Water Quality - (ug/l)

Site ID	Sample Date	Qtr (1)	12DCE (ug/l)	C12DCE (ug/l)	T12DCE (ug/l)	TCLEE (ug/l)	TRCLE (ug/l)	HG (ug/l)	TSS (ug/l)	COD (mg/l)
EFFLUENT-A	06-May-97	A56	35.1			<0.75	1.48	V <0.10		
EFFLUENT-A	06-May-97	A56	(2 BDKN 005			BDKN 005	BDKN 005	BDJD 006		
EFFLUENT-A	03-Jun-97	A56	17.2			<0.75	1.1	<0.10	<4000.00	12200.00
EFFLUENT-A	03-Jun-97	A56	(2 BDZT 005			BDZT 005	BDZT 005	BFDM 007	BFHQ 002	BFGS 018
EFFLUENT-A	01-Jul-97	A57	18.3			<0.75	0.802	<0.10		
EFFLUENT-A	01-Jul-97	A57	(2 BFXL 010			BFXL 010	BFXL 010	BFWL 016		
EFFLUENT-A	02-Sep-97	A57	22.9			<0.75	0.716	<0.10		
EFFLUENT-A	02-Sep-97	A57	(2 BGQT 005			BGQT 005	BGQT 005	BGSD 006		

Table IV.C-4

Site A Shallow Groundwater Data: FY 1997

TABLE IV.C-4
Site A Shallow Groundwater Data: FY 1997

		Tetrachloroethene (ug/l)	Trichloroethene (ug/l)	1,1-Dichloroethene (ug/l)	Cis-1,2-Dichloroethene (ug/l)	1,2-Dichloroethane (ug/l)	Chloroform (ug/l)	Benzene (ug/l)	Antimony (ug/l)
Site A Cleanup Level(1)		7.0	30.0	6.0	70.0	4.0	60.0	10.0	6.0
01U039	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U102	11-Dec-96	1.21	<0.56	<1.70	1.18	<1.10	<0.50		
01U102	19-Jun-97	3.19	<0.56	<1.70	3.87	<1.10	<0.50	<1.05	
01U103	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U106	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U108	11-Dec-96	470.00	270.00	<1.70	118.00	<1.10	<0.50		
01U108	18-Jun-97	400.00	143.00	<1.70	38.70	<1.10	<0.50		
01U109	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U110	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U115	11-Dec-96	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U115	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50	<1.05	
01U116	11-Dec-96	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U116	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U117	11-Dec-96	5.93	2.09	<1.70	78.50	<1.10	<0.50		
01U117	05-Mar-97	3.44	1.57	<1.70	21.00	<1.10	1.41		
01U117	18-Jun-97	6.15	0.76	<1.70	10.00	<1.10	<0.50	<1.05	
01U118	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U119	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U120	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U125	11-Dec-96	1.54	<0.56	<1.70	<0.76	<1.10	<0.50		
01U125	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U126	19-Jun-97	20.90	<0.56	<1.70	<0.76	<1.10	<0.50		
01U127	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U135	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U137	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U138	11-Dec-96	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U138	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U139	11-Dec-96	<0.75	<0.56	<1.70	2.04	<1.10	<0.50		
01U139	05-Mar-97	<0.75	<0.56	<1.70	0.84	<1.10	<0.50		
01U139	18-Jun-97	<0.75	<0.56	<1.70	4.30	<1.10	<0.50		
01U140	12-Dec-96	<0.75	<0.56	<1.70	11.80	<1.10	<0.50		
01U140	19-Jun-97	<0.75	<0.56	<1.70	8.39	<1.10	<0.50		
01U141	19-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U157	11-Dec-96	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U157	18-Jun-97	<0.75	<0.56	<1.70	1.61	<1.10	<0.50		
01U158	12-Dec-96	<0.75	<0.56	<1.70	3.23	<1.10	<0.50		
01U158	18-Jun-97	<0.75	<0.56	<1.70	0.82	<1.10	<0.50		

Note:
(1) Cleanup levels for Site A Shallow Groundwater are from Table 1 of the OU2 ROD. Shading indicates exceedance of the cleanup level.

TABLE IV.C-4
Site A Shallow Groundwater Data: FY 1997

		Tetrachloroethene (ug/l)	Trichloroethene (ug/l)	1,1-Dichloroethene (ug/l)	Cis-1,2-Dichloroethene (ug/l)	1,2-Dichloroethane (ug/l)	Chloroform (ug/l)	Benzene (ug/l)	Antimony (ug/l)
Site A Cleanup Level(1)		7.0	30.0	6.0	70.0	4.0	60.0	10.0	6.0
01U351	11-Dec-96	1.87	1.98	<1.70	2.04	<1.10	<0.50		<6.00
01U351	05-Mar-97	<0.75	1.11	<1.70	<0.76	<1.10	<0.50		
01U351	18-Jun-97	<0.75	0.95	<1.70	<0.76	<1.10	<0.50	<1.05	<6.00
01U351	03-Sep-97	<0.75	1.03	<1.70	0.90	<1.10	<0.50		
01U352	11-Dec-96	2.75	7.14	<1.70	51.60	<1.10	<0.50		<6.00
01U352	05-Mar-97	1.74	5.25	<1.70	22.60	<1.10	<0.50		
01U352	18-Jun-97	1.76	8.35	<1.70	17.20	<1.10	<0.50	<1.05	<6.00
01U352	03-Sep-97	2.64	6.08	<1.70	34.80	<1.10	<0.50		
01U353	11-Dec-96	<0.75	3.52	<1.70	172.00	<1.10	<0.50		<6.00
01U353	05-Mar-97	<0.75	2.38	<1.70	100.00	<1.10	<0.50		
01U353	18-Jun-97	<0.75	1.76	<1.70	90.30	<1.10	<0.50	5.82	<6.00
01U353	03-Sep-97	<0.75	1.66	<1.70	94.10	<1.10	<0.50		
01U354	11-Dec-96	<0.75	<0.56	<1.70	3.98	<1.10	<0.50		<6.00
01U354	05-Mar-97	<0.75	<0.56	<1.70	1.60	<1.10	<0.50		
01U354	18-Jun-97	<0.75	<0.56	<1.70	1.05	<1.10	<0.50	<1.05	<6.00
01U354	03-Sep-97	<0.75	<0.56	<1.70	0.93	<1.10	<0.50		
01U355	11-Dec-96	<0.75	0.66	<1.70	24.70	<1.10	<0.50		<6.00
01U355	05-Mar-97	<0.75	<0.56	<1.70	13.20	<1.10	<0.50		
01U355	18-Jun-97	<0.75	<0.56	<1.70	10.40	<1.10	<0.50	<1.05	<6.00
01U355	03-Sep-97	<0.75	<0.56	<1.70	10.30	<1.10	<0.50		
01U356	11-Dec-96	<0.75	<0.56	<1.70	26.90	<1.10	<0.50		<6.00
01U356	05-Mar-97	<0.75	<0.56	<1.70	14.50	<1.10	<0.50		
01U356	18-Jun-97	<0.75	<0.56	<1.70	10.10	<1.10	<0.50	<1.05	<6.00
01U356	03-Sep-97	<0.75	<0.56	<1.70	9.30	<1.10	<0.50		
01U357	11-Dec-96	<0.75	<0.56	<1.70	24.70	<1.10	<0.50		<6.00
01U357	05-Mar-97	<0.75	<0.56	<1.70	12.60	<1.10	<0.50		
01U357	18-Jun-97	<0.75	<0.56	<1.70	9.57	<1.10	<0.50	<1.05	<6.00
01U357	03-Sep-97	<0.75	<0.56	<1.70	6.45	<1.10	<0.50		
01U358	11-Dec-96	<0.75	<0.56	<1.70	14.00	<1.10	<0.50		<6.00
01U358	05-Mar-97	<0.75	<0.56	<1.70	8.89	<1.10	<0.50		
01U358	18-Jun-97	<0.75	<0.56	<1.70	5.16	<1.10	<0.50	<1.05	<6.00
01U358	03-Sep-97	<0.75	<0.56	<1.70	4.01	<1.10	<0.50		
01U901	12-Dec-96	1.43	<0.56	<1.70	1.18	<1.10	<0.50		
01U901	05-Mar-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U901	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50	<1.05	
01U901	03-Sep-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U902	12-Dec-96	<0.75	0.67	<1.70	48.40	<1.10	<0.50		
01U902	05-Mar-97	<0.75	<0.56	<1.70	23.90	<1.10	<0.50		
01U902	18-Jun-97	<0.75	<0.56	<1.70	19.40	<1.10	<0.50	<1.05	
01U902	03-Sep-97	<0.75	<0.56	<1.70	23.20	<1.10	<0.50		
01U903	12-Dec-96	<0.75	<0.56	<1.70	1.29	<1.10	<0.50	<1.05	
01U903	05-Mar-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U903	18-Jun-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50	<1.05	
01U903	03-Sep-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U904	12-Dec-96	1.65	<0.56	<1.70	10.60	<1.10	<0.50	<1.05	
01U904	05-Mar-97	<0.75	<0.56	<1.70	<0.76	<1.10	<0.50		
01U904	18-Jun-97	<0.75	<0.56	<1.70	1.18	<1.10	<0.50	<1.05	
01U904	03-Sep-97	<0.75	<0.56	<1.70	1.40	<1.10	<0.50		

Note:
(1) Cleanup levels for Site A Shallow Groundwater are from Table 1 of the OU2 ROD. Shading indicates exceedance of the cleanup level.

Table IV.D-1

Fiscal Year 1997 Site I Monitoring Data
Building 502, TCAAP

TABLE IV.D-1

FISCAL YEAR 1997 SITE I MONITORING DATA
BUILDING 502, TCAAP
NEW BRIGHTON, MINNESOTA

Well Location	*Sample Date*	*111TCE*	*112TCE*	*11DCE*	*11DCLE*	*C12DCE*	*T12DCE*	*12DCLE*	*12DCLP*	*C2H3CL*	*CCL4*	*CH2CL2*	*CHCL3*	*TCLEE*	*TCLTFE*	*TRCLE*	*Total PCBs* [1]
01U064	6/30/97	< 1	< 1	1.2	3.7	190	16	< 1	< 1	18	< 1	< 1	< 1	< 1	< 1	1.6	
01U636	6/30/97	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
01U639	6/30/97	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
01U640	6/30/97	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	BDL NT
I01MW	6/30/97	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
I02MW	6/30/97	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
I05MW	6/30/97	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	

Notes:
Concentrations in µg/L.
T - Non target compound analyzed for and detected (GC/MS methods).
N - The high spike recovery is low.
BDL - Below detection limit.
[1] Total PCBs include PCB 1016, PCB 1242, PBC 1248, PCB 1254, PCB 1260

Table IV.D-2

Summary of Site I Shallow Groundwater Monitoring Requirements

Table IV.D-2

Summary of Site I Shallow Groundwater Monitoring Requirements

Remedy Component	Monitoring Requirements	Responsible Party	Documents Containing the Monitoring Plan
#1 Groundwater Monitoring	a. Groundwater quality and water levels to track remedy progress	Alliant	Future monitoring plans in Annual Performance Report
#2 Groundwater Extraction	a. Extracted water volumes and rates	Alliant	Future monitoring plans in Annual Performance Report
#3 POTW Discharge	a. Water quality data for system effluent to demonstrate compliance with discharge requirements	Alliant	Future monitoring plans in Annual Performance Report
#4 Additional Investigation	a. As per work plan	Alliant	Future monitoring plans in Annual Performance Report
Overall Remedy	a. Water quality data to evaluate attainment	Alliant	Future monitoring plans in Annual Performance Report

Table IV.E-1

Site K Analyte List
Building 103, TCAAP

TABLE IV.E-1

SITE K ANALYTE LIST
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Monitoring Wells

1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1,2-Trichlorotrifluoroethane
1,1-Dichloroethane
1,1-Dichloroethylene
1,2-Dichloroethane
1,2-Dichloropropane
Carbon Tetrachloride
Chloroform
cis-1,2-Dichloroethylene
Methylene Chloride
Tetrachloroethylene
trans-1,2-Dichloroethylene
Trichloroethylene
Vinyl Chloride

Treatment System

Monthly
Total Phosphorus
Ortho Phosphate

Quarterly
Total Phosphorus
Ortho Phosphate

VOCs
1,1,1-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethylene
1,2-Dichloroethane
Carbon Tetrachloride
Chloroform
cis-1,2-Dichloroethylene
Methylene Chloride
Tetrachloroethylene
trans-1,2-Dichloroethylene
Trichloroethylene
Vinyl Chloride

Metals
Chromium
Copper
Lead
Mercury
Zinc
Silver
Cyanide
Cadmium

Table IV.E-2

Site K Historical Groundwater Elevation Database (FT. AMSL), Building 103, TCAAP

SITE K HISTORICAL GROUNDWATER ELEVATION DATABASE (FT. AMSL)
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Well Location	*TOC Elevation*	*8/25/86*	*9/30/86*	*10/1/86*	*10/2/896*	*10/7/86*	*10/9/86*	*10/13/86*	*10/24/86*	*5/11/87*
01U047	880.31									
01U048	885.32									
01U052	886.51									
01U065	883.90									
01U128	883.69									
01U601	892.68	883.93	884.63	884.58	884.53	884.33	884.23	884.33		882.75
01U602	889.35									
01U603	887.31	879.86	878.65	878.58	878.49	878.16	877.81	878.54		877.36
01U604	888.98	879.23	877.38	877.18	877.06	876.78	876.58	876.68		877.51
01U605	887.76	877.96	878.35	878.35	878.31	878.18	877.94	878.05		887.76
01U607	891.01	883.95	885.80	885.71	885.61	885.24	885.00	885.33		884.31
01U608	889.30									
01U609	889.33									
01U611	889.29									
01U612	886.91	879.34	877.36	877.37	877.31	877.06	877.01	876.89		878.06
01U613	892.07	883.88	884.51	884.46	884.42	884.17	884.07	884.49		882.52
01U615	888.66	879.44	876.96	876.49	876.33	876.12	876.01	876.19		877.86
01U616	890.37	878.98	879.83	879.71	879.60	879.49	879.37	879.35	879.14	878.98
01U617	887.72	879.32	877.56	877.26	877.12	876.96	876.70	876.92		877.50
01U618	891.52	877.95	877.49	877.31	877.19	876.85	876.69	876.65		876.22
01U619	891.75	883.05	882.91	882.75	883.79	883.52	883.36	883.28	883.52	882.70
01U620	888.65	883.17	882.02	881.77	881.63	878.62	878.46	878.51		878.66
01U621	886.57	879.71	878.68	878.44	878.33	878.12	877.90	878.02		877.79
01U622	889.43									
01U623	889.44	883.43	878.38	878.37	878.34	878.17	878.12	878.06		
01U624A	889.88	880.15	878.75	878.46	878.32	878.03	877.89	877.96	877.90	878.41
01U624B	889.88	880.15	878.71	878.43	878.29	878.00	877.88	877.92	877.90	878.41
01U624C	889.91	880.15	878.73	878.45	878.31	878.02	877.89	877.96	877.91	878.41
01U624D	889.89	880.16	878.72	878.45	878.30	878.01	877.89	877.95	877.91	878.42
01U625A	886.92	878.28	877.63	877.20	877.03	877.73	877.58	877.74	877.87	878.98
01U625B	886.91	878.27	877.64	877.21	877.06	876.96	876.84	876.99	877.16	878.21
01U625C	886.91	878.28	877.66	877.20	877.04	876.86	876.84	876.98	877.15	878.25
01U625D	886.92	878.29	877.64	877.20	877.05	876.87	876.85	876.99	877.16	878.22
01U626A	886.87	877.12	881.69	881.73	881.94	876.82	876.57	876.77	876.80	878.04
01U626B	886.88	879.31	877.26	876.78	876.61	882.02	882.02	881.91	876.77	878.05
01U626C	886.88	878.69	877.18	876.70	876.53	876.54	876.40	876.59	876.84	878.07
01U626D	886.88	879.82	877.18	876.96	876.85	876.61	876.46	876.66	876.89	878.08
01U627A	886.46	877.97	878.16	877.96	877.98	877.80	877.51	877.62	877.41	878.03
01U627B	886.47	878.00	877.48	877.08	876.93	876.93	876.76	876.96	877.08	878.03
01U627C	886.47	878.07	877.42	876.99	876.85	876.84	876.67	876.86	877.02	878.05
01U627D	886.48	878.06	877.49	877.04	876.88	876.86	876.70	876.89	877.05	878.05
01U628A	887.82	879.60	878.22	878.10	878.02	877.87	877.47	877.77	877.49	877.42
01U628B	887.83	879.88	878.03	877.84	877.74	877.60	877.26	877.51	877.34	877.51
01U628C	887.82	879.89	877.77	877.47	877.34	877.16	876.92	877.13	877.11	877.52
01U628D	887.84	879.91	877.79	877.48	877.36	877.17	876.92	877.14	877.12	877.61
K01MW	891.24									
K02MW	891.35									
K04MW	887.66									

Notes:
NA - not available
Obstrt. - obstructed

SITE K HISTORICAL GROUNDWATER ELEVATION DATABASE (FT. AMSL)
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Well Location	*TOC Elevation*	*7/23/87*	*8/4/87*	*8/13/87*	*8/24/87*	*9/1/87*	*10/6/87*	*11/3/87*	*1/5/88*	*2/29/88*	*4/5/88*
01U047	880.31										
01U048	885.32										
01U052	886.51										
01U065	883.90										
01U128	883.69										
01U601	892.68		884.53				883.26	883.24	883.13	883.09	883.73
01U602	889.35										
01U603	887.31	879.36	879.13			877.23	876.02	875.87	877.29	875.74	875.64
01U604	888.98	877.11	878.57	877.20		875.83	875.07	875.49	877.38		874.73
01U605	887.76		878.41			877.58	876.43	875.97	875.47	Dry	
01U607	891.01	887.88	885.84			884.56	883.56	883.22	883.53	882.64	885.81
01U608	889.30										
01U609	889.33	882.83	881.38				882.94	882.76	882.55	882.38	882.88
01U611	889.29										
01U612	886.91	877.14	877.90			876.42	Dry	Dry	878.08		876.48
01U613	892.07	885.70	884.49			883.67	883.04	882.75	882.69	881.82	884.42
01U615	888.66	876.15	879.01	875.42		874.81	874.47	874.46	877.71	874.06	874.11
01U616	890.37	880.58	880.69	879.52	878.62	878.30	877.47	877.28	878.89	876.74	876.74
01U617	887.72	876.80	878.83	876.52		875.78	875.18	875.21	877.33	874.52	874.70
01U618	891.52	877.55	878.50			875.72	874.76	874.50	875.98	873.80	874.00
01U619	891.75	884.69	884.10	883.83		883.08	882.13	881.95	881.82	891.75	882.23
01U620	888.65	879.34	880.60			877.39	876.64	876.43	878.51	875.79	875.91
01U621	886.57	878.30	879.78			876.97	876.20	875.99	877.72	875.24	875.50
01U622	889.43										
01U623	889.44	877.54	877.78				876.34	876.39	877.94	876.06	875.79
01U624A	889.88	879.17	880.10	877.81		879.78	Dry	Dry	878.25	889.88	889.88
01U624B	889.88	878.91	880.08	877.78	877.00	876.73	876.08	875.92	878.25	875.35	875.38
01U624C	889.91	878.89	880.09	877.78	877.02	876.76	876.11	875.93	878.28	875.37	875.41
01U624D	889.89	878.88	880.09	877.79	877.04	876.75	876.10	875.94	878.25	875.36	875.39
01U625A	886.92	878.00	880.36	877.08	876.61	876.43	875.95	875.91	878.78	875.39	875.45
01U625B	886.91	877.19	879.71	876.24	875.84	875.63	875.21	875.13	878.08	874.62	874.68
01U625C	886.91	877.21	879.71	876.23	875.83	875.62	875.20	875.13	878.07	874.62	874.67
01U625D	886.92	877.18	879.69	876.25	875.82	875.66	875.24	875.14	878.07	874.62	874.68
01U626A	886.87	876.92	879.21	876.31	875.63	875.41	874.78	874.84	877.81	874.17	874.25
01U626B	886.88	876.49	879.42	876.59	875.22	875.13	874.79	874.73	877.89	874.19	874.25
01U626C	886.88	876.58	879.45	876.68	875.23	875.22	874.88	874.81	877.92	874.28	874.36
01U626D	886.88	876.64	879.48	876.77	875.34	875.31	874.96	874.86	877.91	874.34	874.41
01U627A	886.46	877.76	879.21	878.04	876.86	876.56	873.81	875.64	877.86	875.16	875.40
01U627B	886.47	876.99	879.44	876.25	875.81	875.66	875.21	875.19	877.88	874.56	874.68
01U627C	886.47	876.87	879.45	876.12	875.70	875.55	875.15	875.10	877.89	874.51	874.63
01U627D	886.48	876.95	879.47	876.11	875.75	875.57	875.15	875.06	877.89	874.53	874.63
01U628A	887.82	877.65	878.83	877.68	877.01	876.81	875.97	875.87	877.18	875.06	875.35
01U628B	887.83	877.40	878.91	877.28	876.67	876.48	875.74	875.65	877.29	874.90	875.13
01U628C	887.82	877.08	879.03	876.67	876.15	876.44	875.42	875.34	877.42	874.67	874.83
01U628D	887.84	877.17	879.02	876.69	876.19	876.02	875.39	875.30	877.44	874.67	874.84
K01MW	891.24										
K02MW	891.35										
K04MW	887.66										

Notes:
NA - not available
Obstrt. - obstructed

SITE K HISTORICAL GROUNDWATER ELEVATION DATABASE (FT. AMSL)
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Well Location	*TOC Elevation*	*5/27/88*	*7/8/88*	*9/7/88*	*10/4/88*	*12/6/88*	*3/29/89*	*6/7/89*	*9/8/89*	*11/21/89*	*1/3/89*
01U047	880.31										
01U048	885.32										
01U052	886.51										
01U065	883.90										
01U128	883.69										
01U601	892.68	883.38	883.08	883.39	883.48	883.72	884.01	883.78	883.78		882.77
01U602	889.35										
01U603	887.31	875.91	875.44	875.93	876.56	875.93	875.74	877.24	878.05		876.22
01U604	888.98	875.03	874.78	874.99	875.68	875.03	874.38	876.00	876.98		876.04
01U605	887.76	876.53	875.54	875.80	875.61	875.86	Dry	877.32	876.91		Dry
01U607	891.01	884.75	886.32	885.14	885.21	885.06	886.88	884.58	885.79		882.19
01U608	889.30										
01U609	889.33	882.80	882.65	882.84	882.81	882.82	882.50	882.98	883.00		882.27
01U611	889.29	883.18		883.21	883.21	883.36	882.45				889.29
01U612	886.91	876.91	876.39	Dry	877.01	876.94	Dry		877.16		Dry
01U613	892.07	883.82	884.20	884.57	884.17		885.31		884.48		881.86
01U615	888.66	874.32	874.27	874.46	874.86	874.38	874.13	874.90	876.48		874.47
01U616	890.37	877.09	877.20	877.51	878.04	876.83	876.68	878.20	879.23		876.71
01U617	887.72	875.06	874.87	875.05	875.32	874.97	874.46	875.79	876.88		874.95
01U618	891.52	874.42	874.47	875.45	875.20	874.30	874.01	875.55	876.66		874.02
01U619	891.75	882.20	882.22	883.05	882.40	882.39	882.33	883.00	882.90		881.28
01U620	888.65	876.29	876.30	876.64	877.09	878.95	875.84	877.27	878.61		878.82
01U621	886.57	875.91	875.74	875.98	876.30	875.83	875.18	876.82	876.83		875.61
01U622	889.43										
01U623	889.44	875.76	875.76	875.89	876.76	875.70	875.48	876.13	876.96		875.83
01U624A	889.88	Dry	Dry	Dry	Dry	Dry	Dry	Dry	878.17	Dry	Dry
01U624B	889.88	875.74	875.73	876.59	876.63	875.73	875.38	876.68	878.08	876.30	875.67
01U624C	889.91	875.77	875.75	876.11	876.63	875.75	875.39	876.70	878.10	876.32	875.68
01U624D	889.89	875.76	875.74	876.10	876.64	875.74	875.39	876.71	878.09	876.32	875.69
01U625A	886.92	875.75	875.69	875.95	876.29	874.92	875.49	876.48	878.01	875.61	875.00
01U625B	886.91	874.97	874.90	875.20	875.49	874.89	874.75	875.71	877.28	875.64	874.94
01U625C	886.91	874.96	874.89	875.20	875.50	874.89	874.74	875.70	877.28	875.64	874.94
01U625D	886.92	874.97	874.90	875.20	875.50	874.91	874.76	875.71	877.28	875.66	874.94
01U626A	886.87	874.54	874.73	874.72	875.07	874.29	874.15	875.56	876.99	875.73	875.49
01U626B	886.88	874.52	874.45	874.68	874.85	874.43	874.41	875.28	876.87	875.38	874.63
01U626C	886.88	874.62	874.53	874.79	874.97	874.53	874.47	875.37	876.95	875.41	874.66
01U626D	886.88	874.71	874.61	874.87	875.04	874.60	874.51	875.42	876.99	875.46	874.72
01U627A	886.46	875.66	875.76	875.71	876.55	875.31	874.70	876.78	877.83	876.79	877.14
01U627B	886.47	875.01	874.88	875.12	875.34	874.82	874.66	875.73	877.16	875.75	874.96
01U627C	886.47	874.91	874.75	875.05	875.29	874.77	874.65	875.64	877.10	875.62	874.83
01U627D	886.48	874.95	874.80	875.08	875.25	874.82	874.63	875.67	877.13	875.57	874.90
01U628A	887.82	875.89	875.60	875.77	876.06	875.66	874.84	876.73	877.43	875.86	875.49
01U628B	887.83	875.63	875.35	875.56	875.84	875.45	874.76	876.43	877.28	875.80	875.32
01U628C	887.82	875.22	875.02	875.24	875.50	875.14	874.63	876.00	877.07	875.72	875.09
01U628D	887.84	875.19	875.03	875.24	875.52	875.16	874.63	875.99	877.09	875.68	875.10
K01MW	891.24										
K02MW	891.35										
K04MW	887.66										

Notes:
NA - not available
Obstrt. - obstructed

SITE K HISTORICAL GROUNDWATER ELEVATION DATABASE (FT. AMSL)
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Well Location	*TOC Elevation*	*5/7/90*	*7/3/90*	*10/2/90*	*3/6/91*	*6/4/91*	*9/3/91*	*12/6/91*	*3/2/92*	*6/1/92*	*9/9/92*
01U047	880.31				873.12	875.51	873.97	875.34	874.24	873.82	873.02
01U048	885.32				873.13	875.89	874.38	875.45	874.54	874.32	873.51
01U052	886.51				873.11	876.04	874.91	875.65	874.95	874.64	873.61
01U065	883.90				872.83	874.60	873.84	874.25	873.81	873.71	873.25
01U128	883.69				872.80	876.35	874.17	875.56	874.41	874.01	872.93
01U601	892.68	883.62	884.09	883.73	883.13	884.95	883.89	884.65	884.46	886.48	883.94
01U602	889.35				883.31	883.91	883.42	883.83	883.40	883.15	883.13
01U603	887.31	877.47	878.48	877.78	876.28	878.99	877.34	878.27	877.54	877.49	878.01
01U604	888.98	876.24	877.12	876.88	876.14	877.90	876.38	877.58	876.50	876.67	876.50
01U605	887.76	876.32	878.51	877.54	Dry	878.95	877.68	878.02	877.52	877.72	877.34
01U607	891.01	885.13	885.21	883.96	883.47	886.22	884.65	885.69	886.17	884.25	883.63
01U608	889.30				883.20	884.06	883.35	884.21	883.53	883.27	883.19
01U609	889.33		883.26	883.21	882.37	883.77	883.42	883.97	883.37	883.22	883.12
01U611	889.29	883.20	883.81	883.47	882.92	884.47	883.65	884.34	883.92	883.48	883.58
01U612	886.91	877.16	877.62	877.12	Dry	878.20	877.19	878.00	876.62	877.31	877.11
01U613	892.07	883.68	884.22	883.24	882.55	884.76	884.50	884.33	884.67	883.30	884.13
01U615	888.66	874.65	876.05	876.45	874.58	877.31	875.82	877.36	876.10	876.30	875.66
01U616	890.37	876.93	878.60	879.19	876.65	879.69	878.52	879.71	878.55	878.83	878.33
01U617	887.72	875.44	877.00	877.04	875.24	878.00	876.57	877.72	876.52	876.92	876.39
01U618	891.52	874.33	876.38	876.66	873.97	877.76	877.81	880.07	878.70	879.07	878.55
01U619	891.75	881.99	883.17	882.99	881.30	884.41	882.89	883.84	883.25	882.87	882.72
01U620	888.65	879.09	880.99	881.36	878.79	882.31	878.87	879.08	877.74	878.06	877.55
01U621	886.57	876.14	877.99	878.00	875.76	879.09	877.57	878.58	877.36	877.81	877.29
01U622	889.43				Dry	882.50	882.51	882.70	Dry	Dry	Dry
01U623	889.44	875.73	876.60	877.44	875.76	876.72	877.08	877.96	877.23	877.48	876.88
01U624A	889.88	Dry	877.67	878.09	Dry	878.96	877.43	878.76	877.45	877.75	877.14
01U624B	889.88	875.88	877.66	878.07	875.65	878.90	877.42	878.74	877.45	877.75	877.13
01U624C	889.91	875.90	877.66	878.08	875.67	878.91	877.42	878.75	877.46	877.76	877.15
01U624D	889.89	875.90	877.65	878.08	875.66	878.89	877.40	878.75	877.46	877.76	877.14
01U625A	886.92	875.20	876.77	877.15	875.01	878.03	876.55	877.94	876.69	876.94	876.31
01U625B	886.91	875.14	876.74	877.11	875.02	878.06	876.54	877.95	876.71	876.93	876.29
01U625C	886.91	875.14	876.76	877.11	875.02	878.06	876.54	877.95	876.71	876.93	876.29
01U625D	886.92	875.13	876.77	877.10	875.02	878.07	876.55	877.96	876.72	876.94	876.30
01U626A	886.87	875.96	876.73	876.80	875.81	877.73	876.32	877.68	876.62	876.79	876.23
01U626B	886.88	874.88	876.40	876.68	874.82	877.71	876.18	877.59	876.42	876.60	875.94
01U626C	886.88	874.88	876.44	876.74	874.82	877.78	876.23	877.65	876.47	876.66	875.98
01U626D	886.88	874.94	876.51	876.80	874.86	877.82	876.28	877.69	876.51	876.70	875.93
01U627A	886.46	877.43	877.69	877.58	877.52	878.47	877.36	878.22	877.26	877.63	877.19
01U627B	886.47	875.22	876.79	877.00	875.17	878.02	876.50	877.82	876.64	876.88	876.25
01U627C	886.47	875.11	876.71	876.95	875.00	877.93	876.43	877.77	876.59	876.82	876.17
01U627D	886.48	875.14	876.73	876.95	875.03	877.97	876.45	877.78	876.60	876.83	876.18
01U628A	887.82	876.32	877.94		875.59	878.63	877.33	878.14	877.06	877.63	877.11
01U628B	887.83	875.98	877.63		875.46	878.45	877.10	878.03	876.92	877.43	876.87
01U628C	887.82	875.55	877.18		875.28	878.19	876.75	877.89	876.72	877.12	876.52
01U628D	887.84	875.56	877.20		875.29	878.22	876.77	877.89	876.74	877.13	876.53
K01MW	891.24										
K02MW	891.35										
K04MW	887.66										

Notes:
NA - not available
Obstrt. - obstructed

SITE K HISTORICAL GROUNDWATER ELEVATION DATABASE (FT. AMSL)
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Well Location	*TOC Elevation*	*12/1/92*	*3/2/93*	*6/1/93*	*9/8/93*	*3/1/94*	*9/6/94*	*3/6/95*	*9/5/95*	*6/3/96*	*9/3/96*	*12/2/96*	*6/2/97*
01U047	880.31	873.67	873.54	874.63	874.87	874.13	873.36	873.21	874.58	875.05	872.81	875.88	873.97
01U048	885.32	874.07	873.45	875.00	875.25	873.96	873.61	873.06	874.99	875.05	873.23	875.01	874.11
01U052	886.51	874.47	873.55	875.52	875.49	874.26	873.75	873.30	875.22	875.47	873.42	875.41	874.67
01U065	883.90	873.80	873.23	874.27	874.43	873.33	873.47	873.04	874.27	874.27	873.23	874.00	873.75
01U128	883.69	873.87	873.09	875.35	875.18	873.81	873.16	872.84	874.90	875.31	872.69	875.36	874.11
01U601	892.68	883.91	883.27	884.34	884.43	883.54	883.52	882.88	883.84	883.85	883.20	884.03	883.57
01U602	889.35	883.31	882.71	883.20	883.86	883.23	883.11	882.47	883.22	883.25	882.63	883.14	882.89
01U603	887.31	877.11	876.38	878.19	879.17	876.14	876.64	876.12	877.53	878.49	876.11	876.83	876.85
01U604	888.98	876.35	876.12	877.01	878.65	876.70	875.86	876.62	876.91	877.46	875.51	876.28	876.21
01U605	887.76	877.34	875.64	878.38	878.43	876.32	876.70	Dry	877.79	877.89	876.15	877.20	877.35
01U607	891.01	884.94	882.84	885.86	884.82	883.74	881.86	882.28	883.64	884.65	879.36	885.46	884.03
01U608	889.30	883.46	882.62	883.49	884.18	882.80	882.81	882.24	883.42	883.40	882.60	883.27	883.03
01U609	889.33	883.41	882.72	883.35	883.91	882.77	882.75	882.44	883.29	883.29	882.65	883.08	882.94
01U611	889.29	NA	883.13	883.92	884.18	883.25	883.22	882.82	883.54	883.55	883.07	883.58	883.31
01U612	886.91	877.19	Dry	878.21	878.65	Dry	876.89	Dry	877.56	878.01	876.40	877.40	876.89
01U613	892.07	883.62	882.77	884.65	884.13	883.41	883.00	881.98	883.35	883.64	881.97	884.32	883.14
01U615	888.66	876.16	875.70	876.29	878.67	874.92	875.35	874.82	876.73	876.68	875.14	876.16	876.05
01U616	890.37	878.60	877.34	878.82	880.81	877.39	877.89	876.95	879.12	879.54	877.74	878.38	878.60
01U617	887.72	876.72	875.91	877.09	878.99	875.41	875.98	875.20	877.31	877.39	875.78	876.56	876.66
01U618	891.52	878.96	877.53	879.25	881.12	877.53	878.13	877.10	879.52	879.79	878.03	878.97	878.91
01U619	891.75	883.08	881.61	883.38	884.01	882.15	882.49	881.17	883.12	883.27	882.03	883.17	882.69
01U620	888.65	877.96	876.78	878.21	880.27	876.52	877.15	876.21	878.55	878.72	877.02	877.97	877.93
01U621	886.57	877.64	876.45	878.05	879.84	876.18	876.93	875.85	878.30	878.39	876.75	877.57	877.64
01U622	889.43	Dry	Dry	Dry	NA	Obstrt.	Obstrt.	Obstrt.	Obstrt.	Obstrt.	Obstrt.	Obstrt.	Obstrt.
01U623	889.44	877.03	876.33	876.97	879.09	Obstrt.	Obstrt.	Obstrt.	Obstrt.	Obstrt.	Obstrt.	Obstrt.	Obstrt.
01U624A	889.88	877.63	Dry	877.80	879.96	Dry	Dry	Dry	878.15	878.37	Dry	877.55	877.53
01U624B	889.88	877.61	876.53	877.78	879.96	876.21	876.78	875.92	878.15	878.33	876.63	877.55	877.53
01U624C	889.91	877.64	876.56	877.80	879.96	876.24	876.79	875.96	878.18	878.35	876.66	877.57	877.56
01U624D	889.89	877.63	876.56	877.79	879.97	876.23	876.79	875.94	878.16	878.34	876.64	877.55	877.52
01U625A	886.92	876.85	876.18	876.96	879.27	875.40	875.96	875.24	877.39	877.39	875.77	876.82	876.77
01U625B	886.91	876.84	876.17	876.95	879.26	875.39	875.95	875.23	877.38	877.34	875.76	876.81	876.75
01U625C	886.91	876.84	876.18	876.95	879.26	875.40	875.95	875.23	877.38	877.34	875.76	876.81	876.75
01U625D	886.92	876.85	876.16	876.96	879.27	875.41	875.96	875.24	877.39	877.35	875.77	876.82	876.76
01U626A	886.87	876.63	876.62	876.94	878.89	875.39	875.95	875.93	877.25	877.45	875.56	876.51	876.77
01U626B	886.88	876.52	876.03	876.63	878.93	875.09	875.60	875.04	877.07	876.96	875.38	876.50	876.46
01U626C	886.88	876.57	876.02	876.68	878.98	875.13	875.66	875.04	877.11	877.00	875.45	876.55	876.50
01U626D	886.88	876.61	876.03	876.73	879.01	875.18	875.71	875.08	877.16	877.06	875.50	876.59	876.54
01U627A	886.46	877.27	877.30	877.86	879.31	876.41	877.09	877.24	878.05	878.61	876.59	877.23	877.62
01U627B	886.47	876.77	876.12	876.95	879.12	875.43	875.91	875.36	877.31	877.27	875.71	876.72	876.70
01U627C	886.47	876.71	876.07	876.87	879.08	875.33	875.84	875.21	877.27	877.20	875.64	876.67	876.63
01U627D	886.48	876.73	876.08	876.89	879.09	875.33	875.85	875.22	877.28	877.21	875.65	876.68	876.64
01U628A	887.82	877.40	876.19	877.89	879.40	875.85	876.76	875.69	877.98	878.18	876.51	877.07	877.37
01U628B	887.83	877.21	876.14	877.63	879.30	875.73	876.45	875.55	877.78	877.91	876.28	876.96	877.15
01U628C	887.82	876.94	876.06	877.26	879.17	875.57	876.15	875.38	877.50	877.55	875.96	876.77	876.84
01U628D	887.84	876.95	876.06	877.26	879.17	875.56	876.16	875.38	877.50	877.56	875.97	876.77	876.84
K01MW	891.24					884.07	886.33	883.38	886.34	886.77	885.64	886.79	886.75
K02MW	891.35					885.00	884.48	883.86	884.99	885.13	883.68	886.31	884.54
K04MW	887.66					878.73	879.46	877.86	880.28	880.20	878.86	879.67	879.61

Notes:
NA - not available
Obstrt. - obstructed

Table IV.E-3

Fiscal Year 1995 - Fiscal Year 1997
Groundwater Quality Data for Site K
Building 103, TCAAP

TABLE IV.E-3

FISCAL YEAR 1995 - FISCAL YEAR 1997 GROUNDWATER QUALITY DATA FOR SITE K
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Location	Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTTE	TRCLE
OW104	3/7/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	0.31 A
(01U604)	6/4/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	0.955
	6/4/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	1.99 D	< 1.1 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	21.6 D
	6/3/97	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.7
OW111	3/7/95	< 500	< 500	< 500	< 390	5100	< 250	< 500		< 950	< 650	< 1600	< 360	< 150 T	< 500	< 500	35000
(01U611)	6/4/96	< 0.76	< 0.78	3.71	< 0.73	1820 XJ	2.99	< 1 T		9.23	< 0.99	< 7.4	< 0.5		2.9	< 1 T	45000
	6/3/97	< 1	< 1	30.5 JP	0.39 JP		< 1	< 1	16000 B	85	< 1	0.38 JP	< 1	415	0.63 JP	< 1	41500 B
OW115	3/7/95	< 250	< 250	< 250	< 200	1100	< 130	< 250		< 480	< 330	< 800	< 180	240 Z	< 250	< 250	12000
(01U615)	6/4/96	< 0.76	< 0.78	2.21	< 0.73	1400	< 1.1	< 1 T		12.8	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	5800
	6/3/97	< 1	< 1	1.5	< 1		< 1	< 1	650	5	< 1	< 1	< 1	230	< 1	< 1	2800 B
OW117	3/7/95	< 1	< 1	< 1	< 0.78	2.42	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	0.37 Z	< 1	< 1	0.782
(01U617)	9/5/95	< 1	< 1	< 1	< 0.78	2.97	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	0.858
	6/4/96	< 0.76	< 0.78	< 1.7	< 0.73	4.6	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	1.02
	9/3/96	< 0.76	< 0.78	< 1.7	< 0.73	5.38	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
	12/3/96	< 1	< 1	< 1	< 1		< 1	< 1	2.3	< 1	< 1	< 1	< 1	0.29 JP	< 1	< 1	0.65 JP
	6/3/97	< 1	< 1	< 1	< 1		< 1	< 1	2.3	< 1	< 1	< 1	< 1	0.46 JP	< 1	< 1	0.78 JP
OW118	3/7/95	< 1	< 1	< 1	1.84	1	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	5.66	3.36
(01U618)	6/4/96	< 0.76	< 0.78	< 1.7	1.51	1.32	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	14.7 Z	3.82
	6/3/97	< 1	< 1	< 1	0.53 JP		< 1	< 1	0.84 BJP	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.4 B
OW119	3/7/95	< 1	< 1	< 1	0.55 1	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	380	2.48
(01U619)	6/4/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	143 Z	2.16
	6/3/97	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	80	0.8 JP
OW121	3/7/95	< 1	< 1	< 1	< 0.78	9.64	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
(01U621)	9/5/95	< 1	< 1	< 1	< 0.78	11.1	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72		< 1	< 1	< 0.5
	9/5/95	< 1 D	< 1 D	< 1 D	< 0.78 D	11.7 D	< 0.5 D	< 1 D		< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D	< 0.3 T	< 1 D	< 1 D	< 0.5 D
	6/4/96	< 0.76	< 0.78	< 1.7	< 0.73	13.8	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	0.954
	9/3/96	< 0.76	< 0.78	< 1.7	< 0.73	12.9	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
	9/3/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	< 0.56 D
	12/3/96	< 1	< 1	< 1	< 1		< 1	< 1	6.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/3/97	< 1	< 1	< 1	< 1		< 1	< 1	7.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.5 JP
	6/3/97	< 1 D	< 1 D	< 1 D	< 1 D		< 1 D	< 1 D	5.9 D	< 1 D	< 1 D	< 1 D	< 1 D	< 1 D	< 1 D	< 1 D	< 1 D

TABLE IV.E-3

FISCAL YEAR 1995 - FISCAL YEAR 1997 GROUNDWATER QUALITY DATA FOR SITE K
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*Date*	*111TCE*	*112TCE*	*11DCE*	*11DCLE*	*12DCE*	*12DCLE*	*12DCLP*	*C12DCE*	*C2H3CL*	*CCL4*	*CH2CL2*	*CHCL3*	*T12DCE*	*TCLEE*	*TCLTFE*	*TRCLE*
01U128	3/7/95	< 1	< 1	< 1	< 0.78	15.3	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	2.17 Z	< 1	< 1	< 0.5
	6/4/96	< 0.76	< 0.78	< 1.7	< 0.73	14.9	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
	6/3/97	< 1	< 1	< 1	< 1		< 1	< 1	8.4	< 1	< 1	< 1	< 1	0.95 JP	< 1	< 1	< 1
K04MW	3/7/95	< 1	< 1	< 1	4.39	1.25	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	9.56
	6/4/96	< 0.76	< 0.78	< 1.7	0.94	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	7.01
	6/4/96	< 0.76 D	< 0.78 D	< 1.7 D	1.25 D	< 0.76 D	< 1.1 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	6.82 D
	6/3/97	< 1	< 1	< 1	0.89 JP		< 1	< 1	0.37 JP	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5.5

Notes:
Concentration in µg/L.
A - Result less than Certified Reporting Limit but greater than the Criteria of Detection.
B - Analyte found in the method blank or QC blank as well as the sample.
D - Duplicate analysis.
J - Value is estimated.
P - Results less than reporting level but greater than instrumental detection limit.
T - Non-target compound analyzed for but not detected (non-GC/MS methods).
X - Analyte concentration is above the upper reporting limit.
Z - Non-target compound analyzed for and detected (non-GC/MS methods).

Table IV.E-4

Site K Treatment System Concentrations
Building 103, TCAAP

TABLE IV.E-4

SITE K TREATMENT SYSTEM CONCENTRATIONS
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Substantive Requirements																
Max. Conconcentrations				*ND**			*10*		*7*			*70*	*100*	*3.8*			
Site ID	*Date*	*CCL4*	*CHCL3*	*CH2CL2*	*C2H3CL*	*TCLEE*	*TRCLE*	*11DCE*	*11DCLE*	*111TCE*		*C12DCE*	*T12DCE*	*12DCLE*	*112TCE*	*12DCLP*	*TCLTFE*
Effluent	11/12/96	<0.29	<0.31	<0.37	<0.25	<0.26	0.38 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	11/12/96	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	
Effluent	11/19/96	<0.29	<0.31	<0.37	<0.25	<0.26	0.58 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	11/19/96	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	12/3/96	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	12/3/96	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	12/10/96	<0.29	<0.31	<0.37	<0.25	<0.26	0.72 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	12/10/96	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	1/7/97	<0.29	<0.31	<0.37	<0.25	<0.26	0.86 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	1/7/97	<0.29	<0.31	<0.37	<0.25	<0.26	0.46 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	1/15/97	<0.29	<0.31	<0.37	<0.25	<0.26	0.45 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	1/15/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	1/22/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.25	<0.23	<0.26	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	1/22/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.25	<0.23	<0.26	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	3/4/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.30	<0.30	<0.37	NA	NA	NA
Effluent	3/4/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.30	<0.30	<0.37	NA	NA	NA
Effluent	4/1/97	<0.29	<0.31	<0.37	<0.25	<0.26	0.52 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	<0.44	<0.31	<0.23
Effluent	4/1/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	<0.44	<0.31	<0.23
Effluent	4/9/97	<0.29	<0.31	<0.37	<0.25	<0.26	0.59 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	4/9/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	4/16/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	4/16/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	6/3/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	6/3/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	7/1/97	<0.29	<0.31	<0.37	<0.25	<0.26	0.31 J	<0.23	<0.30	<0.30		<0.30	<0.30	<0.37	<0.37	<0.37	<0.37
Effluent	7/1/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.30	<0.30	<0.37	<0.37	<0.37	<0.37
Effluent	7/16/97	<0.29	<0.31	<0.37	<0.25	<0.26	0.52 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	7/16/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	7/23/97	<0.29	<0.31	<0.37	<0.25	<0.26	1.3	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	7/23/97	<0.29	<0.31	<0.37	<0.25	<0.26	0.62 J	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA
Effluent	9/2/97	<0.29	<0.31	<0.37	<0.25	<0.26	<0.26	<0.23	<0.30	<0.30		<0.26	<0.25	<0.37	NA	NA	NA

TABLE IV.E-4

SITE K TREATMENT SYSTEM CONCENTRATIONS
BUILDING 103, TCAAP
NEW BRIGHTON, MINNESOTA

Substantive Requirements																
Max. Conconcentrations				*ND**			*10*		*7*		*70*	*100*	*3.8*			
Site ID	*Date*	*CCL4*	*CHCL3*	*CH2CL2*	*C2H3CL*	*TCLEE*	*TRCLE*	*11DCE*	*11DCLE*	*111TCE*	*C12DCE*	*T12DCE*	*12DCLE*	*112TCE*	*12DCLP*	*TCLTFE*
Influent	11/12/96	<0.29	<0.31	<0.37	<0.25	<0.26	200	<0.23	<0.30	<0.30	45	6.5	<0.37	NA	NA	NA
Influent	11/19/96	<0.29	<0.31	<0.37	0.49 J	<0.26	230	<0.23	<0.30	<0.30	44	5.5	<0.37	NA	NA	NA
Influent	12/3/96	<0.29	<0.31	<0.37	0.62 J	<0.26	240	<0.23	<0.30	<0.30	66	7.8	<0.37	NA	NA	NA
Influent	12/10/96	<0.29	<0.31	<0.37	0.63 J	<0.26	140	<0.23	<0.30	<0.30	34	8.4	<0.37	NA	NA	NA
Influent	1/7/97	<0.29	<0.31	<0.37	0.88 J	<0.26	190	0.56 J	<0.30	<0.30	44	8.9	<0.37	NA	NA	NA
Influent	1/15/97	<0.29	<0.31	<0.37	1.1	<0.26	200	0.81 J	<0.30	<0.30	52	11	<0.37	NA	NA	NA
Influent	1/22/97	<0.29	<0.31	<0.37	<0.25	<0.26	76	<0.23	<0.26	<0.30	6.4	1	<0.37	NA	NA	NA
Influent	3/4/97	<0.29	<0.31	<0.37	0.68 J	<0.26	330	<0.23	<0.30	<0.30	63	8.8	<0.37	NA	NA	NA
Influent	4/1/97	<0.29	<0.31	<0.37	0.46 J	<0.26	150	0.50 J	<0.30	<0.30	36	6.8	<0.37	<0.44	<0.31	<0.23
Influent	4/9/97	<0.29	<0.31	<0.37	0.61 J	<0.26	160	0.57 J	<0.30	<0.30	42	8.5	<0.37	NA	NA	NA
Influent	4/16/97	<0.29	<0.31	0.39 J	0.52 J	<0.26	190	<0.23	<0.30	<0.30	37	7.4	<0.37	NA	NA	NA
Influent	6/3/97	<0.29	<0.31	<0.37	0.62 J	<0.26	300	0.57 J	<0.30	<0.30	48	7.8	<0.37	NA	NA	NA
Influent	7/1/97	<0.29	<0.31	<0.37	<0.25	<0.26	340	<0.23	<0.30	<0.30	58	11	<0.37	<0.37	<0.37	110
Influent	7/16/97	<0.29	<0.31	<0.37	0.44 J	<0.26	130	0.97 J	<0.30	<0.30	15	3.2	<0.37	NA	NA	NA
Influent	7/23/97	<0.29	<0.31	<0.37	0.73 J	<0.26	200	0.67 J	<0.30	<0.30	34	5.4	<0.37	NA	NA	NA
Influent	9/2/97	<0.29	<0.31	<0.37	0.98 J	<0.26	300	0.79 J	<0.30	0.42 J	55	9.6	<0.37	NA	NA	NA

Notes:

J The qualifier indicates that the value is between the MDL and PQL.

ARAR (Applicable or Relevant and Appropriate Regulation): 1,2-dichloroethene - 70 ugm/L and trichloroethene - 30 ugm/L.

From Table 3, Appendix B, Operable Unit 2 Record of Decision, October 1997.

* Vinyl chloride must be non-detect at given limit.

Table IV.E-5

Summary of Monthly VOC Removal for Fiscal Year 1997

TABLE IV.E-5

SUMMARY OF MONTHLY VOC REMOVAL FOR FISCAL YEAR 1997
SITE K, TCAAP
NEW BRIGHTON, MINNESOTA

Month	*VOC Influent (µg/L)*		*Water Treated (gallons)*		*Total VOCs Into the Treatment Center (lbs)*	*VOC Effluent (µg/L)*		*Total VOCs Removed by Stripping Towers (lbs)*
October	264.0	(1)	342,080		0.8	5.7	(1)	0.7
November	265.5		323,364	(3)	0.7	0.0		0.7
December	248.1		307,000	(3)	0.6	0.0		0.6
January	196.8		277,000	(3)	0.5	0.0		0.5
February	299.3	(1)	181,700		0.5	0.0	(1)	0.5
March	401.8		327,770		1.1	0.0		1.1
April	212.6		264,830		0.5	0.0		0.5
May	284.2	(1)	270,330		0.6	0.0	(1)	0.6
June	355.8		246,182	(3)	0.7	0.0		0.7
July	265.5		265,293	(3)	0.6	0.7		0.6
August	315.1	(1)	434,940	(3)	1.1	0.0	(1)	1.1
September	364.6		413,930	(3)	1.3	0.0		1.3
Total VOCs Removed For Fiscal Year 1997 (lbs)					8.9			8.9

Notes:

1) VOC concentrations are averaged between the previous month and the following month.

2) VOC concentrations do not include estimated concentrations for compounds detected below the reporting limit.

3) Gallons pumped volumes have been adjusted from previously reported amounts to account for flow meter clogging during these months.

Table IV.E-6

Summary of Site K Monitoring Requirements

Table IV.E-6

Summary of Site K Monitoring Requirements

Remedy Component	Monitoring Requirements	Responsible Party	Documents Containing the Monitoring Plan
#1 Groundwater Monitoring	• Outlined below	Alliant	Site K Monitoring Plan in Annual Report
#2 Sentinel Wells	a. Water quality to monitor potential migration	Alliant	Site K Monitoring Plan in Annual Report
#3 Hydraulic Containment	a. Water levels to draw contour maps showing capture	Alliant	Site K Monitoring Plan in Annual Report
	b. Pumping volumes and rates for comparison to design needs and mass removal calculation	Alliant	Site K Monitoring Plan in Annual Report
#4 Groundwater Treatment	• None	Alliant	Site K Monitoring Plan in Annual Report
#5 Treated Water Discharge	• None	Alliant	Site K Monitoring Plan in Annual Report
#6 Discharge Monitoring	a. Treated effluent water quality for comparison to substantive requirements for discharge	Alliant	Site K Monitoring Plan in Annual Report
#7 Additional Investigation	a. As per work plan	Alliant	Site K Monitoring Plan in Annual Report

Table IV.F-1

Groundwater Capture and Treatment Requirements
TGRS, TCAAP

TABLE IV.F-1

GROUNDWATER CAPTURE AND TREATMENT REQUIREMENTS
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Substance	*Contaminant Specific Requirements (a) (ppb)*	*Acceptable Risk Level (b) 10^{-6} (ppb)*	*Expected Level in Discharge (ppb)*	*Operable Unit 2 ROD Requirements (ppb)*
Volatile Organic Compounds (VOCs)				
Benzene	5 (MCL)	0.67	ND	
Toluene	2,000 (MCLGP)	--	ND	
cis-1,2-Dichloroethene plus trans-1,2-Dichloroethene	70 (MCLGP)	--	<1	70
1,1-Dichloroethene	7 (MCL)	0.033	<1	7
1,1,1-Trichloroethane	200 (MCL)	22	<1	200
1,1,2-Trichloroethane	6.1 (RAL)	0.6	<1	
1,2-Dichloroethane	5 (MCL)	0.38	--	5
1,1,2-Trichloroethene	5 (MCL)	2.8	<5	5
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	<2	
Xylene	440 (MCLGP)	--	ND	
1,1-Dichloroethane	-- (GA)	--	--	70
Tetrachloroethene	--	--	--	5
Metals				
Arsenic	50 (MCL)	0.25	NA	
Barium	1,000 (MCL)	1,000 (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	

Notes:

(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 USEPA approval. Values are based on a 10-6 risk level for carcinogens and for non-carcinogens with stricter limits determined by MCL, AIC or Water Quality criteria adjusted for ingestion of drinking water only.

MCL Maximum Contaminant Level

MCLP Maximum Contaminant Level Proposed

MCLG Maximum Contaminant Level Goal

MCLGP Maximum Contaminant Level Goal 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 x 10^{-6} risk levels.

GA Group Action Criteria of 10 ppb adopted.

ATSOR Agency for Toxic Substances and Disease Registry recommended action level for BGRS.

Table IV.F-2

Fiscal Year 1997 Extraction Well Water Pumped
TGRS, TCAAP

TABLE IV.F-2

FISCAL YEAR 1997 EXTRACTION WELL WATER PUMPED
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

	Volume of Water Pumped (gallons)																	
	B1	*B2*	*B3*	*B4*	*B5*	*B6*	*B7*	*B8*	*B9*	*B10*	*B11*	*B12*	*SC1*	*SC2*	*SC3*	*SC4*	*SC5*	*TOTAL*
October 1996	9,627,100	4,757,700	8,243,000	7,411,500	7,511,600	10,927,500	10,535,600	4,469,100	5,717,900	10,554,700	3,590,900	7,303,100	795,240	1,770,800	4,008,100	2,108,900	4,397,800	102,935,300
November 1996	10,391,400	6,447,600	10,300,400	7,985,600	8,426,500	11,892,300	11,637,800	5,418,800	6,365,900	12,309,500	4,150,700	3,223,500	1,387,640	2,186,300	4,294,800	1,057,600	4,526,700	110,615,400
December 1996	10,819,900	6,565,200	10,771,700	8,333,200	9,459,800	12,452,000	12,171,000	5,614,400	6,793,400	12,751,900	4,311,000	0	1,550,000	2,698,800	4,523,600	0	4,811,200	112,077,100
January 1997	2,912,000	6,295,700	10,725,700	8,222,800	9,368,900	12,171,000	11,831,300	5,302,000	6,756,000	12,320,900	4,147,600	0	1,600,000	2,927,800	4,488,500	0	4,836,000	102,306,200
February 1997	4,587,900	5,502,300	9,797,500	7,615,100	8,557,400	11,185,300	10,988,800	4,910,800	6,348,000	11,086,700	3,862,700	0	1,400,000	1,544,800	4,137,900	0	4,380,400	94,505,600
March 1997	10,129,200	5,456,700	10,277,700	8,145,300	9,093,400	12,171,300	11,843,600	5,440,100	6,833,800	10,997,600	4,255,800	0	1,550,000	1,597,700	4,477,200	0	4,777,900	105,497,300
April 1997	9,929,700	4,297,300	10,106,900	7,965,700	8,788,300	12,353,300	10,496,700	5,242,200	6,614,900	9,658,800	4,024,900	0	557,210	1,477,100	4,316,600	0	4,689,700	99,962,100
May 1997	9,517,000	5,274,700	9,369,100	6,161,500	8,488,100	12,417,300	10,626,500	5,441,500	6,210,800	10,087,700	4,210,400	0	1,292,210	1,234,300	4,164,200	0	2,664,700	97,160,010
June 1997	8,783,000	5,610,000	10,040,400	4,479,300	8,789,100	12,179,700	11,447,600	5,140,800	6,433,200	10,263,900	3,988,000	0	1,353,700	1,067,300	4,212,700	0	3,749,000	97,537,700
July 1997	7,261,000	2,898,800	6,244,700	8,359,300	7,858,000	10,713,500	8,908,700	3,756,800	6,005,000	8,249,800	3,000,200	0	1,065,300	2,898,900	3,461,200	0	3,570,600	84,251,800
August 1997	9,668,900	4,911,600	10,571,700	8,471,400	8,627,900	11,402,700	11,769,200	4,981,800	6,878,100	10,597,700	4,000,700	0	1,423,900	2,241,800	3,460,100	0	4,415,600	103,423,100
September 1997	9,438,600	5,178,200	10,527,800	8,439,500	8,667,700	11,237,700	11,699,800	4,915,200	6,720,200	10,474,400	3,896,900	0	1,406,200	2,454,200	3,380,700	0	4,326,400	102,763,500
TOTAL FY97	103,065,700	63,195,800	116,976,600	91,590,200	103,636,700	141,103,600	133,956,600	60,633,500	77,677,200	129,353,600	47,439,800	10,526,600	15,381,400	24,099,800	48,925,600	3,166,500	51,146,000	1,213,035,110
FY89	67,563,900	69,364,850	72,257,490	75,237,700	76,328,500	100,611,510	138,278,100	42,329,200	60,613,300	54,516,600	93,534,437	60,210,340	13,867,660	20,078,880	36,660,309	12,593,300	39,307,600	1,033,353,676
FY90	70,722,300	69,450,060	73,633,450	80,511,000	71,897,000	105,220,300	117,609,400	40,747,900	59,883,400	95,227,900	40,939,800	63,867,460	11,281,750	19,278,830	35,609,300	15,260,500	37,275,400	1,008,415,750
FY91	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
FY92	103,612,700	105,175,800	104,103,100	105,741,800	106,869,400	140,681,700	155,934,000	61,053,000	78,498,200	129,041,800	52,635,900	93,170,000	17,472,600	21,165,900	50,254,500	22,045,100	53,891,100	1,401,346,600
FY93	104,610,228	97,362,300	102,039,200	102,785,395	105,885,800	140,275,000	153,555,300	60,334,400	78,395,400	129,093,800	49,765,700	90,094,600	16,887,368	24,623,700	51,413,200	25,104,180	55,980,600	1,388,206,172
FY94	99,994,100	75,083,100	98,156,900	91,607,800	93,671,400	126,439,100	140,213,900	63,403,400	71,130,200	115,719,700	48,857,400	87,868,300	17,351,750	19,244,100	45,125,400	20,715,000	46,698,300	1,261,279,850
FY95	117,949,700	68,908,100	115,358,700	104,187,500	102,308,300	141,348,900	147,788,900	68,183,400	75,017,600	128,802,200	53,372,700	100,424,400	16,572,496	23,173,800	47,176,100	24,037,800	51,323,400	1,385,933,996
FY96	125,047,900	55,550,500	129,118,200	103,113,100	106,158,000	142,485,500	100,031,500	68,182,700	80,266,000	130,823,300	50,345,100	95,047,900	7,152,620	22,803,400	50,843,300	23,411,400	51,382,800	1,341,763,220
FY97	103,065,700	63,195,800	116,976,600	91,590,200	103,636,700	141,103,600	133,956,600	60,633,500	77,677,200	129,353,600	47,439,800	10,526,600	15,381,400	24,099,800	48,925,600	3,166,500	51,146,000	1,213,035,110

Table IV.F-3

Fiscal Year 1997 Treatment Center
Water Meter Totals
TGRS, TCAAP

TABLE IV.F-3

FISCAL YEAR 1997 TREATMENT CENTER WATER METER TOTALS
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Volume of Water Pumped (gallons)										
	Extraction Wells	*Meter 1*	*Meter 2*	*Total Meters 1 & 2*	*Meter 3*	*Meter 4*	*Total Meters 3 & 4*	*Meter 5*	*Meter 6*	*Total Meters 5 & 6*
October 1996	102,935,300	55,367,000	48,652,000	104,019,000	40,351,000	54,078,000	94,429,000	1,000	46,843,000	46,844,000
November 1996	110,615,400	59,754,000	52,115,000	111,869,000	45,389,000	55,928,000	101,317,000	1,000	50,432,000	50,433,000
December 1996	112,077,100	62,265,000	51,171,000	113,436,000	48,501,000	53,569,000	102,070,000	1,000	51,462,000	51,463,000
January 1997	102,306,200	58,998,000	47,779,000	106,777,000	48,242,000	47,278,000	95,520,000	2,000	48,822,000	48,824,000
February 1997	94,505,600	55,710,000	42,609,000	98,319,000	44,038,000	43,477,000	87,515,000	0	45,212,000	45,212,000
March 1997	105,497,300	59,639,000	49,550,000	109,189,000	49,486,000	47,918,000	97,404,000	1,000	50,614,000	50,615,000
April 1997	99,962,100	59,375,000	43,706,000	103,081,000	45,915,000	46,010,000	91,925,000	0	48,026,000	48,026,000
May 1997	97,160,010	58,125,000	48,464,000	106,589,000	38,718,000	53,892,000	92,610,000	0	47,982,000	47,982,000
June 1997	97,537,700	57,713,000	49,715,000	107,428,000	44,887,000	47,570,000	92,457,000	2,000	48,456,000	48,458,000
July 1997	84,251,800	45,717,000	41,145,600	86,862,600	31,316,000	45,818,000	77,134,000	2,000	39,953,000	39,955,000
August 1997	103,423,100	57,986,000	47,730,000	105,716,000	50,345,000	46,667,000	97,012,000	1,000	50,852,000	50,853,000
September 1997	102,763,500	57,663,000	46,168,000	103,831,000	51,437,000	44,310,000	95,747,000	2,000	50,246,000	50,248,000
TOTAL FY97	1,213,035,110	688,312,000	568,804,600	1,257,116,600	538,625,000	586,515,000	1,125,140,000	13,000	578,900,000	578,913,000

FY89	1,033,353,676	501,826,000	560,836,000	1,062,662,000	383,736,000	587,596,000	971,332,000	493,681,000	582,955,000	1,076,636,000
FY90	1,008,415,750	493,915,000	526,417,000	1,020,332,000	371,391,000	588,642,000	960,033,000	487,946,000	543,726,000	1,031,672,000
FY91	1,382,327,590	666,166,000	708,313,000	1,374,479,000	523,702,000	789,947,000	1,313,649,000	601,307,000	649,621,000	1,250,928,000
FY92	1,401,346,600	68,289,000	724,328,000	1,407,227,000	557,169,000	772,509,000	1,329,678,000	767,707,000	677,735,000	1,445,442,000
FY93	1,388,206,172	666,814,000	725,341,000	1,392,155,000	504,027,000	651,149,000	1,155,176,000	729,078,000	762,791,000	1,491,869,000
FY94	1,245,663,275	660,700,000	659,953,000	1,320,653,000	457,210,000	715,668,000	1,172,878,000	653,913,000	550,131,000	1,204,044,000
FY95	1,369,361,500	706,114,000	683,982,000	1,390,096,000	500,275,000	739,744,000	1,240,019,000	495,616,000	274,507,000	770,123,000
FY96	1,341,763,220	734,443,000	629,327,000	1,363,770,000	503,518,000	754,399,000	1,257,917,000	4,000	600,035,000	600,039,000
FY97	1,213,035,110	688,312,000	568,804,600	1,257,116,600	538,625,000	586,515,000	1,125,140,000	13,000	578,900,000	578,913,000

Table IV.F-4

Down Time Days
TGRS, TCAAP

TABLE IV.F-4

DOWN TIME DAYS
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Well Name	*FY97 Days Down*	*FY96 Days Down*	*FY95 Days Down*
B1	34.2	0.0	5.4
B2	29.9	13.2	4.8
B3	14.9	0.0	6.7
B4	4.1	0.0	6.6
B5	4.0	0.0	3.8
B6	4.0	0.0	3.2
B7	11.1	13.8	2.0
B8	9.3	0.0	2.8
B9	4.0	0.0	3.4
B10	11.6	0.0	2.5
B11	8.5	6.1	2.6
B12	5.0	0.0	3.1
SC1	11.5	102.5	0.2
SC2	5.0	4.0	1.8
SC3	7.7	0.4	0.5
SC4	5.2	0.4	0.9
SC5	5.0	0.4	0.5

Note:
Days down do not include down time resulting from automatic cycling off of well field.

Table IV.F-5

Fiscal Year 1997 Down Time (Days)
TGRS, TCAAP

TABLE IV.F-5

FISCAL YEAR 1997 DOWN TIME (DAYS)
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Category	*Down Time*	*Affected Wells/System*
Pumphouse Component	2.5	Pumphouses
Treatment Center Component	3.2	Pumphouses
TCAAP Electrical System	4.3	Pumphouses
Miscellaneous	0.3	Pumphouses
Preventive Maintenance	<0.1%	Pumphouses
System Modification	0	Pumphouses
Treatment Center or Forcemain Component	17.2	Treatment Center Systems

Anticipated Down Time for Fiscal Year 1998

Pumphouse Component	1.5	Pumphouses
Treatment Center Component	2.0	Pumphouses
TCAAP Electrical System	2.0	Pumphouses
Miscellaneous	0.3	Pumphouses
Preventative Maintenance	0.2	Pumphouses
System Modification/Improvement	2.0	Pumphouses
Treatment Center or Forcemain Component	5.0	Treatment Center Systems

Table IV.F-6

VOC Mass Loading Summary
TGRS, TCAAP

TABLE IV.F-6

VOC MASS LOADING SUMMARY
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Well	*% Contribution to VOC Mass Removal*	*FY 1997 Total Pounds VOC Mass Removed*
B1	3.3	204.9
B2	0.6	35.4
B3	0.4	24.2
B4	19.8	1,229.6
B5	29.6	1,838.2
B6	5.9	366.4
B7	0.0	0.7
B8	0.20	12.4
B9	2.0	124.2
B10	0.1	6.2
B11	0.0	1.2
B12	0.0	0.1
SC1	2.0	124.2
SC2	1.1	68.3
SC3	0.2	12.4
SC4	0.0	0.5
SC5	34.8	2,161.1
	FY 1997 Total	6,210.0
	Daily Average	17.0 lbs/day

HISTORICAL TOTAL

Fiscal Year		*Pounds VOC Mass Removed*
1997		6,210
1996		10,655
1995		13,355
1994		15,070
1993		20,165
1992		24,527
1991		26,760
1990		18,005
1989	(First year of full scale system)	19,510
1988		4,800
1987		2,100
Total		161,157

Table IV.F-7

Fiscal Year 1995 - Fiscal Year 1997
VOC Concentrations in TGRS Extraction Wells
TGRS, TCAAP

TABLE IV.F-7

FISCAL YEAR 1995 THROUGH 1997 VOC CONCENTRATIONS IN TGRS EXTRACTION WELLS
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTTE	TRCLE
03F302	3/14/95	15	< 10	< 10	< 7.8	13	< 5	< 10		< 19	< 13	< 32	< 7.2	< 3 TD	< 10	< 10	400
(B-1)	3/14/95	15 D	< 10 D	< 10 D	4.1 1D	14 D	< 5 D	< 10 D		< 19 D	< 13 D	< 32 D	< 7.2 D	< 180 T	< 10 D	< 10 D	390 D
	9/11/95	19 1	< 20	< 20	< 16	8.9 1	< 10	< 20		< 38	< 26	< 64	< 14	< 180 TD	< 20	< 20	360
	9/11/95	17 1D	< 20 D	< 20 D	< 16 D	8.9 1D	< 10 D	< 20 D		< 38 D	< 26 D	< 64 D	< 14 D		< 20 D	< 20 D	360 D
	6/6/96	13.7	< 0.78	< 1.7	2.8	12.2	< 1.1	< 1		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75 J	< 1	320
	9/10/96	16.8	< 0.78	3.85	3.71	19.1	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		1.75	< 1 T	380
	12/11/96	17.2	< 0.78	2.25	3.15	14	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		1.1	< 1 T	340
	6/9/97	12.9	< 0.78	2.7	3.03	10.6	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		1.76	< 1 T	260
03F303	3/14/95	33	< 5	8.6	5.2	3.5	< 2.5	< 5		< 9.5	< 6.5	< 16	< 3.6	< 1.5 T	3.8 1	< 5	120
(B-2)	9/11/95	36	< 5	8.1	4.5	3.2	< 2.5	< 5		< 9.5	< 6.5	< 16	< 3.6	< 44 T	5 1	< 5	140
	6/6/96	23.1	3.81	6.87	5.74	2.42	< 1.1	< 1		< 1.01	< 0.99	< 7.4	< 0.5		2.08 J	< 1	106
	9/10/96	24.7	< 0.78	12.6	7.24	6.57	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		4.75	< 1 T	135
	12/11/96	16.1	4.53	7.53	5.28	5.38	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	0.773		3.41	< 1 T	87.9
	6/9/97	9.57	< 0.78	4.16	3.26	3.12	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		2.42	< 1 T	61.5
03F304	3/14/95	17.9	0.641 1	4.92	3.76	0.417 1	< 0.5	< 1		< 1.9	< 1.3		< 0.72	< 0.3 T	< 1	< 1	19.5
(B-3)	9/11/95	19.3	< 1	6.28	4.06	0.571	< 0.5	< 1		< 1.9	< 1.3		< 0.72	< 8.82 T	< 1	< 1	27.4
	6/6/96	12.9	< 0.78	2.51	3.27	< 0.76	< 1.1	< 1		< 1.01	< 0.99		< 0.5		< 0.75 J	< 1	20.1
	9/10/96	13.8	< 0.78	5.85	4.09	1.44	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	27.1
	12/11/96	12.9	1.16	3.6	2.92	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	22
	6/9/97	8.92	< 0.78	4.04	2.92	1.08	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	18.7
03F305	3/14/95	620	< 50	130	150	< 25	< 25	< 50		< 95	< 65	< 160	< 36	< 15 T	< 50	< 50	1900
(B-4)	9/11/95	590	< 100	110 1	120	62	< 50	< 100		< 190	< 130	< 320	< 72	< 880 T	< 100	< 100	2300
	6/6/96	340	< 0.78	106	136	79	6.16	< 1		< 1.01	< 0.99	< 7.4	7.31		< 0.75 J	< 1	1400
	9/10/96	400	< 0.78	142	154	129	4.2	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	2100
	12/11/96	430	< 0.78	124	146	118	3.9	< 1 T		< 1.01	< 0.99	< 7.4	5.34		< 0.75	< 1 T	1800
	6/9/97	330	< 0.78	87.6	112	72	4.02	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		1.65	< 1 T	1500
	6/9/97	350 D	< 0.78 D	87.6 D	112 D	73.1 D	3.78 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		1.65 D	< 1 DT	1800 D
03F306	3/14/95	670	< 100	130	57 1	< 50	< 50	< 100		< 190	< 130	< 320	< 72	< 30 T	< 100	< 100	3400
(B-5)	9/11/95	620	< 50	110	63	< 25	< 25	< 50		< 95	< 65	< 160	< 36	< 15 T	< 50	< 50	4300
	6/6/96	370	< 0.78	98.2	78.3	13.8	1.41	< 1		< 1.01	< 0.99	< 7.4	1.02		1.09 J	7.25 Z	3100
	9/10/96	400	< 0.78	137	95.4	22.5	1.93	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		2.68	7.08 Z	3700
	12/11/96	410	< 0.78	108	88.8	17.2	2.32	< 1 T		< 1.01	< 0.99	< 7.4	1.48		2.2	7.1 Z	3100 JX
	6/9/97	210 D	< 0.78	62.9	69.7	10.4	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		4.84	< 1 T	2400
03F307	3/14/95	93	< 20	30	30	< 10	< 10	< 20		< 38	< 26	< 64	< 14	< 6 T	< 20	< 20	770
(B-6)	9/11/95	65	< 1	23.1	26.7	4.43	0.775	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 8.82 T	1.19	< 1	840
	6/6/96	41.9	< 0.78	20.2	26.2	8.13	< 1.1	< 1		< 1.01 I	< 0.99	< 7.4	< 0.5		< 0.75	1.21 Z	670
	9/10/96	40.1	< 0.78	24.4	28.4	8.33	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	1.28 Z	640
	12/11/96	41.9	5.35	20.2	27	6.13	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	600
	6/9/97	32.3	< 0.78	8.76	9.89	4.62	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	198

TABLE IV.F-7

FISCAL YEAR 1995 THROUGH 1997 VOC CONCENTRATIONS IN TGRS EXTRACTION WELLS
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLITE	TRCLE
03F308	3/14/95	0.585 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	3.18
(B-7)	9/11/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	3.56
	6/6/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1		< 1.01 I	< 0.99	< 7.4	< 0.5		< 0.75	< 1	3.04
	9/10/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	2.93
	12/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	1.87
	6/9/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	1.32
PJ#309	3/14/95	7.17	< 1	2.09	2.93	0.704	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	49
(B-8)	9/11/95	6.44	< 1	1.9	2.47	0.656	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72		< 1	< 1	56
	6/6/96	4.56	< 0.78	< 1.7	1.96	< 0.76	< 1.1	< 1		< 1.01 I	< 0.99	< 7.4	< 0.5		< 0.75	< 1	43.4
	9/10/96	4.45	< 0.78	1.94	2.42	1.13	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	49.8
	9/10/96	4.22 D	< 0.78 D	< 1.7 D	2.28 D	0.897 D	< 1.1 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	49.6
	12/11/96	3.76	< 0.78	< 1.7	1.24	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	42.9
	6/9/97	3.12	< 0.78	< 1.7	1.06	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	27.5
PJ#310	3/14/95	77	< 10	18	15	3.6 1	< 5	< 10		< 19	< 13	< 32	< 7.2	< 180 T	< 10	< 10	330
(B-9)	9/11/95	78	< 20	16 1	< 16	< 10	< 10	< 20		< 38	< 26	< 64	< 14		< 20	< 20	340
	6/6/96	41	< 0.78	11	9.27	3.51	< 1.1	< 1		< 1.01 I	< 0.99	< 7.4	< 0.5		< 0.75	< 1	290
	9/10/96	44.5	< 0.78	17.2	10.7	4.73	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	290
	12/11/96	44.1	4.65	11.2	10.4	5.59	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	240
	6/9/97	24.7	< 0.78	13.5	21.3	6.77	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	190
PJ#311	3/14/95	2.29	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	13.7
(B-10)	9/11/95	2.99	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72		< 1	< 1	14.7
	6/6/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1		< 1.01 I	< 0.99	< 7.4	< 0.5		< 0.75	< 1	10.9
	9/10/96	1.41	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	14.6
	12/11/97	0.978	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	14.3
	12/11/97	0.957 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	14.3 D
	6/9/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	7.8
03F312	3/14/95	< 1	1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	8.2
(B-11)	9/11/95	< 1	1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 8.82 T	< 1	< 1	9.46
	6/6/96	< 0.76	0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75 J	< 1	4.05
	6/6/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 D		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 DJ	< 1 D	3.96 D
	9/10/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	7.47
	12/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	9.23
	12/11/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	7.03 D
	6/9/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	4.62
PJ#313	3/14/95	0.529 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	2.51
(B-12)	9/11/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 TD	< 1	< 1	2.61
	9/11/95	< 1 D	< 1 D	< 1 D	< 0.78 D	< 0.5 D	< 0.5 D	< 1 D		< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D		< 1 D	< 1 D	2.61 D
	6/6/96	< 0.76	< 0.78	< 1.7 J	< 0.73	< 0.76	< 1.1	< 1		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1	2.7 MIH
	9/10/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	2.25
	12/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	0.868
	6/9/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56

TABLE IV.F-7

FISCAL YEAR 1995 THROUGH 1997 VOC CONCENTRATIONS IN TGRS EXTRACTION WELLS
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE
03U301	3/14/95	26	< 25	< 25	< 20	65	< 13	< 25		< 48	< 33	< 80	< 18	< 7.5 T	< 25	< 25	780
(SC-1)	9/11/95	< 50	< 50	< 50	< 39	71	< 25	< 50		< 95	< 65	< 160	< 36	< 440 T	< 50	< 50	1300
	6/12/96	45.7	< 0.78	4.36 J	1.35	108	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	1200
	12/11/96	41.9	1.4	3.6	1.8	161	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	8.41		1.54	< 1 T	1500
	6/9/97	26.9	< 0.78	3.26	1.57	74.2	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		1.32	< 1 T	1100
	6/9/97	26.9 D	< 0.78 D	2.58 D	1.24 D	77.4 D	< 1.1 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		1.04 D	< 1 DT	910 D
03U314	3/14/95	250	< 20	35	27	7.2 1	< 10	< 20		< 38	< 26	< 64	< 14	< 6 T	< 20	< 20	670
(SC-2)	9/11/95	270	< 20	37	13 1	< 10	< 10	< 20		< 38	< 26	< 7.4	< 14	< 180 T	< 20	< 20	600
	6/6/96	131	< 0.78	21.1 J	16.9	5.84	< 1.1	< 1		< 1.01	< 0.99		< 0.5		< 0.75	< 1	500 MIH
	9/10/96	199	< 0.78	32.4	13.3	6.52	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	470
	9/10/96	203 D	< 0.78 D	32.8 D	12.5 D	4.63 D	< 1.1 D	< 1 DT		< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	470 D
	12/11/96	204	< 0.78	22.5	12.4	8.28	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	440
	6/9/97	100	< 0.78	11.2	9.21	3.87	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	240
03U315	3/14/95	18.1	< 1	2.52	1.12	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	41.6
(SC-3)	9/11/95	21.2	< 1	3.19	0.659 1	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	< 0.72	< 8.82 T	< 1	< 1	51.3
	6/6/96	14.8	< 0.78	2.27 J	< 0.73	< 0.76	< 1.1	< 1		< 1.01	< 0.99	< 7.4	0.625		< 0.75	< 1	43.3 MIH
	9/10/96	14.2	< 0.78	2.2	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	0.765		< 0.75	< 1 T	38
	12/11/96	11.8	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	30.8
	6/9/97	8.82	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	20.9
03U316	3/14/95	7.64	< 1	1.57	1.46	< 0.5	< 0.5	< 1		< 1.9	< 1.3	< 3.2	1.51	< 0.3 TD	< 1	< 1	14.4
(SC-4)	3/14/95	6.91 D	< 1 D	1.26 D	1.25 D	< 0.5 D	< 0.5 D	< 1 D		< 1.9 D	< 1.3 D	< 3.2 D	1.3 D	< 0.3 T	< 1 D	< 1 D	12.4 D
	9/11/95	9.92	< 1	1.92	1.38	0.294 1	< 0.5	< 1		< 1.9	< 1.3	< 3.2	1.39		< 1	< 1	19.4
	6/6/96	6.52	< 0.78	< 1.7 J	1.19	< 0.76	< 1.1	< 1		< 1.01	< 0.99	< 7.4	1.39		< 0.75	< 1	19.7 MIH
	6/6/96	6.67 D	< 0.78 D	< 1.7 DJ	1.16 D	< 0.76 D	< 1.1 D	< 1 D		< 1.01 D	< 0.99 D	< 7.4 D	1.47 D		< 0.75 D	< 1 D	23 DMIH
	9/10/96	7.71	< 0.78	< 1.7	1.27	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	1.53		< 0.75	< 1 T	24.4
	12/11/96	4.09	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	0.625		< 0.75	< 1 T	28.6
	6/9/97	3.55	< 0.78	< 1.7	0.899	< 0.76	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	0.625		< 0.75	< 1 T	24.2
03U317	3/14/95	2300	< 200	120 1	< 160	< 100	< 100	< 200		< 380	< 260	< 640	< 140		< 200		6700
(SC-5)	9/11/95	2800	< 10	33	40	6	8.6	< 10		< 19	< 13	< 32	< 7.2		25		8400
	6/6/96	1800	< 0.78	94.9 J	35.7	6.02	3.07	< 1		< 1.01	< 0.99	< 7.4	1.45		16.3		7400 MIH
	9/10/96	2200	< 0.78	145	39.3	6.62	2.55	< 1 T		< 1.01	< 0.99	< 7.4	1.34		15.5		8000
	12/11/96	2200	< 0.78	62.9	38.2	6.77	5.49	< 1 T		< 1.01	< 0.99	< 7.4	1.36		15.4	40 Z	6800 JX
	6/9/97	1200	< 0.78	78.7	28.1	4.84	< 1.1	< 1 T		< 1.01	< 0.99	< 7.4	< 0.5		9.34	15 Z	4700

Notes:
Units in µg/L
1 - Results less than Certified Reporting Limit but greater than Criteria of Detection
D - Duplicate analysis
H - Data is rejected
I - The low spike recovery is high
J - Value is estimated
M - The high spike recovery is high
T - Non-target compound analyzed for but not detected (non-GC/MS methods)
X - Analyte concentration is above the upper reporting level
Z - Non-target compound analyzed for and detected (non-GC/MS methods)

Table IV.F-8

Fiscal Year 1997 TGRS Treatment System Analytical Summary TGRS, TCAAP

TABLE IV.F-8

FISCAL YEAR 1997 TGRS TREATMENT SYSTEM ANALYTICAL SUMMARY
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

ARAR* / Site ID	Sample Date	111TCE 200.0	112TCE	11DCE 6.0	11DCLE 70.0	12DCE 70.0 (1)	12DCLE 4.0	12DCLP	C2H3CL	CCL4	CH2CL2	CHCL3	TCLEE 5.0	TCLTFE	TRCLE 5.0
TGRSI	10/11/96	126	< 0.78	24	18.4	11.3	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	0.951	2.13 Z	630
TGRSI	11/11/96	129	< 0.78	25.8	21.3	15.1	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	0.934	1.4 Z	670
TGRSI	12/3/96	140	< 0.78	28.1	22.5	16.1	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	1.1	1.5 Z	760
TGRSI	1/7/97	153	< 0.78	27	22.5	15.1	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	1.1	1.5 Z	710
TGRSI	2/4/97	140	< 0.78	24.7	22.5	15.1	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	0.846	1.3 Z	660
TGRSI	3/3/97	128	< 0.78	15.1 E	20.8	11.9	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	0.633	< 0.75	1.11 Z	630
TGRSI	4/1/97	154	< 0.78	26.9	25.4	3.42	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	1.38	2.19 Z	730
TGRSI	5/6/97	93 V	< 0.78 V	17.4 V	16.6 V	8.23 V	< 1.1 V	< 1 TV	< 1.01 V	< 0.99 V	8.66 V	< 0.5 V	< 0.75 V	< 1 TV	340 V
TGRSI	6/3/97	108	< 0.78	18	18	10.2	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	2.64	3.7 Z	450
TGRSI	7/1/97	36.6	< 0.78	10.3	11.1	5.05	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	165
TGRSI	9/2/97	111	< 0.78	16.4	17.2	8.9	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	1.32 Z	530
TGRSE	10/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	0.912
TGRSE	10/11/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	< 0.56 D
TGRSE	11/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
TGRSE	11/11/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	< 0.56 D
TGRSE	12/3/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
TGRSE	12/3/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	< 0.56 D
TGRSE	1/7/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	1.32
TGRSE	1/7/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	0.857 D
TGRSE	2/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
TGRSE	2/4/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	< 0.56 D
TGRSE	3/3/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
TGRSE	3/3/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	< 0.56 D
TGRSE	4/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	1.48
TGRSE	4/1/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	< 0.56 D
TGRSE	5/6/97	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 TV	< 1.01 V	< 0.99 V	< 7.4 V	< 0.5 V	< 0.75 V	< 1 TV	< 0.56 V
TGRSE	5/6/97	< 0.76 DV	< 0.78 DV	< 1.7 DV	< 0.73 DV	< 0.76 DV	< 1.1 DV	< 1 DTV	< 1.01 DV	< 0.99 DV	8.48 DV	< 0.5 DV	< 0.75 DV	< 1 DTV	< 0.56 DV
TGRSE	6/3/97	< 1	< 1	< 1	< 1	< 5	< 1	< 1	< 12	< 1	< 1	< 1	< 1	< 1 T	< 1
TGRSE	6/3/97	< 1 D	< 1 D	< 1 D	< 1 D	< 5 D	< 1 D	< 1 D	< 12 D	< 1 D	< 1 D	< 1 D	< 1 D	< 1 DT	< 1 D
TGRSE	7/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 TD	< 0.56
TGRSE	7/1/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 T	< 0.56 D
TGRSE	9/2/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75		< 0.56
TGRSE	9/2/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D		< 0.56 D

Notes:
Units in µg/L
* - ARARs (Applicable or Relevant and Appropriate Regulation)
From Table 2.5, TCAAP OU-2 Feasibility Study, March 1997.
(1) - ARAR of 70 is for cis- 1,2-dichloroethene
D - Duplicate analysis
E - The low spike recovery is low
T - Non-target compound analyzed for but not detected (non-GC/MS methods)
V - Sample subjected to unusual storage/preservation conditions

Table IV.F-9

Historical Treatment System
Metals and Cyanide Concentrations
TGRS, TCAAP

TABLE IV.F-9

HISTORICAL TREATMENT SYSTEM METALS AND CYANIDE CONCENTRATIONS
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	Antimony	Arsenic	Barrium	Cadmium	Cobalt	Chromium	Copper	Cyanide	Mercury	Magnesium	Manganese	Molybdenum
TGRSE	1/3/95		< 3		< 5		< 15 I	< 20 J		< 0.74			
TGRSE	2/7/95		< 3		< 5		< 15	< 20		< 0.74			
TGRSE	3/14/95	< 37.1	< 4	94.8	< 5	< 25	< 15	< 20		< 0.74	27200	174	
TGRSE	4/10/95		< 4		< 5		< 15	< 20		< 0.74			
TGRSE	5/2/95		< 4		< 5		< 15			< 0.74			
TGRSE	6/6/95	< 5	< 4		< 5	< 1	< 15			< 0.74		< 5.11	
TGRSE	7/6/95		< 4		< 5		< 15			< 0.74			
TGRSE	7/6/95									< 0.74 D			
TGRSE	8/1/95		< 4		< 5		< 15			< 0.74 ?			
TGRSE	9/5/95	< 5											
TGRSE	9/11/95		< 4		< 5	< 1	< 15			< 0.74		401	
TGRSE	10/3/95		< 4		< 5		< 15						
TGRSE	11/7/95		< 4		< 5		< 15			< 0.74			
TGRSE	12/5/95	< 5	< 4		< 5	< 1	< 15			< 0.74		1810	
TGRSE	1/2/96		< 5		< 5		< 15			< 0.74 ?			
TGRSE	2/6/96		< 4		< 5 ?		< 15			< 0.74 ?			
TGRSE	3/5/96	< 5	< 5		< 5 ?	< 1	< 15 ?			< 0.74 ?		251 ?	
TGRSE	4/2/96		< 4		< 5 ?		< 15 ?			< 0.74 ?			
TGRSE	5/7/96		< 4		< 5 ?		< 15 ?			< 0.74 ?			
TGRSE	6/4/96	< 10 V	< 2.35 V	93.2	< 6.78	< 25 I	< 16.8	< 18.8		< 0.1 V	25500	903	
TGRSE	7/2/96		< 2.35		< 6.78		< 16.8			< 0.1			
TGRSE	8/9/96		< 2.35		< 6.78		< 16.8			< 0.1			
TGRSE	9/3/96	< 6	< 2.35		< 6.78	< 25	< 16.8			< 0.1		417	
TGRSE	10/11/96		< 2.35 VI		< 6.78		< 16.8			< 0.1 V			
TGRSE	11/11/96		< 2.35		< 6.78		< 16.8			< 0.1			
TGRSE	12/3/96	< 6	< 2.35		< 6.78	< 25	< 16.8			< 0.1		1260	
TGRSE	1/7/97		< 2.35		< 6.78		< 16.8			< 0.1			
TGRSE	2/4/97				< 6.78		< 16.8						
TGRSE	3/3/97	< 6	< 2.35		< 6.78	< 25	< 16.8			< 0.1		228	
TGRSE	4/1/97		< 2.35 U		< 6.78		< 16.8			< 0.1			
TGRSE	5/6/97		< 2.35 V		< 6.78 V		< 16.8 V			< 0.1 V			
TGRSE	6/3/97	< 6	6.32	375	< 6.78	< 25	< 16.8	60.5		< 0.1	25800	16000	
TGRSE	7/1/97		< 2.35		< 6.78		< 16.8			< 0.1			
TGRSE	9/2/97	< 6	< 2.35		< 6.78 ?	< 25 ?	< 16.8 ?			< 0.1		267 ?	

TABLE IV.F-9

HISTORICAL TREATMENT SYSTEM METALS AND CYANIDE CONCENTRATIONS
TGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	Nickel	Lead	Selenium	Silver	Vanadium	Zinc
TGRSE	1/3/95	< 5	< 4				16.3 B
TGRSE	2/7/95	5.09	< 4				< 13
TGRSE	3/14/95	< 5	< 5	< 4	< 12.5	< 20	< 13
TGRSE	4/10/95	< 5	< 5				0 14.2
TGRSE	5/2/95	< 5	< 3				0 16.3
TGRSE	6/6/95	< 5	< 3				0 13.2
TGRSE	7/6/95	< 5	< 3				< 13
TGRSE	7/6/95						
TGRSE	8/1/95	< 5	< 3				< 13 I
TGRSE	9/5/95						
TGRSE	9/11/95	< 5	< 3				< 13
TGRSE	10/3/95		< 3				< 13
TGRSE	11/7/95	< 5	< 3				13.2
TGRSE	12/5/95	< 5	< 3				19.3
TGRSE	1/2/96	< 5	< 3				41.7
TGRSE	2/6/96	< 5					25.4 ?
TGRSE	3/5/96	< 5	< 3				49.8 ?
TGRSE	4/2/96	< 5	< 3				13.2 ?
TGRSE	5/7/96	< 5	< 3				30.5 ?
TGRSE	6/4/96	< 32.1 I	< 4.47 VMI	< 2.53 V	< 0.333 VI	< 27.6	< 18
TGRSE	7/2/96	< 32.1	< 4.47				< 18
TGRSE	8/9/96	< 32.1	< 4.47				< 18
TGRSE	9/3/96	< 32.1	< 4.47				< 18
TGRSE	10/11/96	< 32.1	< 4.47 V				21.4
TGRSE	11/11/96	< 32.1	< 4.47				< 18
TGRSE	12/3/96	< 32.1	9.38				27.9
TGRSE	1/7/97	< 32.1	< 4.47				40.8 I
TGRSE	2/4/97	< 32.1					< 18
TGRSE	3/3/97	< 32.1	< 4.47				< 18
TGRSE	4/1/97	< 32.1	< 4.47 U				60.3 H
TGRSE	5/6/97	< 32.1 V	< 4.47 V				< 18 V
TGRSE	6/3/97	38.8	6.05	< 2.53	< 10	< 27.6	131
TGRSE	7/1/97	< 32.1	< 4.47				< 18
TGRSE	9/2/97	< 32.1 ?	< 4.47				< 18 ?

Notes:
Units in µg/L
? Control charts not yet approved by USAEC
D - Duplicate analysis
H - Data is rejected
I - The low spike recovery is high
J - Value is estimated
M - The high spike recovery is high
V - Sample subjected to un[illegible]orage/preservation conditions

Table IV.F-10

Summary of OU2 Deep Groundwater Monitoring Requirements

Table IV.F-10

Summary of OU2 Deep Groundwater Monitoring Requirements

Remedy Component	Monitoring Requirements	Responsible Party	Documents Containing the Monitoring Plan
#1 Hydraulic Containment and Mass Removal	a. Water levels to draw contour maps showing hydraulic zone of capture	Alliant/Army	Deep groundwater monitoring plan in Annual Report
	b. Pumping volumes and rates for comparison to design rates	Alliant/Army	Deep groundwater monitoring plan in Annual Report
	c. Influent and extraction well water quality for overall mass removal calculations	Alliant/Army	Deep groundwater monitoring plan in Annual Report
#2 Groundwater Treatment	• Outlined below	Alliant/Army	Deep groundwater monitoring plan in Annual Report
#3 Treated Water Discharge	• Effluent monitoring to verify attainment of treatment requirements	Alliant/Army	Deep groundwater monitoring plan in Annual Report
#4 Institutional Controls	• None	Alliant/Army	Deep groundwater monitoring plan in Annual Report
#5 Review of New Technologies	• None	Alliant/Army	Deep groundwater monitoring plan in Annual Report
#6 Groundwater Monitoring	• As above	Alliant/Army	Deep groundwater monitoring plan in Annual Report
Overall Remedy	a. Groundwater quality to verify attainment of clean up goals	Alliant/Army	Deep groundwater monitoring plan in Annual Report

Table V-1

Hydraulic Vertical Gradients
PGRS, TCAAP

HYDRAULIC VERTICAL GRADIENTS
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*3/30/94*	*3/31/94*	*4/10/94*	*4/17/94*	*4/18/94 (AM)*	*4/18/94 (noon)*	*4/18/94 (PM)*	*4/19/94*	*4/20/94*	*4/21/94*	*4/22/94*
03U673 <---> 03L673	-0.032	-0.034	-0.034	-0.034	-0.027	-0.028	-0.031	-0.035	-0.032	-0.034	-0.034
03L673 <---> 04U673	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002
03U832 <---> 03L832	-0.002	-0.002	-0.001	-0.001	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.002
03L832 <---> 04U832	-0.002	-0.002	-0.002	0.005	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001
03L841 <---> 04U841	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.003	0.002	0.002
03L846 <---> 04U846				-0.003	-0.004	-0.009	-0.010	-0.011	-0.005	-0.005	-0.005
03M848 <---> 03L848	0.012	0.011	0.011	0.011	0.012	0.012	0.011	0.010	0.010	0.010	0.011
03L848 <---> 04U848	0.011	0.010	0.011	0.010	0.012	0.012	0.011	0.011	0.011	0.010	0.010
03L854 <---> 04U854	-0.036	-0.036	-0.033	-0.032	-0.034	-0.034	-0.036	-0.036	-0.034	-0.034	-0.034
03L859 <---> 04U859	0.032	0.030	0.031	0.030	0.033	0.033	0.032	0.030	0.031	0.036	0.029
03L860 <---> 04U860	-0.038	-0.039	-0.036	-0.035	-0.037	-0.037	-0.038	-0.039	-0.037	-0.036	-0.037
03L861 <---> 04U861	-0.020	-0.022	-0.019	-0.018	-0.020	-0.020	-0.021	-0.021	-0.020	-0.019	-0.020
04U864 <---> 04J864	-0.047	-0.046	-0.044	-0.038	-0.036	-0.026	-0.026	-0.029	-0.036	-0.044	-0.047
04U866 <---> 04J866	-0.036	-0.034	-0.032	-0.026	-0.025	-0.012	-0.012	-0.016	-0.024	-0.033	-0.033
PCA1L3 <---> PCA1U4		-0.018	-0.016	-0.016	-0.016	-0.017	-0.017	-0.017	-0.017	-0.017	-0.017
PCA2L3 <---> PCA2U4		-0.012	-0.011	-0.010	-0.011	-0.012	-0.013	-0.012	-0.010	-0.011	-0.011

Notes:
Negative sign denotes vertical downward gradient.

TABLE V-1

HYDRAULIC VERTICAL GRADIENTS
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*4/25/94*	*4/26/94*	*4/28/94*	*4/29/94*	*5/2/94 11:45 AM*	*5/9/94 10:20 AM*	*5/16/94 11:30 AM*	*5/23/94*	*6/20/94 11:45 AM*	*7/19/94 2:30 PM*
03U673 <---> 03L673	-0.039	-0.041	-0.034	-0.035	-0.035	-0.039	-0.038	-0.041	-0.043	-0.024
03L673 <---> 04U673	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-0.005
03U832 <---> 03L832	-0.002	-0.002	-0.003	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	-0.003
03L832 <---> 04U832	-0.002	-0.002	-0.002	-0.001	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002
03L841 <---> 04U841	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.002
03L846 <---> 04U846	-0.006	-0.009	-0.012	-0.006	-0.006	-0.008	-0.010	-0.011	-0.012	-0.011
03M848 <---> 03L848	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.008	0.012
03L848 <---> 04U848	0.010	0.009	0.011	0.010	0.010	0.009	0.010	0.010	0.011	0.015
03L854 <---> 04U854	-0.037	-0.039	-0.036	-0.034	-0.033	-0.037	-0.039	-0.042	-0.045	-0.046
03L859 <---> 04U859	0.029	0.029	0.030	0.030	0.029	0.029	0.030	0.029	0.030	0.039
03L860 <---> 04U860	-0.039	-0.042	-0.038	-0.037	-0.036	-0.040	-0.041	-0.046	-0.047	-0.049
03L861 <---> 04U861	-0.022	-0.024	-0.021	-0.020	-0.019	-0.022	-0.022	-0.026	-0.027	-0.027
04U864 <---> 04J864	-0.046	-0.043	-0.029	-0.033	-0.043	-0.034	-0.034	-0.042	-0.042	-0.035
04U866 <---> 04J866	-0.034	-0.022	-0.014	-0.020	-0.030	-0.022	-0.023	-0.028	-0.027	-0.021
PCA1L3 <---> PCA1U4	-0.018	-0.019	-0.017	-0.017	-0.017	-0.019	-0.019	-0.021	-0.022	-0.021
PCA2L3 <---> PCA2U4	-0.012	-0.013	-0.013	-0.012	-0.011	-0.012	-0.013	-0.013	-0.013	-0.014

Notes:
Negative sign denotes vertical downward gradient.

TABLE V-1

HYDRAULIC VERTICAL GRADIENTS
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*10/10/94*	*1/27/95*	*3/6/95*	*6/21/95 8:00 A.M.*	*9/5/95*	*12/14/95*	*3/5/96*	*5/28/96*	*9/16/96*	*12/3/96*	*5/30/97*
03U673 <---> 03L673	-0.030	-0.042	-0.042	-0.030	-0.043	-0.043	-0.037	-0.036	-0.053	-0.042	-0.048
03L673 <---> 04U673	0.003	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
03U832 <---> 03L832	-0.002	-0.002	0.004	-0.003	-0.003	-0.002	-0.002	0.004	-0.003	-0.002	-0.002
03L832 <---> 04U832	-0.002	-0.002	-0.005	-0.003	-0.002	-0.002	-0.002	-0.010	-0.002	-0.002	-0.002
03L841 <---> 04U841	0.003	0.001	0.001	0.003	0.002	0.001	0.002	0.002	0.001	0.002	0.001
03L846 <---> 04U846	-0.008	-0.007	-0.007	-0.014	-0.010	-0.009	-0.009	-0.015	-0.012	-0.011	-0.009
03M848 <---> 03L848	0.013	0.010		0.012	0.026	0.010		0.010	0.010		0.010
03L848 <---> 04U848	0.014	0.011		0.013	0.000	0.010		0.010	0.010		0.011
03L854 <---> 04U854	-0.040	-0.039	-0.039	-0.044	-0.041	-0.040	-0.038	-0.039	-0.045	-0.037	-0.044
03L859 <---> 04U859	0.037	0.031	0.030	0.037	0.031	0.031	0.032	0.030	0.033	0.035	0.034
03L860 <---> 04U860	-0.043	-0.043	-0.042	-0.047	-0.044	-0.043	-0.042	-0.042	-0.050	-0.040	-0.049
03L861 <---> 04U861	-0.022	-0.023	-0.023	-0.026	-0.024	-0.024	-0.023	-0.024	-0.026	-0.021	-0.026
04U864 <---> 04J864	-0.040	-0.028	-0.029	-0.048	-0.042	-0.022	-0.024	-0.037	-0.040	-0.025	-0.035
04U866 <---> 04J866	-0.026	-0.016	-0.017	-0.032	-0.027	-0.006	-0.010	-0.020	-0.020	-0.009	-0.005
PCA1L3 <---> PCA1U4	-0.018	-0.019	-0.019	-0.020	-0.020	-0.020	-0.019	-0.020	-0.022	-0.018	-0.021
PCA2L3 <---> PCA2U4	-0.013	-0.013	-0.012	-0.015	-0.013	-0.013	-0.014	-0.015	-0.014	-0.014	-0.014

Notes:
Negative sign denotes vertical downward gradient.

Table V-2

Fiscal Year 1997 Treatment System Analytical Summary, PGRS, TCAAP

TABLE V-2

FISCAL YEAR 1997 TREATMENT SYSTEM ANALYTICAL SUMMARY
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

ARAR* / Site ID	Sample Date	111TCE 200.0	112TCE 3.0	11DCE 6.0	11DCLE 70.0	12DCE 70.0 (1)	12DCLE	12DCLP	C2H3CL	CCL4	CH2CL2	CHCL3	TCLEE	TCLTFE	TRCLE 5.0
NB13E	10/1/96	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 VT	< 1.01 V	< 0.99 V	< 7.4 V	< 0.5 V	< 0.75 V	< 1 VT	< 0.56 V
NB13E	11/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13E	12/3/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13E	12/3/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 TD	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 TD	< 0.56 D
NB13E	1/7/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13E	2/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13E	3/3/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13E	4/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01 P	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13E	5/6/97	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 TV	< 1.01 V	< 0.99 V	10.3 V	< 0.5 V	< 0.75 V	< 1 TV	< 0.56 V
NB13E	6/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13E	7/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13E	9/2/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	< 0.56
NB13I	10/1/96	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 VT	< 1.01 V	< 0.99 V	< 7.4 V	< 0.5 V	< 0.75 V	< 1 VT	7.23 V
NB13I	11/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	7.69
NB13I	11/11/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 TD	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 TD	6.81 D
NB13I	12/3/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	7.14
NB13I	1/7/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	6.04
NB13I	2/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	4.07
NB13I	2/4/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	4.29 D
NB13I	3/3/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	3.15
NB13I	3/3/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 TD	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 TD	3.01 D
NB13I	4/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01 P	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	3.62
NB13I	5/6/97	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 TV	< 1.01 V	< 0.99 V	< 7.4 V	< 0.5 V	< 0.75 V	< 1 TV	2.96 V
NB13I	6/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	2.09
NB13I	6/4/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D	< 0.75 D	< 1 DT	2.09 D
NB13I	7/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	1.87
NB13I	9/2/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5	< 0.75	< 1 T	1.08

Notes:
Units in µg/L
* - ARARs (Applicable or Relevant and Appropriate Regulation)
From Table 2.2, TCAAP OU-3 Feasibility Study, July 1992
(1) - ARAR of 70 is for cis- 1,2-dichloroethene
D - Duplicate analysis
J - Value is estimated
P - High spike recoveries excessively different
V - Sample subjected to unusual storage/preservation conditions

Table V-3

Historical Treatment System
VOC Concentrations, PGRS, TCAAP

TABLE V-3

HISTORICAL TREATMENT SYSTEM VOC CONCENTRATIONS
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE
NB13E	1/3/95	2.11	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	2/10/95	< 1	< 1	< 1	< 0.78	< 0.5	0.871	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	3/7/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	4/4/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	5/2/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	6/6/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1 I	< 1	< 0.5
NB13E	7/6/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	8/1/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	9/5/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	10/3/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	11/7/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	12/5/95	< 1	< 1	< 1	< 0.78	< 0.5	< 0.5	< 1	< 1.9	< 1.3	1.67 1	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	1/5/96	< 1	< 1	< 1	< 0.78	< 0.5 I	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	< 0.5
NB13E	2/6/96	< 1 ?	< 1 ?	< 1 ?	< 0.78 ?	< 0.5 ?	< 0.5 ?	< 1 ?	< 1.9 ?	< 1.3 ?	< 3.2 ?	< 0.72 ?	< 0.3 T?	< 1 ?	< 1 ?	< 0.5 ?
NB13E	3/7/96	0.806 1?	< 1 ?	< 1 ?	< 0.78 ?	< 0.5 ?	< 0.5 ?	< 1 ?	< 1.9 ?	< 1.3 ?	< 3.2 ?	< 0.72 ?	< 0.3 T?	< 1 ?	< 1 ?	< 0.5 ?
NB13E	4/2/96	< 1 ?	< 1 ?	< 1 ?	< 0.78 ?	< 0.5 ?	< 0.5 ?	< 1 ?	< 1.9 ?	< 1.3 ?	< 3.2 ?	< 0.72 ?	< 0.3 T?	< 1 ?	< 1 ?	< 0.5 ?
NB13E	5/7/96	< 1 ?	< 1 ?	< 1 ?	< 0.78 ?	< 0.5 ?	< 0.5 ?	< 1 ?	< 1.9 ?	< 1.3 ?	< 3.2 ?	< 0.72 ?	< 0.3 T?	< 1 ?	< 1 ?	< 0.5 ?
NB13E	6/4/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1	< 0.56
NB13E	7/2/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01 M	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	8/9/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	9/5/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	9/5/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 TD	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 TD	< 0.56 D
NB13E	10/1/96	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 VT	< 1.01 V	< 0.99 V	< 7.4 V	< 0.5 V		< 0.75 V	< 1 VT	< 0.56 V
NB13E	11/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	12/3/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	12/3/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 TD	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 TD	< 0.56 D
NB13E	1/7/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	2/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	3/3/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	4/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01 P	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	5/6/97	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 TV	< 1.01 V	< 0.99 V	10.3 V	< 0.5 V		< 0.75 V	< 1 TV	< 0.56 V
NB13E	6/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	7/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13E	9/2/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	< 0.56
NB13I	1/3/95	0.916 1	1.03	< 1	< 0.78	0.373 1	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	13.4 I
NB13I	1/3/95	1.1 D	< 1 D	< 1 D	< 0.78 D	0.326 DI	< 0.5 D	< 1 D	< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D	< 0.3 DT	< 1 D	< 1 D	13.4 DI
NB13I	2/10/95	0.651 1	< 1	< 1	< 0.78	0.302 1	1.01	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	9.13
NB13I	3/7/95	0.789 1	< 1	< 1	0.47 1	0.392 1	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	11.7
NB13I	3/7/95	0.643 1D	< 1 D	< 1 D	0.438 1D	0.385 1D	< 0.5 D	< 1 D	< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D	< 0.3 TD	< 1 D	< 1 D	11.8 D
NB13I	4/4/95	0.756 1	< 1	< 1	0.6 1	0.398 1	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	11.2
NB13I	5/2/95	0.607 1	< 1	< 1	0.551 1	0.423 1	< 0.5	< 1	< 1.9	< 1.3	1.83 1	< 0.72	< 0.3 T	< 1	< 1	10.7
NB13I	5/2/95	0.57 1D	< 1 D	< 1 D	0.552 1D	0.446 1D	< 0.5 D	< 1 D	< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D	< 0.3 TD	< 1 D	< 1 D	10.9 D
NB13I	6/6/95	< 1 D	< 1 D	< 1 D	0.426 1D	0.401 1D	< 0.5 D	< 1 D	< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D	< 0.3 T	< 1 DI	< 1 D	12.4 D
NB13I	6/6/95	< 1	< 1	< 1	< 0.78	0.398 1	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1 I	< 1	11.9
NB13I	7/6/95	< 1	< 1	< 1	0.498 1	0.402 1	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	13.1
NB13I	8/1/95	0.616 1	< 1	0.609 1	0.692 1	0.46 1	0.592	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	16.5
NB13I	9/5/95	1.25	< 1	0.684 1	0.585 1	0.35 1	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	17.9
NB13I	9/5/95	1.23 D	< 1 D	0.581 1D	0.635 1D	0.345 1D	< 0.5 D	< 1 D	< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D	< 0.3 TD	< 1 D	< 1 D	18 D

TABLE V-3

HISTORICAL TREATMENT SYSTEM VOC CONCENTRATIONS
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE
NB13I	10/3/95	0.821 1	< 1	0.774 1	0.752 1	0.655	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	0.663 1	< 1	11.5
NB13I	11/7/95	< 1	< 1	0.595 1	0.609 1	0.535 1	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	9.04
NB13I	11/7/95	< 1 D	< 1 D	0.667 1D	0.611 1D	0.547 D	< 0.5 D	< 1 D	< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D	< 0.3 TD	< 1 D	< 1 D	9.25 D
NB13I	12/5/95	< 1	< 1	< 1	0.495 1	0.784	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	8.97
NB13I	12/5/95	0.54 1D	< 1 D	< 1 D	0.499 1D	0.751 D	< 0.5 D	< 1 D	< 1.9 D	< 1.3 D	< 3.2 D	< 0.72 D	< 0.3 TD	< 1 D	< 1 D	9.64 D
NB13I	1/5/96	0.844 1	< 1	0.573 1	0.622 1	0.784 I	< 0.5	< 1	< 1.9	< 1.3	< 3.2	< 0.72	< 0.3 T	< 1	< 1	10.3
NB13I	2/6/96	< 1 ?	< 1 ?	< 1 ?	< 0.78 ?	0.324 1?	< 0.5 ?	< 1 ?	< 1.9 ?	< 1.3 ?	< 3.2 ?	< 0.72 ?	< 0.3 T?	< 1 ?	< 1 ?	8 ?
NB13I	2/6/96	< 1 D?	< 1 D?	< 1 D?	< 0.78 D?	0.309 1D?	< 0.5 D?	< 1 D?	< 1.9 D?	< 1.3 D?	< 3.2 D?	< 0.72 D?	< 0.3 TD?	< 1 D?	< 1 D?	7.9 D?
NB13I	3/7/96	0.509 1?	< 1 ?	< 1 ?	< 0.78 ?	0.356 1?	< 0.5 ?	< 1 ?	< 1.9 ?	< 1.3 ?	< 3.2 ?	< 0.72 ?	< 0.3 T?	< 1 ?	< 1 ?	9.15 ?
NB13I	4/2/96	< 1 ?	< 1 ?	< 1 ?	< 0.78 ?	0.279 1?	< 0.5 ?	< 1 ?	< 1.9 ?	< 1.3 ?	< 3.2 ?	< 0.72 ?	< 0.3 T?	< 1 ?	< 1 ?	5.6 ?
NB13I	4/2/96	< 1 D?	< 1 D?	< 1 D?	< 0.78 D?	0.276 1?	< 0.5 D?	< 1 D?	< 1.9 D?	< 1.3 D?	< 3.2 D?	< 0.72 D?	< 0.3 TD?	< 1 D?	< 1 D?	5.67 D?
NB13I	5/7/96	< 1 ?	< 1 ?	< 1 ?	< 0.78 ?	< 0.5 ?	< 0.5 ?	< 1 ?	< 1.9 ?	< 1.3 ?	< 3.2 ?	< 0.72 ?	< 0.3 T?	< 1 ?	< 1 ?	6.81 ?
NB13I	6/4/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 D	< 1.01 D	< 0.99 D	< 7.4 D	2.05 D		< 0.75 D	< 1 D	4 D
NB13I	6/4/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1	< 1.01	< 0.99	< 7.4	2.03		< 0.75	< 1	4.16
NB13I	7/2/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01 M	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	6.64
NB13I	8/9/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	5.93
NB13I	8/9/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	4.51 D
NB13I	9/5/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	9.01
NB13I	10/1/96	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 VT	< 1.01 V	< 0.99 V	< 7.4 V	< 0.5 V		< 0.75 V	< 1 VT	7.23 V
NB13I	11/11/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	7.69
NB13I	11/11/96	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 TD	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 TD	6.81 D
NB13I	12/3/96	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	7.14
NB13I	1/7/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	6.04
NB13I	2/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.01	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	3.7
NB13I	2/4/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.01 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	4.29 D
NB13I	3/3/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	3.15
NB13I	3/3/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 TD	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 TD	3.01 D
NB13I	4/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01 P	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	3.62
NB13I	5/6/97	< 0.76 V	< 0.78 V	< 1.7 V	< 0.73 V	< 0.76 V	< 1.1 V	< 1 TV	< 1.01 V	< 0.99 V	< 7.4 V	< 0.5 V		< 0.75 V	< 1 TV	2.96 V
NB13I	6/4/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	2.09
NB13I	6/4/97	< 0.76 D	< 0.78 D	< 1.7 D	< 0.73 D	< 0.76 D	< 1.1 D	< 1 DT	< 1.01 D	< 0.99 D	< 7.4 D	< 0.5 D		< 0.75 D	< 1 DT	2.09 D
NB13I	7/1/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	1.87
NB13I	9/2/97	< 0.76	< 0.78	< 1.7	< 0.73	< 0.76	< 1.1	< 1 T	< 1.01	< 0.99	< 7.4	< 0.5		< 0.75	< 1 T	1.08

Notes:

Units in µg/L

1	*Results are less than Certified Reporting Limit but greater than Criteria of Detection*
?	Control chart not yet approved by USAEC
D	Duplicate analysis
E	The low-spike recovery is low
H	Data is rejected
I	The low-spike recovery is high
J	Value is estimated
L	Missed holding time for sample analysis
M	The high-spike recovery is high
P	High spike recoveries excessively different
T	Non-target compound analyzed for but not detected (non-GS/MS methods)
V	Sample subjected to unusual storage/preservation conditions

Table V-4

Historical Treatment System Influent Arsenic Concentrations, PGRS, TCAAP

TABLE V-4

HISTORICAL TREATMENT SYSTEM INFLUENT ARSENIC CONCENTRATIONS
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Monitoring Quarter*	*Concentration (µg/L)*
NB13I	6/7/94	43	< 3
NB13I	9/6/94	44	< 3
NB13I	12/6/94	45	< 3
NB13I	3/7/95	46	< 4
NB13I	6/6/95	47	< 4
NB13I	9/5/95	48	< 4
NB13I	12/5/95	49	< 4
NB13I	3/5/96	50	< 5
NB13I	6/4/96	51	< 2.35
NB13I	9/5/96	52	< 2.35
NB13I	12/3/96	53	< 2.35
NB13I	3/3/97	54	< 2.35
NB13I	6/4/97	55	< 2.35
NB13I	9/2/97	56	< 2.35

Table V-5

Summary of Monthly VOC Removal for Fiscal Year 1997

TABLE V-5

SUMMARY OF MONTHLY VOC REMOVAL FOR FISCAL YEAR 1997
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Month	*VOC Influent (µg/L)*	*Water Treated (gallons)*	*Total VOCs into the Treatment Center (lbs.)*	*VOC Effluent (µg/L)*	*Total VOCs Removed by Stripping Towers (lbs.)*
October	7.23 (1)	40,528,000	2.4	0.0	2.4
November	7.69	35,855,000	2.3	0.0	2.3
December	7.14	42,422,000	2.5	0.0	2.5
January	6.04	47,881,000	2.4	0.0	2.4
February	4.29	39,728,000	1.4	0.0	1.4
March	3.15	44,142,000	1.2	0.0	1.2
April	3.62	42,670,000	1.3	0.0	1.3
May	2.96 (1)	44,111,000	1.1	0.0	1.1
June	2.09	49,533,000	0.9	0.0	0.9
July	1.87	50,006,000	0.8	0.0	0.8
August	1.48 (3)	31,157,000	0.4	0.0	0.4
September	1.08	41,736,000	0.4	0.0	0.4
Total VOCs Removed For Fiscal Year 1997 (lbs)			17.1		17.1

Notes:

1) Sample subject to unusal storage/preservation conditions.

2) VOC concentrations do not include estimated concentrations for compounds detected below the reporting limit.

3) No data available, used average of July and September data.

Table V-6

Summary of OU3 Monitoring Requirements

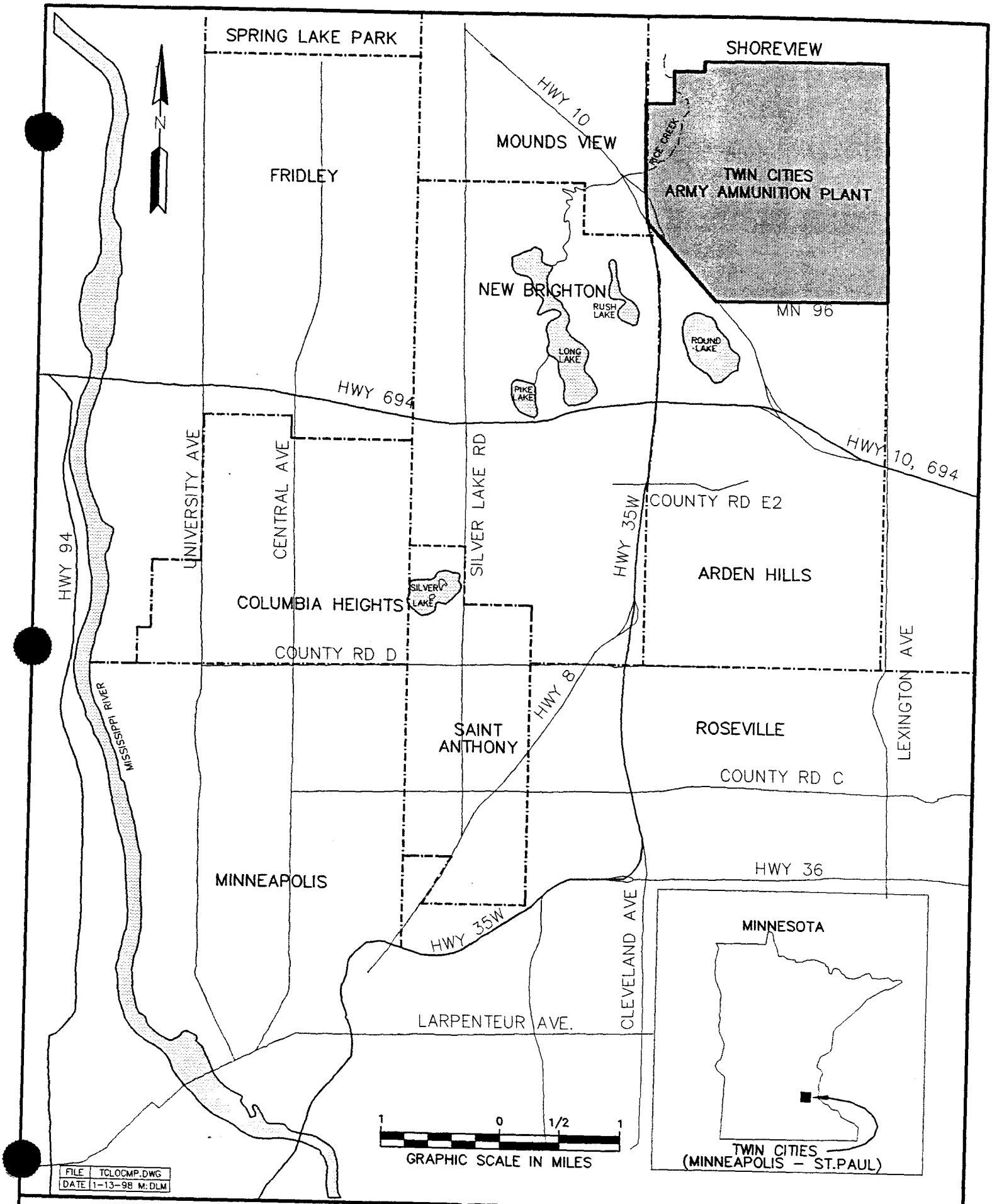
Table V-6

Summary of OU3 Monitoring Requirements

Remedy Component	Monitoring Requirements	Responsible Party	Documents Containing the Monitoring Plan
#1 Groundwater Extraction	a. Water levels to draw contour maps demonstrating capture	Alliant	OU3 Monitoring Plan in Annual Report
	b. Pumping rates and volumes for comparison to design flow rates	Alliant	OU3 Monitoring Plan in Annual Report
#2 Groundwater Treatment	a. Influent/effluent monitoring to verify compliance and calculate mass removal	Alliant	OU3 Monitoring Plan in Annual Report
#3 Use of Water for Municipal Supply	a. Effluent monitoring for verifying compliance with public water supply requirements	New Brighton	New Brighton's Monitoring Plan
#4 Groundwater Monitoring	a. As above	Alliant	OU3 Monitoring Plan in Annual Report
Overall Remedy	a. Water quality monitoring to verify attainment of clean up goals	Alliant	OU3 Monitoring Plan in Annual Report

FIGURES

Figures



TWIN CITIES ARMY AMMUNITION PLANT

Site Location Map

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Wenck Associates, Inc.
Environmental Engineers

1800 Pioneer Creek Center P.O. BOX 428
Maple Plain, MN 55359-0428

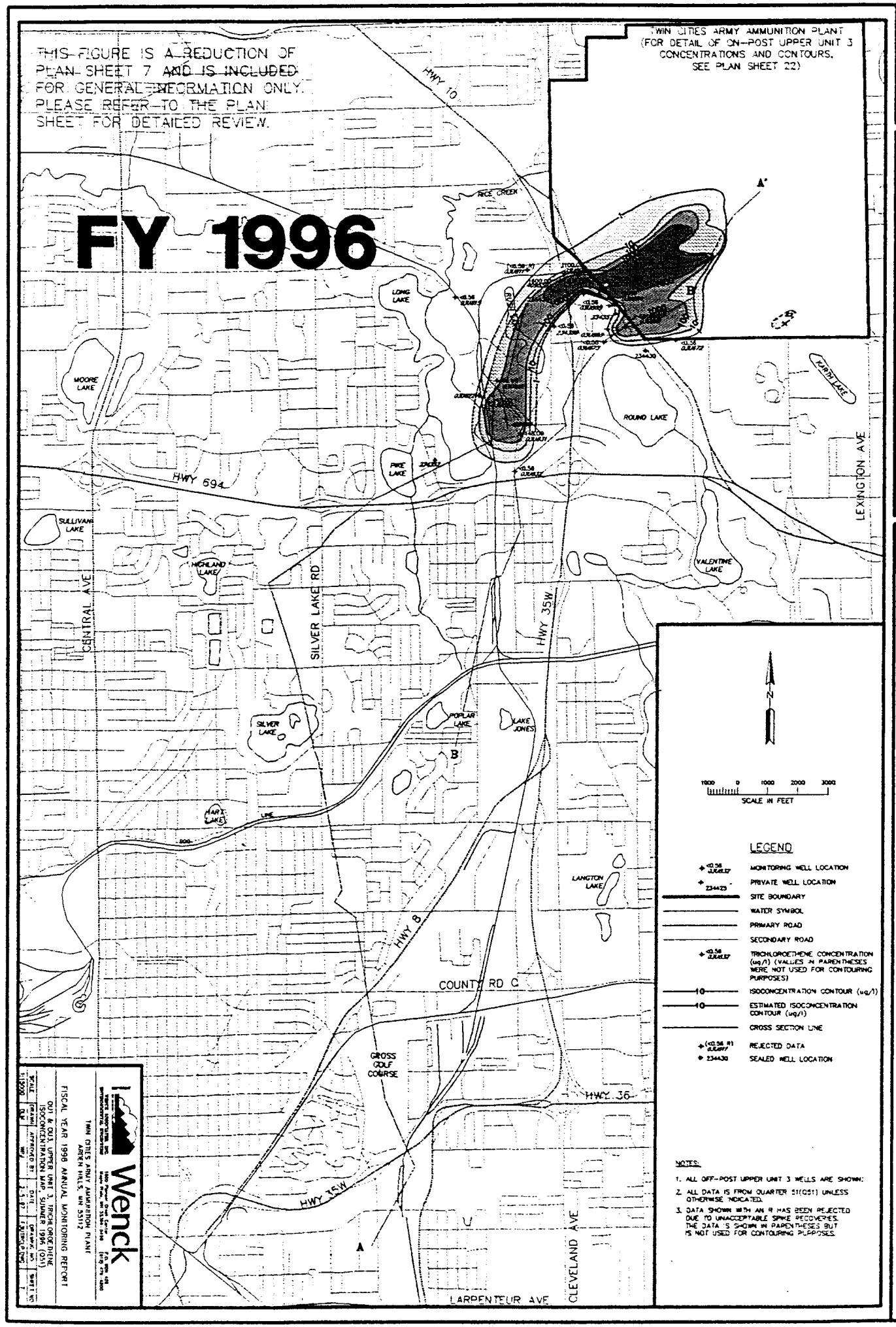
AUG 1998

Fig. II.B-1

THIS FIGURE IS A REDUCTION OF PLAN SHEET 7 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

FY 1996

TWIN CITIES ARMY AMMUNITION PLANT (FOR DETAIL OF ON-POST UPPER UNIT 3 CONCENTRATIONS AND CONTOURS, SEE PLAN SHEET 22)



LEGEND

- MONITORING WELL LOCATION
- PRIVATE WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- PRIMARY ROAD
- SECONDARY ROAD
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE
- REJECTED DATA
- SEALED WELL LOCATION

NOTES:

1. ALL OFF-POST UPPER UNIT 3 WELLS ARE SHOWN.
2. ALL DATA IS FROM QUARTER 51(Q51) UNLESS OTHERWISE INDICATED.
3. DATA SHOWN WITH AN R HAS BEEN REJECTED DUE TO UNACCEPTABLE SPIKE RECOVERIES. THE DATA IS SHOWN IN PARENTHESES BUT IS NOT USED FOR CONTOURING PURPOSES.

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TWIN CITIES ARMY AMMUNITION PLANT

OU1 & OU3, Upper Unit 3 Trichloroethene Isoconcentration Map, Summer 1996 (Q51)

Wenck

TWIN CITIES ARMY AMMUNITION PLANT
ARDEN HILLS, MN 55112

FISCAL YEAR 1996 ANNUAL MONITORING REPORT

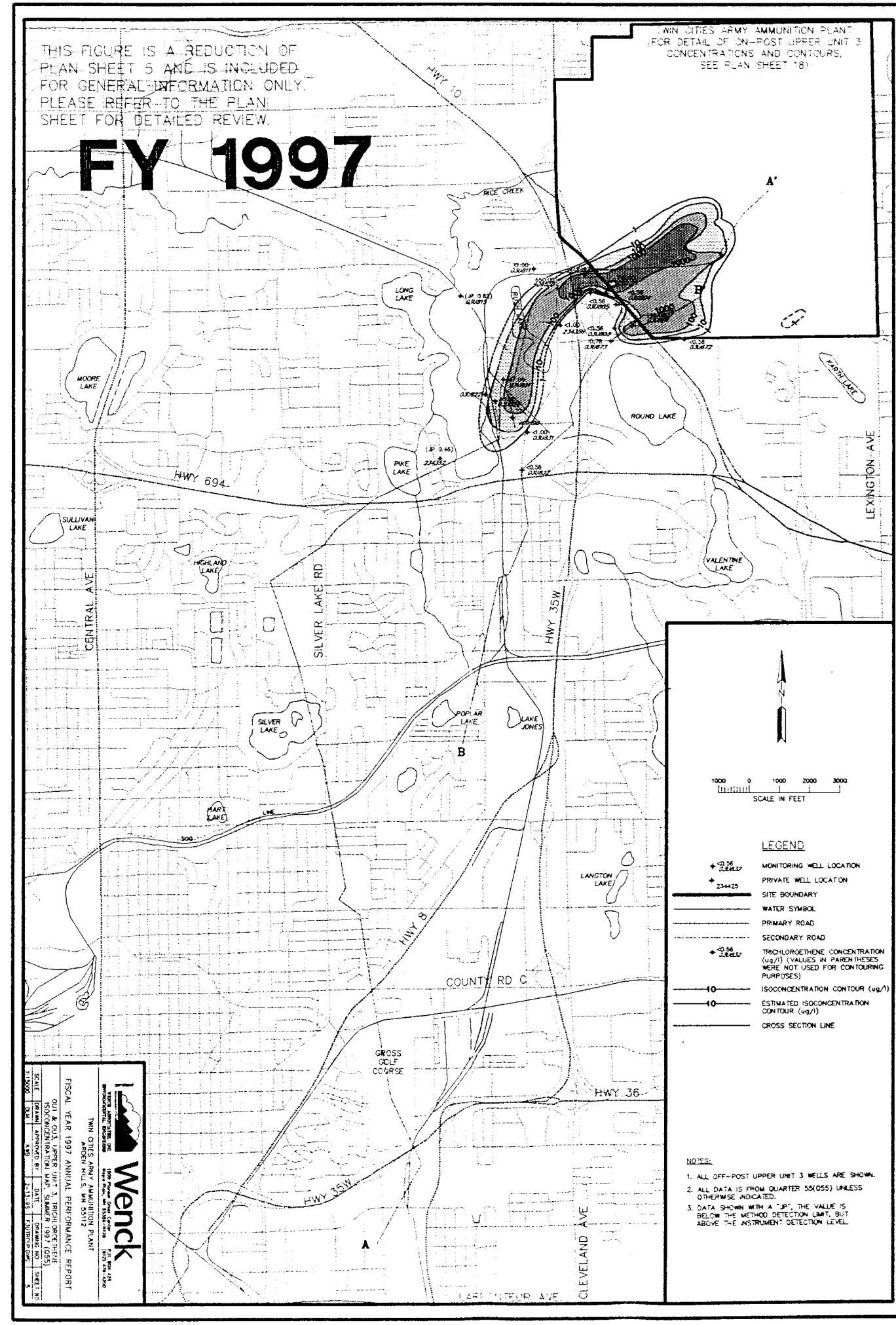
OU1 & OU3, UPPER UNIT 3, TRICHLOROETHENE ISOCONCENTRATION MAP, SUMMER 1996 (Q51)

DATE	BY	DESCRIPTION
8/97		

THIS FIGURE IS A REDUCTION OF PLAN SHEET 5 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

FY 1997

TWIN CITIES ARMY AMMUNITION PLANT (FOR DETAIL OF ON-POST UPPER UNIT 3 CONCENTRATIONS AND CONTOURS, SEE PLAN SHEET 18)



LEGEND

- MONITORING WELL LOCATION
- PRIVATE WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- PRIMARY ROAD
- SECONDARY ROAD
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE

NOTES:

1. ALL OFF-POST UPPER UNIT 3 WELLS ARE SHOWN.
2. ALL DATA IS FROM QUARTER 55(Q55) UNLESS OTHERWISE INDICATED.
3. DATA SHOWN WITH A "J" FLAG, THE VALUE IS BELOW THE METHOD DETECTION LIMIT, BUT ABOVE THE INSTRUMENT DETECTION LEVEL.

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Fig. III.A-

TWIN CITIES ARMY AMMUNITION PLANT

OU1 & OU3, Upper Unit 3 Trichloroethene Isoconcentration Map, 1996 (Q51) and 1997 (Q55)

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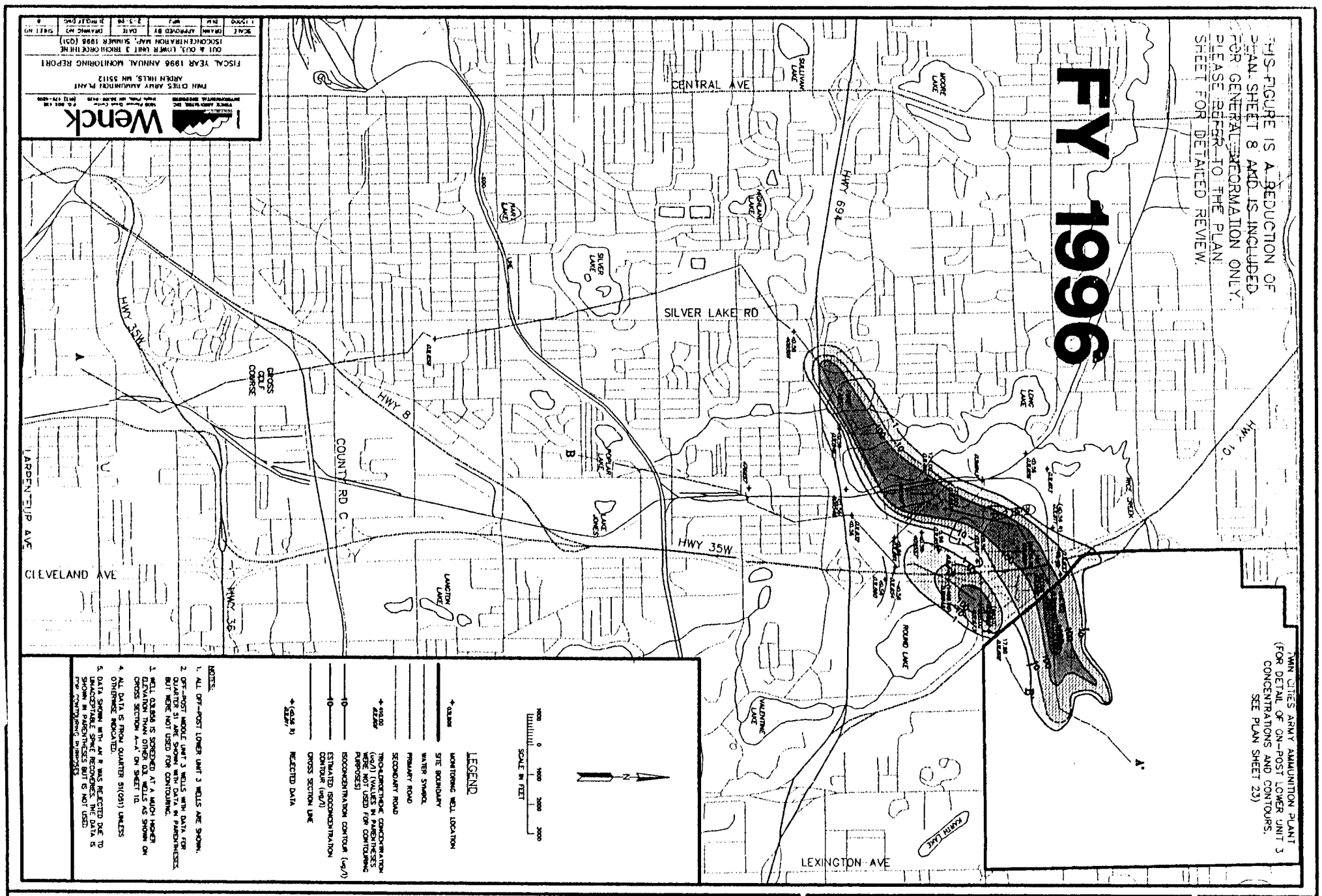
TWIN CITIES ARMY AMMUNITION PLANT
ARDEN HILLS, MN 55112

FISCAL YEAR 1997 ANNUAL PERFORMANCE REPORT

OU1 & OU3, UPPER UNIT 3, TRICHLOROETHENE ISOCONCENTRATION MAP, 1996 (Q51) AND 1997 (Q55)

DATE	BY	DESCRIPTION
8/98		



TWIN CITIES ARMY AMMUNITION PLANT

OU1 & OU3, Lower Unit 3 Trichloroethene Isoconcentration Map, Summer 1996 (Q51)

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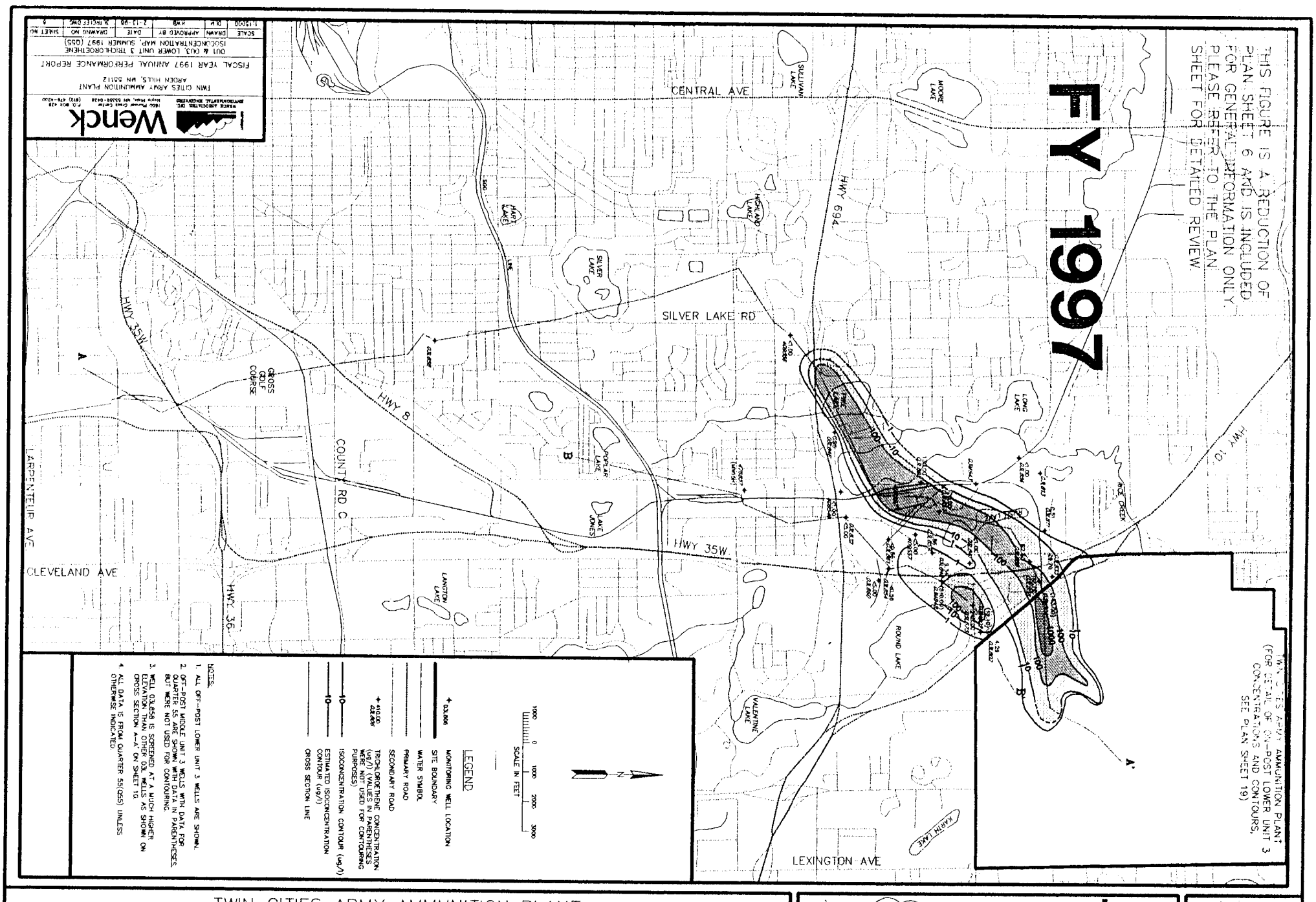
SEPT. 1997



TWIN CITIES ARMY AMMUNITION PLANT

OU1 & OU3, Lower Unit 3 Trichloroethene Isoconcentration Map, 1996 (Q51) and 1997 (Q55)

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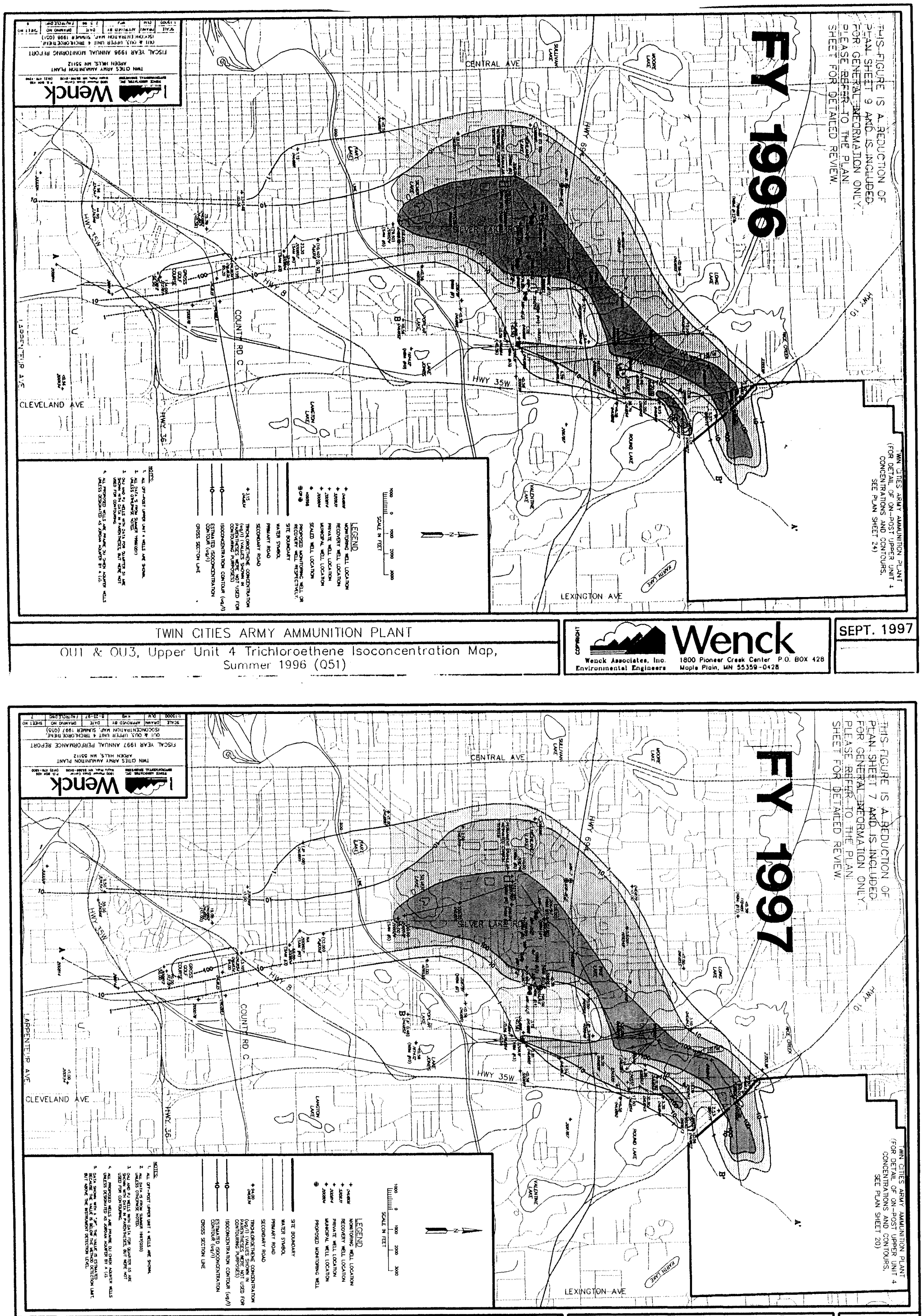
Fig. III.A-2


FY 1996
THIS FIGURE IS A REDUCTION OF DETAIL SHEET 9 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.
TWIN CITIES ARMY AMMUNITION PLANT
(FOR DETAIL OF ON-POST UPPER UNIT 4 CONCENTRATIONS AND CONTOURS, SEE PLAN SHEET 24)
CENTRAL AVE
HWY 694
HWY 10
HWY 35W
HWY 8
COUNTY RD C
CLEVELAND AVE
LARPENTEUR AVE
LEXINGTON AVE
SILVER LAKE
SULLIVAN LAKE
MOORE LAKE
LONG LAKE
POPLAR LAKE
LAMBERTON LAKE
ROUND LAKE
VALENTINE LAKE
KARTH LAKE
GROSS GOLF COURSE
A
A'
B
B'
LEGEND
MONITORING WELL LOCATION
RECOVERY WELL LOCATION
PRIVATE WELL LOCATION
MUNICIPAL WELL LOCATION
SEALED WELL LOCATION
PROPOSED MONITORING WELL OR RECOVERY WELL RESPECTIVELY
SITE BOUNDARY
WATER SYMBOL
PRIMARY ROAD
SECONDARY ROAD
TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES SHOWN IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
ISOCONCENTRATION CONTOUR (ug/l)
ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
CROSS SECTION LINE
SCALE IN FEET
1000 0 1000 2000 3000
NOTES:
1. ALL OFF-POST UPPER UNIT 4 WELLS ARE SHOWN.
2. ALL DATA IS FROM SUMMER 1996(Q51) UNLESS OTHERWISE NOTED.
3. ON AND PJ WELLS WITH DATA FOR QUARTER 51 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
4. ALL PROPOSED WELLS ARE PRAIRIE DU CHIEN AQUIFER WELLS UNLESS DESIGNATED AS JORDAN AQUIFER BY A (J).
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TWIN CITIES ARMY AMMUNITION PLANT
FISCAL YEAR 1996 ANNUAL MONITORING REPORT
OU1 & OU3, UPPER UNIT 4 TRICHLOROETHENE
ISOCONCENTRATION MAP, SUMMER 1996 (Q51)
SCALE 1"=2000' DRAWN KMB APPROVED BY DATE 2-5-98 DRAWING NO FIGURE ONE SHEET NO 9
TWIN CITIES ARMY AMMUNITION PLANT
OU1 & OU3, Upper Unit 4 Trichloroethene Isoconcentration Map, Summer 1996 (Q51)
COPYRIGHT
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1800 Pioneer Creek Center P.O. BOX 428 Maple Plain, MN 55359-0428
SEPT. 1997
FY 1997
THIS FIGURE IS A REDUCTION OF PLAN SHEET 7 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.
TWIN CITIES ARMY AMMUNITION PLANT
(FOR DETAIL OF ON-POST UPPER UNIT 4 CONCENTRATIONS AND CONTOURS, SEE PLAN SHEET 20)
NOTES:
1. ALL OFF-POST UPPER UNIT 4 WELLS ARE SHOWN.
2. ALL DATA IS FROM SUMMER 1997(Q55) UNLESS OTHERWISE NOTED.
3. ON AND PJ WELLS WITH DATA FOR QUARTER 55 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
4. ALL PROPOSED WELLS ARE PRAIRIE DU CHIEN AQUIFER WELLS UNLESS DESIGNATED AS JORDAN AQUIFER BY A (J).
5. DATA SHOWN WITH A "<" THE VALUE IS ESTIMATED BECAUSE THE VALUE IS BELOW THE METHOD DETECTION LIMIT, BUT ABOVE THE INSTRUMENT DETECTION LEVEL.
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TWIN CITIES ARMY AMMUNITION PLANT
FISCAL YEAR 1997 ANNUAL PERFORMANCE REPORT
OU1 & OU3, UPPER UNIT 4 TRICHLOROETHENE
ISOCONCENTRATION MAP, SUMMER 1997 (Q55)
SCALE 1"=2000' DRAWN KMB APPROVED BY DATE 8-29-97 FIGURE ONE SHEET NO 7
TWIN CITIES ARMY AMMUNITION PLANT
OU1 & OU3, Upper Unit 4 Trichloroethene Isoconcentration Map, 1996 (Q51) and 1997 (Q55)
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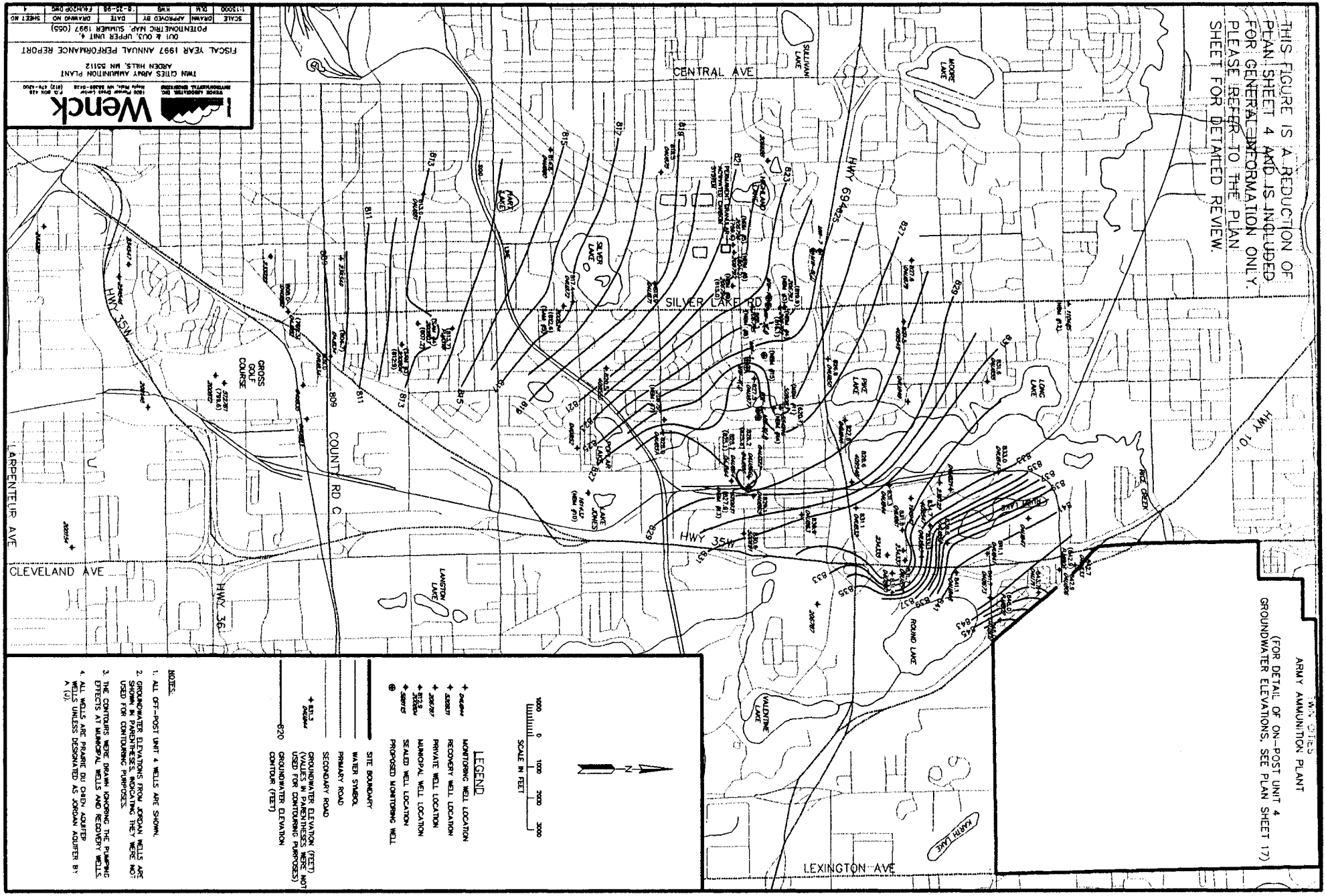
AUG 1998
Fig. III.A-3



TWIN CITIES ARMY AMMUNITION PLANT

OU1 & OU3, Upper Unit 4 Potentiometric Map, Summer 1997 (Q55)

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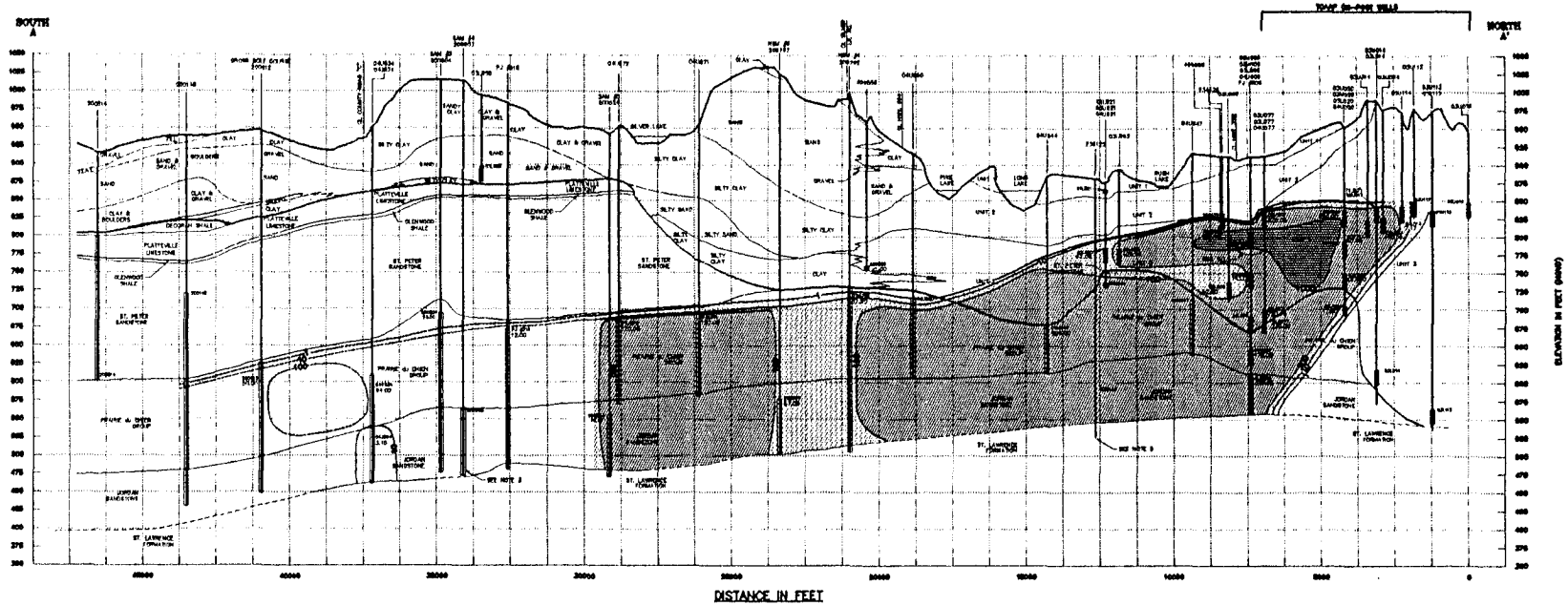
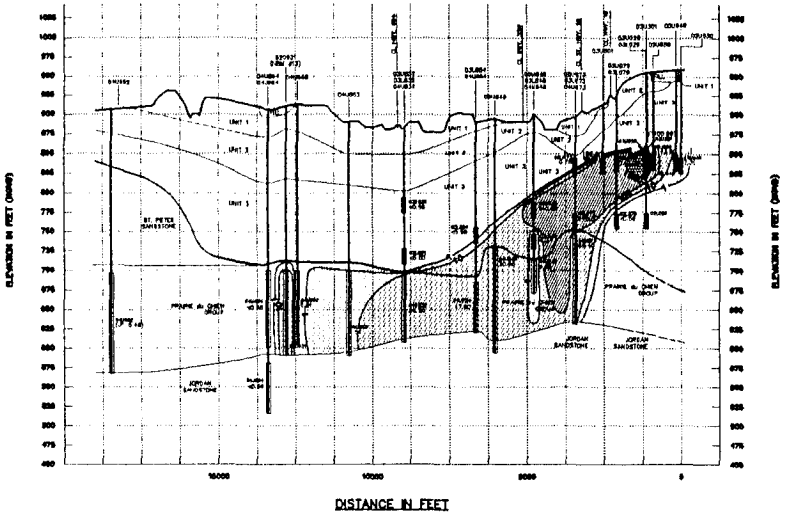
Fig. III.C-1



CROSS SECTION A–A'



CROSS SECTION B–B'

NOTES

(1) CROSS SECTION: TOPOGRAPHY CONSTRUCTED WITH DATA FROM U.S.G.S. NEW BRIGHTON 7.5 MINUTE SERIES QUAD MAP DATED 1967 (PHOTOREVISED 1972, AND 1980); WELL LOCATIONS AND THE "LINE" OF SECTION ARE SHOWN ON SHEET NO. 4.

(2) WELL NESTS, CONSISTING OF INDIVIDUAL WELLS IN THE SAME PROXIMITY, ARE REPRESENTED ON THE CROSS SECTION BY A SINGLE LINE WITH MULTIPLE WELL SCREENS

(3) FOR SECTION A–A' NO INFORMATION WAS PROVIDED ON THE WELL LOG FOR 200803 (SAM #4) CONCERNING WELL CONSTRUCTION DETAILS, ESPECIALLY THE OPEN HOLE INTERVAL, AS THIS IS REFERRED TO AS A JORDAN WELL, THE OPEN HOLE WAS ASSUMED TO EXTEND FROM THE TOP OF THE JORDAN TO THE BOTTOM OF THE BOREHOLE.

(4) FOR SECTION B–B' NO INFORMATION WAS AVAILABLE ON THE WELL LOG FOR 030029 AND 030873 CONCERNING WELL CONSTRUCTION DETAILS, ESPECIALLY THE SCREENED INTERVALS. THE SCREENED INTERVALS FOR THESE WELLS WERE ASSUMED TO BE SIMILAR TO OTHER NEARBY UPPER UNIT 3 WELLS.

(5) WELL 236122 HAS BEEN SEALED, BUT IS SHOWN SINCE IT WAS USED TO PREPARE THE CROSS SECTION.

(6) ALL DATA IS FROM SUMMER 1997 (Q55) UNLESS OTHERWISE NOTED.

(7) THERE IS NO WATER QUALITY DATA FOR WELL 041850 BECAUSE IT WAS NOT SCHEDULED FOR WATER QUALITY SAMPLING IN FY 97 (SEE APPENDIX B.1). SAMPLING AT THIS WELL WAS DROPPED BEGINNING IN THE FY 98 MONITORING PLAN AND WAS ABSENT THROUGH THE FY 98 MONITORING PLAN, AS NOTED IN TABLE B.F-2. WELL 041850 IS PROPOSED FOR INCLUSION IN THE MONITORING PLAN FOR FY 99 AND FUTURE YEARS.

LEGEND

- GEOLOGIC CONTACT
- INFERRED GEOLOGIC CONTACT
- SCREENED INTERVAL OF WELL
- OPEN HOLE INTERVAL OF WELL
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- THE VALUE IS ESTIMATED BECAUSE THE VALUE IS BELOW THE METHOD DETECTION LIMIT, BUT ABOVE THE INSTRUMENT DETECTION LEVEL.

SCALE

VERTICAL: 1 INCH = 75 FEET

HORIZONTAL: 1 INCH = 1875 FEET

V.E. = 25X

THIS FIGURE IS A REDUCTION OF PLAN SHEET 8 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

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TWIN CITIES ARMY AMMUNITION PLANT
ARDEN HILLS, MN 55112

FISCAL YEAR 1997 ANNUAL PERFORMANCE REPORT

OU1 & OU3 TRICHLOROETHENE CROSS SECTIONS A–A' AND B–B' SUMMER 1997 (Q55)

SCALE	DRAWN	APPROVED BY	DATE	DRAWING NO	SHEET NO
AS SHOWN	DLH	KWB	8-25-98	TCXSTRCL.DWG	8

TWIN CITIES ARMY AMMUNITION PLANT

OU1 & OU3, Trichloroethene Cross Sections A–A' and B–B', Summer 1997(Q55)

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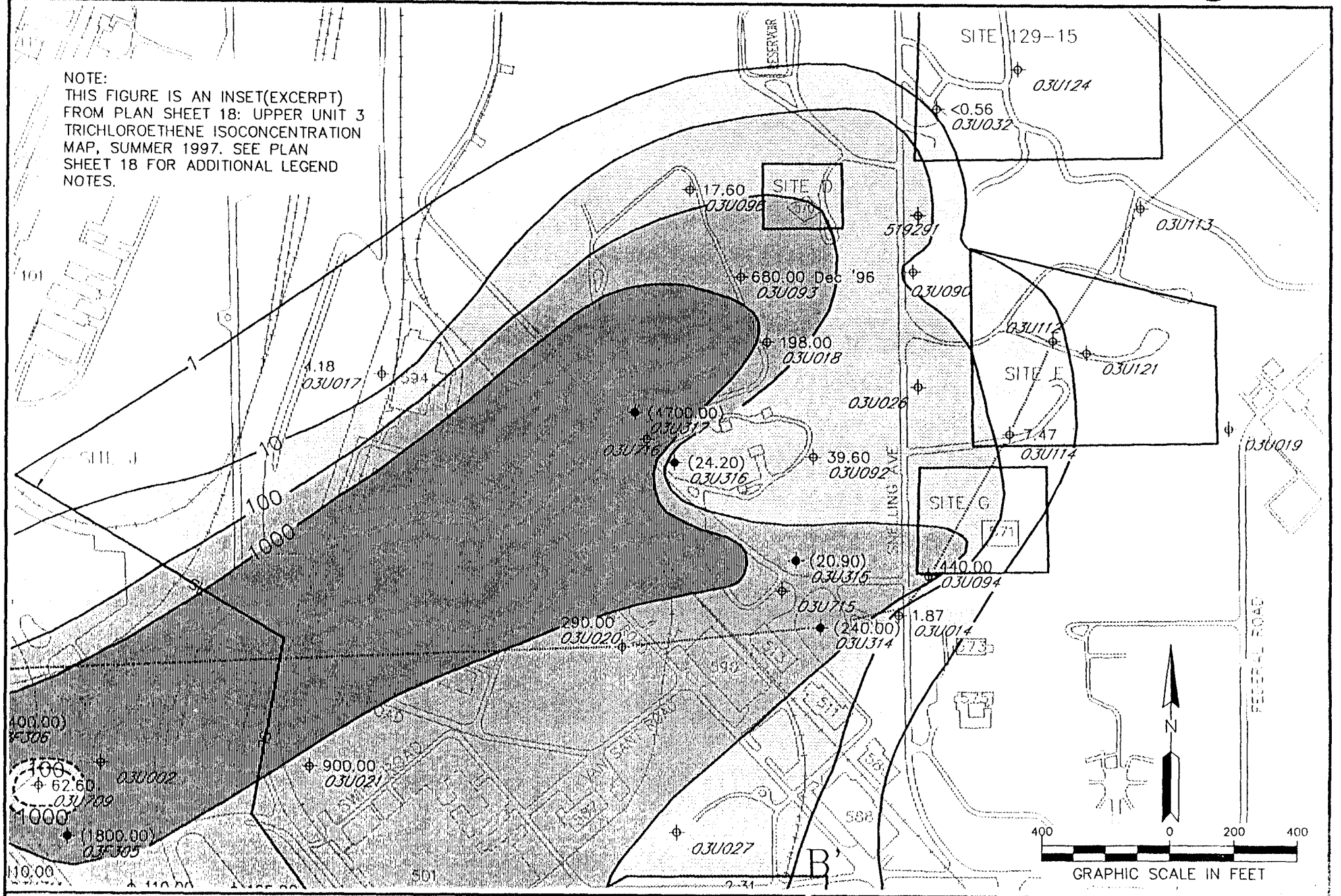
Fig. III.G-1



TWIN CITIES ARMY AMMUNITION PLANT

Location of Wells Nearest to Sites D and G

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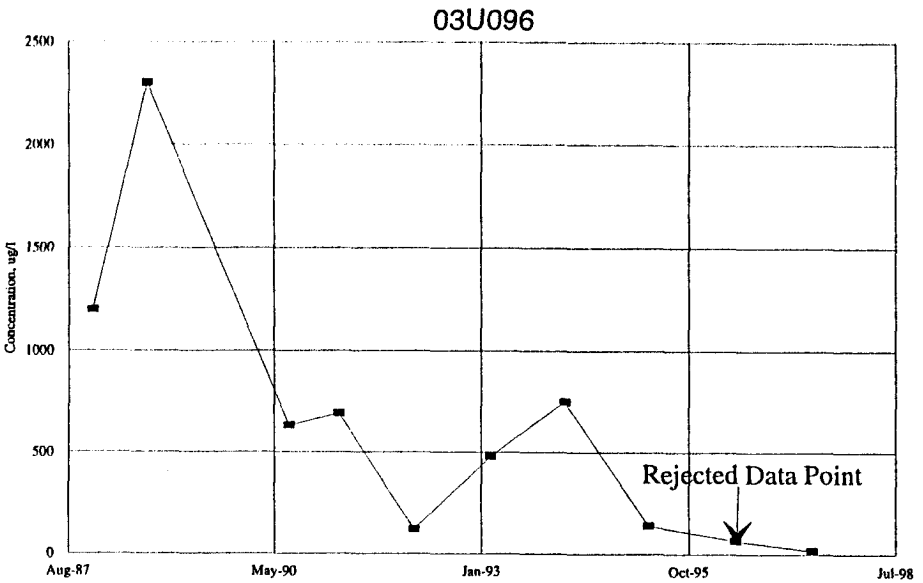
Fig. IV.B-1

SITE D, WELLS 03U096 & 03U018, TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT



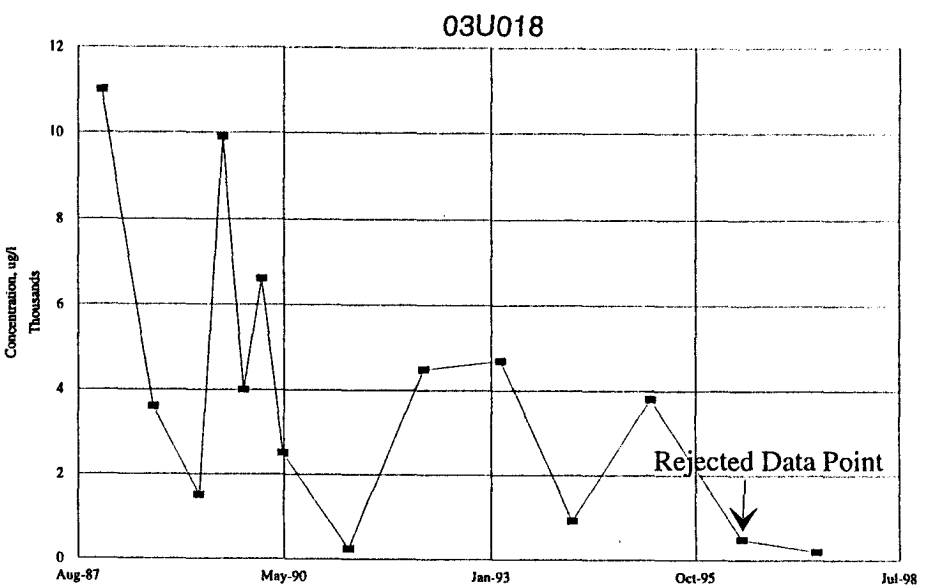


Figure IV.B-2
Wenck Associates, Inc.

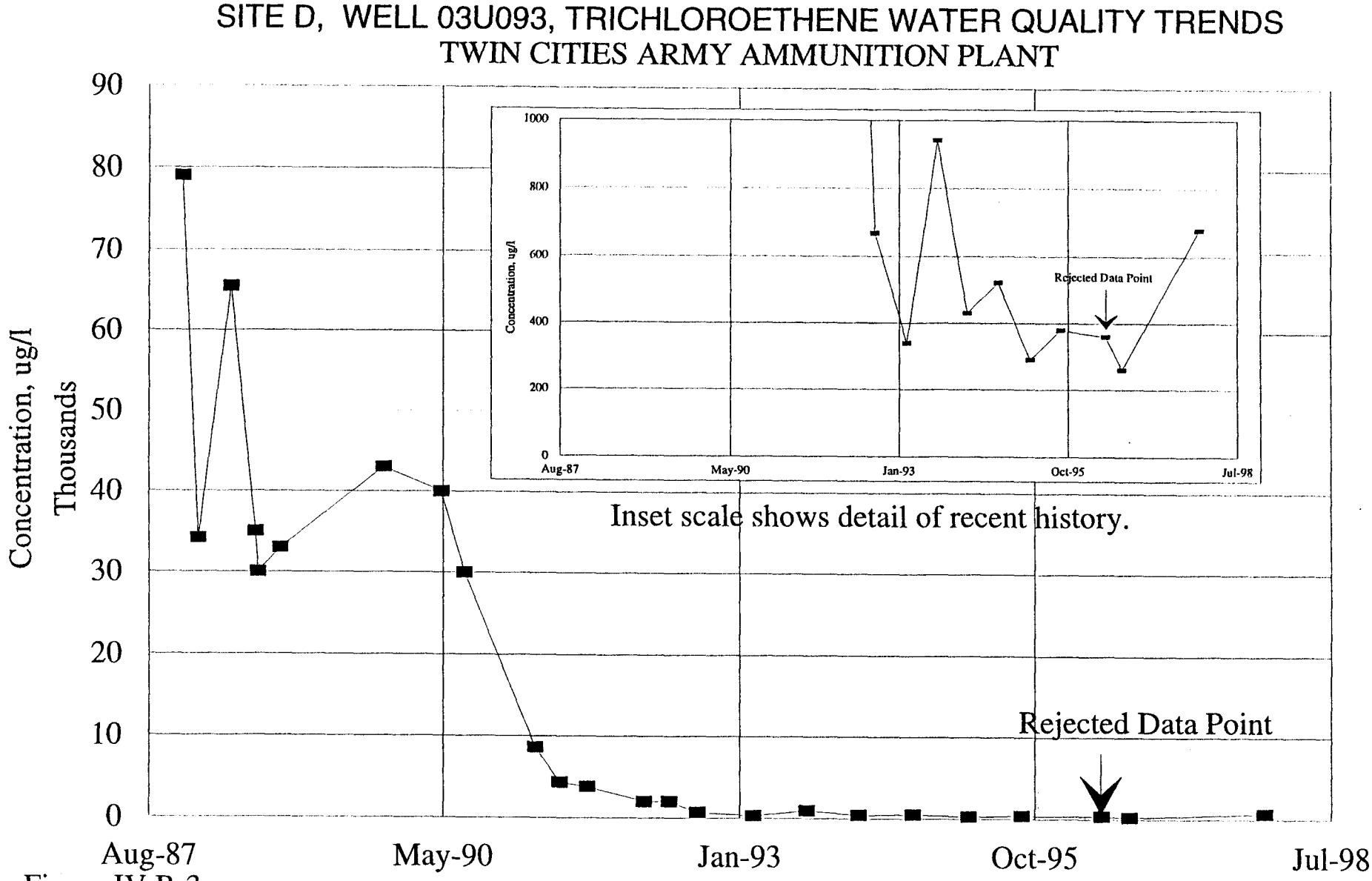


Figure IV.B-3
Wenck Associates, Inc.

SITE G, WELLS 03U014 & 03U094, TRICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNTION PLANT

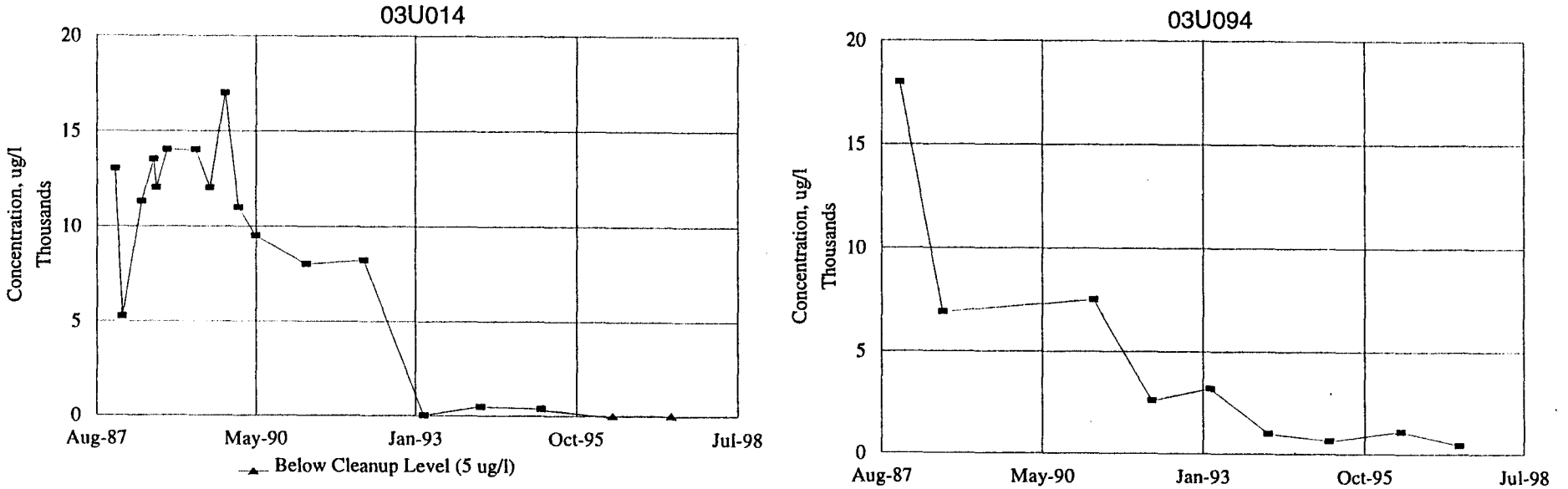
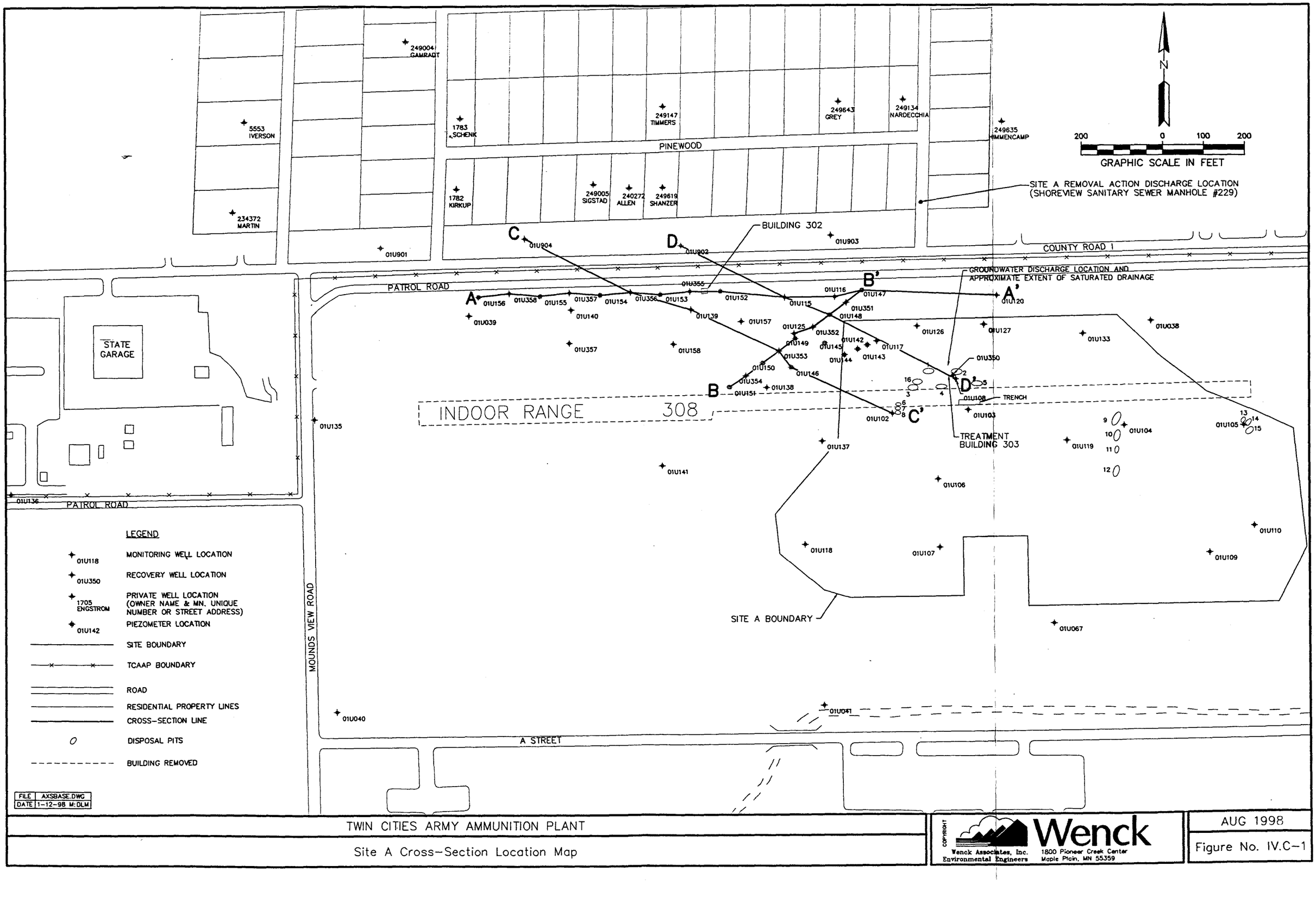


Figure IV.B-4
Wenck Associates, Inc.



TWIN CITIES ARMY AMMUNITION PLANT

Site A Cross-Section Location Map

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Figure No. IV.C-1

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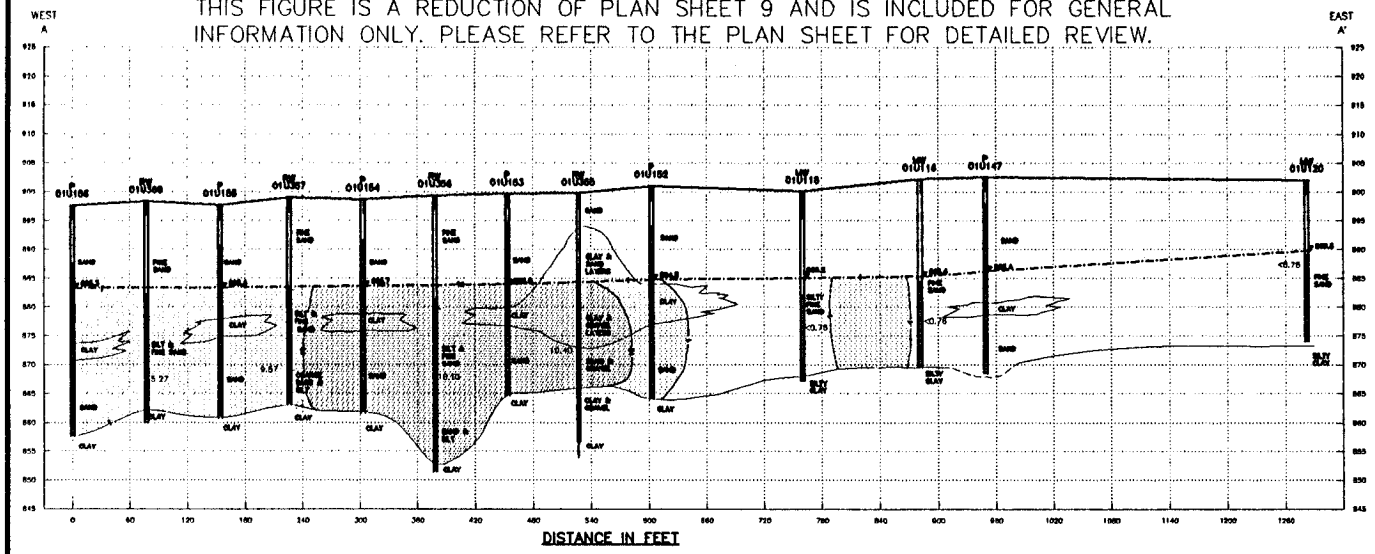
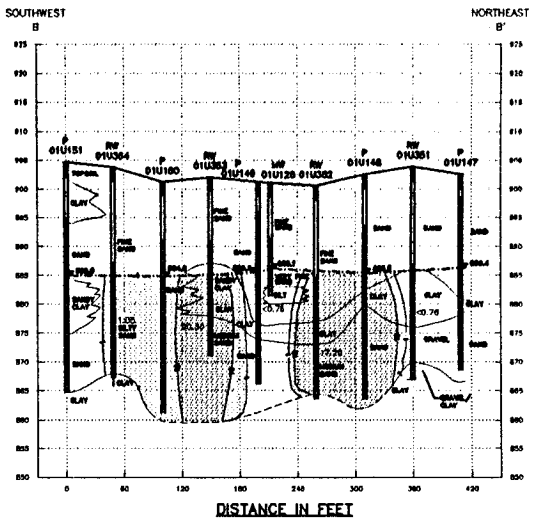
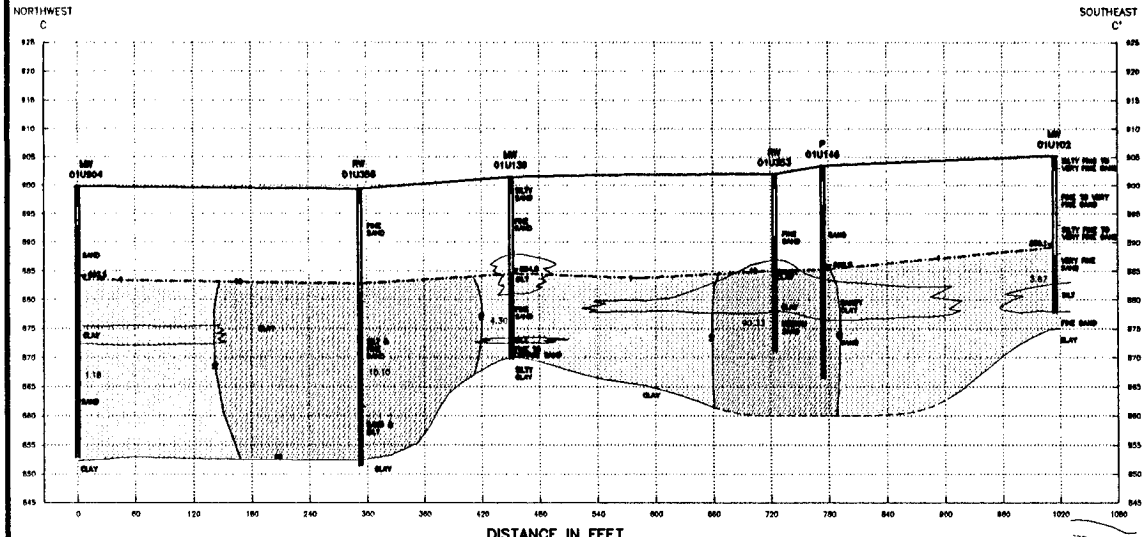


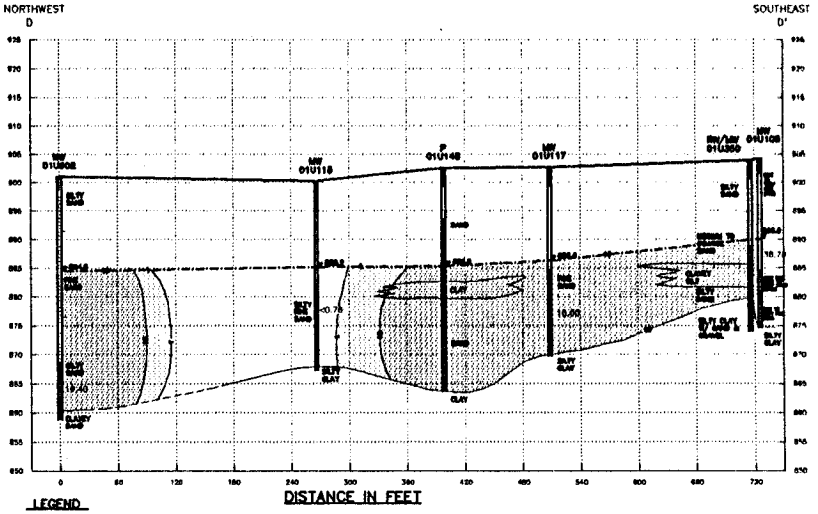
CROSS SECTION A-A'



CROSS SECTION B-B'



CROSS SECTION C-C'



CROSS SECTION D-D'

NOTE:

1. ALL WATER LEVEL AND QUALITY DATA IS FROM DIR. 55
2. WELL 01U350 WAS USED AS A RECOVERY WELL UNTIL JUNE 1994 WHEN THE PUMP WAS REMOVED AND THE WELL BEGAN BEING USED AS A MONITORING WELL.
3. DATA ON RECOVERY WELLS AND PIEZOMETERS WAS GENERATED BY DAHL AND ASSOCIATES, INC. AS PART OF THE SITE A REMOVAL ACTION SYSTEM CONSTRUCTION. DATA ON MONITORING WELLS PROVIDED BY FEDERAL CARTRIDGE COMPANY.
4. WATER QUALITY SAMPLES COLLECTED FROM RECOVERY WELLS ARE RECOGNIZED TO BE DILUTED AND ARE NOT MEANT TO REPRESENT ABSOLUTE CONCENTRATIONS.

SCALE

VERTICAL:
1 INCH = 10 FEET

HORIZONTAL:
1 INCH = 60 FEET

V.E. = 6X

LEGEND

- GEOLOGIC CONTACT
- INFERRED GEOLOGIC CONTACT
- SCREENED INTERVAL OF WELL
- PUMP LOCATION
- 1,2-DICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- WATER LEVEL SURFACE
- SLIGHT CHANGE IN GEOLOGIC UNIT (MARK LOCATED ALONG WELL STAFF)
- MONITORING WELL
- RECOVERY WELL
- PIEZOMETER

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TWIN CITIES ARMY AMMUNITION PLANT
ARDEN HILLS, MN 55112

FISCAL YEAR 1997 ANNUAL PERFORMANCE REPORT

SITE A, 1,2-DICHLOROETHENE CROSS SECTIONS A-A', B-B', C-C', D-D', SUMMER 1997 (Q55)

SCALE	DRAWN	APPROVED BY	DATE	DRAWING NO	SHEET NO
1:720	DLM	KWB	2-13-98	TCAX0184.DWG	9

TWIN CITIES ARMY AMMUNITION PLANT

Site A, 1,2-Dichloroethene Cross Sections A-A', B-B', C-C', D-D', Summer 1997 (Q55)

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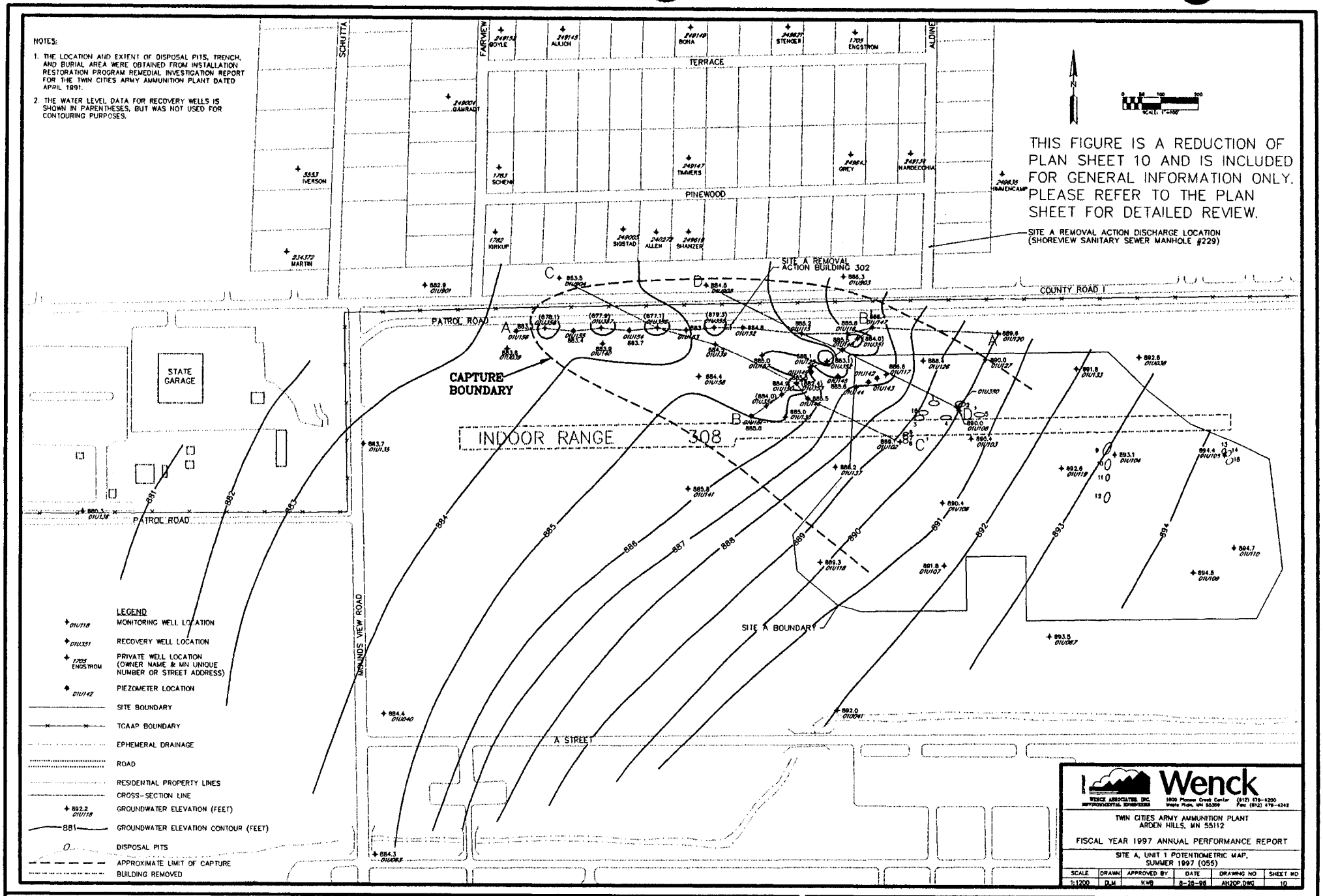
Fig IV.C-2



TWIN CITIES ARMY AMMUNITION PLANT

Site A, Unit 1 Potentiometric Map, Summer 1997 (Q55)

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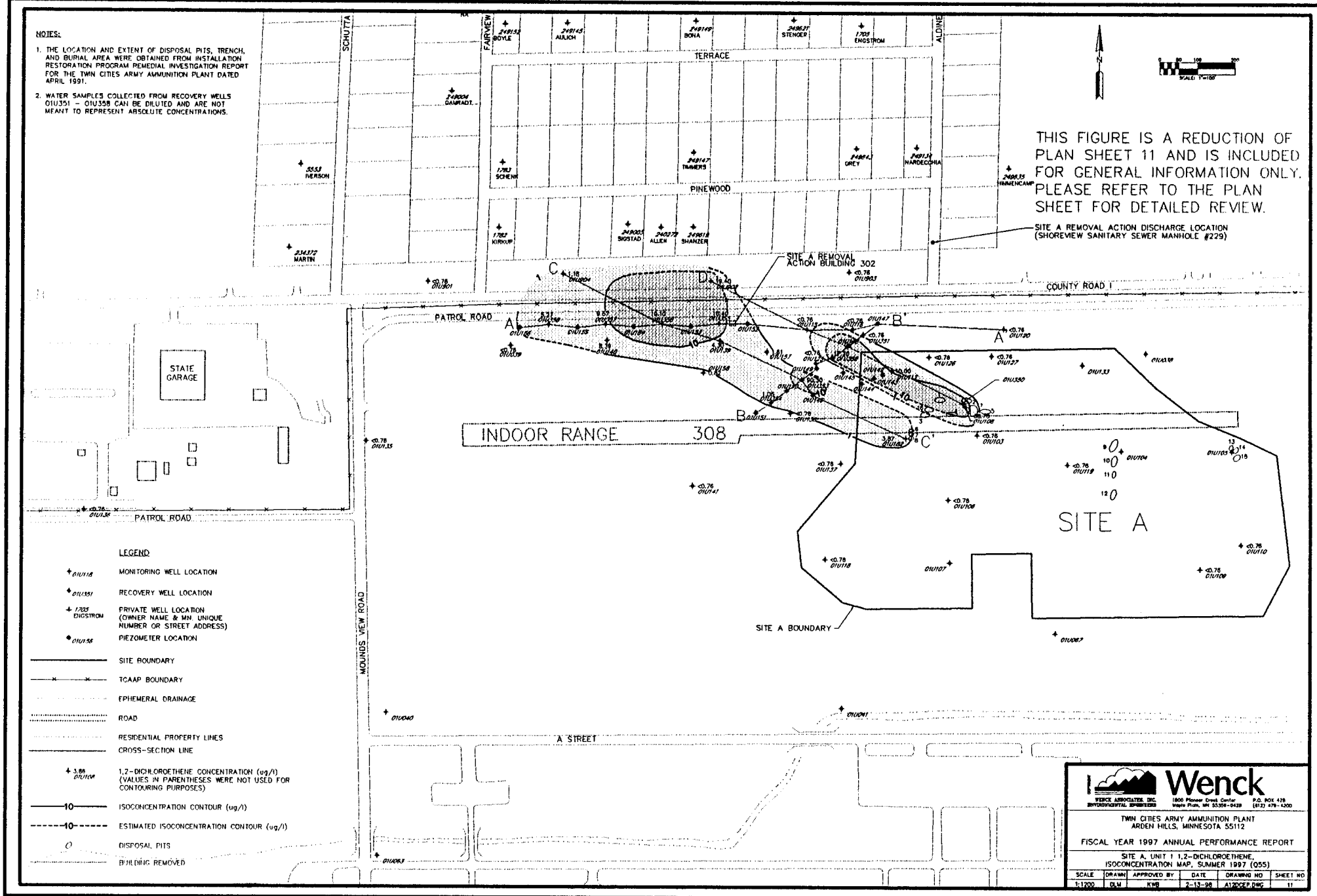
Fig. IV.C-3



TWIN CITIES ARMY AMMUNITION PLANT

Site A, Unit 1 1,2–Dichloroethene Isoconcentration Map, 1996 (Q51) and 1997 (Q55)

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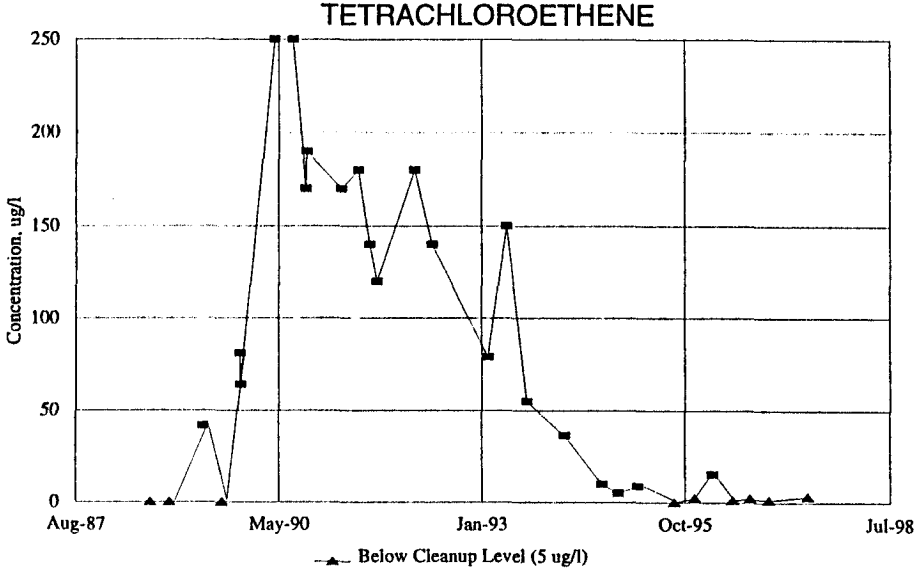
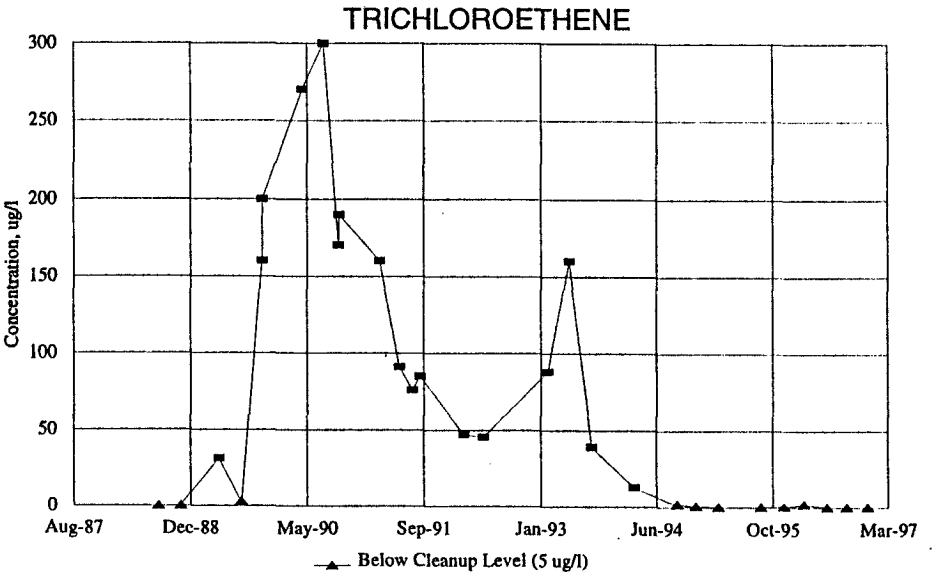
Fig. IV.C–4

SITE A, WELL 01U102, TETRACHLOROETHENE, TRICHLOROETHENE, 1,2-DICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT





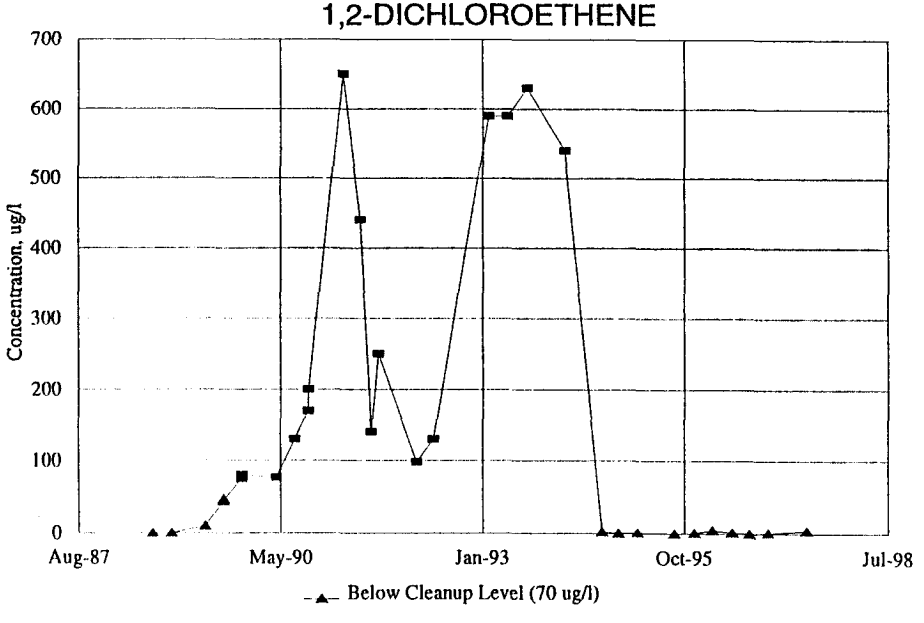


Figure IV.C-5
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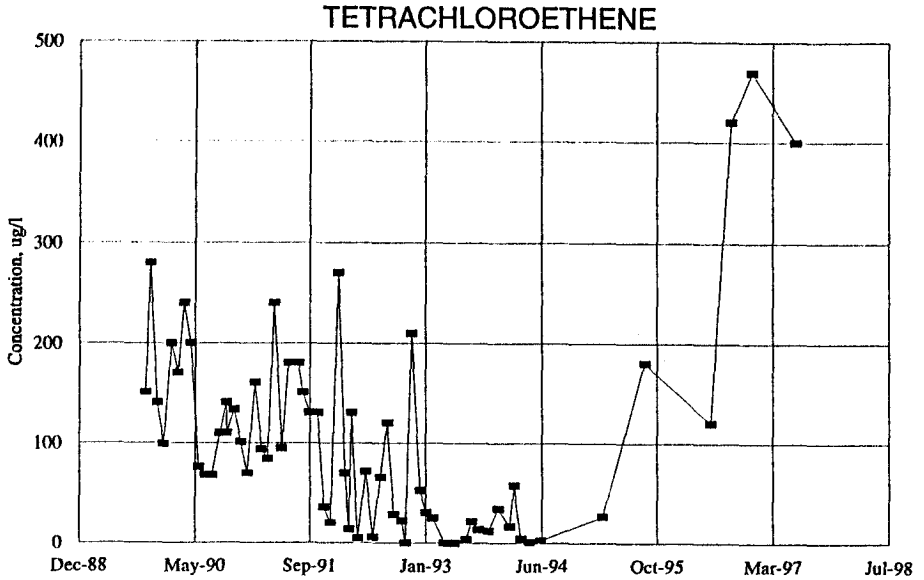
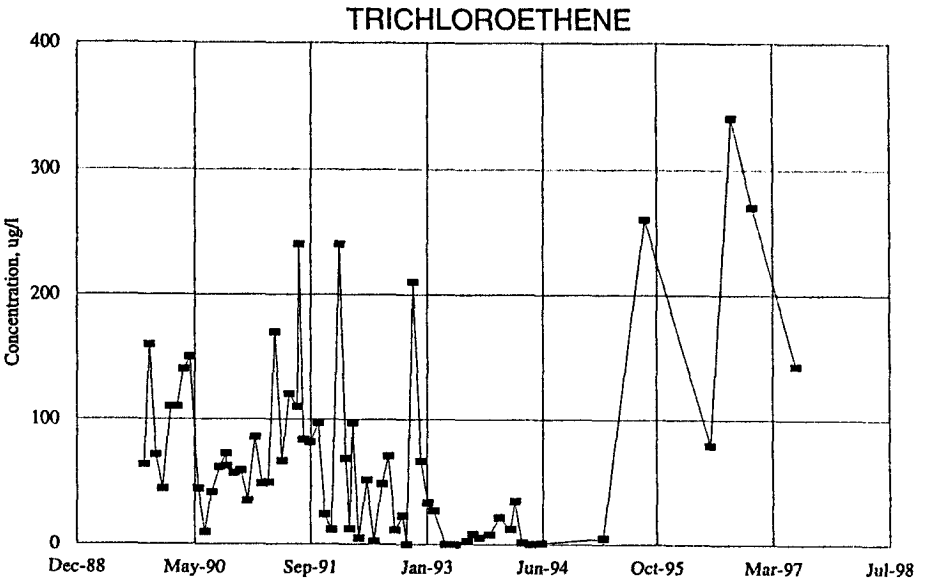
SITE A, WELL 01U108, TETRACHLOROETHENE, TRICHLOROETHENE, 1,2-DICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT





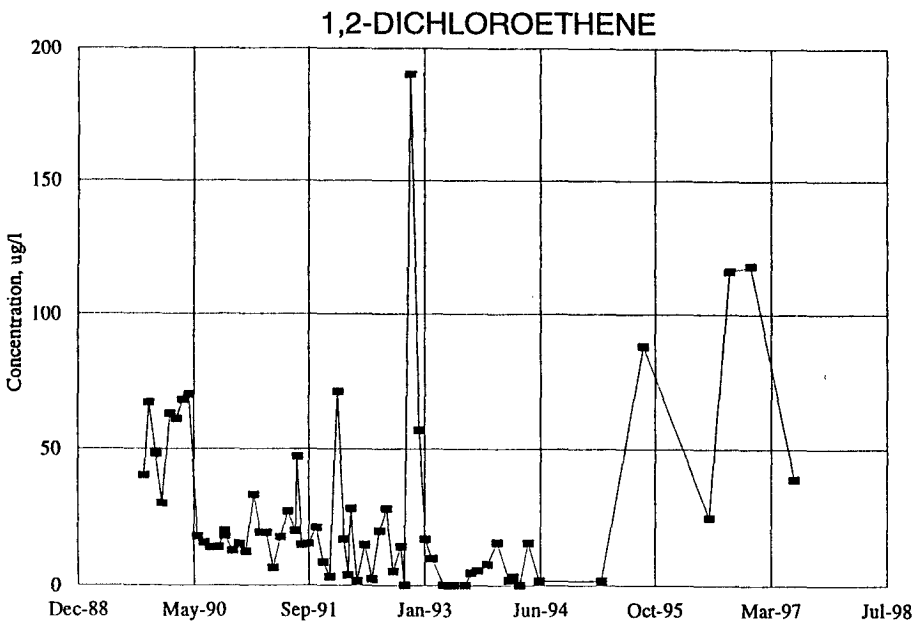
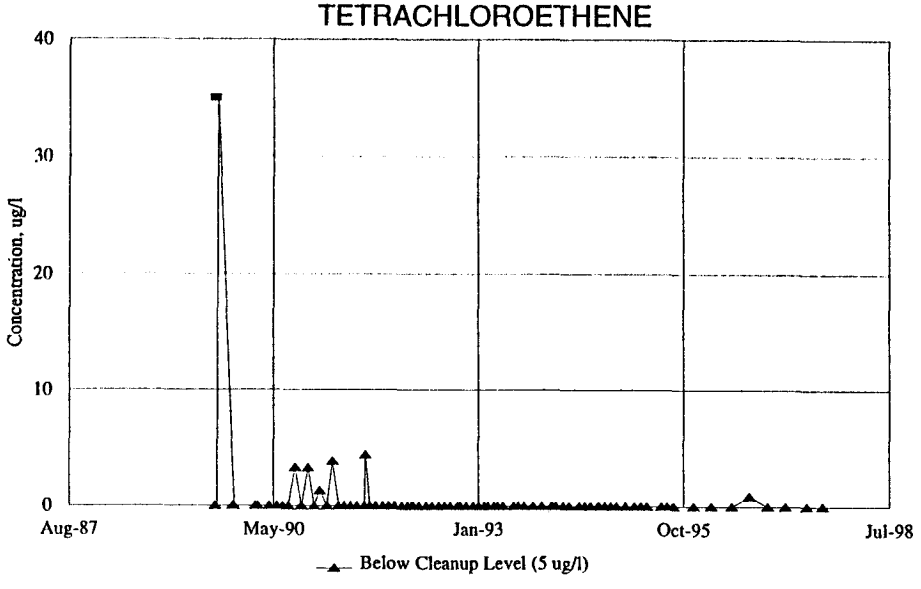
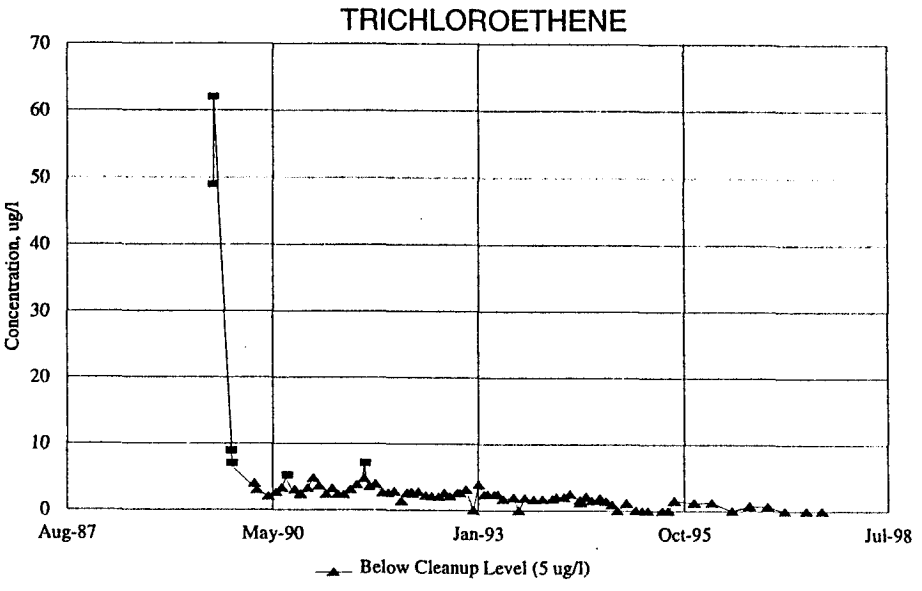


Figure IV.C-6
Wenck Associates, Inc.

SITE A, WELL 01U902, TETRACHLOROETHENE, TRICHLOROETHENE, 1,2-DICHLOROETHENE WATER QUALITY TRENDS
TWIN CITIES ARMY AMMUNITION PLANT





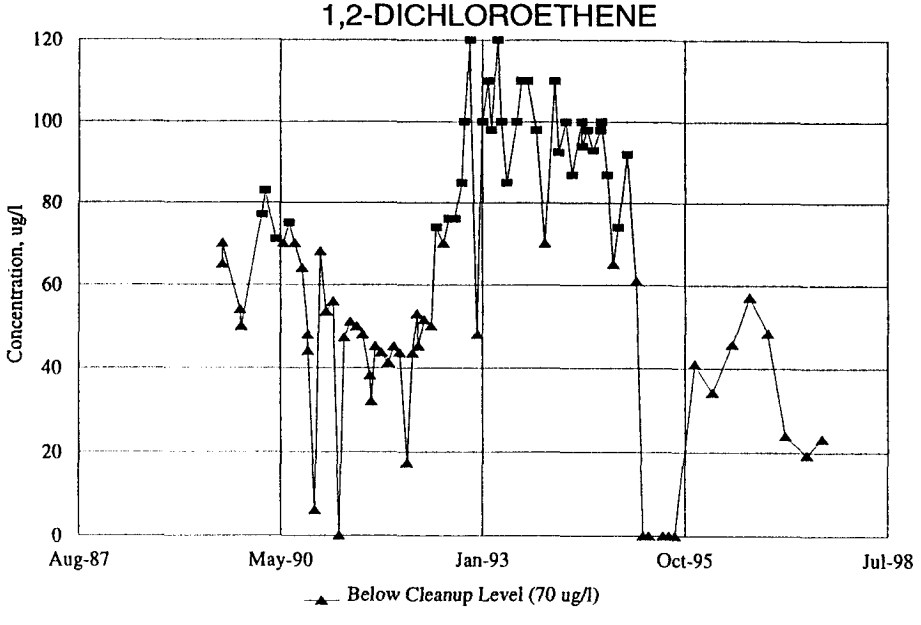
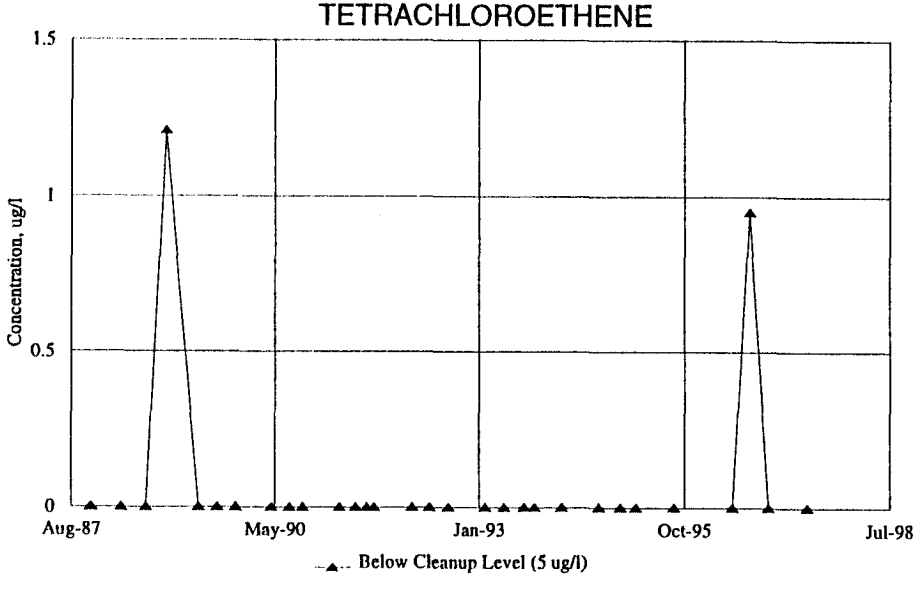
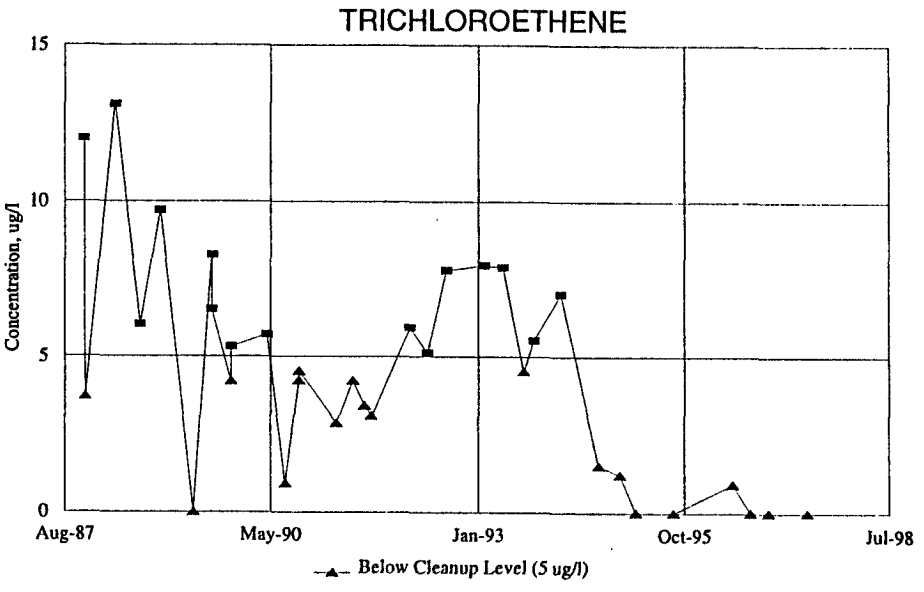


Figure IV.C-7
Wenck Associates, Inc.

SITE A, WELL 01U115, TETRACHLOROETHENE, TRICHLOROETHENE, 1,2-DICHLOROETHENE WATER QUALITY TRENDS

TWIN CITIES ARMY AMMUNITION PLANT





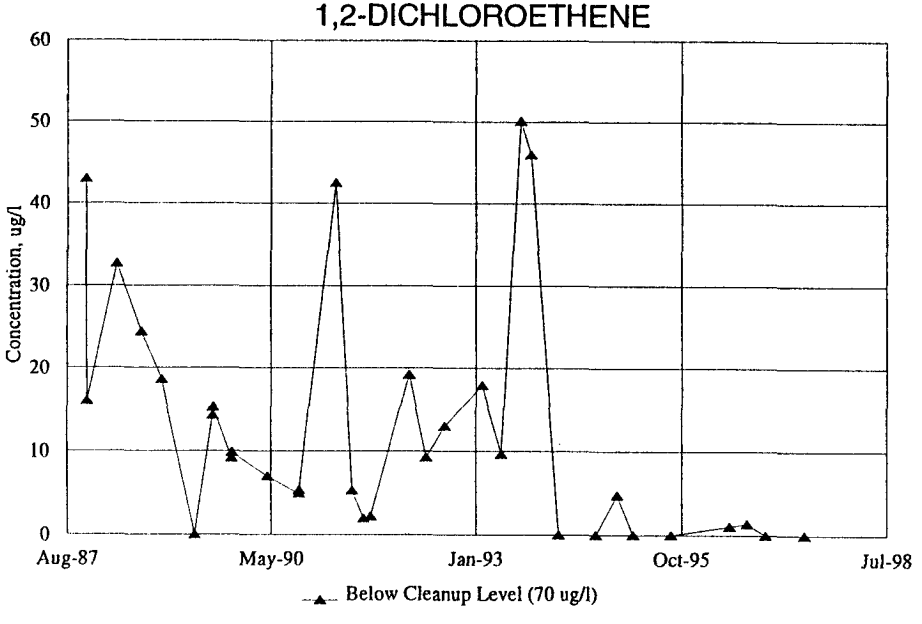
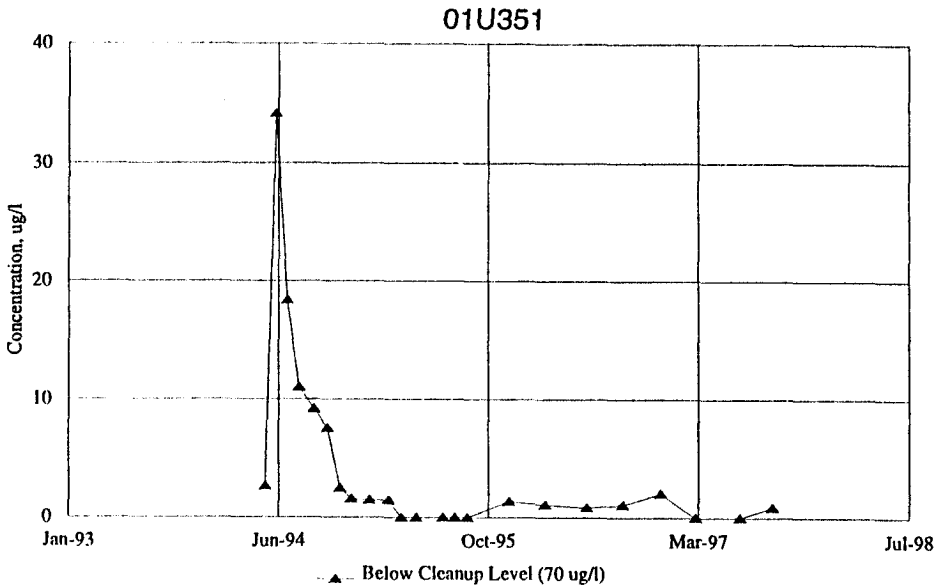
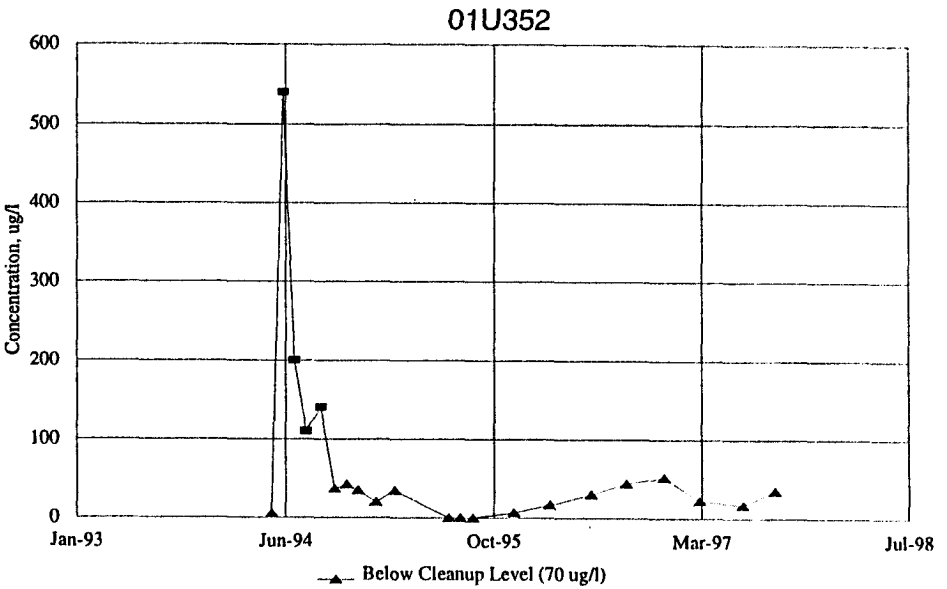


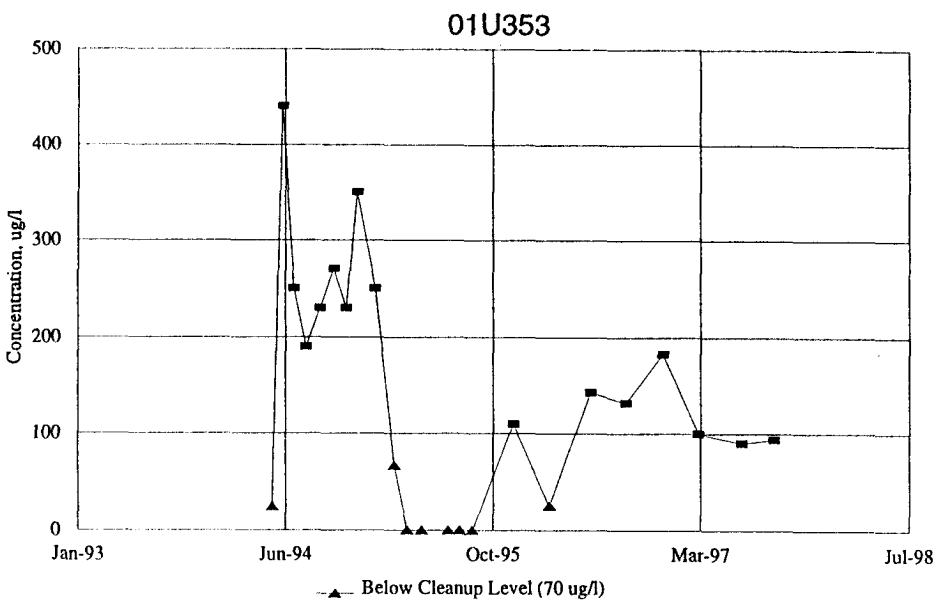
Figure IV.C-8
Wenck Associates, Inc.

SITE A, 1,2-DICHLOROETHENE WATER QUALITY TRENDS: RECOVERY WELLS

TWIN CITIES ARMY AMMUNITION PLANT







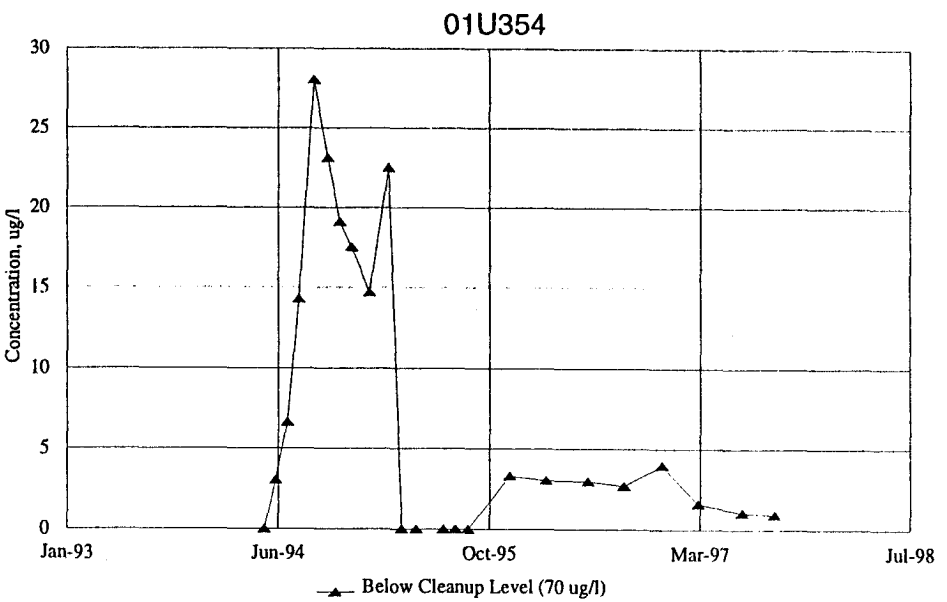
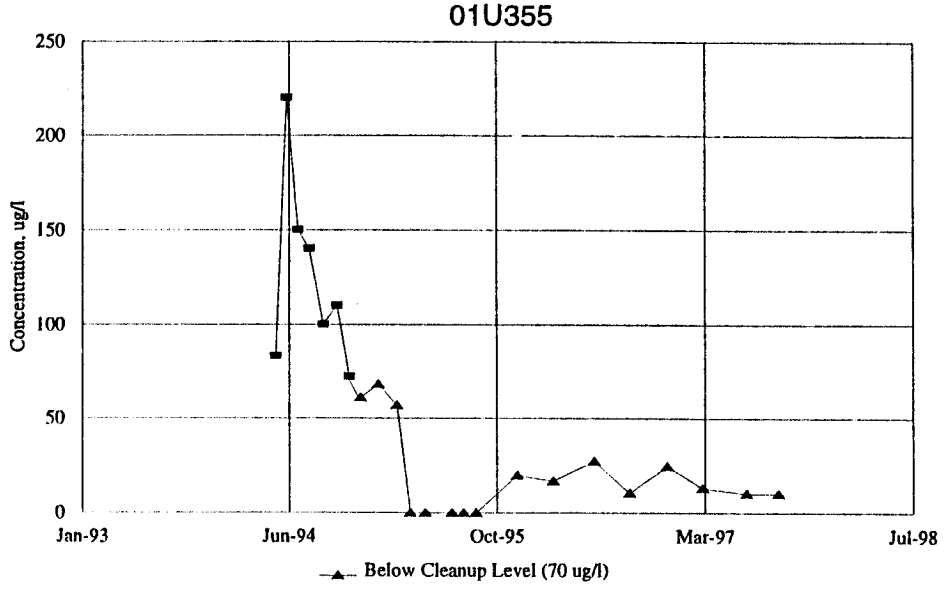
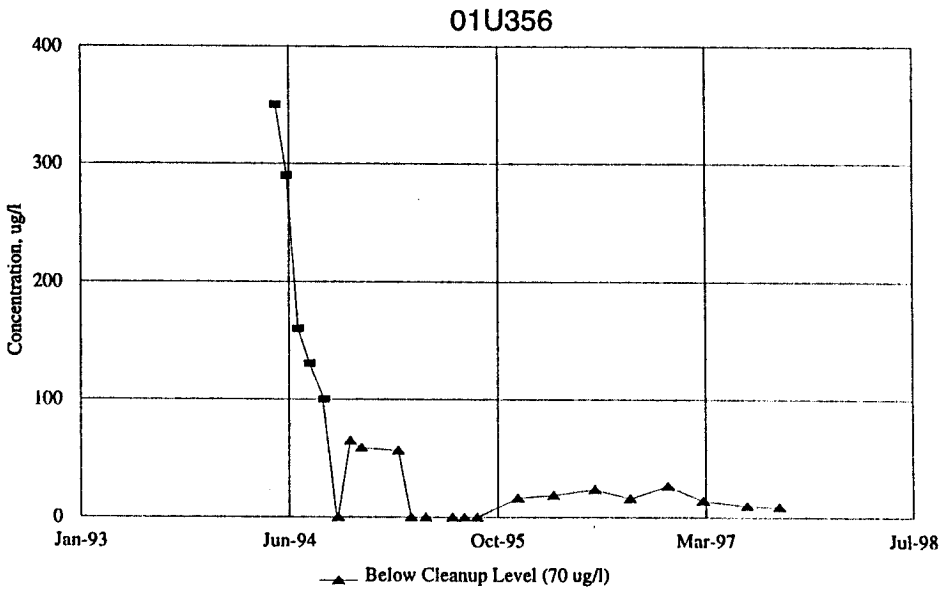


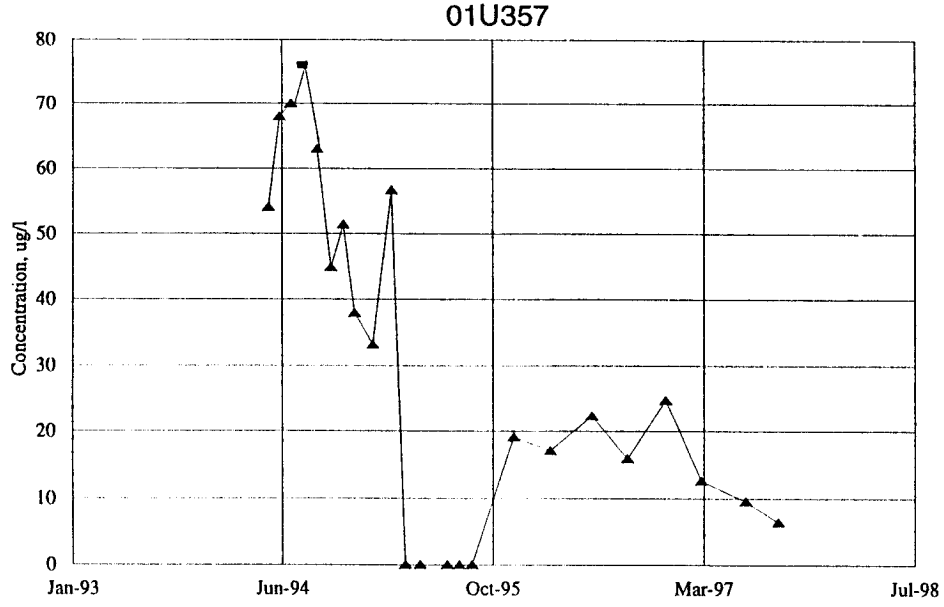
Figure IV.C-9
Wenck Associates, Inc.

SITE A, 1,2-DICHLOROETHENE WATER QUALITY TRENDS: RECOVERY WELLS

TWIN CITIES ARMY AMMUNITION PLANT







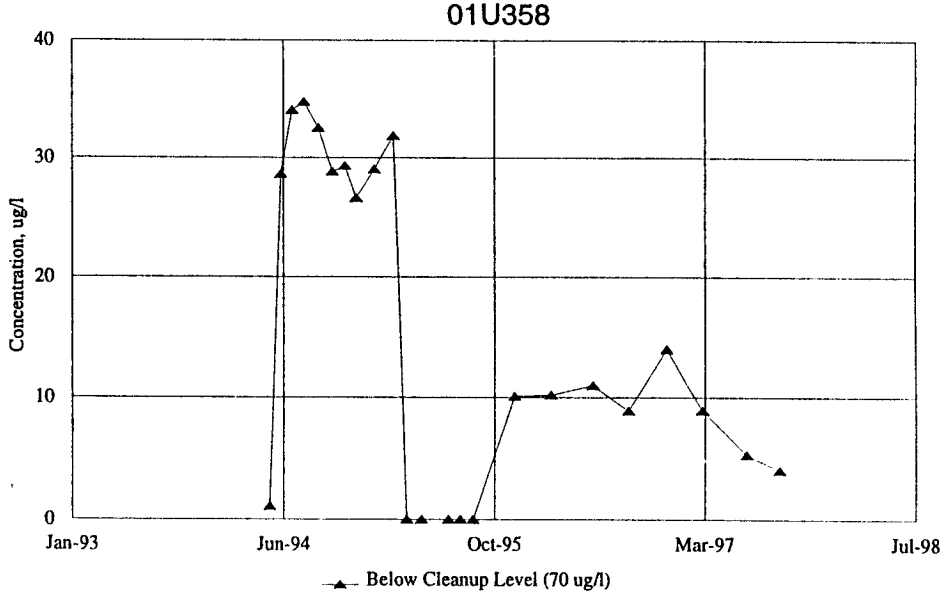


Figure IV.C-10
Wenck Associates, Inc.

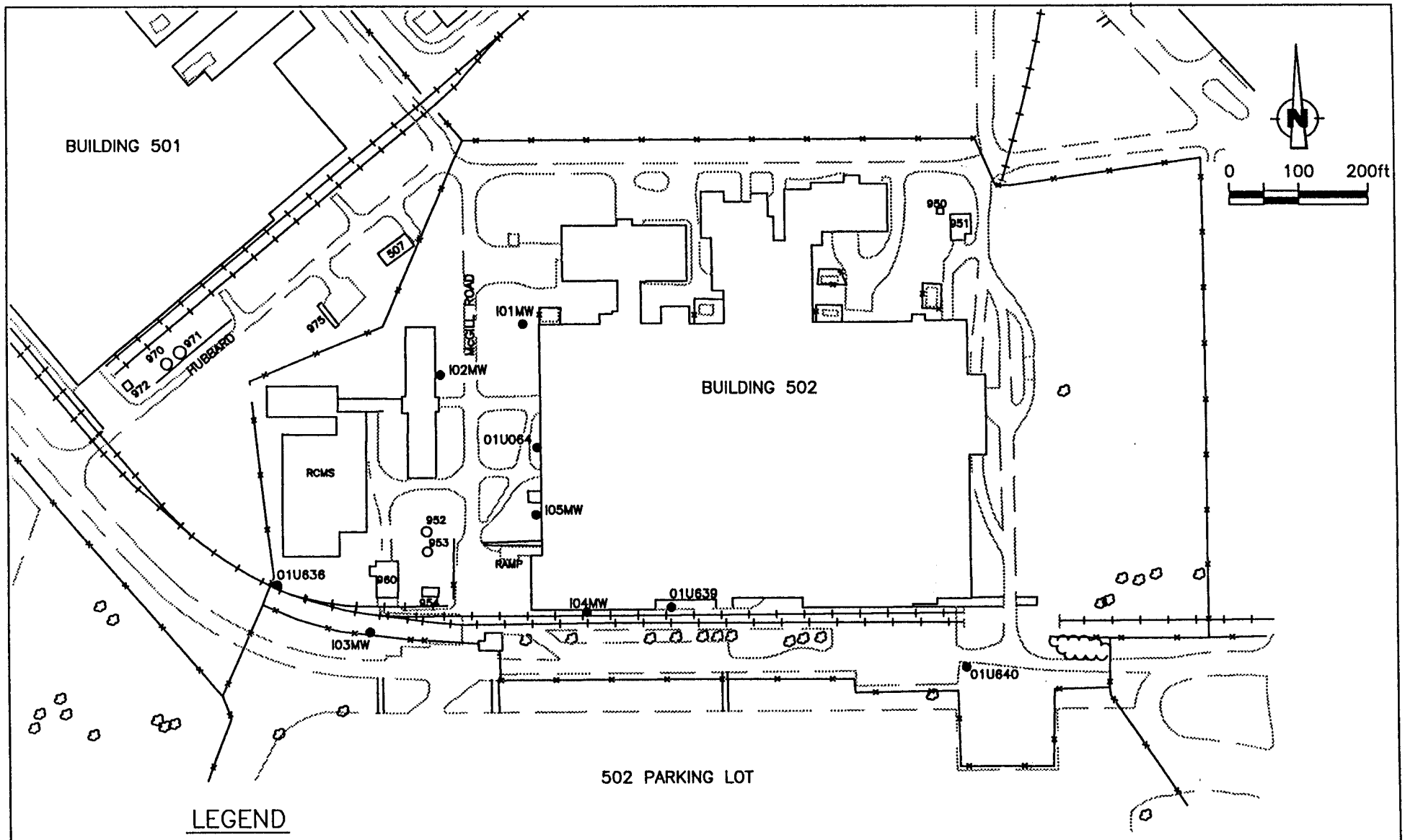


figure IV.D–1

SITE I, UNIT 1 GROUNDWATER QUALITY MONITORING LOCATIONS

Twin Cities Army Ammunition Plant

CRA

4304(A)–DEC. 9/97–REV.0 (M–01)(MN)

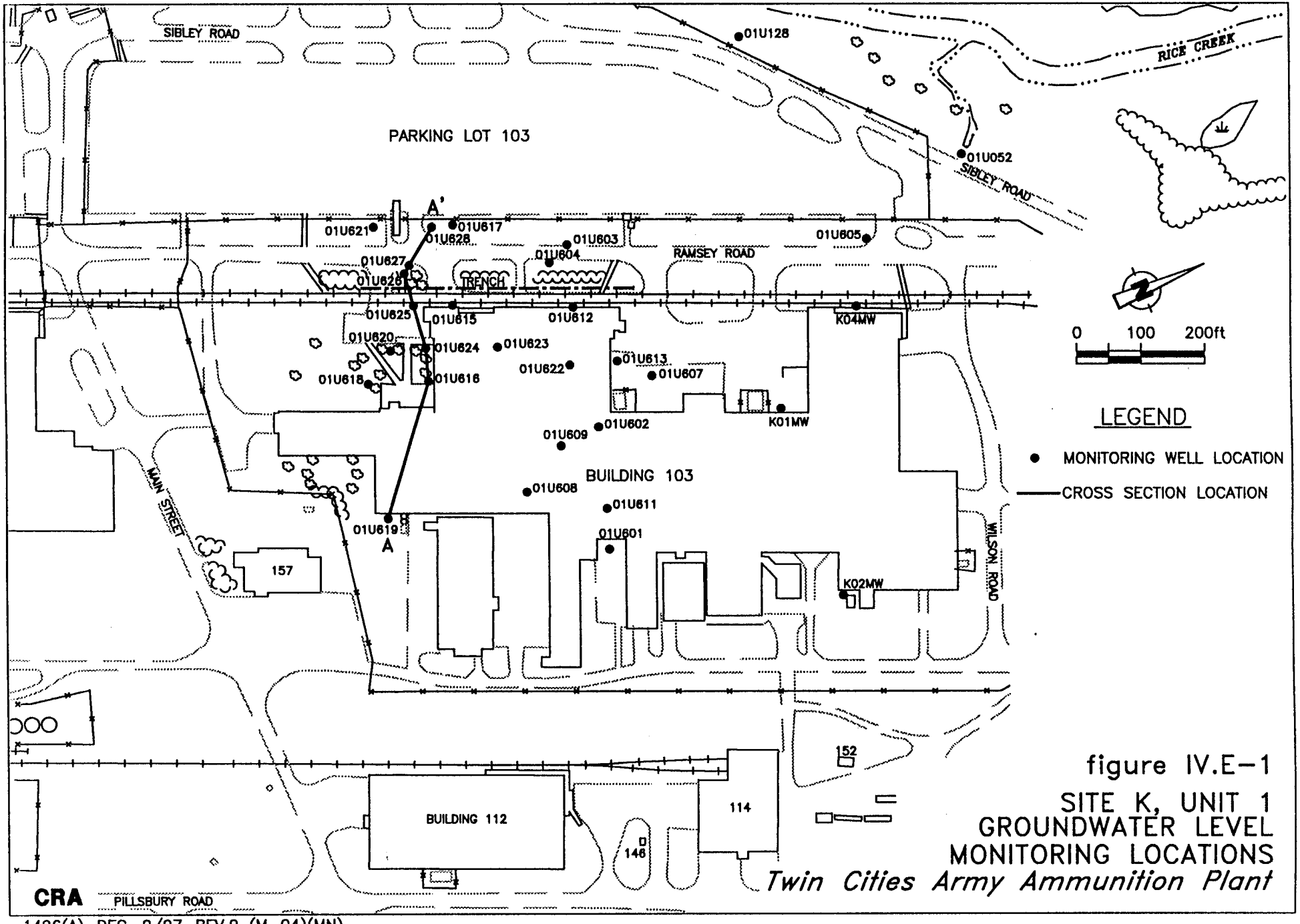
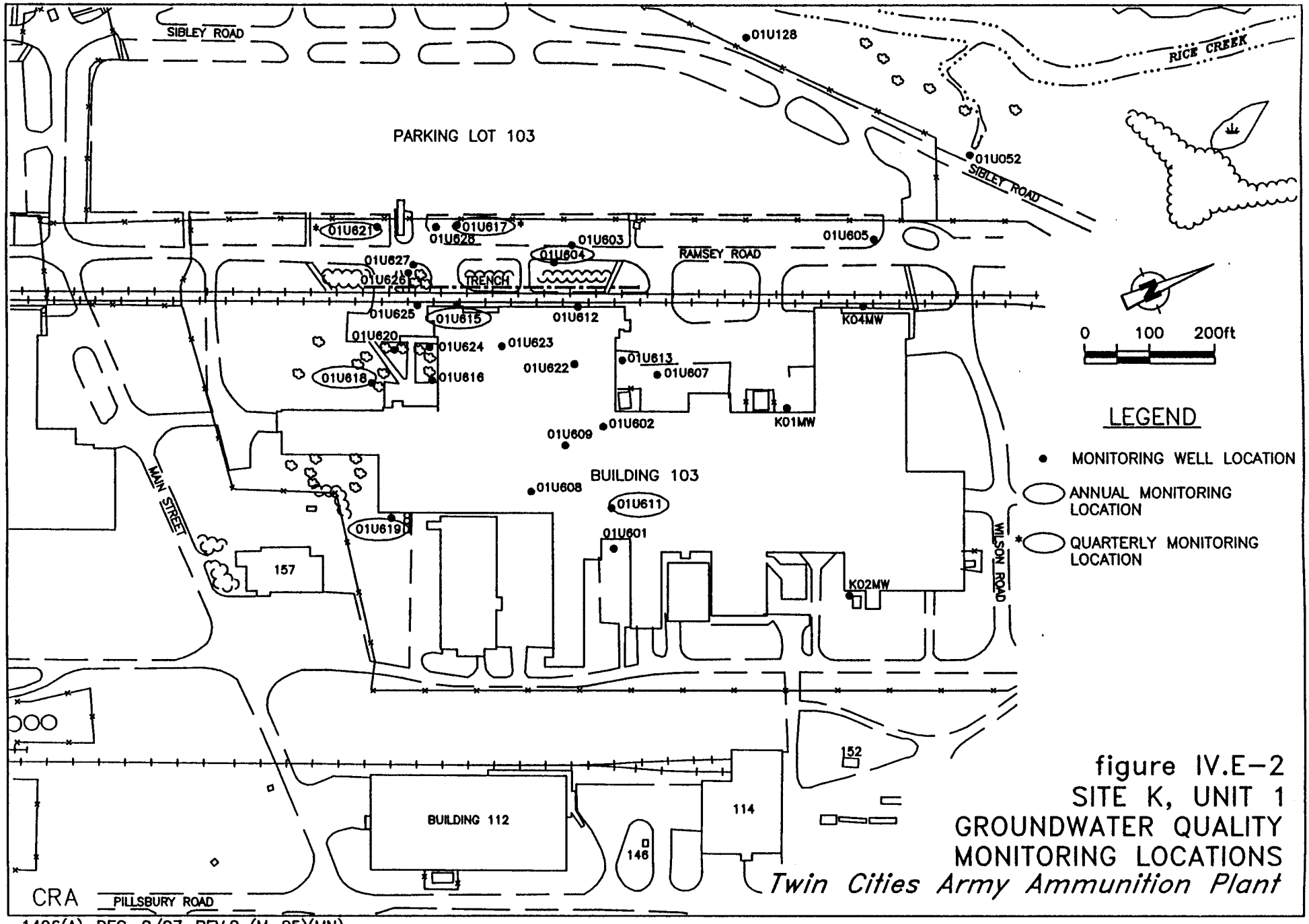


figure IV.E-1

SITE K, UNIT 1
GROUNDWATER LEVEL
MONITORING LOCATIONS

Twin Cities Army Ammunition Plant

1496(A)-DEC. 9/97-REV.0 (M-04)(MN)



1496(A)-DEC. 9/97-REV.0 (M-05)(MN)

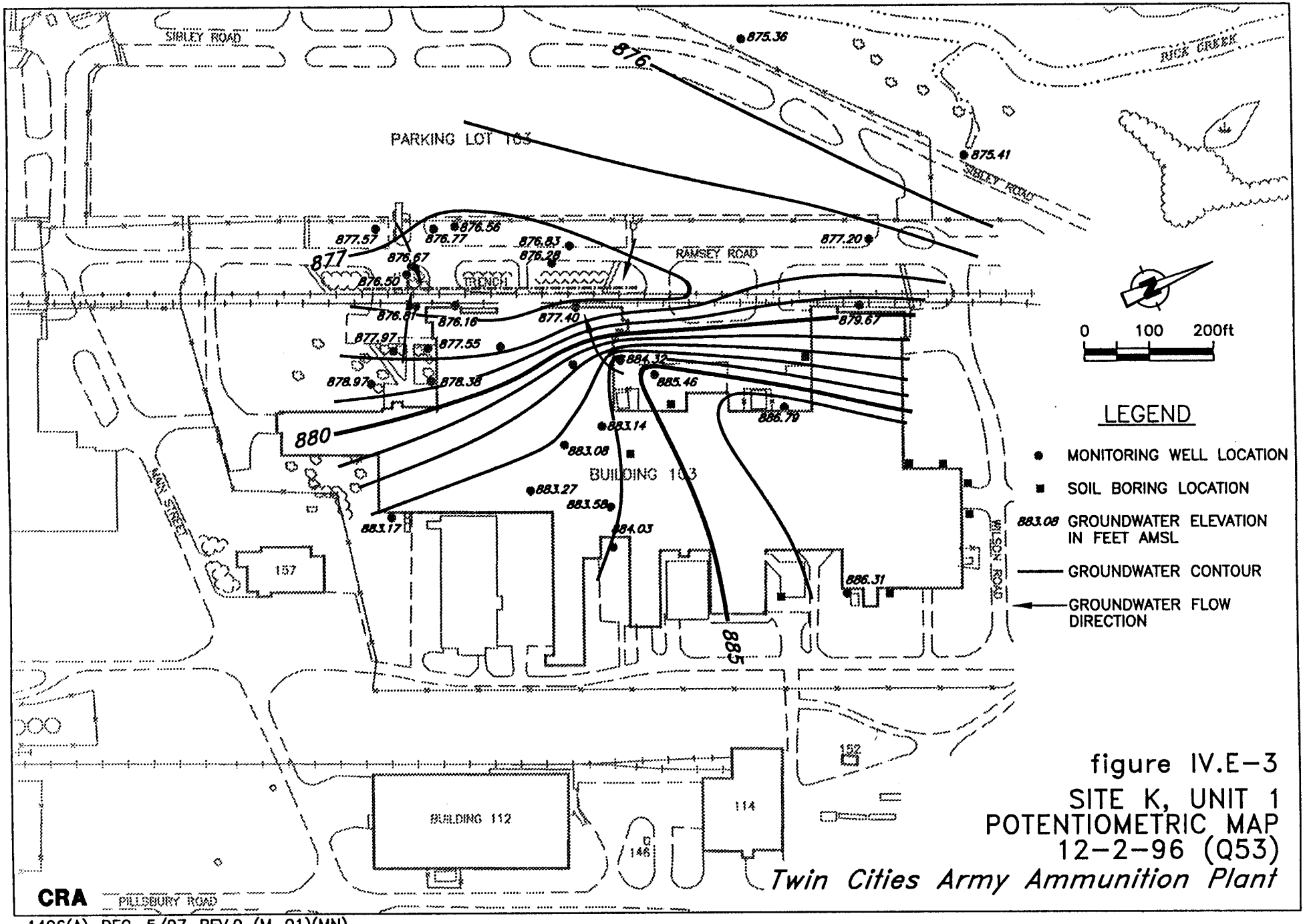


figure IV.E-3
SITE K, UNIT 1
POTENTIOMETRIC MAP
12-2-96 (Q53)
Twin Cities Army Ammunition Plant

1496(A)-DEC. 5/97-REV.0 (M-01)(MN)

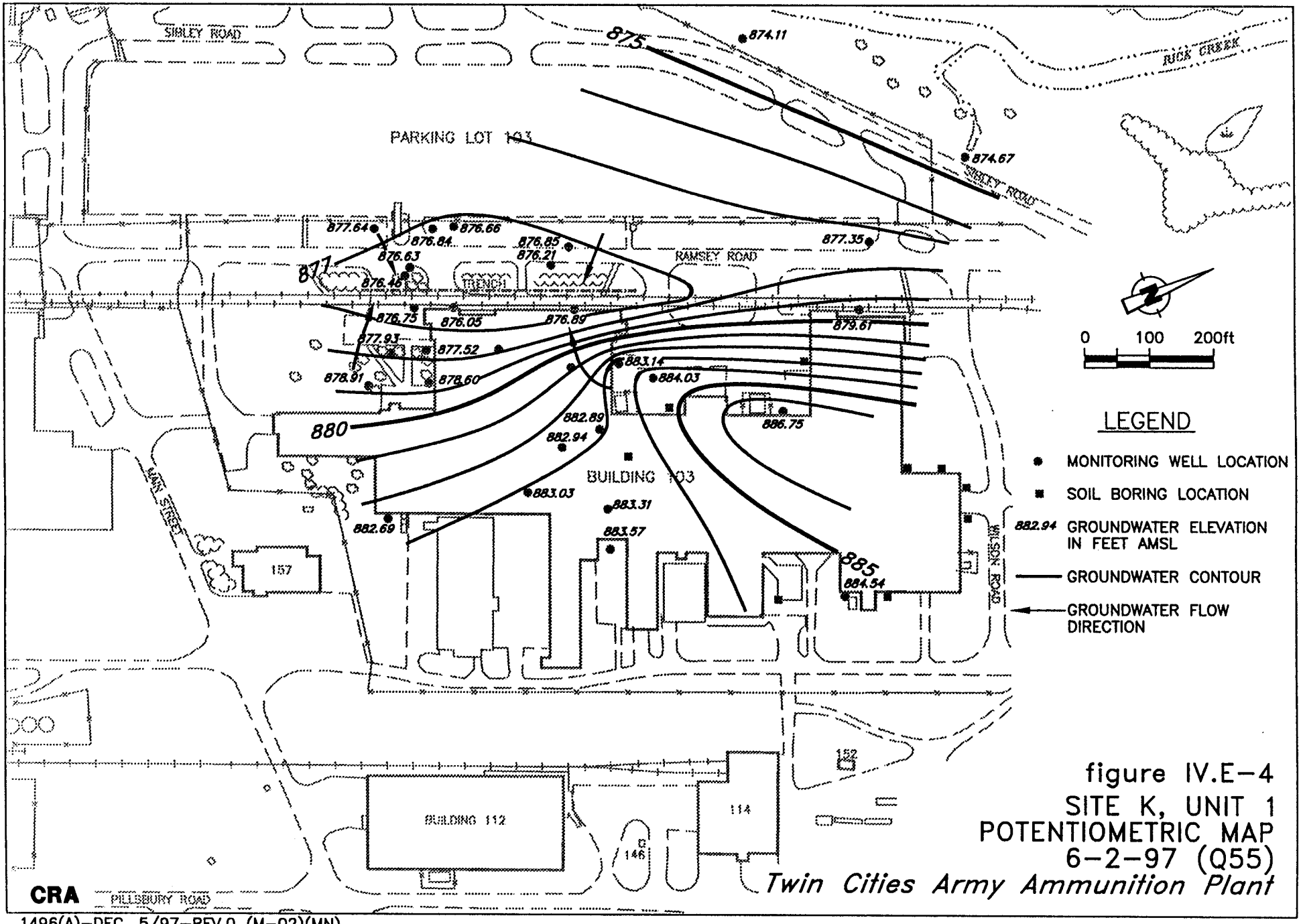
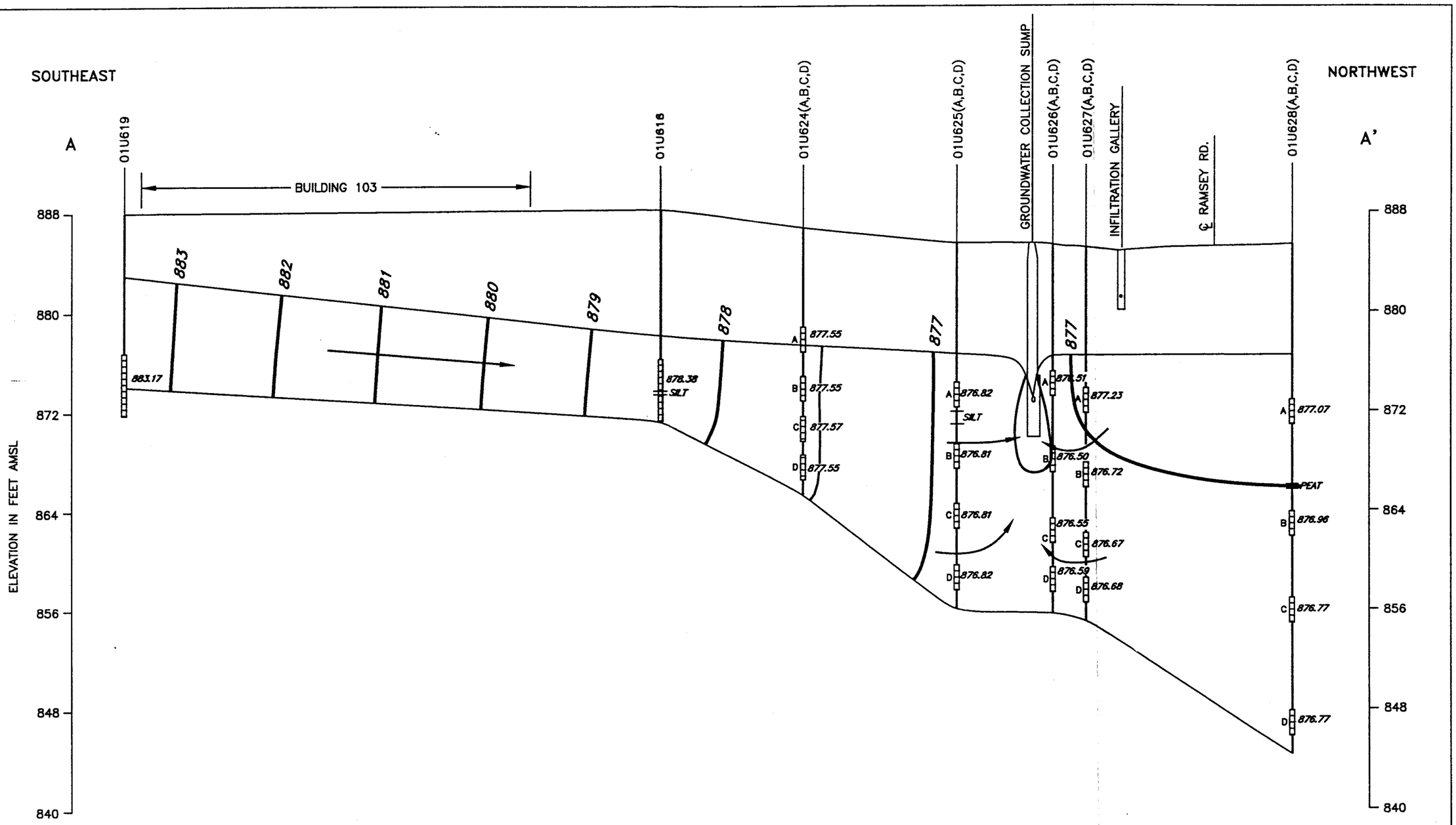


figure IV.E-4
SITE K, UNIT 1
POTENTIOMETRIC MAP
6-2-97 (Q55)
Twin Cities Army Ammunition Plant

CRA

1496(A)-DEC. 5/97-REV.0 (M-02)(MN)



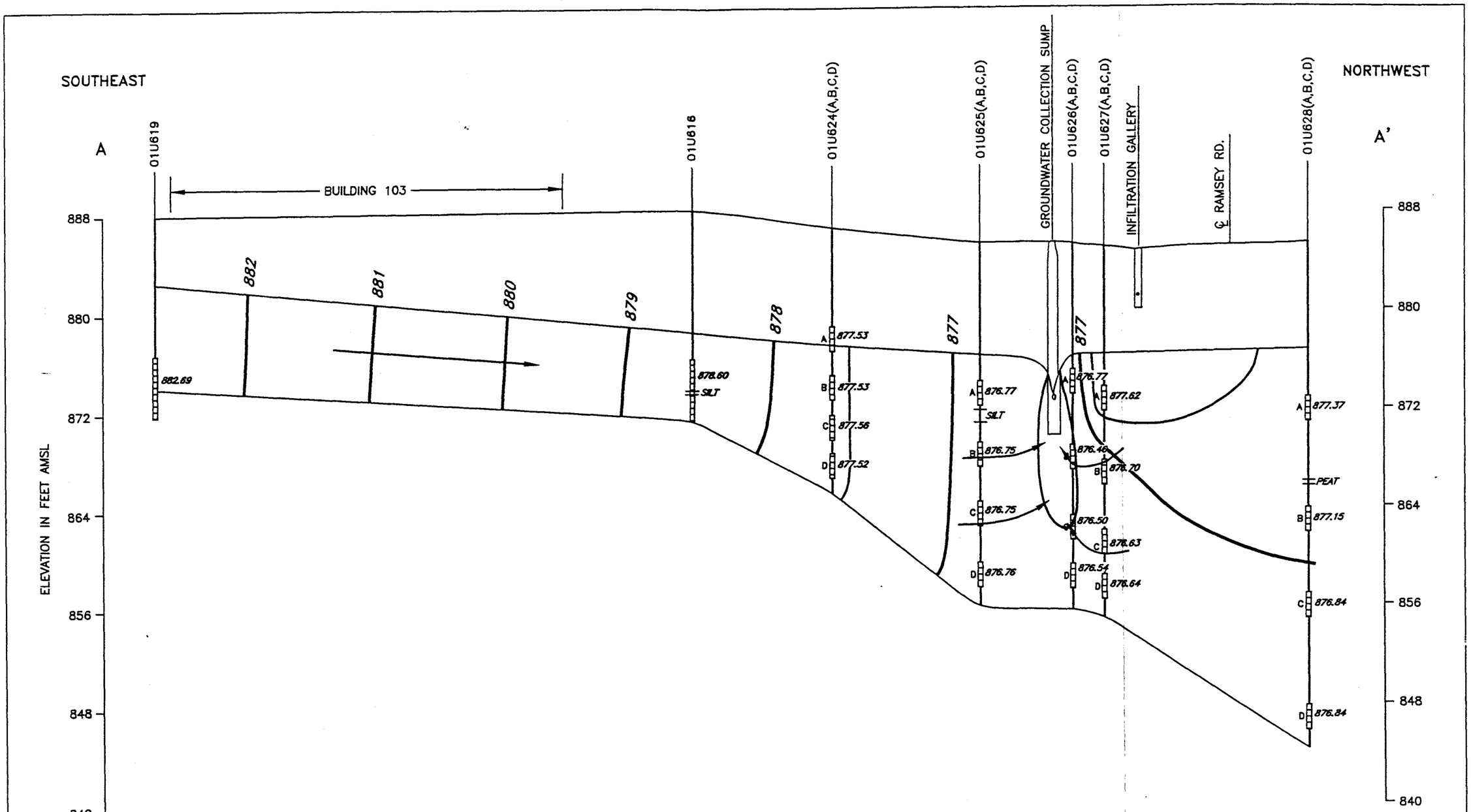
SCALE: 1"=8' VER., 1"=40' HOR.

figure IV.E-5

SITE K, HYDROGEOLOGIC CROSS SECTION A-A'
12-2-96 (Q53)
Twin Cities Army Ammunition Plant

CRA

1496(A)-DEC. 5/97-REV.0 (X-01)(MN)



SCALE: 1"=8' VER., 1"=40' HOR.

figure IV.E-6

SITE K, HYDROGEOLOGIC CROSS SECTION A-A'
6-2-97 (Q55)
Twin Cities Army Ammunition Plant

CRA

1496(A)-DEC. 5/97-REV.0 (X-02)(MN)

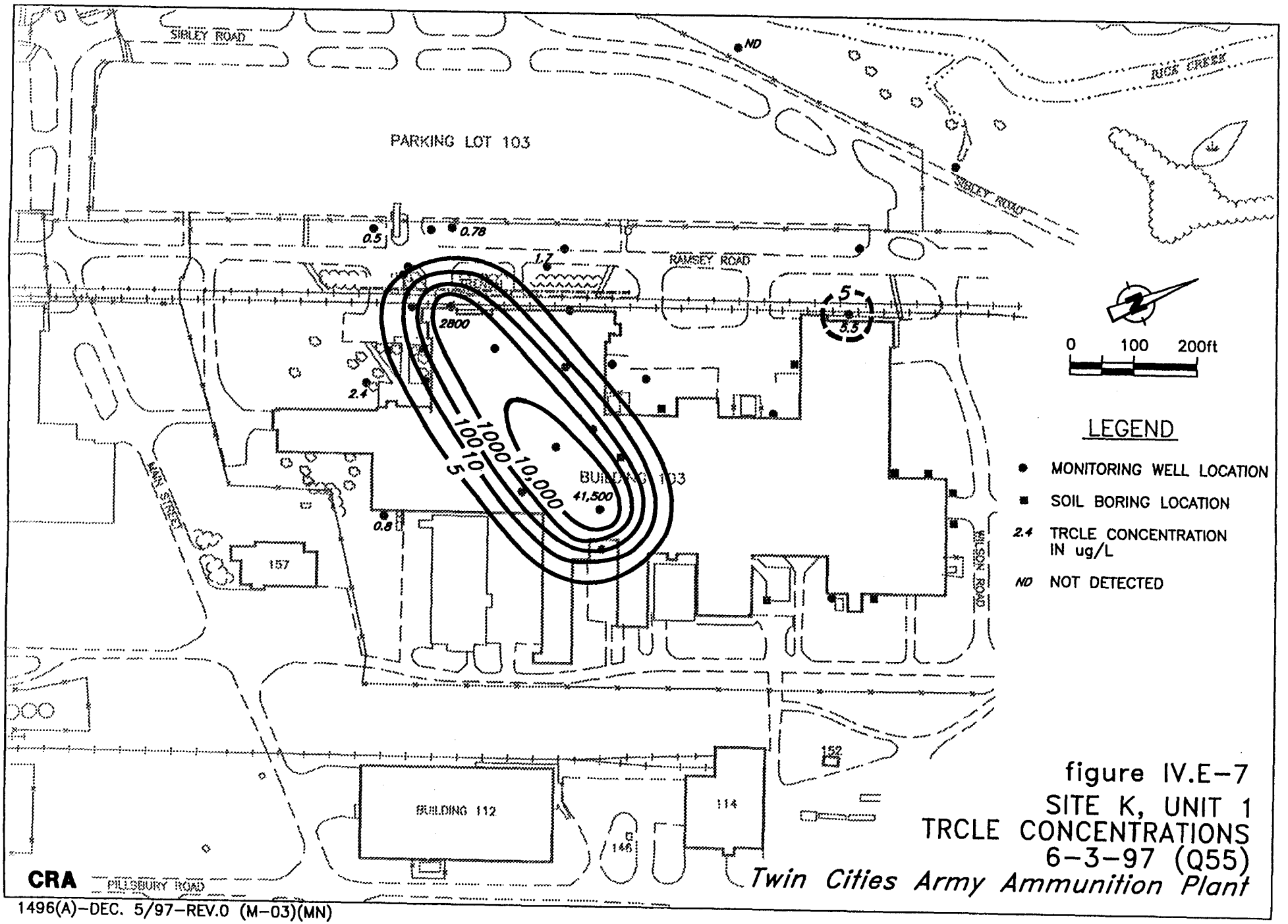


figure IV.E-7
SITE K, UNIT 1
TRCLE CONCENTRATIONS
6-3-97 (Q55)
Twin Cities Army Ammunition Plant

CRA

1496(A)-DEC. 5/97-REV.0 (M-03)(MN)

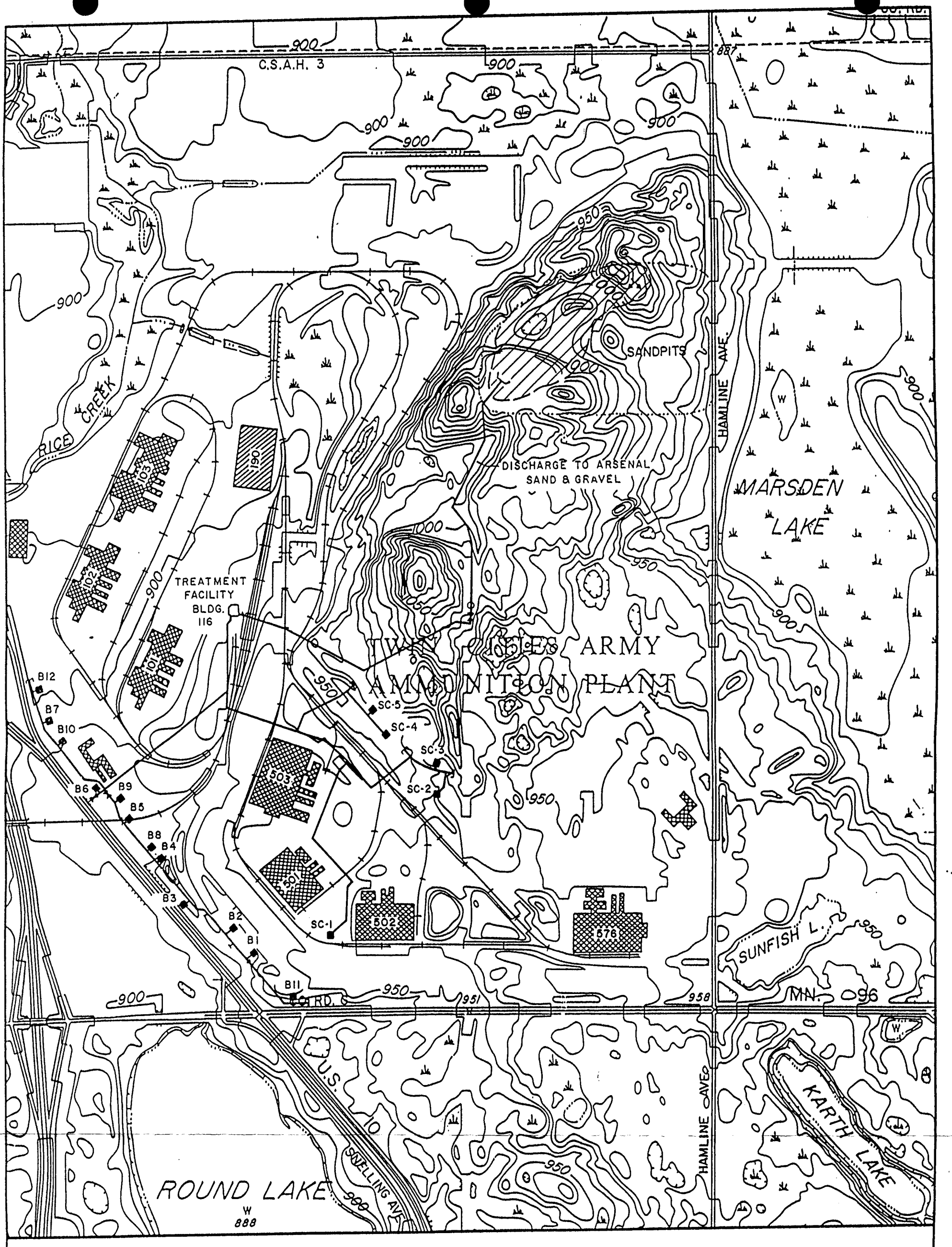
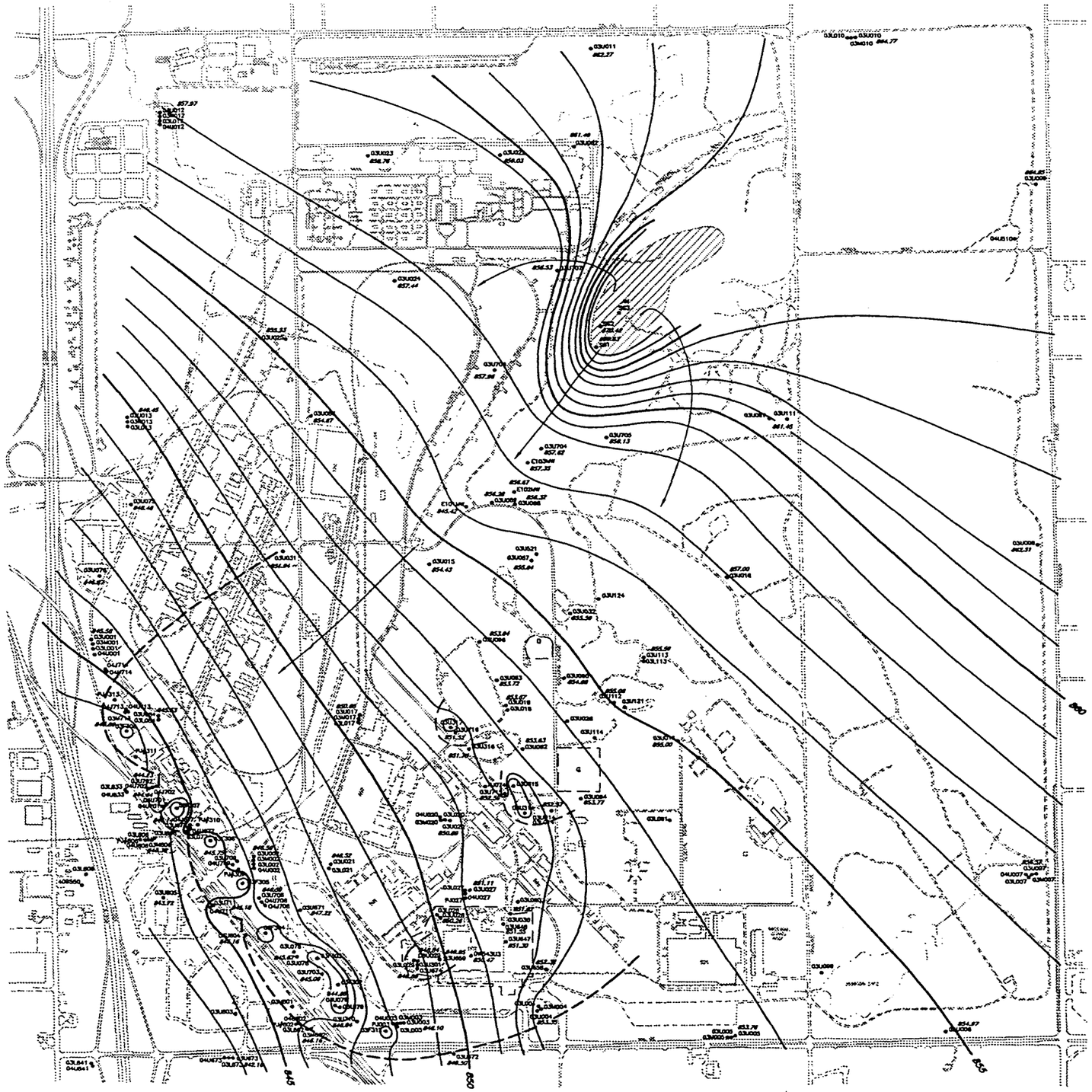


figure IV.F–1
OU2, TGRS LAYOUT
Twin Cities Army Ammunition Plant

CRA

5530( )–DEC. 19/94–REV.0 (MN)



0 200 800ft

LEGEND

- PRIMARY ROAD
- SECONDARY ROAD
- RAILROAD
- DRAINAGE
- BUILDING
- BUILDING REMOVED
- SOURCE AREA
- WELL LOCATION
- 844.62 GROUNDWATER ELEVATION IN FEET AMSL
- GROUNDWATER CONTOUR
- DIRECTION OF GROUNDWATER FLOW
- LIMIT OF CAPTURE
- NOTE: GROUNDWATER CONTOURS ARE INTERPOLATED FROM THE DATA POINTS SHOWN.
- NA NOT AVAILABLE
- ARSENAL SAND AND GRAVEL PIT TREATED WATER DISCHARGE AREA. (APPROXIMATE BOUNDARIES)

EXTRACTION WELL NAME CROSS REFERENCE

E1	03F302
E2	03F303
E3	03F304
E4	03F305
E5	03F306
E6	03F307
E7	03F308
E8	PJ#309
E9	PJ#310
E10	PJ#311
E11	03F312
E12	PJ#313
EC1	03U301
EC2	03U314
EC3	03U315
EC4	03U316
EC5	03U317

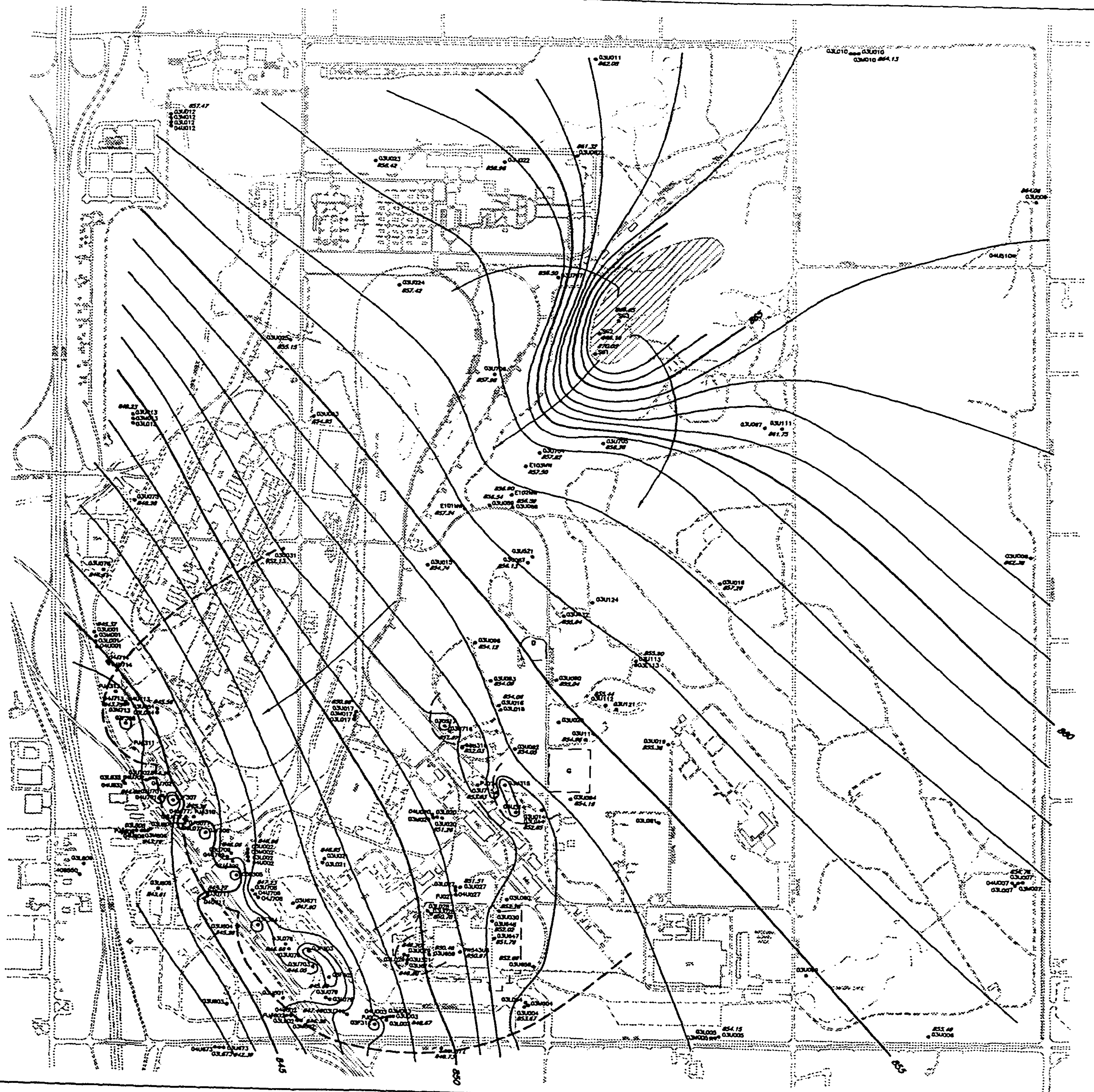
No	Revision	Date	Initial

TWIN CITIES ARMY AMMUNITION PLANT

OU2, UPPER UNIT 3,
POTENTIOMETRIC MAP,
12-2-96 (Q53)

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: CAA	Scale: 1"=800'	Date: DECEMBER 1997	File Number: P-01	
Designed by: CAA	Plot Scale:	Project No: 0348	Drawing No: figure IV.F-2	
Checked by: D.M.S.				



0 300 600ft

LEGEND

PRIMARY ROAD
SECONDARY ROAD
RAILROAD
DRAINAGE
BUILDING
BUILDING REMOVED
SOURCE AREA
WELL LOCATION
844.52 GROUNDWATER ELEVATION IN FEET AMSL
GROUNDWATER CONTOUR
DIRECTION OF GROUNDWATER FLOW
LIMIT OF CAPTURE

NOTE: GROUNDWATER CONTOURS ARE INTERPOLATED FROM THE DATA POINTS SHOWN.

NA NOT AVAILABLE

ARSENAL SAND AND GRAVEL PIT TREATED WATER DISCHARGE AREA (APPROXIMATE BOUNDARIES)

EXTRACTION WELL NAME CROSS REFERENCE

B1	03F302
B2	03F303
B3	03F304
B4	03F305
B5	03F306
B6	03F307
B7	03F308
B8	PJ#309
B9	PJ#310
B10	PJ#311
B11	03F312
B12	PJ#313
SC1	03U301
SC2	03U314
SC3	03U315
SC4	03U316
SC5	03U317

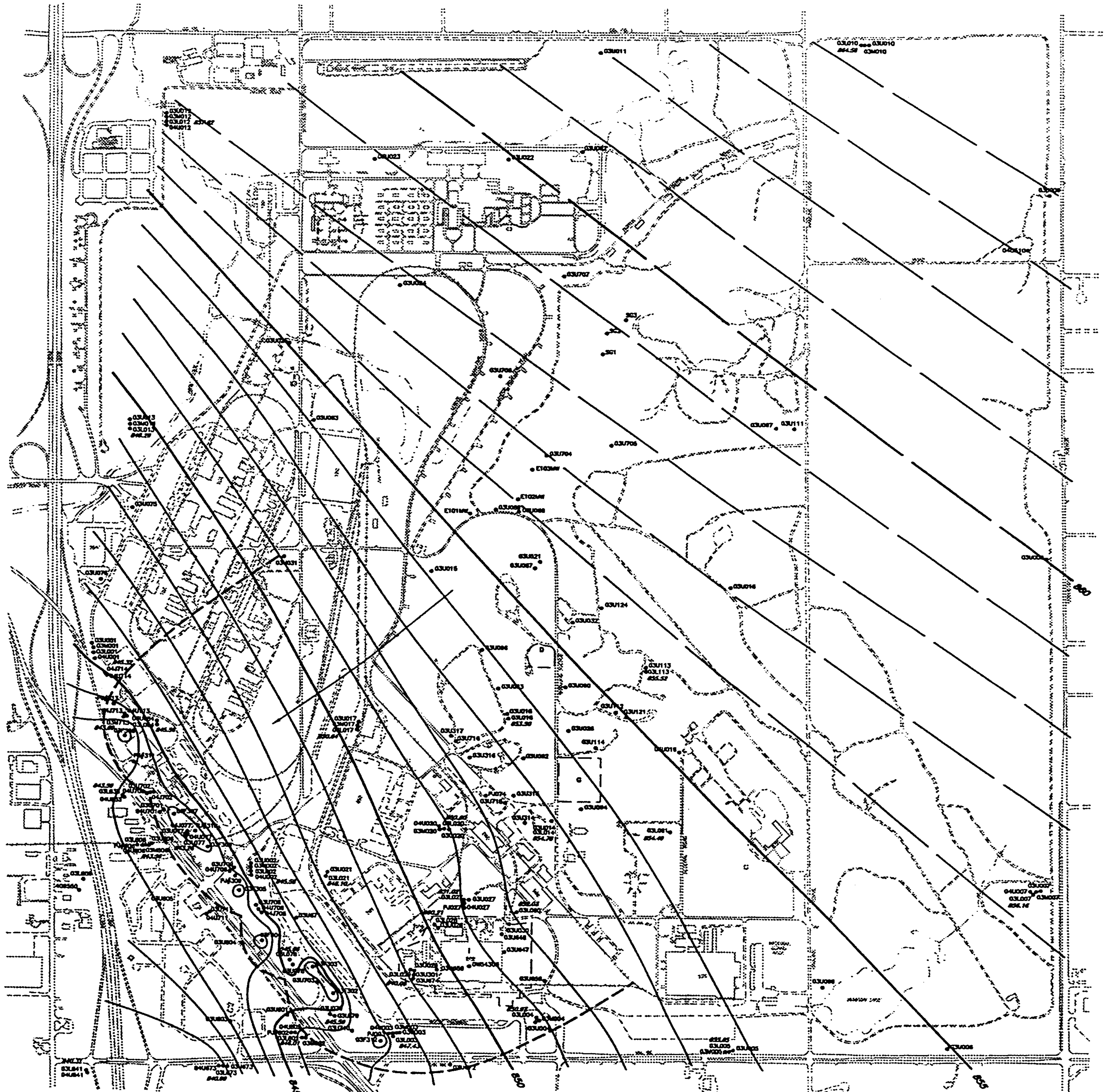
No	Revision	Date	Initial

TWIN CITIES ARMY AMMUNITION PLANT

OU2, UPPER UNIT 3, POTENTIOMETRIC MAP, 5-28-97 (Q55)

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: C.A.A.	Scale: 1"=600'	Date: DECEMBER 1997	P-02
Designed by: C.A.A.			
Checked by: [illegible]	Field book:	Project No: 3340	Drawing No: figure IV.F-3



0 300 600ft

LEGEND

- PRIMARY ROAD
- SECONDARY ROAD
- RAILROAD
- DRAINAGE
- BUILDING
- BUILDING REMOVED
- SOURCE AREA
- WELL LOCATION
- 844.52 GROUNDWATER ELEVATION IN FEET AMSL
- GROUNDWATER CONTOUR
- DIRECTION OF GROUNDWATER FLOW
- LIMIT OF CAPTURE

NOTE: GROUNDWATER CONTOURS ARE INTERPOLATED FROM THE DATA POINTS SHOWN.

NA NOT AVAILABLE

EXTRACTION WELL NAME CROSS REFERENCE

B1	03F302
B2	03F303
B3	03F304
B4	03F305
B5	03F306
B6	03F307
B7	03F308
B8	PJ#309
B9	PJ#310
B10	PJ#311
B11	03F312
B12	PJ#313
SC1	03U301
SC2	03U314
SC3	03U315
SC4	03U316
SC5	03U317

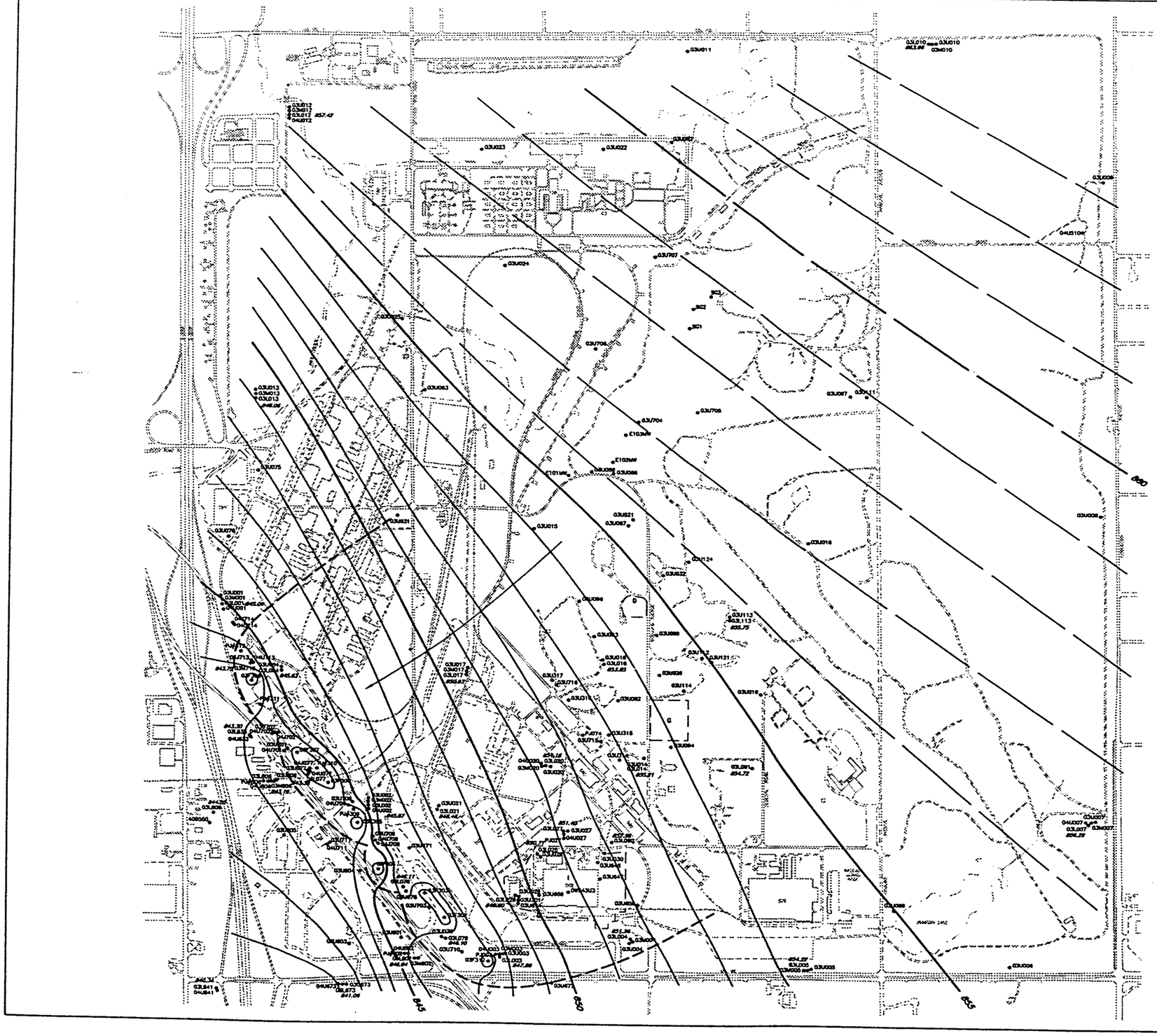
No	Revision	Date	Initial

TWIN CITIES ARMY AMMUNITION PLANT

OU2, LOWER UNIT 3, POTENTIOMETRIC MAP, 12-2-96 (Q53)

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: C.A.A.	Scale: 1"=600'	Date: DECEMBER 1997	File Number: F-65
Designed by: C.A.A.	Field book:	Project No: 8340	Drawing No: figure IV.F-4
Checked by: D.V.S.			


03U011
03U010
03U023
03U022
03U024
03U063
03U075
03U076
03U015
03U016
03U124
03U084
03U083
03U082
03U114
03U121
03U113
03U089
03U088
03U087
03U086
03U085
03U021
03U027
03U030
03U031
03U009
03U008
03U007
03U006
03U005
03U004
03U003
03U002
03U001
03U078
03U077
03U071
03U070
03U069
03U068
03U067
03U066
03U065
03U064
03U063
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03U052
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03U049
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03U047
03U046
03U045
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03U026
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03U021
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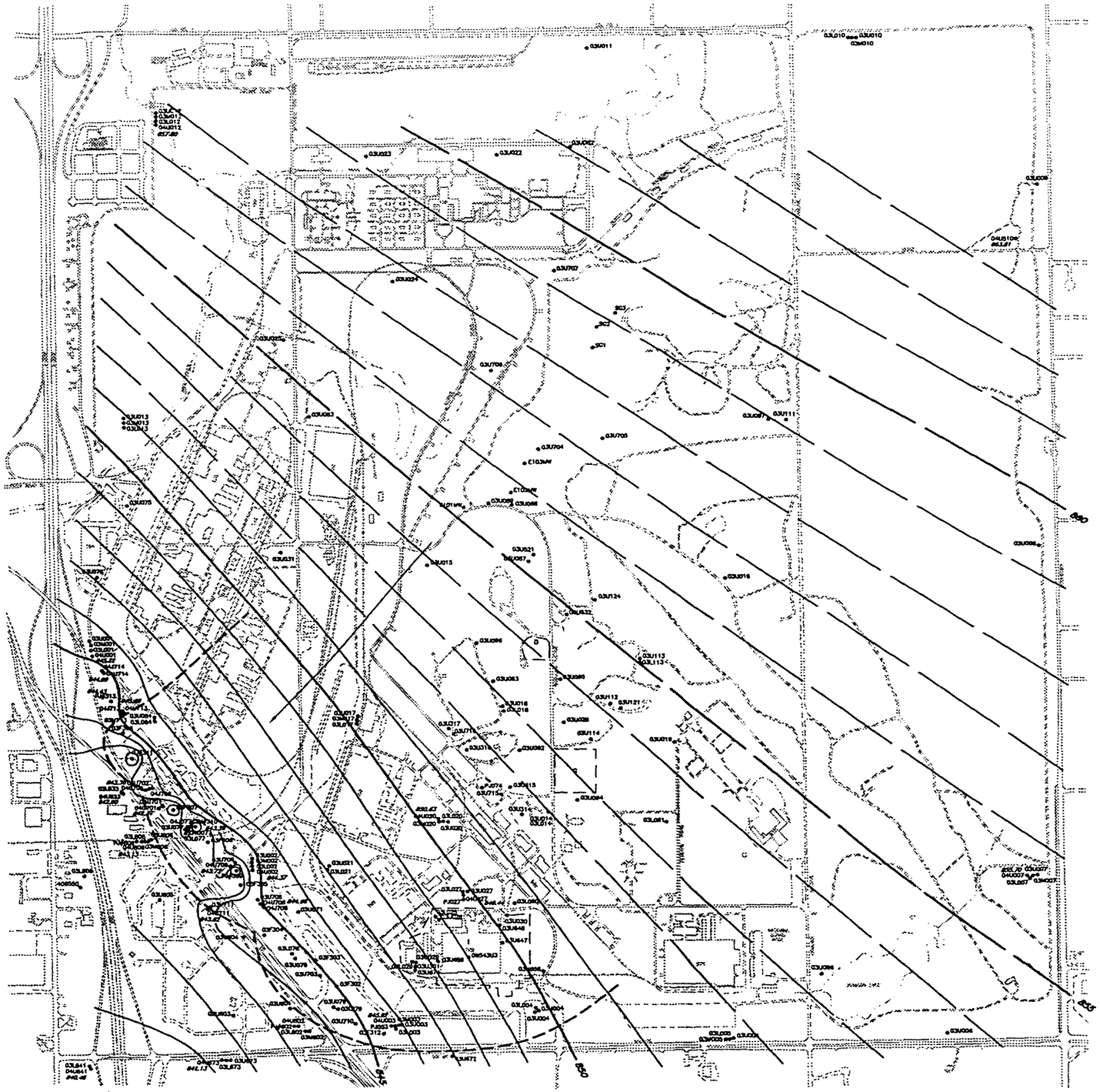
03U014
03U013
03U012
03U011
03U010
03U009
03U008
03U007
03U006
03U005
03U004
03U003
03U002
03U001
645
650
655
N
0
200
SCALE
LEGEND
PRIMARY ROAD
SECONDARY ROAD
RAILROAD
DRAINAGE
BUILDING
BUILDING REMOVED
SOURCE AREA
WELL LOCATION
#44.52 GROUNDWATER ELEVATION IN FEET AMSL
GROUNDWATER CONTOUR
DIRECTION OF GROUNDWATER FLOW
LIMIT OF CAPTURE
NOTE: GROUNDWATER CONTOURS ARE INTERPOLATED FROM THE DATA POINTS SHOWN.
NA NOT AVAILABLE
EXTRACTION WELL NAME CROSS REFERENCE
E1 03F302
E2 03F303
E3 03F304
E4 03F305
E5 03F306
E6 03F307
E7 03F308
E8 PW1309
E9 PW1310
E10 PW1311
E11 03F312
E12 PW1313
SC1 03U301
SC2 03U314
SC3 03U315
SC4 03U316
SC5 03U317
No Revision Date Initial
TWIN CITIES ARMY AMMUNITION PLANT
OU2, LOWER UNIT 3,
POTENTIOMETRIC MAP,
5-28-97 (Q55)
CRA
CONESTOGA-ROVERS & ASSOCIATES
Drawn by: CAA
Designed by: CAA
Checked by: BMS
Scale: 1"=600'
Date: DECEMBER 1997
File No./Rev. No.: F-04
Field book:
Project No.: 6348
Drawing No.: figure IV.F-5



0 200 800ft

LEGEND

- PRIMARY ROAD
- SECONDARY ROAD
- RAILROAD
- DRAINAGE
- BUILDING
- BUILDING REMOVED
- SOURCE AREA
- WELL LOCATION
- 844.52 GROUNDWATER ELEVATION IN FEET AMSL
- GROUNDWATER CONTOUR
- DIRECTION OF GROUNDWATER FLOW
- LIMIT OF CAPTURE

NOTE: GROUNDWATER CONTOURS ARE INTERPOLATED FROM THE DATA POINTS SHOWN.

AN NOT AVAILABLE

EXTRACTION WELL NAME CROSS REFERENCE

#1	03F302
#2	03F303
#3	03F304
#4	03F305
#5	03F306
#6	03F307
#7	03F308
#8	PJ#309
#9	PJ#310
#10	PJ#311
#11	03F312
#12	PJ#313
SC1	03U301
SC2	03U314
SC3	03U315
SC4	03U316
SC5	03U317

No	Revision	Date	Initial

TWIN CITIES ARMY AMMUNITION PLANT

OU2, UPPER UNIT 4,
POTENTIOMETRIC MAP,
12-2-96 (Q53)

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: C.A.A.	Scale: 1"=600'	Date: DECEMBER 1997	File Number: P-08
Designed by: C.A.A.	Field Book:	Project No: 6340	Drawing No: figure IV.F-6
Checked by: B.V.B.			

0 300 600ft

LEGEND

	PRIMARY ROAD
	SECONDARY ROAD
	RAILROAD
	DRAINAGE
	BUILDING
	BUILDING REMOVED
	SOURCE AREA
•	WELL LOCATION
844.57	GROUNDWATER ELEVATION IN FEET AMSL
	GROUNDWATER CONTOUR
	DIRECTION OF GROUNDWATER FLOW
	LIMIT OF CAPTURE
	NOTE: GROUNDWATER CONTOURS ARE INTERPOLATED FROM THE DATA POINTS SHOWN.
NA	NOT AVAILABLE

EXTRACTION WELL NAME CROSS REFERENCE

B1	03F302
B2	03F303
B3	03F304
B4	03F305
B5	03F306
B6	03F307
B7	03F308
B8	PJ#309
B9	PJ#310
B10	PJ#311
B11	03F312
B12	PJ#313
SC1	03U301
SC2	03U314
SC3	03U315
SC4	03U316
SC5	03U317

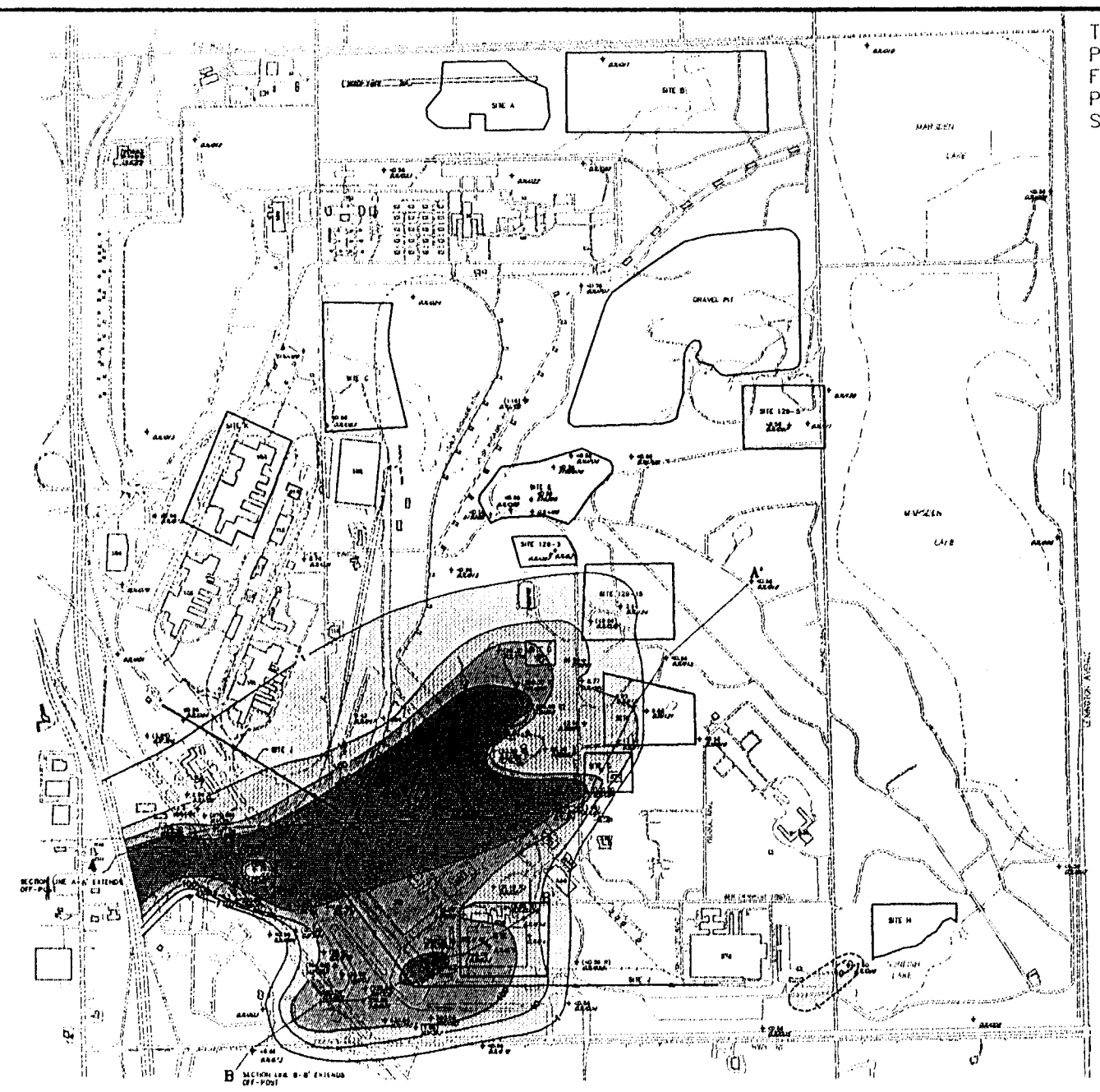
No	Revision	Date	Initial

TWIN CITIES ARMY AMMUNITION PLANT

OU2, UPPER UNIT 4,
POTENTIOMETRIC MAP,
5-28-97 (Q55)

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: C.A.A.	Scale: 1"=600'	Date: DECEMBER 1997	File No: P-08
Designed by: C.A.A.	Field book:	Project No: 6340	Drawing No: figure IV.F-7
Checked by: D.W.S.			



THIS FIGURE IS A REDUCTION OF PLAN SHEET 22 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

N

SCALE IN FEET

FY 1996

LEGEND

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- ROAD
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE
- REJECTED DATA
- BUILDING REMOVED

NOTES:

1. ALL UPPER UNIT 3 WELLS AT THE SITE ARE SHOWN.
2. 03F AND 03U RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT CONCENTRATIONS WERE NOT USED FOR CONTOURING.
3. RECOVERY WELL NAME CONVERSIONS:

03F302	B-1
03F303	B-2
03F304	B-3
03F305	B-4
03F306	B-5
03F307	B-6
03F308	B-7
03F312	B-11
03U301	SC-1
03U314	SC-2
03U315	SC-3
03U318	SC-4
03U317	SC-5

4. DATA SHOWN WITH AN H HAS BEEN REJECTED DUE TO UNACCEPTABLE SPIKE RECOVERIES. THE DATA IS SHOWN IN PARENTHESIS BUT IS NOT USED FOR CONTOURING PURPOSES.

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ARDEN HILLS, MN 55112

FISCAL YEAR 1996 ANNUAL MONITORING REPORT

OU2, UPPER UNIT 3 TRICHLOROETHENE ISOCONCENTRATION MAP, SUMMER 1996 (Q51)

SCALE	DRAWN	APPROVED BY	DATE	DRAWING NO	SHEET NO
1:8000	D.M.	MPJ	8-18-97	(M:\)[TRICL ORG	22

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OU2, Upper Unit 3 Trichloroethene Isoconcentration Map, Summer 1996 (Q51)

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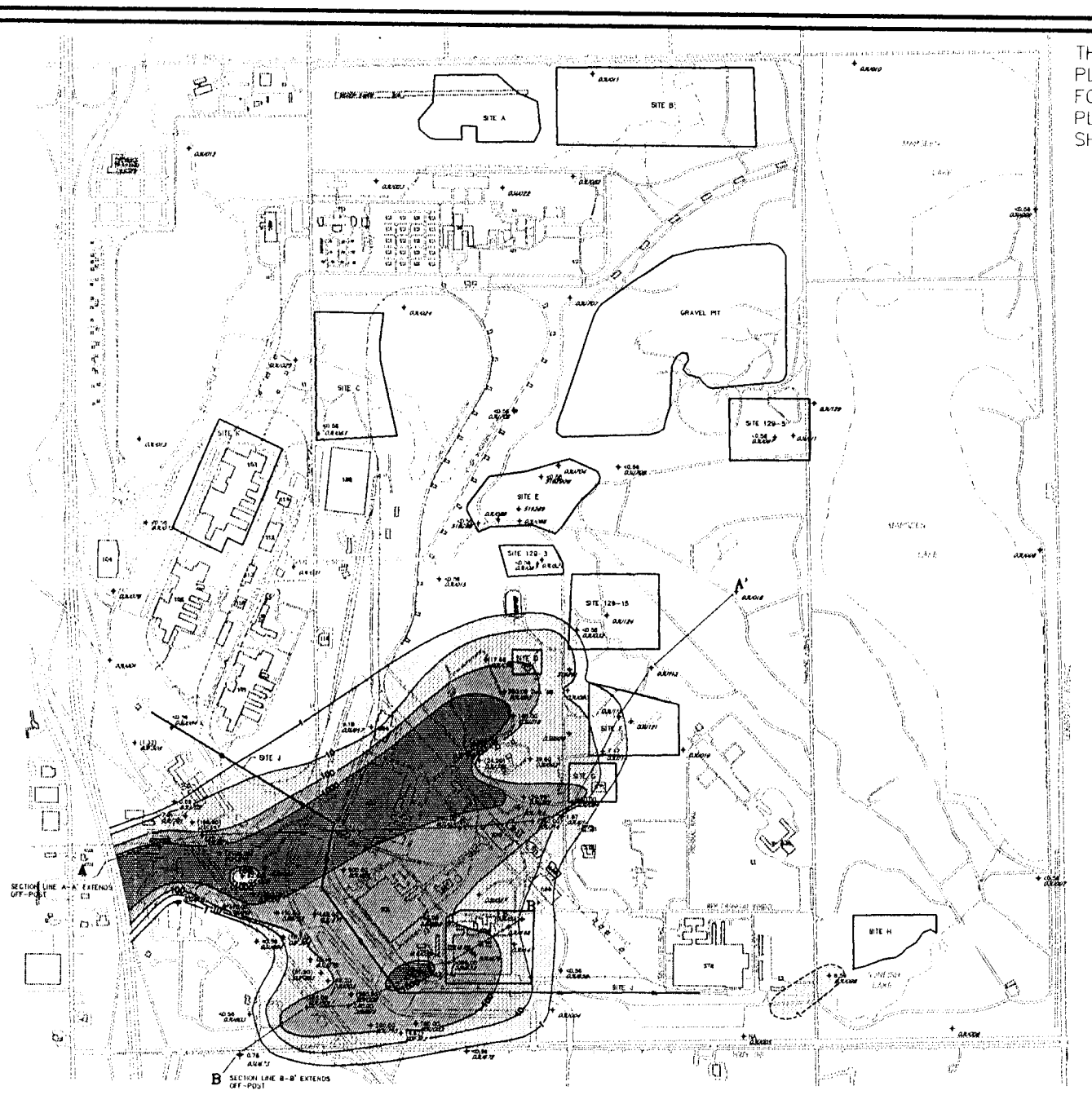
SEPT 1997



THIS FIGURE IS A REDUCTION OF PLAN SHEET 18 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

N

SCALE IN FEET

LEGEND

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- ROAD
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE
- BUILDING REMOVED

NOTES:

1. ALL UPPER UNIT 3 WELLS AT THE SITE ARE SHOWN.
2. 03F AND 03U RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT CONCENTRATIONS WERE NOT USED FOR CONTOURING.
3. RECOVERY WELL NAME CONVERSIONS:

03F302	B-1
03F303	B-2
03F304	B-3
03F305	B-4
03F306	B-5
03F307	B-6
03F308	B-7 (SHUT OFF)
03F312	B-11
03U301	SC-1
03U314	SC-2
03U315	SC-3
03U318	SC-4
03U317	SC-5

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OU2, UPPER UNIT 3 TRICHLOROETHENE ISOCONCENTRATION MAP, SUMMER 1997 (Q55)

SCALE	DRAWN	APPROVED BY	DATE	DRAWING NO	SHEET NO
1:8000	D.M.	KWB	2-13-98	Q4U3/TRCL ORG	18

TWIN CITIES ARMY AMMUNITION PLANT

OU2, Upper Unit 3 Trichloroethene Isoconcentration Map, 1996 (Q51) and 1997 (Q55)

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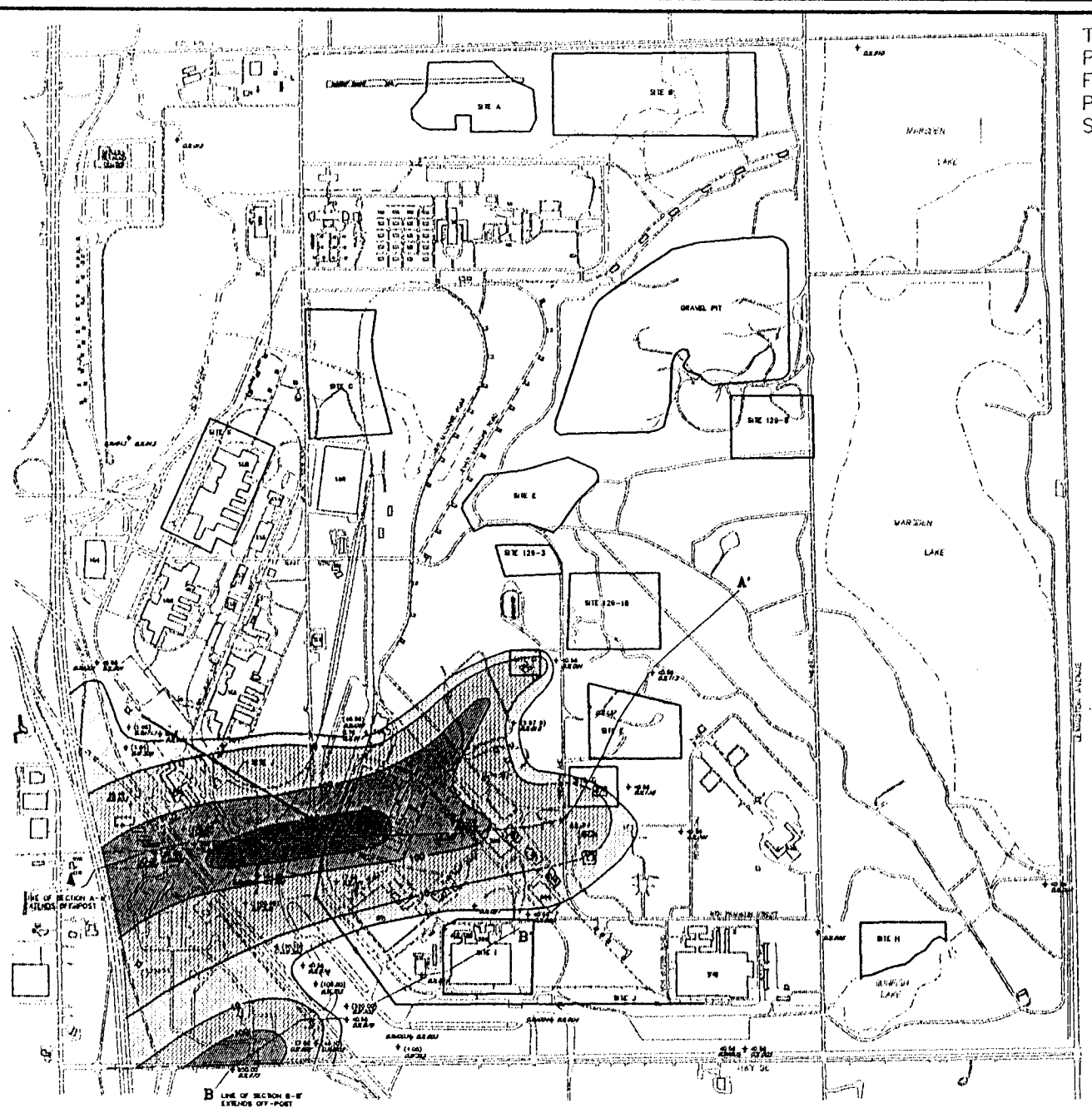
Fig. IV.F 8



THIS FIGURE IS A REDUCTION OF PLAN SHEET 23 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

FY 1996

SCALE IN FEET

LEGEND

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- REJECTED DATA
- SITE BOUNDARY
- WATER SYMBOL
- ROAD
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE
- BUILDING REMOVED

NOTES:
1. ALL LOWER UNIT 3 WELLS AT THE SITE ARE SHOWN
2. MIDDLE UNIT 3 WELLS WITH DATA FOR QUARTER 51 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING
3. 03F RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING
4. RECOVERY WELL NAME CONVERSIONS:

03F307	B-1
03F303	B-2
03F304	B-3
03F305	B-4
03F306	B-5
03F307	B-6
03F308	B-7
03F312	B-11

6. DATA SHOWN WITH AN R HAS BEEN REJECTED DUE TO UNACCEPTABLE SPIKE RECOVERIES. THE DATA IS SHOWN IN PARENTHESIS, BUT IS USED FOR CONTOURING PURPOSES

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OU2, LOWER UNIT 3 TRICHLOROETHENE ISOCONCENTRATION MAP, SUMMER 1996 (Q51)

SCALE	DRAWN	APPROVED BY	DATE	DRAWING NO	SHEET NO
1:6000	DLM	WFJ	7-3-97	ON TRICLE DWG	23

TWIN CITIES ARMY AMMUNITION PLANT

OU2, Lower Unit 3 Trichloroethene Isoconcentration Map, Summer 1996 (Q51)

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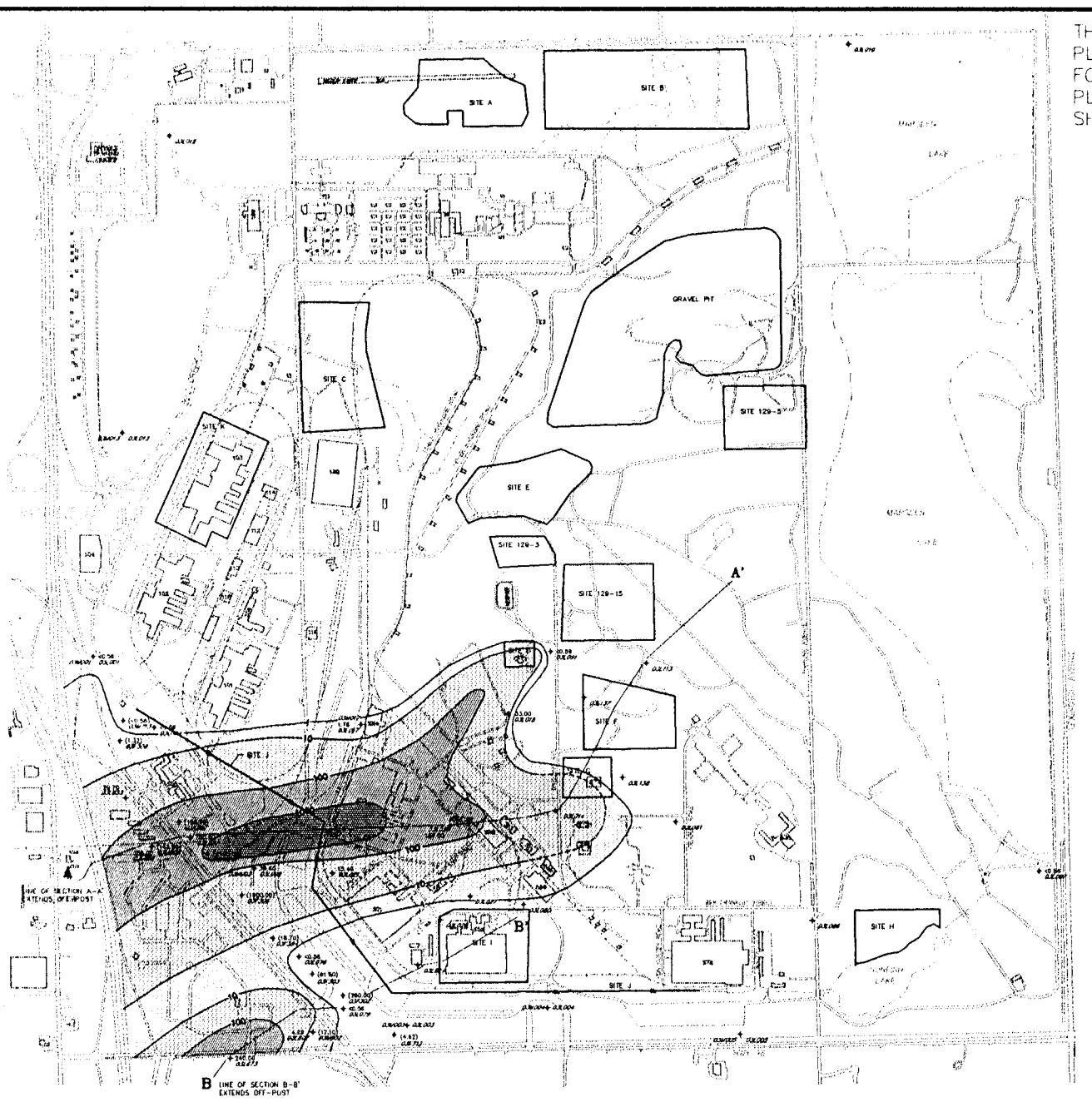

THIS FIGURE IS A REDUCTION OF PLAN SHEET 19 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

FY 1997

SCALE IN FEET

LEGEND

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- ROAD
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE
- BUILDING REMOVED

NOTES:
1. ALL LOWER UNIT 3 WELLS AT THE SITE ARE SHOWN.
2. MIDDLE UNIT 3 WELLS WITH DATA FOR QUARTER 55 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
3. 03F RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
4. RECOVERY WELL NAME CONVERSIONS:

03F302	B-1
03F303	B-2
03F304	B-3
03F305	B-4
03F306	B-5
03F307	B-6
03F308	B-7(SHUT OFF)
03F312	B-11

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OU2, LOWER UNIT 3 TRICHLOROETHENE ISOCONCENTRATION MAP, SUMMER 1997 (Q55)

SCALE	DRAWN	APPROVED BY	DATE	DRAWING NO	SHEET NO
1:6000	DLM	KMB	7-13-98	ON TRICLE DWG	19

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OU2, Lower Unit 3 Trichloroethene Isoconcentration Map, 1996 (Q51) and 1997 (Q55)

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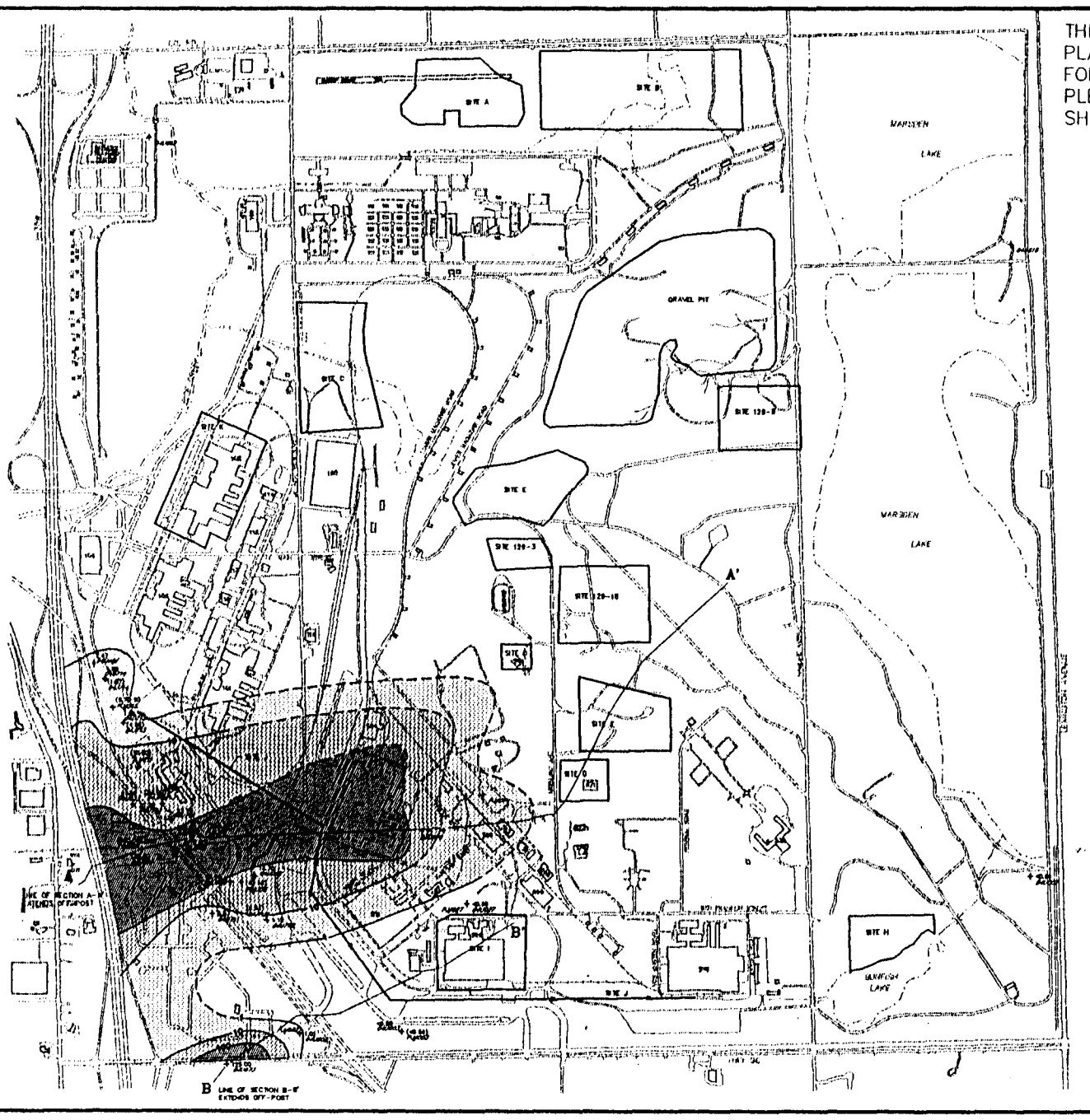
Fig. IV.F-9



THIS FIGURE IS A REDUCTION OF PLAN SHEET 24 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

FY 1996

400 0 400 800
SCALE IN FEET

LEGEND

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- ROAD
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE
- BUILDING REMOVED
- REJECTED DATA

NOTES:

1. ALL UNIT 4 WELLS AT THE SITE ARE SHOWN.
2. ALL QAJ WELLS (JORDAN WELLS) WITH DATA FOR QUARTER 81 ARE SHOWN WITH DATA IN PARENTHESES, BUT VALUE NOT USED FOR CONTOURING.
3. ALL PJ8 RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
4. PJ8 MONITORING WELLS WITH DATA FOR QUARTER 81 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
5. RECOVERY WELL NAME CONVERSIONS:

PJ8 308	B-8
PJ8 310	B-9
PJ8 311	B-10
PJ8 313	B-12

6. DATA SHOWN WITH AN R HAS BEEN REJECTED DUE TO UNACCEPTABLE SPIKE RECOVERIES. THE DATA IS SHOWN IN PARENTHESIS BUT IS NOT USED FOR CONTOURING PURPOSES.

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OU2, UPPER UNIT 4, TRICHLOROETHENE ISOCONCENTRATAION MAP SUMMER 1996 (Q51)

SCALE	DRAWN	APPROVED BY	DATE	DRAWING NO	SHEET NO
1:8000	DLH	WPJ	2-12-97	N4\UTIRCLP.DWG	24

TWIN CITIES ARMY AMMUNITION PLANT

OU2, Upper Unit 4 Trichloroethene Isoconcentration Map, Summer 1996 (Q51)

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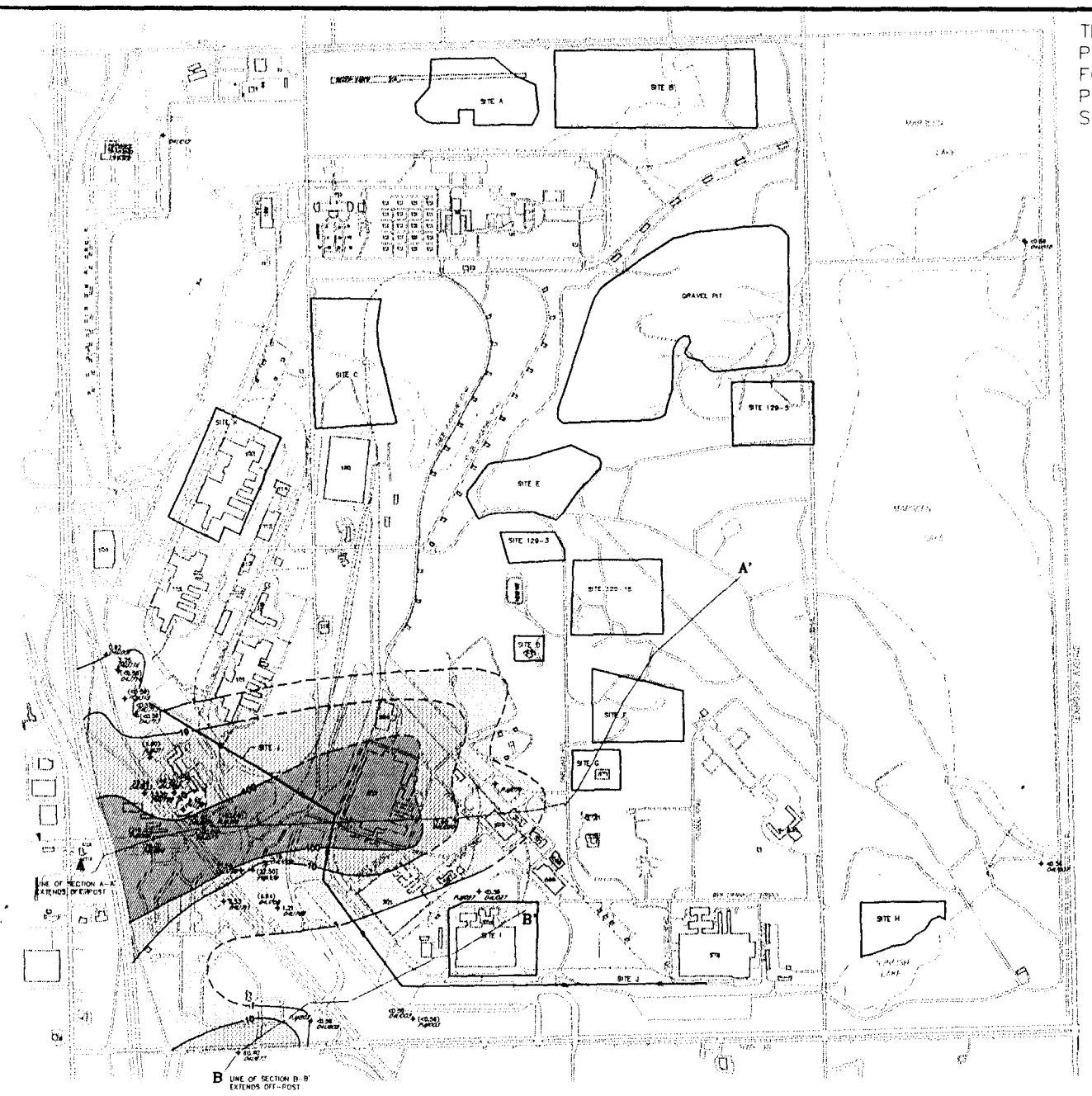
SEPT. 1997



THIS FIGURE IS A REDUCTION OF PLAN SHEET 20 AND IS INCLUDED FOR GENERAL INFORMATION ONLY. PLEASE REFER TO THE PLAN SHEET FOR DETAILED REVIEW.

FY 1997

400 0 400 800
SCALE IN FEET

LEGEND

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- SITE BOUNDARY
- WATER SYMBOL
- ROAD
- TRICHLOROETHENE CONCENTRATION (ug/l) (VALUES IN PARENTHESES WERE NOT USED FOR CONTOURING PURPOSES)
- ISOCONCENTRATION CONTOUR (ug/l)
- ESTIMATED ISOCONCENTRATION CONTOUR (ug/l)
- CROSS SECTION LINE
- BUILDING REMOVED

NOTES:

1. ALL UNIT 4 WELLS AT THE SITE ARE SHOWN.
2. ALL QAJ WELLS (JORDAN WELLS) WITH DATA FOR QUARTER 55 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
3. ALL PJ8 RECOVERY WELLS ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
4. PJ8 MONITORING WELLS WITH DATA FOR QUARTER 55 ARE SHOWN WITH DATA IN PARENTHESES, BUT WERE NOT USED FOR CONTOURING.
5. RECOVERY WELL NAME CONVERSIONS:

PJ8 308	B-8
PJ8 310	B-9
PJ8 311	B-10
PJ8 313	B-12 (SHUT OFF)

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FISCAL YEAR 1997 ANNUAL PERFORMANCE REPORT

OU2, UPPER UNIT 4, TRICHLOROETHENE ISOCONCENTRATAION MAP SUMMER 1997 (Q55)

SCALE	DRAWN	APPROVED BY	DATE	DRAWING NO	SHEET NO
1:8000	DLH	KWB	2-13-98	N4\UTIRCLP.DWG	20

TWIN CITIES ARMY AMMUNITION PLANT

OU2, Upper Unit 4 Trichloroethene Isoconcentration Map, 1996 (Q51) and 1997 (Q55)

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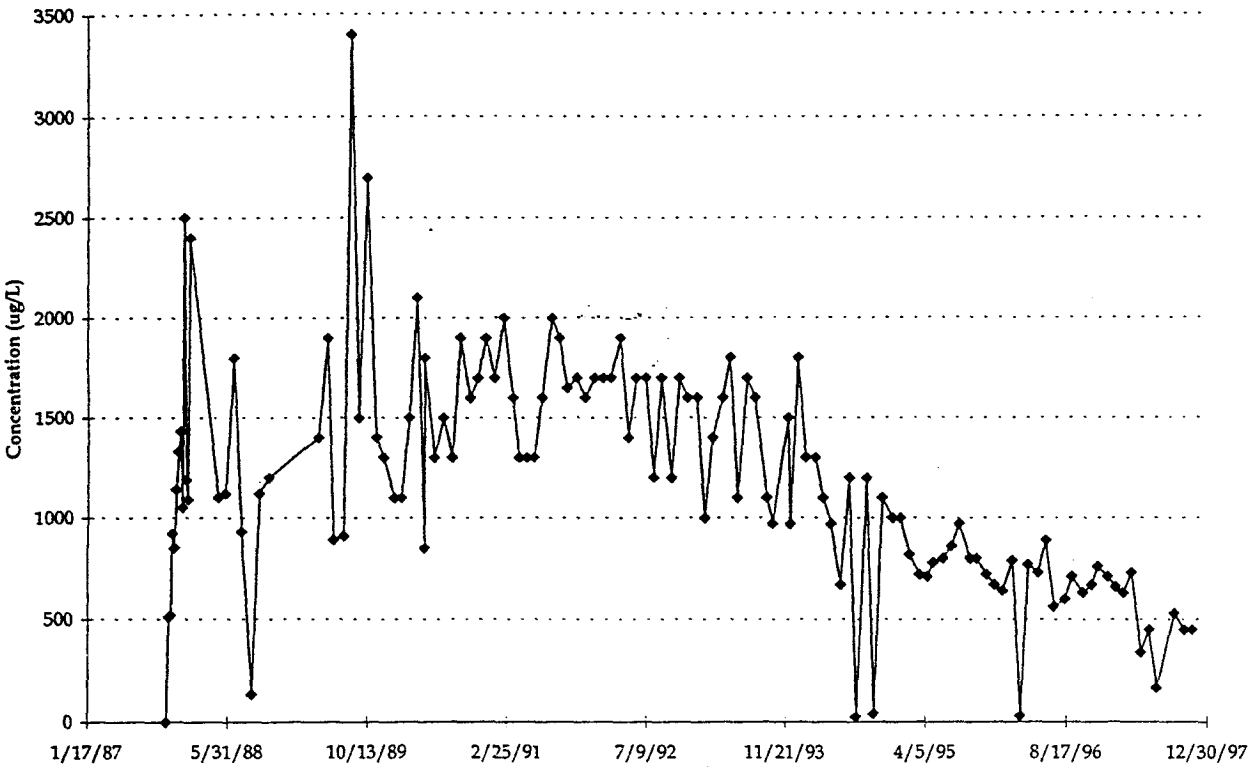
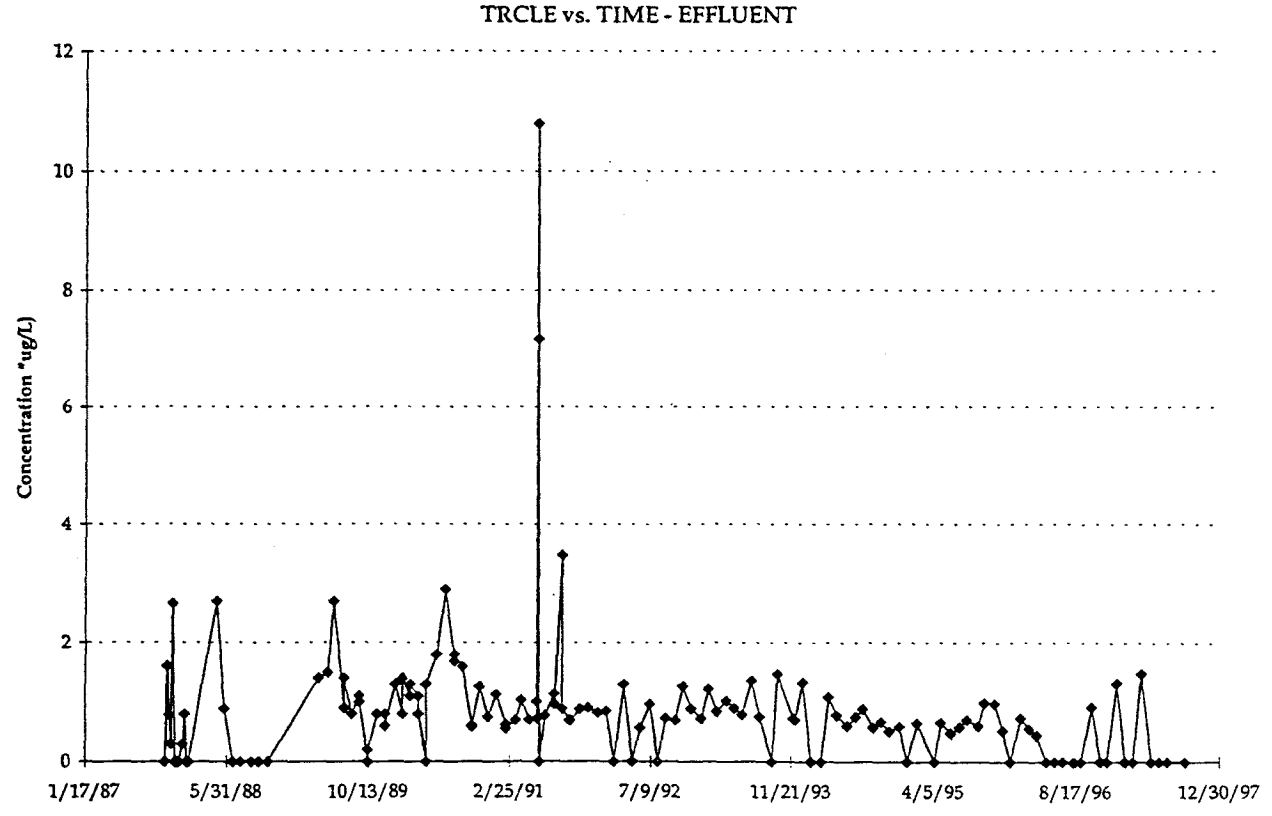
Fig IV.F-10





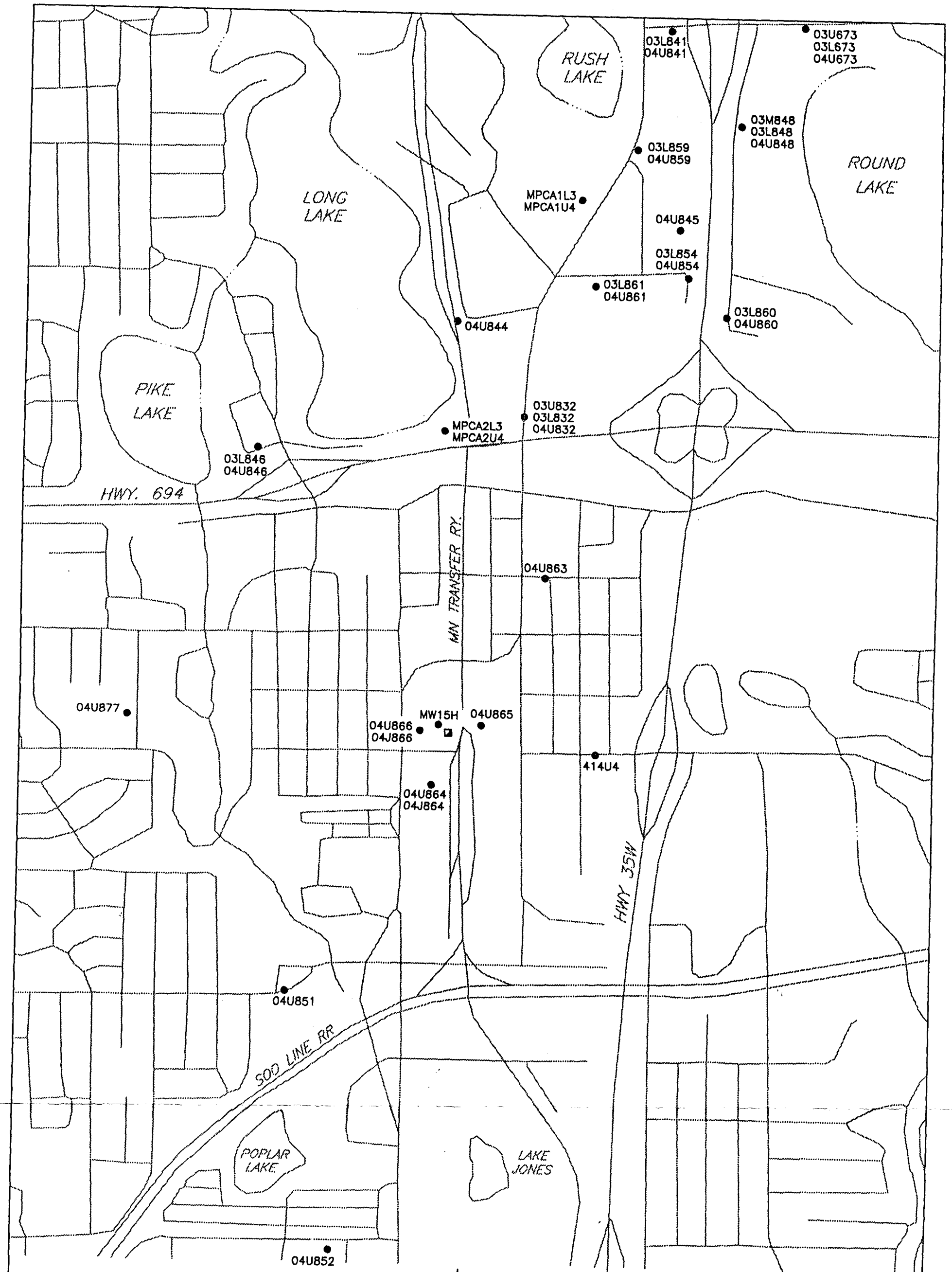
Note: Samples reporting concentrations less than the detection limit were plotted as zero.
When duplicate samples were collected, the higher concentration was plotted.

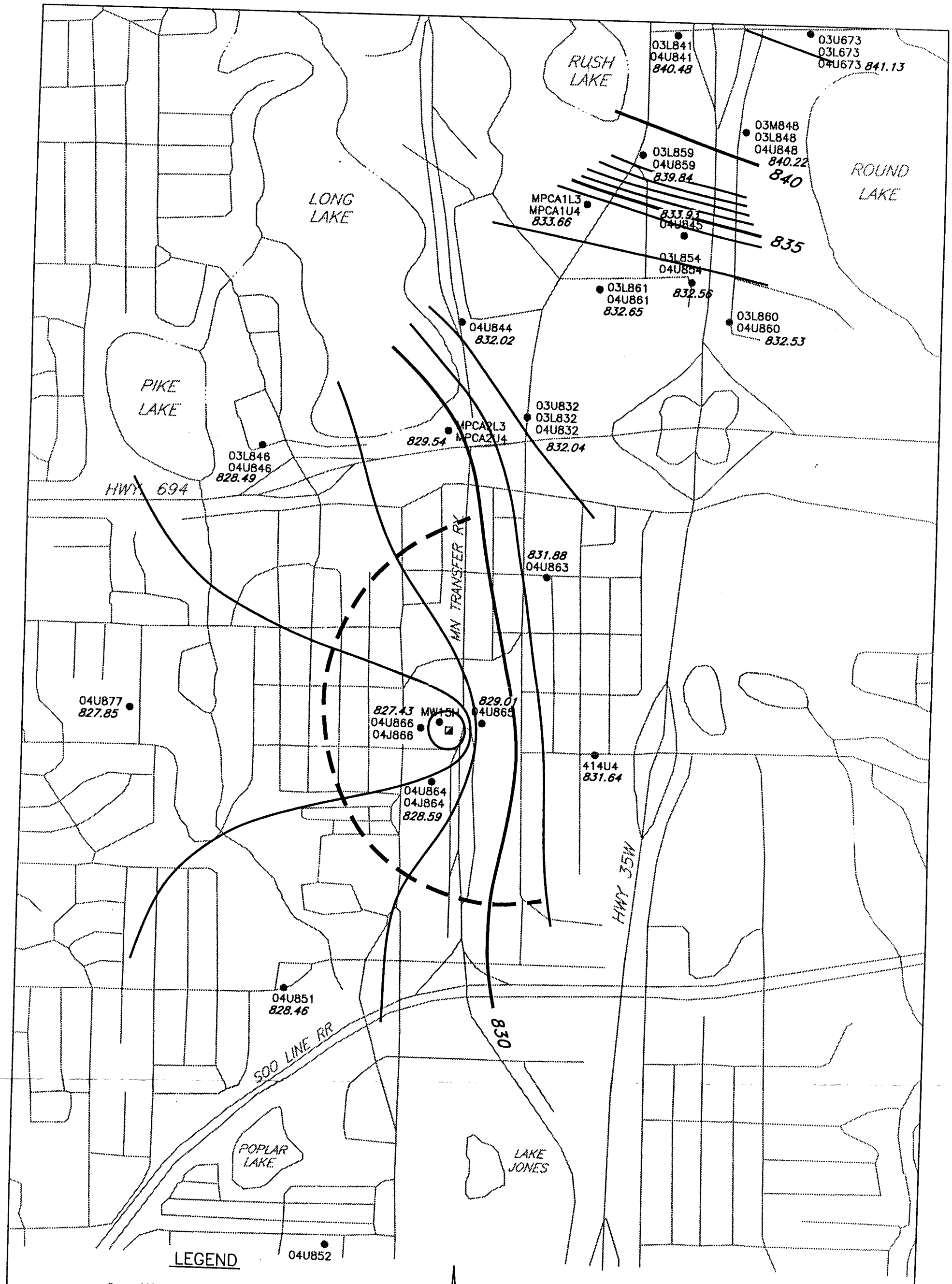
figure IV.F-11

OU2, TGRS TREATMENT SYSTEM PERFORMANCE

Twin Cities Army Ammunition Plant

CRA


RUSH LAKE
LONG LAKE
PIKE LAKE
ROUND LAKE
POPLAR LAKE
LAKE JONES
03L841
04U841
03U673
03L673
04U673
03M848
03L848
04U848
03L859
04U859
MPCA1L3
MPCA1U4
04U845
03L854
04U854
03L861
04U861
04U844
03L860
04U860
03U832
03L832
04U832
MPCA2L3
MPCA2U4
03L846
04U846
HWY. 694
MN TRANSFER RY.
04U863
04U877
MW15H
04U865
04U866
04J866
414U4
04U864
04J864
HWY 35W
04U851
SOO LINE RR
04U852
LEGEND
MONITORING WELL LOCATION
EXTRACTION WELL LOCATION (NB WELL 13)
N
0
500
1000ft
CRA
figure V-1
OU3 (PGRS) SITE PLAN
Twin Cities Army Ammunition Plant
3877(A)-DEC. 9/97-REV.0 (M-01)(MN)



3877(A)-DEC. 9/97-REV.0 (M-02)(MN)

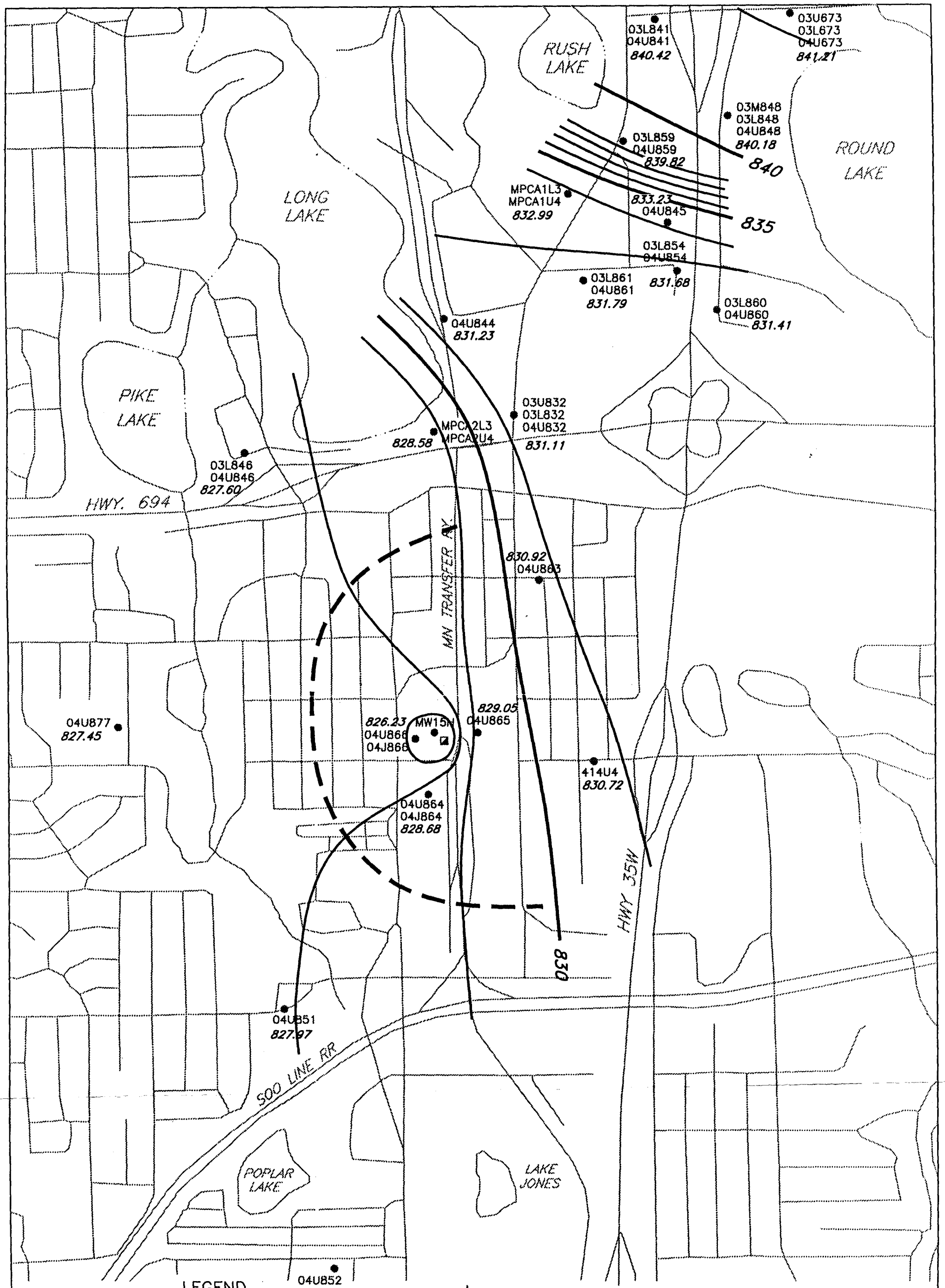


figure V-3
OU3 (PGRS), UNIT 4
POTENTIOMETRIC MAP
5-30-97 (Q55)
Twin Cities Army Ammunition Plant

3877(A)-DEC. 9/97-REV.0 (M-03)(MN)

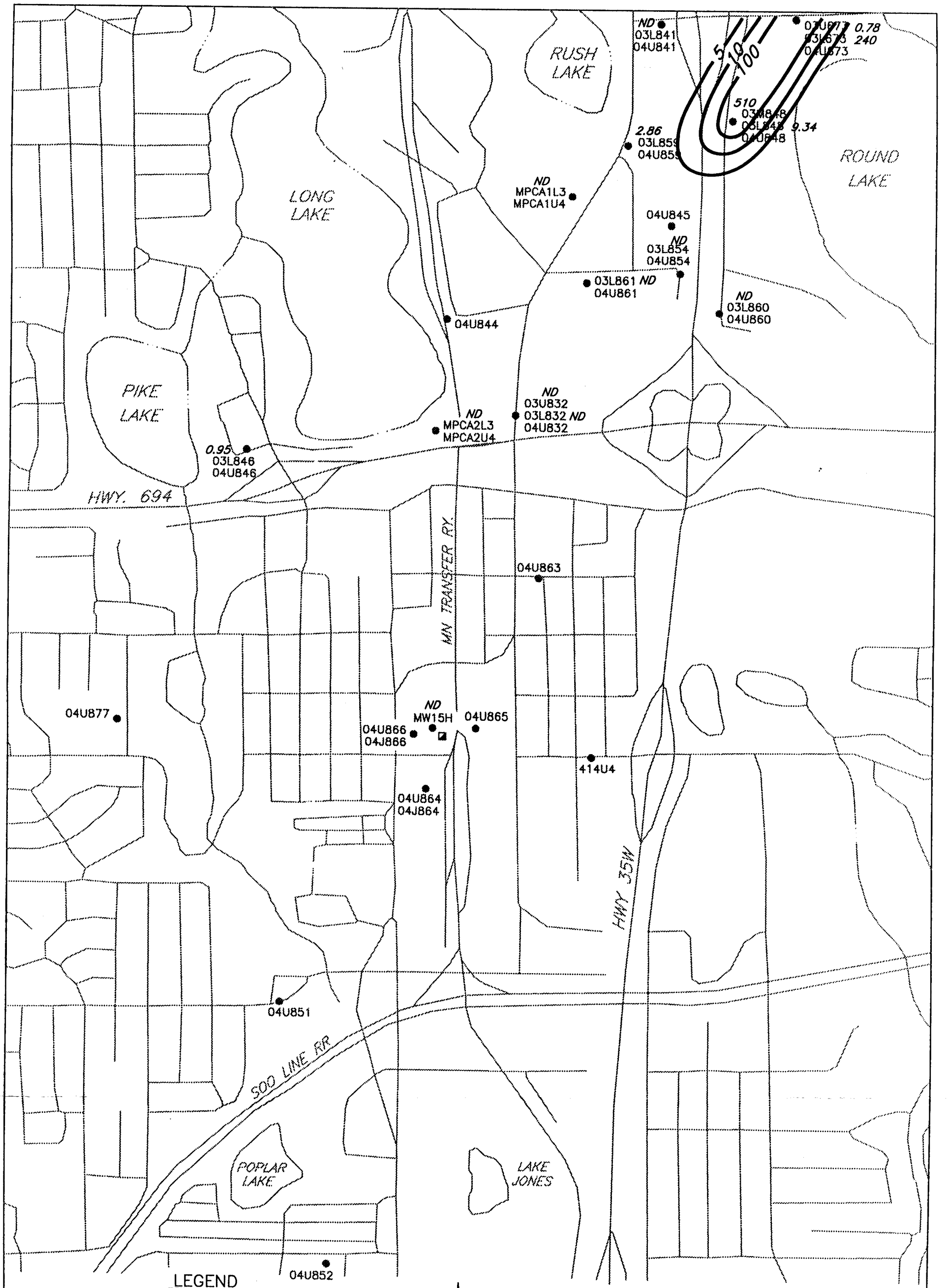


figure V–5
OU3 (PGRS), UNIT 3 TRCLE CONTOURS
JUNE 1997 (Q55)
SOUTH PLUME
Twin Cities Army Ammunition Plant

3877(A)–DEC. 9/97–REV.0 (M–05)(MN)

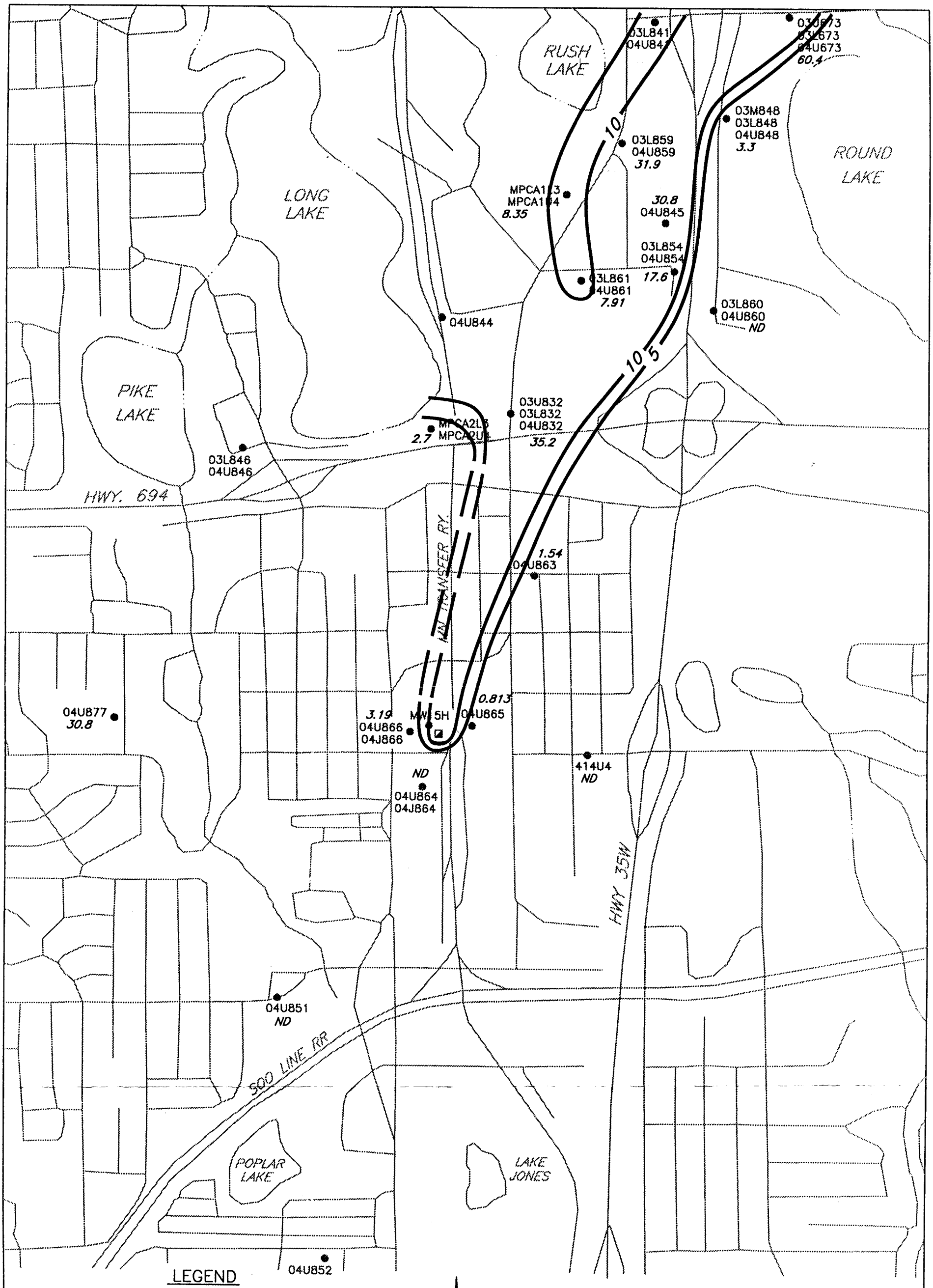
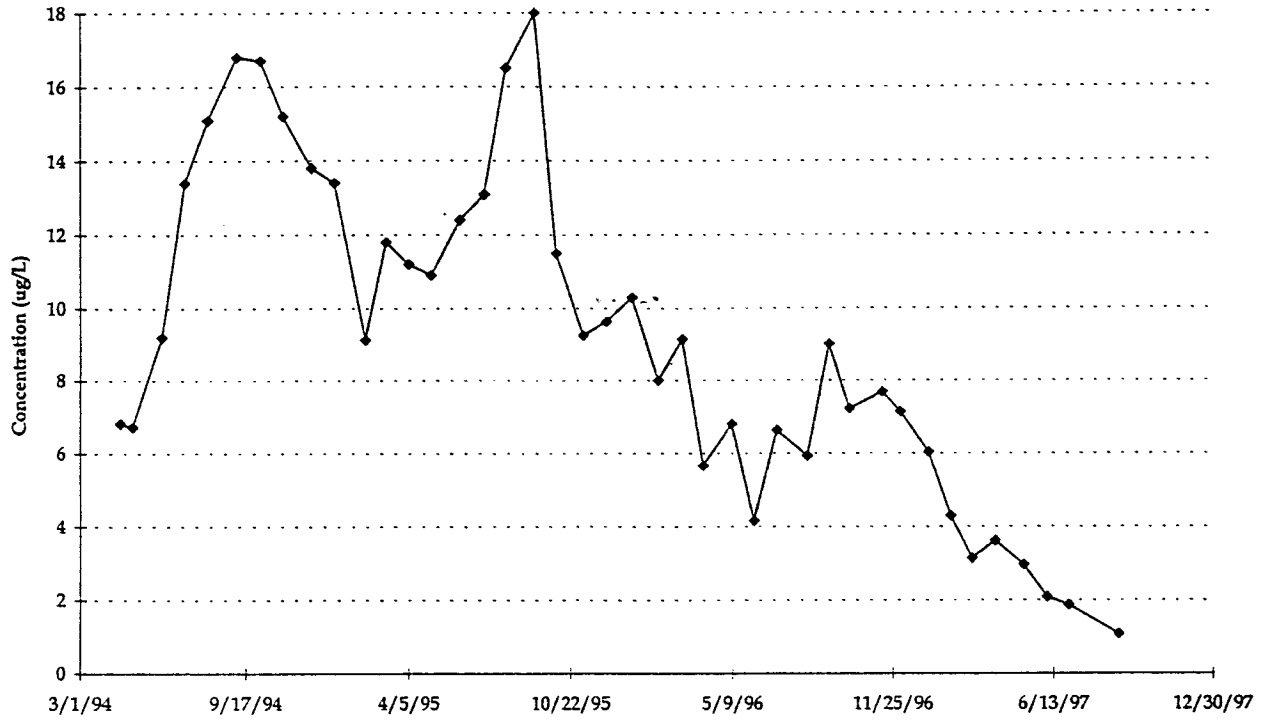
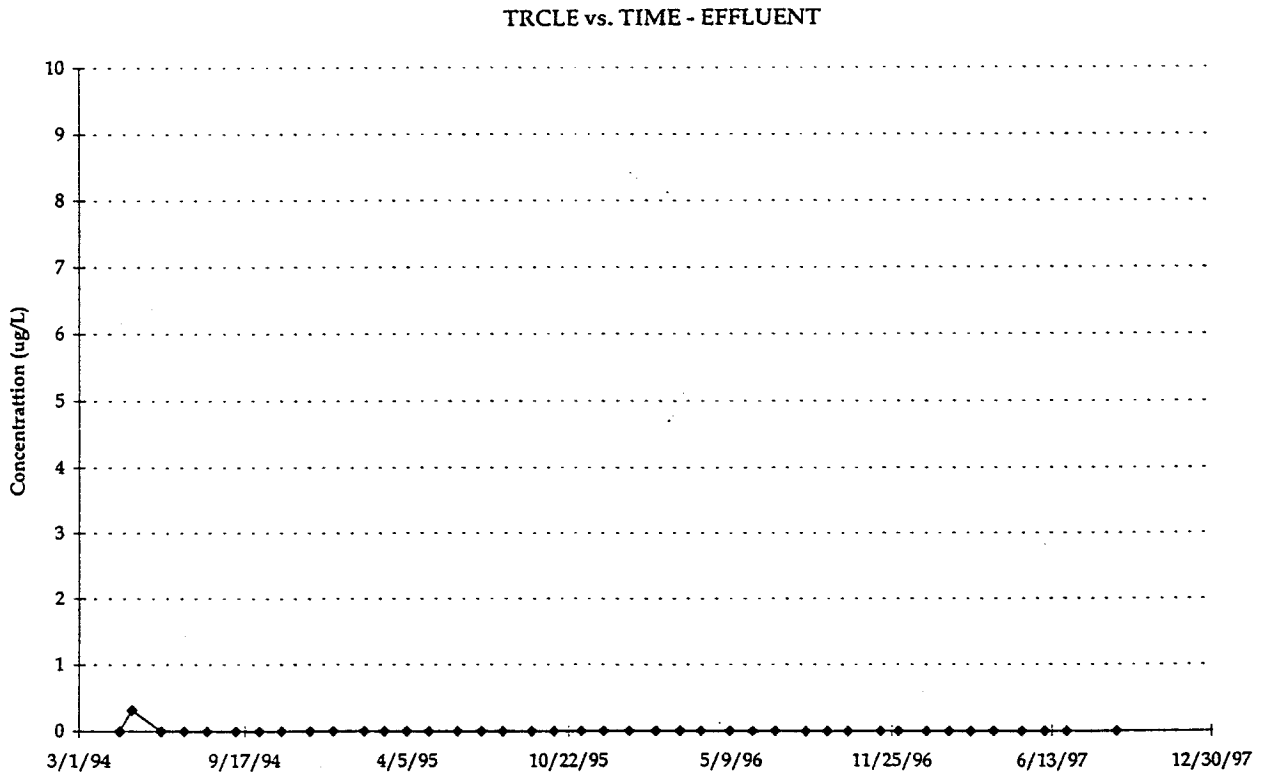


figure V–4
OU3 (PGRS), UNIT 4 TRCLE CONTOURS
JUNE 1997 (Q55)
SOUTH PLUME
Twin Cities Army Ammunition Plant

3877(A)–DEC. 9/97–REV.0 (M–04)(MN)





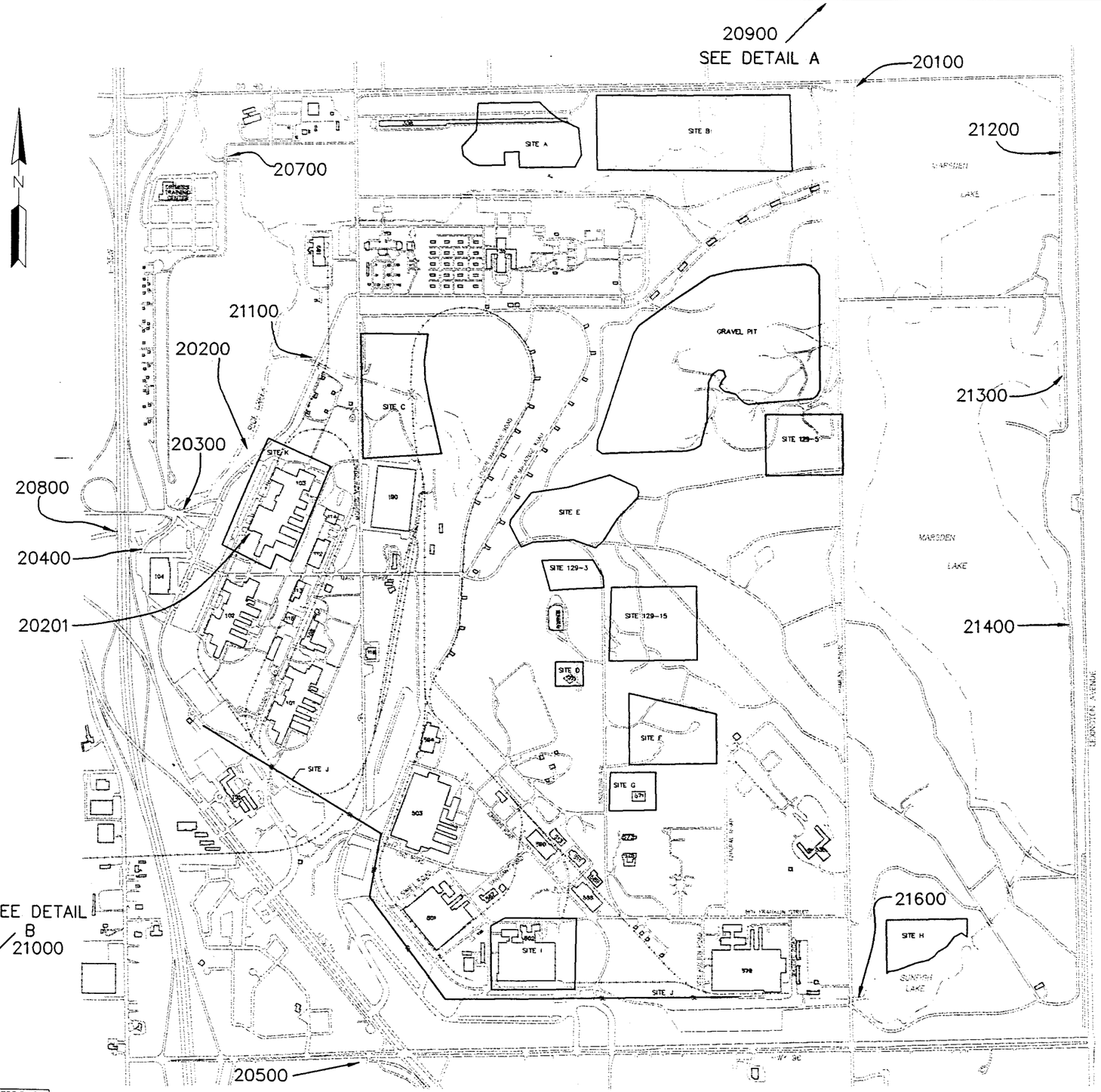
Note: Samples reporting concentrations less than the detection limit were plotted as zero.
When duplicate samples were collected, the higher concentration was plotted.

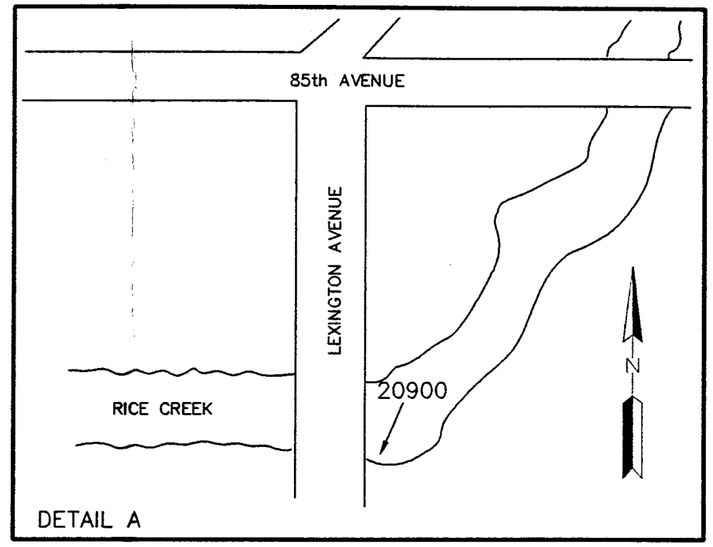
figure V–6

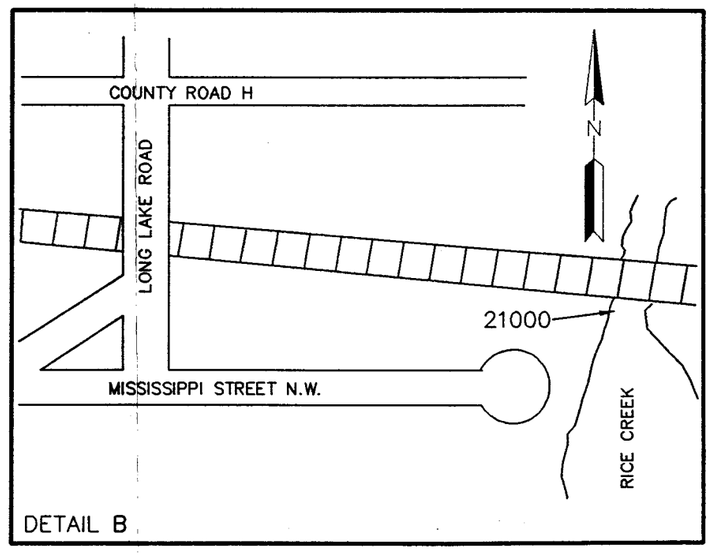
OU3 (PGRS) TRCLE vs. TIME

Twin Cities Army Ammunition Plant

CRA







SAMPLE LOCATION DESCRIPTIONS

20100 MARSDEN LK OUT	20200 BLDG 103/114 OUTFALL	20201 BLDG 103 EFFLUENT	20300 BLDG 113/115 OUTFALL	20400 BLDG 104/116 OUTFALL
20500 ROUND LK OUTFALL	20700 RICE CRK IN	20800 RICE CRK OUT	20900 RICE CRK & LEX	21000 RICE CRK & LONG LK
21100 CULVERT AREA RUNOFF	21200 N INLET LEX RUNOFF	21300 MID INLET LEX RUNOFF	21400 S INLET LEX RUNOFF	21600 HAMLINE RUNOFF

FILE NPDESP.DWG
DATE 1-13-98 M:DLM

TWIN CITIES ARMY AMMUNITION PLANT

Surface Water Monitoring Locations

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AUG 1998

Figure No. VI.A-1

APPENDIX A

Appendix A

Hydrogeologic Units, Well Nomenclature, and Well Index

A.1 Description of Hydrogeologic Units and Well Nomenclature

Appendix A.1
Description of Hydrogeologic Units and Well Nomenclature

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

Unit 1: This unit, referred to as the Fridley Formation, consists of alluvium and lacustrine deposits above the Twin Cities Formation (Unit 2). The formation is made up of fine- to medium-grained sand and clayey silt which acts as an unconfined aquifer with an estimated hydraulic conductivity of 8.3×10^{-3} cm/sec (International Technology Corp. 1992). The Unit 1 deposits are discontinuous at TCAAP and ranges in thickness from zero to 50 feet. They are predominantly limited to the north, east, and southwest portions of the site. Groundwater in Unit 1 is also discontinuous.

Unit 2: Known as the Twin Cities Formation, (Unit 2) consists of Quaternary aged 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 Quaternary aged Hillside Sand Formation which is continuous beneath TCAAP. Near the center of TCAAP, the Hillside Sand Formation 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 bedrock from the Prairie du Chien Group and Jordan Formation (Ordovician and Cambrian periods, respectively). For monitoring purposes, the Prairie du Chien Group is referred to as Upper Unit 4, while the Jordan Formation is Lower Unit 4. The Jordan Formation varies from fine- to coarse-grained quartz sandstone. The Prairie du Chien Group in the TCAAP area consists of a finely crystalline dolomite of the Oneota Formation, as well as quartz sandstone and dolomite members of the Shakopee Formation. A more detailed description of the bedrock geology can be found in the Remedial Investigation Report (Argonne National Laboratory, 1991).

In order to identify the hydrogeologic unit in which each well is completed, the United States Army Environmental Center (USAEC), formerly 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 Group or Jordan Formation
PJ	-	Unit 4: Prairie du Chien Group and Jordan Formation

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	USAEC wells and additional wells installed by others adjacent to an existing well with the 001-500 designation.
501 thru 600	TCAAP wells.
601 thru 800	On-post Alliant Techsystems Inc. wells.
801 thru 999	Off-post Alliant Techsystems Inc. wells.

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

A.2 TCAAP Well Index Sorted by Minnesota Unique Number

Note:

In the "Well Type" column of the following index, the different types are abbreviated as follows:

UN	=	Unknown
MUNI	=	Municipal
MON	=	Monitoring
DOM	=	Domestic
IND	=	Industrial
P.S.	=	Public Supply
COM	=	Commercial
IRR	=	Irrigation
ABAND	=	Abandoned
PIEZ.	=	Piezometer
REM	=	Remedial

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
107405		ROEBKE	OFF	UN				
110485		NEW BRIGHTON #12	OFF	MUNI				P-21
114410	03U521		OFF	MON			F-7	
122210		ST. PAUL PORT AUTH. #3	OFF	IND				
127537		MIDWEST ASPHALT	OFF	DOM				
134318		LORENZ W SEUTTER	OFF	DOM				
139035		WATERGATE MARINA	OFF	P.S.				
151568		ARDEN MANOR MOBILE HOME	OFF	P.S.				
161432		NEW BRIGHTON #10	OFF	MUN				V-24
191942		118PDC/MODEL STONE	OFF	MON				R-24
194701	01U620	OW120U1	ON	MON			F-3	
194702	01U621	PW121U1	ON	MON			F-3	
194703	01U622	OW122U1	ON	MON			F-3	
194704	01U623	OW123U1	ON	MON			F-3	
194716	01U634	OW504U1	ON	MON			J-5	
194717	01U638	OW508U1		MON				
194718	01U639	OW509U1	ON	MON			K-6	
194719	01U640	OW510U1	ON	MON			K-6	
194720	01U631	OW501U1	ON	MON				
194721	01U632	OW502U1		MON				
194722	01U635	OW505U1	ON	MON				
194723	01U636	OW506U1	ON	MON.			K-5	
194724	01U642	OW512U1	ON	MON			K-7	
194725	01U612	OW112U1	ON	MON		194758	E-3	
194726	01U613		ON	MON		194759	E-3	
194727	01U615	OW115U1	ON	MON		194760	F-3	
194728	01U616	OW116U1	ON	MON		194761	F-3	
194729	01U617	OW117U1	ON	MON		194770	F-3	
194730	01U618	OW118U1	ON	MON		194771	F-3	
194772	01U619	PW119U1	ON	MON			F-3	
200070		RUAN TRANSPORT	OFF	COM	✓			
200071		PRESTRESSED CONCRETE	OFF	IND	✓			
200072		WITTE TRANSPORTATION	OFF	IND	✓			
200073		WILSON TRANSFER & STORAGE	OFF	IND				
200074		ASBESTOS PROD	OFF	IND	✓			
200075		PHILLIPS PETROLEUM	OFF	IND	✓			
200076		OLD DUTCH FOODS INC	OFF	IND				Z-23
200077		JOHN CONLIN	OFF	DOM	✓			
200078		WILLIAM CLASS	OFF	DOM				
200079		LAWRENCE SCHOENING	OFF	DOM				
200080		CARL A OSTROM & SON	OFF	DOM				
200081		A. O. LIEBIG	OFF	DOM				
200082		2196 MARION ROAD	OFF	DOM				
200148		PAPER CALMERSON	OFF	IND	✓			BB-23
200154		U OF M GOLF COURSE	OFF	IRR				CC-25
200167		KOPPERS COKE #1	OFF	IND				
200171		PLATING INC	OFF	IND				
200197		SNOW FLAKE DAIRY	OFF	COM				
200264		1620 CENTRAL	OFF	IND				
200384		METALLURGICAL INC. WELL #1	OFF	IND				
200524		ST. ANTHONY #5	OFF	MUNI				V-21
200525		PLETSCHER	OFF	UN				
200531		NAZARETH	OFF	UN				

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
200599		CEDAR AVE. TRIANGLE	OFF	P.S.				
200602		ATKINSON MILL CO.	OFF	IND				
200629		GENERAL MILLS	OFF	IND				
200803		ST. ANTHONY #4	OFF	P.S.				X-22
200804		ST. ANTHONY #3	OFF	MUNI				X-22
200812		GROSS GOLF COURSE #1	OFF	COM				AA-22
200814		AMERICAN LINEN	OFF	IND				CC-22
201074		GLEASSON MORTUARY	OFF	COM				
201082		NORTHWESTERN HOSPITAL	OFF	P.S.				
206669		FRIDLEY #8	OFF	MUNI				
206672		FRIDLEY #9	OFF	MUNI				
206673		FRIDLEY #6	OFF	MUNI				
206688		CLOVERPOND WELL	OFF	DOM				T-20
206689		JAMES K. O'NEIL	OFF	UN				
206693		FERNELIUS	OFF	UN				
206702		MINN E.S.	OFF	UN				
206720		MOUNDSVIEW	OFF	MUNI				
206722		M0UNDSVIEW #5	OFF	MUNI				
206724	PJ#504	TWIN CITIES ARSENAL	OFF	ABAND	✓		E-2	
206725	03L523	ARSENAL GRAVEL PIT	ON	ABAND	✓		D-8	
206750		SHORE #4	OFF	MUNI				
206753	PJ#506	TWIN CITIES ARSENAL NO. 6	ON		✓		H-5	
206754	PJ#501	TWIN CITIES ARSENAL NO. 1	ON	P.S.			F-4	
206755	PJ#507	TWIN CITIES ARSENAL NO. 7	ON	ABAND	✓		H-5	
206756	PJ#502	TWIN CITIES ARSENAL NO. 2	ON	IND			G-4	
206758	PJ#503	TWIN CITIES ARSENAL NO. 3	ON	IND			H-4	
206759	PJ#508	TWIN CITIES ARSENAL NO. 8	ON	ABAND	✓		I-6	
206760	03M509		ON	MON			J-6	
206760	PJ#509	TWIN CITIES ARSENAL NO.9	ON	DOM			J-6	
206787		MOUNDSVIEW H.S.	OFF	P.S.				S-25
206789		NEW BRIGHTON #1	OFF	MUNI	✓			
206791		NEW BRIGHTON #7	OFF	MUNI				U-23
206792		NEW BRIGHTON #4						
206793		NEW BRIGHTON #3	OFF	MUNI				S-21
206794		NEW BRIGHTON #9	OFF	MUNI				T-21
206795		NEW BRIGHTON #8	OFF	MUNI				T-21
206796		NEW BRIGHTON #5	OFF	MUNI				
206797		NEW BRIGHTON #6	OFF	MUNI				T-21
206798		NEW BRIGHTON #2	OFF	MUNI	✓			
223844		KURTH MALTING CO EAST WL	OFF	IND				
223992		BOOM ISLAND	OFF	IND				
225886		FRANKLIN STEEL SQUARE	OFF	P.S.				
225905		ST PAUL TERM. WAREHOUSE	OFF	IND				
225906		ST PAUL TERM. WAREHOUSE	OFF	IND				
231741		LABELLE	OFF	UN				
231742	04U510	GRENADE PLANT PROOF RANGES	ON	IND			C-12	
231845		MNDOT CIVIL DEFENSE TRAIN.	ON/OFF	P.S.			A-4	
231854	03L522	ARSENAL GRAVEL PIT	ON	ABAND 8/	✓		D-8	
231857	03M505			ABAND	✓		K-12	
231878		MENGELKOCH #2	OFF	UN				R-25
232067		NBR 135	OFF	UN				
232069		UHIL	OFF	UN				
233221		REUBEN MEAT	OFF	DOM				CC-20

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
233222		LOWRY GROVE TRAILER	OFF	ABAND	✓			Z-21
233241		KOZAH'S MARKET	OFF	UN	✓			
233520		MCGILLIS	OFF	UN				
233533		ROSELAWN CEMETARY	OFF	IRR				
233763		P. L. MORGAN	OFF	DOM				
233806		2581 NORTH CLEVELAND	OFF	DOM				
234135	03U001	S1U3	ON	MON			G-2	0-25
234136	03M001	S1M3	ON	MON			G-2	0-25
234137	03L001	S1L3	ON	MON			G-2	0-25
234138	04U001	S1U4	ON	MON			G-2	0-25
234139	03U002	S2U3	ON	MON			I-4	P-25
234140	03M002	S2M3	ON	MON			I-4	P-25
234141	03L002	S2L3	ON	MON			I-4	P-25
234142	03U003	S3U3	ON	MON			K-5	Q-26
234143	03M003	S3M3	ON	MON			K-5	Q-26
234144	03L003	S3L3	ON	MON			K-5	Q-26
234145	03U004	S4U3	ON	MON			K-7	
234146	03M004	S4M3	ON	MON			K-7	
234147	03L004	S4L3	ON	MON			K-7	
234148	03U005	S5U3	ON	MON			K-9	
234149	03U006	S6U3	ON	MON			K-11	
234150	03U007	S7U3	ON	MON			J-12	
234151	03M007	S7M3	ON	MON			J-12	
234152	03L007	S7L3	ON	MON			J-12	
234153	03U008	S8U3	ON	MON			F-12	
234154	03U009	S9U3	ON	MON			B-12	
234155	03U010	S10U3	ON	MON			A-10	
234156	03M010	S10M3	ON	MON			A-10	
234157	03L010	S10L3	ON	MON			A-10	
234158	03U011	S11U3	ON	MON			A-7	
234159	03U012	S12U3	ON	MON			B-3	
234160	03M012	S12M3	ON	MON			B-3	
234161	03L012	S12L3	ON	MON			B-3	
234162	03U013	S13U3	ON	MON			E-2	
234163	03M013	S13M3	ON	MON			E-2	
234164	03L013	S13L3	ON	MON			E-2	
234165	03U014	S14U3	ON	MON			I-7	P-27
234166	03U015	S15U3	ON	MON			F-5	
234167	03U016	S16U3	ON	MON			F-9	0-27
234168	03U017	S17U3	ON	MON			H-5	
234169	03M017	S17M3	ON	MON			H-5	
234170	03L017	S17L3	ON	MON			H-5	
234171	03U018	S18U3	ON	MON			H-6	
234172	03U019	S19U3	ON	MON			H-8	
234173	03U020	S20U3	ON	MON			I-6	P-26
234174	03M020	S20M3	ON	MON			I-6	P-26
234175	03L020	S20L3	ON	MON			I-6	P-26
234176	03U021	S21U3	ON	MON			J-4	P-26
234193	04U003	S3U4	ON	MON			K-5	Q-26
234194	04U002	S2U4	ON	MON			I-4	P-25
234195	04U007	S7U4	ON	MON			J-12	
234196	04U012	S12U4	ON	MON			B-3	
234197	04U020	S20U4	ON	MON			I-6	P-26

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
234198	01U004	S4U1	ON	MON			K-7	
234199	01U011	S11U1	ON	MON			A-7	
234200	01U012	S12U1	ON	MON			B-3	
234201	01U022	S22U1	ON	MON			B-6	
234202	01U033	S33U1	ON	MON			A-10	
234204	01U034	S34U1	ON	MON			A-8	
234205	01U035	S35U1	ON	TEST			A-7	
234206	01U036	S36U1	ON	MON			A-7	
234207	01U037	S37U1		MON				
234208	01U038	S38U1		MON			A-6	
234209	01U039	S39U1	ON	MON			A-4	
234210	01U040	S40U1	ON	MON			B-4	
234211	01U041	S41U1	ON	MON			B-5	
234212	01U044	S44U1	ON	MON			C-4	
234215	01U045	S45U1	ON	MON			D-4	
234216	01U046	S46U1	ON	MON			D-4	
234217	01U047	S47U1	ON	MON			E-2	
234218	01U048	S48U1		MON			E-2	
234221	01U050	S50AU1		MON			H-2	
234222	01U051	S51U1	ON	MON			H-2	
234223	01U052	S52U1	ON	MON			E-3	
234225	01U053	S53AU1	ON	MON			K-4	
234227	01U054	S54AU1		MON			K-5	
234235	01U060	S60U1	ON	MON			J-10	
234237	01U062	S62U1	ON	MON			J-3	
234239	01U063	S63U1	ON	MON			B-4	
234240	01U064	S64U1	ON	MON			J-6	
234241	01U065	S65U1	ON	MON			F-2	
234243	01U067	S67U1	ON	MON			B-6	
234250	01U072	S72AU1	ON	MON			E-9	
234301		DEWITT	OFF	UN				
234305		GLENN BEGGIN	OFF	UN				
234319		HIDE & TALLOW #1	OFF	UN				P-25
234327		BRESKE	OFF	UN				
234335		MENGELKOCH #1	OFF	UN				R-25
234337		MENGELKOCH #3	OFF	UN	✓			R-25
234350		GORDON	OFF	UN				
234351		YEMPA	OFF	UN				
234352		1206 12TH AV NW	OFF	UN				R-23
234353		LENTSCH'S ICE WK.	OFF	UN				P-25
234355		KINGDOM HALL	OFF	UN				
234356		NORDQUIST P43	OFF	UN				Q-25
234357		PHILLIPS PET P46	OFF	UN				P-25
234386		ZELL OLS.	OFF	UN				
234391		SHERER L.	OFF	UN				
234396		DEWITT	OFF	UN	✓			
234406		KLAPP	OFF	UN	✓			
234409		HIDE & TALLOW	OFF	UN				
234425		KEN GEREBI	OFF	UN	✓			P-25
234430		CMIEL	OFF	UN	✓			Q-26
234431		HARSTAD	OFF	UN				
234463		KEN SOLIE	OFF	UN				V-21
234546		HONEYWELL RIDGEWAY	OFF	UN				BB-21

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
234547		HONEYWELL RIDGEWAY	OFF	UN				BB-21
234549		REINER	OFF	IRR				Y-21
235539		OLD HOTEL	OFF	UN				Q-24
235557		HIDDEN FALLS PARK W.WELL	OFF	P.S.				
235565	PJ#074	S74PJ		MON			I-6	
235619		SHRINERS HOSPITAL	OFF	P.S.				
235735		FLOUR CITY ARCHITECTURAL	OFF	COM				
235748	03L014	S14L3	ON	MON			I-7	P-27
235749	03L018	S18L3	ON	MON			H-6	
235750	03L021	S21L3	ON	MON			J-4	P-26
235751	03L027	S27L3	ON	MON			J-6	
235752	03L028	S28L3		MON			J-6	
235753	03L029	S29L3		MON		236066	K-5	P-26
236066	03U094	S94U3	ON	MON			I-7	P-27
236067	03L091	S91L3	ON	MON			G-7	
236068	03L086	S86L3	ON	MON			J-9	
236069	03U084	S84U3	ON	MON			H-3	0-25
236070	03L081	S81L3	ON	MON			I-8	
236071	03L080	S80L3	ON	MON			J-6	
236072	03U079	S79U3	ON	MON			K-5	Q-26
236073	03U078	S78U3	ON	MON			J-4	P-26
236074	03L078	S78L3	ON	MON			J-4	P-26
236075	03U077	S77U3	ON	MON			I-3	P-25
236076	03L077	S77L3	ON	MON			I-3	P-25
236077	03U076	S76U3	ON	MON			G-2	
236078	03U075	S75U3	ON	MON			F-2	
236079	03L005	S5L3	ON	MON			K-9	
236080	03L113	WF1L3	ON	MON			G-8	0-27
236122		NWR	OFF	ABAND				Q-24
236176	01U003	S3U1	ON	MON			K-5	Q-26
236177	01U043	S43AU1		MON			C-5	
236178	03U022	S22U3		MON			B-6	
236179	03U023	S23U3		MON			B-5	
236180	03U024	S24U3		MON			C-5	
236181	03U025	S25U3		MON			D-4	
236182	03U026	S26U3	ON	MON			H-7	
236183	03U027	S27U3		MON			J-6	
236184	03U028	S28U3		MON			J-6	
236185	03U029	S29U3		MON			K-5	P-26
236186	03U030	S30U3		MON			J-6	P-26
236187	03U031	S31U3		MON			F-4	
236188	03U032	S32U3		MON			G-7	
236189	01U601	OW101U1	ON	MON			F-3	
236190	01U602	OW102U1	ON	MON			F-3	
236191	01U603	OW103U1	ON	MON			E-3	
236192	01U604	OW104U1	ON	MON			E-3	
236193	01U605	OW10571	ON	MON			E-3	
236194	01U524	FA4U1	ON	PIEZ.			I-3	
236195	01U527	FV8U1	ON	PIEZ.			I-3	
236196	01U525	FW5U1	ON	PIEZ.			J-4	
236197	01U526	FV12U1	ON	PIEZ.			I-4	
236437	PJ#802	T2PJ	OFF	MON		421437	K-4	Q-26
236449	03U801	T1U3	OFF	MON			K-4	Q-26

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
236450	04U802	T2U4	OFF	MON			K-4	Q-26
236452	01U803	T3U1	OFF	TEST		424053	K-3	Q-25
236453	03U803	T3U3	OFF	MON		421434	K-3	Q-25
236455	03U804	T4U3	OFF	MON		421433	J-4	P-25
236457	01U805	T5U1	OFF	MON		424060	J-3	P-25
236458	03U805	T5U3	OFF	MON		421432	J-3	P-25
236460	01U806	T6U1	OFF	MON		424058	I-3	P-25
236461	03U806	T6U3	OFF	MON		421431	I-3	P-25
236462	03M806	T6M3	OFF	MON		421430	I-3	P-25
236463	03L806	T6L3	OFF	MON		421429	I-3	P-25
236464	04U806	T6U4	OFF	MON		421428	I-3	P-25
236465	PJ#806	T6PJ	OFF	MON		421427	I-3	P-25
236468	PJ#003	S3PJ	ON	MON			K-5	Q-26
236469	PJ#027	S27PJ	ON	MON			J-6	
236471	01U807	T7U1	OFF	TEST		424059		
236476	03U082	S82U3	ON	MON			B-7	
236478	03U083	S83U3	ON	MON			E-4	
236479	01U085	S85U1	ON	MON			D-4	
236480	03U087	S87U3	ON	MON			F-6	
236482	03U088	S88U3	ON	MON			F-6	
236483	03U089	S89U3	ON	MON			F-6	
236485	03U090	S90U3	ON	MON			H-7	
236487	03U092	S92U3	ON	MON			H-6	
236489	03U093	S93U3	ON	MON			H-6	
236491	03U096	S96U3	ON	MON			G-6	
236493	03U097	S97U3	ON	MON			E-9	
236494	01U098	S98U1	ON	MON			J-10	
236495	03U099	S99U3	ON	MON			K-10	
236497	01U100	S100U1	ON	MON			B-9	
236498	01U101	S101U1	ON	MON			B-8	
236499	01U102	S102U1	ON	MON			A-5	
236500	01U103	S103U1	ON	MON			A-6	
236501	01U104	S104U1	ON	MON			A-6	
236502	01U105	S105U1	ON	MON			A-6	
236503	01U106	S106U1	ON	MON			A-6	
236504	01U107	S170U1	ON	MON			B-6	
236505	01U108	S108U1	ON	MON			A-6	
236506	01U109	S109U1	ON	MON			B-6	
236507	01U110	S11OU1	ON	MON			B-6	
236508	03U111	S111U3	ON	MON			E-9	
236510	03U112	S112U3	ON	MON			H-7	0-27
242124	03U113	WF1U3	ON	MON			G-8	0-27
242125	03U114	WF2U3	ON	MON			H-7	0-27
242127	01U607	OW107U1	ON	MON			E-3	
242128	01U608	OW108U1	ON	MON			F-3	
242129	01U609	OW109U1	ON	MON			F-3	
242130	01U610	OW110U1	ON	MON				
242131	01U611	OW111U1	ON	MON			E-3	
242132	03U647		ON	MON			J-6	
242133	03U648		ON	MON			J-6	P-26
242134	01U652	OW522U1	ON	MON			J-6	
242135	01U666	OW536U1	ON	MON			K-5	
242136	01U667	OW537U1	ON	MON			J-6	

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
242137	01U668	OW538U1	ON	MON			J-6	
242138	04U027	S27U4		MON			J-6	
242153	01U813	H3U1	OFF	MON				P-23
242160	03L079	S79L3	ON	MON			K-5	Q-26
242162		301PB	OFF	UN				
242182	01U624A	BP185A	ON	PIEZ			F-3	
242183	01U624B	BP185B	ON	PIEZ			F-3	
242184	01U624C	BP185C	ON	PIEZ			F-3	
242185	01U624D	BP185D	ON	PIEZ			F-3	
242186	01U625A	BP285A	ON	PIEZ			F-3	
242187	01U625B	BP285B	ON	PIEZ			F-3	
242188	01U625C	BP285C	ON	PIEZ			F-3	
242189	01U625D	BP285D	ON	PIEZ			F-3	
242190	01U626A	BP385A	ON	PIEZ			F-3	
242191	01U626B	BP385B	ON	PIEZ			F-3	
242192	01U626C	BP385C	ON	PIEZ			F-3	
242193	01U626D	BP385D	ON	PIEZ			F-3	
242194	01U627A	BP485A	ON	PIEZ			F-3	
242195	01U627B	BP485B	ON	PIEZ			F-3	
242196	01U627C	BP485C	ON	PIEZ			F-3	
242197	01U627D	BP485D	ON	PIEZ			F-3	
242198	01U628A	BP585A	ON	PIEZ			F-3	
242199	01U628B	BP585B	ON	PIEZ			F-3	
242200	01U628C	BP585C	ON	PIEZ			F-3	
242201	01U628D	BP585D	ON	PIEZ			F-3	
242207		SUNSET MEMORIAL CEMETARY	OFF	UN				
249152		BOYLE	OFF	DOM				
265735		FLOUR CITY ARCH	OFF	UN				
322664		ABBOTT NW HOSP	OFF	UN				
405651		METAL-MATIC INC.	OFF	IND				
406198	04U851	311U4	OFF	MON				U-23
409546		PCA2L3	OFF	TEST				S-24
409547		PCA1U4	OFF	TEST				R-24
409548		PCA2U4	OFF	TEST				S-24
409549		PCA3U4	OFF	TEST				R-22
409550		PCA6U3	OFF	TEST				P-25
409555		PCA5U4	OFF	TEST				V-22
409556		PCA4L3	OFF	TEST				S-22
409557		PCA1L3	OFF	TEST				R-24
409595		B109U3	OFF	ABAND				R-24
409596		B118U3	OFF	MON				R-24
409597		B118L3	OFF	IND				R-24
409598		B117U3	OFF	ABAND				R-24
416051	03M848	308M3	OFF	MON				Q-25
416078	04U848	308U4	OFF	TEST				Q-25
416080	04U852	312U4	OFF	MON				V-23
416081	03L858	318L3	OFF	MON				X-22
416082	04U849	309U4	OFF	MON				R-23
416143			OFF	ABAND				
416198		311U4	OFF	MON				
416199	03L848	308L3	OFF	MON				Q-25
416200	04U850	310U4	OFF	MON				S-22
420713		HERBST LANDFILL	OFF	MON				

TCAAP WELL INDEX
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Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
421425	03U659		ON	MON			J-6	P-26
421426	03U658		ON	MON			K-7	
421438	03U671	PO-1	ON	MON			J-4	P-26
421440	03U672	PD2U3	OFF	MON			K-6	Q-26
421441	03U673	PD3U3	OFF	MON			L-3	Q-25
424052	01L822	NW2L1	OFF	TEST				Q-24
424054	01L821	NW1L1	OFF	TEST				Q-24
424055	01L811	H1L1	OFF	TEST				P-24
424056	01L816	H6L1	OFF	ABAND	✓			P-24
424057	01U808	T8U1	ON	MON			J-2	
424061	01L823	NW3L1	OFF	TEST				S-24
424062	01L813	H3L1	OFF	TEST				P-23
426808	03U811	H1U3	OFF	TEST				P-24
426809	03L811	H1L3	OFF	TEST				P-24
426810	03U821	NW1U3	OFF	TEST				Q-24
426811	04U821	NW1U4	OFF	TEST				Q-24
426812	03U822	NW2U3	OFF	TEST				Q-24
426813	03L822	NW2L3	OFF	TEST				Q-24
426814	03U824	NW4U3	OFF	TEST				R-24
426815	03L673	PD3L3	OFF	TEST			L-3	Q-25
426816	03L813	H3L3	OFF	TEST				P-23
426817	03L802	T2L3	OFF	TEST			K-4	Q-26
426818	03M802	T2M3	OFF	TEST			K-4	Q-26
426842	03F302	B1	ON	REM			K-5	Q-26
426843	03F303	B2	ON	REM			K-4	P-26
426844	03F304	B3	ON	REM			J-4	P-25
426845	03F305	B4	ON	REM			J-3	P-25
426846	03F306	B5	ON	REM			I-3	P-25
426847	03F307	B6	ON	REM			I-3	P-25
426848	03U701	701U3	ON	MON			I-3	P-25
426849	04U701	701U4	ON	MON			I-3	P-25
426850	03U702	702U3	ON	MON			I-3	P-25
426851	04U841	301U4	OFF	TEST				Q-25
426852	03M843	303M3	OFF	TEST				Q-24
426853	04U843	303U4	OFF	TEST				Q-24
426854	04U844	304U4	OFF	TEST				R-24
426855	04U845	305U4	OFF	MON				R-25
426856	04U846	306U4	OFF	MON				S-22
426857	04U847	307U4	OFF	MON				P-24
426858	03L853	313L3	OFF	MON				Q-24
426859	03L854	314L3	OFF	MON				R-25
426860	04U855	315U4	OFF	MON				Q-22
426861	03L856	316L3	OFF	MON				P-23
426862	03U815	H5U3	OFF	TEST				P-23
426863	03U831	OM1U3	OFF	TEST				R-24
426864	03U832	OM2U3	OFF	TEST				R-24
426865	03L832	OM2L3	OFF	TEST				R-24
426866	04U832	OM2U4	OFF	TEST				R-24
426867	04U673	PD3U4	OFF	TEST			L-3	Q-25
426868	03L809	T9L3	OFF	MON				P-25
426876	04U702	702U4	ON	MON			I-3	P-25
426877	04U077	ST77U4	ON	MON			I-3	P-25
426878	03U703	703U3		MON			K-4	P-26

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
426879	03U708	708U3	ON	MON			J-4	P-25
426880	04U708	708U4	ON	MON			J-4	P-25
426881	03U709	709U3	ON	MON			J-3	P-25
426882	04U709	709U4	ON	MON			J-3	P-25
426883	03U704	704U3	ON	MON			E-7	
426884	03U705	705U3	ON	MON			E-7	
426885	03U706	706U3	ON	MON			E-6	
426886	03U707	707U3	ON	MON			C-7	
427410	01U120		ON	MON			A-6	
427411	01U115		ON	MON			A-5	
427412	01U116		ON	MON			A-5	
427413	01U117		ON	MON			A-5	
427414	01U118		ON	MON			B-5	
427415	01U119		ON	MON			A-6	
434031	04U711	711U4	OFF	MON			J-3	P-25
434032	03U710	71OU3	ON	MON			K-5	Q-26
434033	03U711	711U3	OFF	MON			J-3	P-25
434034	04U861	321U4	OFF	MON				R-24
434035	04U860	320U4	OFF	MON				R-25
434036	04U859	319U4	OFF	MON				Q-25
434037	03L841	301L3	OFF	MON				Q-25
434038	03L860	320L3	OFF	MON				R-25
434039	03L861	321L3	OFF	MON				R-24
434040	03L859	319L3	OFF	MON				Q-25
439701	04U854	314U4	OFF	MON				R-25
440884	03U121		ON	MON			H-7	
440885	03M005	ST-5-M3	ON	MON			K-9	
440886	03U129		ON	MON			D-9	
440887	03L084	ST84L3	ON	MON			H-3	0-25
440888	01U122		ON	MON			A-8	
440889	01U125		ON	MON			A-5	
440890	01U126		ON	MON			A-6	
440891	01U127		ON	MON			A-6	
440892	01U128		ON	MON			E-3	
440893	01U133		ON	MON			A-6	
440894	01U134		OFF	MON				
440895	01U130		ON	MON			G-2	
440896	03U124		ON	MON			G-7	
447889	04U871	401U4	OFF	MON				U-21
447890	04U882	412U4	OFF	MON				Z-22
447891	04U881	411U4	OFF	MON				X-20
447892	04U883	413U4	OFF	MON				Z-23
447893	01U350		ON	MON			A-6	
447894	PJ#318	318U4	OFF	MON				X-22
447895	04U880	410U4	OFF	MON				V-19
447896	04U877	407U4	OFF	MON				T-22
447898	04U875	405U4	OFF	MON				U-20
447899	03L846	306L3	OFF	MON				S-22
447900	04U879	409U4	OFF	MON				R-21
447988	04U872	402U4	OFF	MON				V-21
447998	01U135		ON	MON			A-4	
447999	01U136		ON	MON			A-3	
453821	03U317	SC-5	ON	REM			H-6	

TCAAP WELL INDEX
SORTED BY UNIQUE NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
453822	03U316	SC-4	ON	REM			H-6	
453823	03F308	B7	ON	REM			H-2	0-25
453824	03F312	B11	ON	REM			K-5	Q-26
453825	PJ#309	B8	ON	REM			J-3	P-25
453826	PJ#310	B9	ON	REM			I-3	P-25
453827	PJ#311	B10	ON	REM			H-2	P-25
453828	PJ#313	B12	ON	REM			H-2	0-25
453829	04J708		ON	MON			J-3	P-25
453830	04J713		ON	MON			H-2	0-25
453831	03M713		ON	MON			H-2	0-25
453832	04U714		ON	MON			G-2	0-25
453833	03U715	SM1	ON	MON			I-6	
453834	03U716	SM2	ON	MON			H-6	
471394	04U863	323U4	OFF	MON				
476837		MW15H	OFF	MON				
482083		K04-MW	ON	MON				
482084		K02-MW	ON	MON				
482085		K01-MW	ON	MON				
482086		I01-MW	ON	MON				
482087		I05-MW	ON	MON				
482088		I02-MW	ON	MON				
482089		I04-MW	ON	MON				
482090		I03-MW	ON	MON				
482707	04J882		OFF	MON				Z-21
482708	04J835		OFF	MON				Z-22
482709	04J834		OFF	MON				Y-22
500691	04U414	414U4/EZ SELF SERVICE	OFF	MON				T-24
500694	03L137		ON	MON				
505189	01U137		ON	MON			A-5	
505190	01U138		ON	MON			A-5	
505191	01U139		ON	MON			A-5	
505192	01U140		ON	MON			A-5	
505193	01U141		ON	MON			A-5	
505209	01U902		OFF	MON			A-5	
505210	01U901	H3U1	OFF	MON			A-4	
505618	03L138		ON	MON				
508115	04U322	322U4	OFF	MON				T-24
508117	04J702		ON	MON			I-3	P-25
508118	04J077		ON	MON				
508119	04U713		ON	MON			H-2	0-25
508120	04J714		ON	MON			G-2	0-25
508122	03U314	SC-2	ON	REM			I-6	P-27
509083		NEW BRIGHTON #11	OFF	MUNI				T-23
512761		GROSS GOLF #2	OFF	IRR				AA-22
519288		E101-MW	ON	MON				
519289		E102-MW	ON	MON				
519290		E103-MW	ON	MON				
519291		129-1501-MW	ON	MON				
519836	04U834		OFF	MON				Y-22
519956	03L833		OFF	MON			I-2	P-25
519957	04U833		OFF	MON			I-2	P-25
520931		NEW BRIGHTON #13	OFF	MUNI				T-24
524047	04U865	325U4	OFF	MON				T-24

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Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
524048	04J866	326J	OFF	MON				T-24
524049	04U866	326U4	OFF	MON				T-24
524050	04U864	324U4	OFF	MON				T-24
524051	04J864	324J	OFF	MON				T-24
538039	01U145		ON	PIEZ.				
538040	01U146		ON	PIEZ.				
538041	01U147		ON	PIEZ.				
538042	01U148		ON	PIEZ.				
538043	01U149		ON	PIEZ.				
538044	01U150		ON	PIEZ.				
538045	01U151		ON	PIEZ.				
538046	01U152		ON	PIEZ.				
538047	01U153		ON	PIEZ.				
538048	01U154		ON	PIEZ.				
538049	01U155		ON	PIEZ.				
538050	01U156		ON	PIEZ.				
538051	01U351		ON	REM				
538052	01U352		ON	REM				
538053	01U353		ON	REM				
538054	01U354		ON	REM				
538055	01U355		ON	REM				
538056	01U356		ON	REM				
538057	01U357		ON	REM				
538058	01U358		ON	REM				
538059	01U904		OFF	MON				
538060	01U903		OFF	MON				
538062	01U157		ON	MON				
538063	01U158		ON	MON				
	PJ#006		ON	MON				
	01U131							
	01U132							
	01U142							
	01U143							
	01U144							
	03U301	SC-1	ON	REM			K-5	P-26
	03L306		ON	MON				
	03U315	SC-3		REM			I-6	
	01U653			MON				
554216		NEW BRIGHTON #14	OFF	MUNI				T-23
	03U674	OW541U3	ON	MON			K-5	
	01U675							
	03U675							
	03U676		ON	MON			J-6	
	04U842			MON				
	03L843	303L3	OFF	MON				Q-24
		MW15D	OFF	MON				
		MW15S	OFF	MON				
		OW543U3						
		Staff Gauge 1						
		Staff Gauge 2						
		Staff Gauge 3						

A.3 TCAAP Well Index Sorted by IRDMIS Number

Note:

In the "Well Type" column of the following index, the different types are abbreviated as follows:

UN	=	Unknown
MUNI	=	Municipal
MON	=	Monitoring
DOM	=	Domestic
IND	=	Industrial
P.S.	=	Public Supply
COM	=	Commercial
IRR	=	Irrigation
ABAND	=	Abandoned
PIEZ.	=	Piezometer
REM	=	Remedial

TCAAP WELL INDEX
SORTED BY IRDMIS NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
234137	03L001	S1L3	ON	MON			G-2	0-25
234136	03M001	S1M3	ON	MON			G-2	0-25
234135	03U001	S1U3	ON	MON			G-2	0-25
234138	04U001	S1U4	ON	MON			G-2	0-25
234141	03L002	S2L3	ON	MON			I-4	P-25
234140	03M002	S2M3	ON	MON			I-4	P-25
234139	03U002	S2U3	ON	MON			I-4	P-25
234194	04U002	S2U4	ON	MON			I-4	P-25
236176	01U003	S3U1	ON	MON			K-5	Q-26
234144	03L003	S3L3	ON	MON			K-5	Q-26
234143	03M003	S3M3	ON	MON			K-5	Q-26
234142	03U003	S3U3	ON	MON			K-5	Q-26
234193	04U003	S3U4	ON	MON			K-5	Q-26
236468	PJ#003	S3PJ	ON	MON			K-5	Q-26
234198	01U004	S4U1	ON	MON			K-7	
234147	03L004	S4L3	ON	MON			K-7	
234146	03M004	S4M3	ON	MON			K-7	
234145	03U004	S4U3	ON	MON			K-7	
236079	03L005	S5L3	ON	MON			K-9	
440885	03M005	ST-5-M3	ON	MON			K-9	
234148	03U005	S5U3	ON	MON			K-9	
234149	03U006	S6U3	ON	MON			K-11	
	PJ#006		ON	MON				
234152	03L007	S7L3	ON	MON			J-12	
234151	03M007	S7M3	ON	MON			J-12	
234150	03U007	S7U3	ON	MON			J-12	
234195	04U007	S7U4	ON	MON			J-12	
234153	03U008	S8U3	ON	MON			F-12	
234154	03U009	S9U3	ON	MON			B-12	
234157	03L010	S10L3	ON	MON			A-10	
234156	03M010	S10M3	ON	MON			A-10	
234155	03U010	S10U3	ON	MON			A-10	
234199	01U011	S11U1	ON	MON			A-7	
234158	03U011	S11U3	ON	MON			A-7	
234200	01U012	S12U1	ON	MON			B-3	
234161	03L012	S12L3	ON	MON			B-3	
234160	03M012	S12M3	ON	MON			B-3	
234159	03U012	S12U3	ON	MON			B-3	
234196	04U012	S12U4	ON	MON			B-3	
234164	03L013	S13L3	ON	MON			E-2	
234163	03M013	S13M3	ON	MON			E-2	
234162	03U013	S13U3	ON	MON			E-2	
235748	03L014	S14L3	ON	MON			I-7	P-27
234165	03U014	S14U3	ON	MON			I-7	P-27
234166	03U015	S15U3	ON	MON			F-5	
234167	03U016	S16U3	ON	MON			F-9	0-27
234170	03L017	S17L3	ON	MON			H-5	
234169	03M017	S17M3	ON	MON			H-5	
234168	03U017	S17U3	ON	MON			H-5	
235749	03L018	S18L3	ON	MON			H-6	
234171	03U018	S18U3	ON	MON			H-6	
234172	03U019	S19U3	ON	MON			H-8	
234175	03L020	S20L3	ON	MON			I-6	P-26

TCAAP WELL INDEX
SORTED BY IRDMIS NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
234174	03M020	S20M3	ON	MON			I-6	P-26
234173	03U020	S20U3	ON	MON			I-6	P-26
234197	04U020	S20U4	ON	MON			I-6	P-26
235750	03L021	S21L3	ON	MON			J-4	P-26
234176	03U021	S21U3	ON	MON			J-4	P-26
234201	01U022	S22U1	ON	MON			B-6	
236178	03U022	S22U3		MON			B-6	
236179	03U023	S23U3		MON			B-5	
236180	03U024	S24U3		MON			C-5	
236181	03U025	S25U3		MON			D-4	
236182	03U026	S26U3	ON	MON			H-7	
235751	03L027	S27L3	ON	MON			J-6	
236183	03U027	S27U3		MON			J-6	
242138	04U027	S27U4		MON			J-6	
236469	PJ#027	S27PJ	ON	MON			J-6	
235752	03L028	S28L3		MON			J-6	
236184	03U028	S28U3		MON			J-6	
235753	03L029	S29L3		MON		236066	K-5	P-26
236185	03U029	S29U3		MON			K-5	P-26
236186	03U030	S30U3		MON			J-6	P-26
236187	03U031	S31U3		MON			F-4	
236188	03U032	S32U3		MON			G-7	
234202	01U033	S33U1	ON	MON			A-10	
234204	01U034	S34U1	ON	MON			A-8	
234205	01U035	S35U1	ON	TEST			A-7	
234206	01U036	S36U1	ON	MON			A-7	
234207	01U037	S37U1		MON				
234208	01U038	S38U1		MON			A-6	
234209	01U039	S39U1	ON	MON			A-4	
234210	01U040	S40U1	ON	MON			B-4	
234211	01U041	S41U1	ON	MON			B-5	
236177	01U043	S43AU1		MON			C-5	
234212	01U044	S44U1	ON	MON			C-4	
234215	01U045	S45U1	ON	MON			D-4	
234216	01U046	S46U1	ON	MON			D-4	
234217	01U047	S47U1	ON	MON			E-2	
234218	01U048	S48U1		MON			E-2	
234221	01U050	S50AU1		MON			H-2	
234222	01U051	S51U1	ON	MON			H-2	
234223	01U052	S52U1	ON	MON			E-3	
234225	01U053	S53AU1	ON	MON			K-4	
234227	01U054	S54AU1		MON			K-5	
234235	01U060	S60U1	ON	MON			J-10	
234237	01U062	S62U1	ON	MON			J-3	
234239	01U063	S63U1	ON	MON			B-4	
234240	01U064	S64U1	ON	MON			J-6	
234241	01U065	S65U1	ON	MON			F-2	
234243	01U067	S67U1	ON	MON			B-6	
234250	01U072	S72AU1	ON	MON			E-9	
235565	PJ#074	S74PJ		MON			I-6	
236078	03U075	S75U3	ON	MON			F-2	
236077	03U076	S76U3	ON	MON			G-2	
236076	03L077	S77L3	ON	MON			I-3	P-25

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Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
236075	03U077	S77U3	ON	MON			I-3	P-25
508118	04J077		ON	MON				
426877	04U077	ST77U4	ON	MON			I-3	P-25
236074	03L078	S78L3	ON	MON			J-4	P-26
236073	03U078	S78U3	ON	MON			J-4	P-26
242160	03L079	S79L3	ON	MON			K-5	Q-26
236072	03U079	S79U3	ON	MON			K-5	Q-26
236071	03L080	S80L3	ON	MON			J-6	
236070	03L081	S81L3	ON	MON			I-8	
236476	03U082	S82U3	ON	MON			B-7	
236478	03U083	S83U3	ON	MON			E-4	
440887	03L084	ST84L3	ON	MON			H-3	0-25
236069	03U084	S84U3	ON	MON			H-3	0-25
236479	01U085	S85U1	ON	MON			D-4	
236068	03L086	S86L3	ON	MON			J-9	
236480	03U087	S87U3	ON	MON			F-6	
236482	03U088	S88U3	ON	MON			F-6	
236483	03U089	S89U3	ON	MON			F-6	
236485	03U090	S90U3	ON	MON			H-7	
236067	03L091	S91L3	ON	MON			G-7	
236487	03U092	S92U3	ON	MON			H-6	
236489	03U093	S93U3	ON	MON			H-6	
236066	03U094	S94U3	ON	MON			I-7	P-27
236491	03U096	S96U3	ON	MON			G-6	
236493	03U097	S97U3	ON	MON			E-9	
236494	01U098	S98U1	ON	MON			J-10	
236495	03U099	S99U3	ON	MON			K-10	
236497	01U100	S100U1	ON	MON			B-9	
236498	01U101	S101U1	ON	MON			B-8	
236499	01U102	S102U1	ON	MON			A-5	
236500	01U103	S103U1	ON	MON			A-6	
236501	01U104	S104U1	ON	MON			A-6	
236502	01U105	S105U1	ON	MON			A-6	
236503	01U106	S106U1	ON	MON			A-6	
236504	01U107	S170U1	ON	MON			B-6	
236505	01U108	S108U1	ON	MON			A-6	
236506	01U109	S109U1	ON	MON			B-6	
236507	01U110	S11OU1	ON	MON			B-6	
236508	03U111	S111U3	ON	MON			E-9	
236510	03U112	S112U3	ON	MON			H-7	0-27
236080	03L113	WF1L3	ON	MON			G-8	0-27
242124	03U113	WF1U3	ON	MON			G-8	0-27
242125	03U114	WF2U3	ON	MON			H-7	0-27
427411	01U115		ON	MON			A-5	
427412	01U116		ON	MON			A-5	
427413	01U117		ON	MON			A-5	
427414	01U118		ON	MON			B-5	
427415	01U119		ON	MON			A-6	
427410	01U120		ON	MON			A-6	
440884	03U121		ON	MON			H-7	
440888	01U122		ON	MON			A-8	
440896	03U124		ON	MON			G-7	
440889	01U125		ON	MON			A-5	

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Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
440890	01U126		ON	MON			A-6	
440891	01U127		ON	MON			A-6	
440892	01U128		ON	MON			E-3	
440886	03U129		ON	MON			D-9	
440895	01U130		ON	MON			G-2	
	01U131							
	01U132							
440893	01U133		ON	MON			A-6	
440894	01U134		OFF	MON				
447998	01U135		ON	MON			A-4	
447999	01U136		ON	MON			A-3	
505189	01U137		ON	MON			A-5	
500694	03L137		ON	MON				
505190	01U138		ON	MON			A-5	
505618	03L138		ON	MON				
505191	01U139		ON	MON			A-5	
505192	01U140		ON	MON			A-5	
505193	01U141		ON	MON			A-5	
	01U142							
	01U143							
	01U144							
538039	01U145		ON	PIEZ.				
538040	01U146		ON	PIEZ.				
538041	01U147		ON	PIEZ.				
538042	01U148		ON	PIEZ.				
538043	01U149		ON	PIEZ.				
538044	01U150		ON	PIEZ.				
538045	01U151		ON	PIEZ.				
538046	01U152		ON	PIEZ.				
538047	01U153		ON	PIEZ.				
538048	01U154		ON	PIEZ.				
538049	01U155		ON	PIEZ.				
538050	01U156		ON	PIEZ.				
538062	01U157		ON	MON				
538063	01U158		ON	MON				
	03U301	SC-1	ON	REM			K-5	P-26
426842	03F302	B1	ON	REM			K-5	Q-26
426843	03F303	B2	ON	REM			K-4	P-26
426844	03F304	B3	ON	REM			J-4	P-25
426845	03F305	B4	ON	REM			J-3	P-25
426846	03F306	B5	ON	REM			I-3	P-25
	03L306		ON	MON				
426847	03F307	B6	ON	REM			I-3	P-25
453823	03F308	B7	ON	REM			H-2	0-25
453825	PJ#309	B8	ON	REM			J-3	P-25
453826	PJ#310	B9	ON	REM			I-3	P-25
453827	PJ#311	B10	ON	REM			H-2	P-25
453824	03F312	B11	ON	REM			K-5	Q-26
453828	PJ#313	B12	ON	REM			H-2	0-25
508122	03U314	SC-2	ON	REM			I-6	P-27
	03U315	SC-3		REM			I-6	
453822	03U316	SC-4	ON	REM			H-6	
453821	03U317	SC-5	ON	REM			H-6	

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447894	PJ#318	318U4	OFF	MON				X-22
508115	04U322	322U4	OFF	MON				T-24
447893	01U350		ON	MON			A-6	
538051	01U351		ON	REM				
538052	01U352		ON	REM				
538053	01U353		ON	REM				
538054	01U354		ON	REM				
538055	01U355		ON	REM				
538056	01U356		ON	REM				
538057	01U357		ON	REM				
538058	01U358		ON	REM				
500691	04U414	414U4/EZ SELF SERVICE	OFF	MON				T-24
206754	PJ#501	TWIN CITIES ARSENAL NO. 1	ON	P.S.			F-4	
206756	PJ#502	TWIN CITIES ARSENAL NO. 2	ON	IND			G-4	
206758	PJ#503	TWIN CITIES ARSENAL NO. 3	ON	IND			H-4	
206724	PJ#504	TWIN CITIES ARSENAL	OFF	ABAND	✓		E-2	
231857	03M505			ABAND	✓		K-12	
206753	PJ#506	TWIN CITIES ARSENAL NO. 6	ON		✓		H-5	
206755	PJ#507	TWIN CITIES ARSENAL NO. 7	ON	ABAND	✓		H-5	
206759	PJ#508	TWIN CITIES ARSENAL NO. 8	ON	ABAND	✓		I-6	
206760	03M509		ON	MON			J-6	
206760	PJ#509	TWIN CITIES ARSENAL NO.9	ON	DOM			J-6	
231742	04U510	GRENADE PLANT PROOF RANGES	ON	IND			C-12	
114410	03U521		OFF	MON			F-7	
231854	03L522	ARSENAL GRAVEL PIT	ON	ABAND	✓		D-8	
206725	03L523	ARSENAL GRAVEL PIT	ON	ABAND	✓		D-8	
236194	01U524	FA4U1	ON	PIEZ.			I-3	
236196	01U525	FW5U1	ON	PIEZ.			J-4	
236197	01U526	FV12U1	ON	PIEZ.			I-4	
236195	01U527	FV8U1	ON	PIEZ.			I-3	
236189	01U601	OW101U1	ON	MON			F-3	
236190	01U602	OW102U1	ON	MON			F-3	
236191	01U603	OW103U1	ON	MON			E-3	
236192	01U604	OW104U1	ON	MON			E-3	
236193	01U605	OW10571	ON	MON			E-3	
242127	01U607	OW107U1	ON	MON			E-3	
242128	01U608	OW108U1	ON	MON			F-3	
242129	01U609	OW109U1	ON	MON			F-3	
242130	01U610	OW110U1	ON	MON				
242131	01U611	OW111U1	ON	MON			E-3	
194725	01U612	OW112U1	ON	MON		194758	E-3	
194726	01U613		ON	MON		194759	E-3	
194727	01U615	OW115U1	ON	MON		194760	F-3	
194728	01U616	OW116U1	ON	MON		194761	F-3	
194729	01U617	OW117U1	ON	MON		194770	F-3	
194730	01U618	OW118U1	ON	MON		194771	F-3	
194772	01U619	PW119U1	ON	MON			F-3	
194701	01U620	OW120U1	ON	MON			F-3	
194702	01U621	PW121U1	ON	MON			F-3	
194703	01U622	OW122U1	ON	MON			F-3	
194704	01U623	OW123U1	ON	MON			F-3	
242182	01U624A	BP185A	ON	PIEZ			F-3	
242183	01U624B	BP185B	ON	PIEZ			F-3	

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242184	01U624C	BP185C	ON	PIEZ			F-3	
242185	01U624D	BP185D	ON	PIEZ			F-3	
242186	01U625A	BP285A	ON	PIEZ			F-3	
242187	01U625B	BP285B	ON	PIEZ			F-3	
242188	01U625C	BP285C	ON	PIEZ			F-3	
242189	01U625D	BP285D	ON	PIEZ			F-3	
242190	01U626A	BP385A	ON	PIEZ			F-3	
242191	01U626B	BP385B	ON	PIEZ			F-3	
242192	01U626C	BP385C	ON	PIEZ			F-3	
242193	01U626D	BP385D	ON	PIEZ			F-3	
242194	01U627A	BP485A	ON	PIEZ			F-3	
242195	01U627B	BP485B	ON	PIEZ			F-3	
242196	01U627C	BP485C	ON	PIEZ			F-3	
242197	01U627D	BP485D	ON	PIEZ			F-3	
242198	01U628A	BP585A	ON	PIEZ			F-3	
242199	01U628B	BP585B	ON	PIEZ			F-3	
242200	01U628C	BP585C	ON	PIEZ			F-3	
242201	01U628D	BP585D	ON	PIEZ			F-3	
194720	01U631	OW501U1	ON	MON				
194721	01U632	OW502U1		MON				
194716	01U634	OW504U1	ON	MON			J-5	
194722	01U635	OW505U1	ON	MON				
194723	01U636	OW506U1	ON	MON.			K-5	
194717	01U638	OW508U1		MON				
194718	01U639	OW509U1	ON	MON			K-6	
194719	01U640	OW510U1	ON	MON			K-6	
194724	01U642	OW512U1	ON	MON			K-7	
242132	03U647		ON	MON			J-6	
242133	03U648		ON	MON			J-6	P-26
242134	01U652	OW522U1	ON	MON			J-6	
	01U653			MON				
421426	03U658		ON	MON			K-7	
421425	03U659		ON	MON			J-6	P-26
242135	01U666	OW536U1	ON	MON			K-5	
242136	01U667	OW537U1	ON	MON			J-6	
242137	01U668	OW538U1	ON	MON			J-6	
421438	03U671	PO-1	ON	MON			J-4	P-26
421440	03U672	PD2U3	OFF	MON			K-6	Q-26
426815	03L673	PD3L3	OFF	TEST			L-3	Q-25
421441	03U673	PD3U3	OFF	MON			L-3	Q-25
426867	04U673	PD3U4	OFF	TEST			L-3	Q-25
	03U674	OW541U3	ON	MON			K-5	
	01U675							
	03U675							
	03U676		ON	MON			J-6	
426848	03U701	701U3	ON	MON			I-3	P-25
426849	04U701	701U4	ON	MON			I-3	P-25
426850	03U702	702U3	ON	MON			I-3	P-25
508117	04J702		ON	MON			I-3	P-25
426876	04U702	702U4	ON	MON			I-3	P-25
426878	03U703	703U3		MON			K-4	P-26
426883	03U704	704U3	ON	MON			E-7	
426884	03U705	705U3	ON	MON			E-7	

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426885	03U706	706U3	ON	MON			E-6	
426886	03U707	707U3	ON	MON			C-7	
426879	03U708	708U3	ON	MON			J-4	P-25
453829	04J708		ON	MON			J-3	P-25
426880	04U708	708U4	ON	MON			J-4	P-25
426881	03U709	709U3	ON	MON			J-3	P-25
426882	04U709	709U4	ON	MON			J-3	P-25
434032	03U710	71OU3	ON	MON			K-5	Q-26
434033	03U711	711U3	OFF	MON			J-3	P-25
434031	04U711	711U4	OFF	MON			J-3	P-25
453831	03M713		ON	MON			H-2	0-25
453830	04J713		ON	MON			H-2	0-25
508119	04U713		ON	MON			H-2	0-25
508120	04J714		ON	MON			G-2	0-25
453832	04U714		ON	MON			G-2	0-25
453833	03U715	SM1	ON	MON			I-6	
453834	03U716	SM2	ON	MON			H-6	
236449	03U801	T1U3	OFF	MON			K-4	Q-26
426817	03L802	T2L3	OFF	TEST			K-4	Q-26
426818	03M802	T2M3	OFF	TEST			K-4	Q-26
236450	04U802	T2U4	OFF	MON			K-4	Q-26
236437	PJ#802	T2PJ	OFF	MON		421437	K-4	Q-26
236452	01U803	T3U1	OFF	TEST		424053	K-3	Q-25
236453	03U803	T3U3	OFF	MON		421434	K-3	Q-25
236455	03U804	T4U3	OFF	MON		421433	J-4	P-25
236457	01U805	T5U1	OFF	MON		424060	J-3	P-25
236458	03U805	T5U3	OFF	MON		421432	J-3	P-25
236460	01U806	T6U1	OFF	MON		424058	I-3	P-25
236463	03L806	T6L3	OFF	MON		421429	I-3	P-25
236462	03M806	T6M3	OFF	MON		421430	I-3	P-25
236461	03U806	T6U3	OFF	MON		421431	I-3	P-25
236464	04U806	T6U4	OFF	MON		421428	I-3	P-25
236465	PJ#806	T6PJ	OFF	MON		421427	I-3	P-25
236471	01U807	T7U1	OFF	TEST		424059		
424057	01U808	T8U1	ON	MON			J-2	
426868	03L809	T9L3	OFF	MON				P-25
424055	01L811	H1L1	OFF	TEST				P-24
426809	03L811	H1L3	OFF	TEST				P-24
426808	03U811	H1U3	OFF	TEST				P-24
424062	01L813	H3L1	OFF	TEST				P-23
242153	01U813	H3U1	OFF	MON				P-23
426816	03L813	H3L3	OFF	TEST				P-23
426862	03U815	H5U3	OFF	TEST				P-23
424056	01L816	H6L1	OFF	ABAND	✓			P-24
424054	01L821	NW1L1	OFF	TEST				Q-24
426810	03U821	NW1U3	OFF	TEST				Q-24
426811	04U821	NW1U4	OFF	TEST				Q-24
424052	01L822	NW2L1	OFF	TEST				Q-24
426813	03L822	NW2L3	OFF	TEST				Q-24
426812	03U822	NW2U3	OFF	TEST				Q-24
424061	01L823	NW3L1	OFF	TEST				S-24
426814	03U824	NW4U3	OFF	TEST				R-24
426863	03U831	OM1U3	OFF	TEST				R-24

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426865	03L832	OM2L3	OFF	TEST				R-24
426864	03U832	OM2U3	OFF	TEST				R-24
426866	04U832	OM2U4	OFF	TEST				R-24
519956	03L833		OFF	MON			I-2	P-25
519957	04U833		OFF	MON			I-2	P-25
482709	04J834		OFF	MON				Y-22
519836	04U834		OFF	MON				Y-22
482708	04J835		OFF	MON				Z-22
434037	03L841	301L3	OFF	MON				Q-25
426851	04U841	301U4	OFF	TEST				Q-25
	04U842			MON				
	03L843	303L3	OFF	MON				Q-24
426852	03M843	303M3	OFF	TEST				Q-24
426853	04U843	303U4	OFF	TEST				Q-24
426854	04U844	304U4	OFF	TEST				R-24
426855	04U845	305U4	OFF	MON				R-25
447899	03L846	306L3	OFF	MON				S-22
426856	04U846	306U4	OFF	MON				S-22
426857	04U847	307U4	OFF	MON				P-24
416199	03L848	308L3	OFF	MON				Q-25
416051	03M848	308M3	OFF	MON				Q-25
416078	04U848	308U4	OFF	TEST				Q-25
416082	04U849	309U4	OFF	MON				R-23
416200	04U850	310U4	OFF	MON				S-22
406198	04U851	311U4	OFF	MON				U-23
416080	04U852	312U4	OFF	MON				V-23
426858	03L853	313L3	OFF	MON				Q-24
426859	03L854	314L3	OFF	MON				R-25
439701	04U854	314U4	OFF	MON				R-25
426860	04U855	315U4	OFF	MON				Q-22
426861	03L856	316L3	OFF	MON				P-23
416081	03L858	318L3	OFF	MON				X-22
434040	03L859	319L3	OFF	MON				Q-25
434036	04U859	319U4	OFF	MON				Q-25
434038	03L860	320L3	OFF	MON				R-25
434035	04U860	320U4	OFF	MON				R-25
434039	03L861	321L3	OFF	MON				R-24
434034	04U861	321U4	OFF	MON				R-24
471394	04U863	323U4	OFF	MON				
524051	04J864	324J	OFF	MON				T-24
524050	04U864	324U4	OFF	MON				T-24
524047	04U865	325U4	OFF	MON				T-24
524048	04J866	326J	OFF	MON				T-24
524049	04U866	326U4	OFF	MON				T-24
447889	04U871	401U4	OFF	MON				U-21
447988	04U872	402U4	OFF	MON				V-21
447898	04U875	405U4	OFF	MON				U-20
447896	04U877	407U4	OFF	MON				T-22
447900	04U879	409U4	OFF	MON				R-21
447895	04U880	410U4	OFF	MON				V-19
447891	04U881	411U4	OFF	MON				X-20
482707	04J882		OFF	MON				Z-21
447890	04U882	412U4	OFF	MON				Z-22

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447892	04U883	413U4	OFF	MON				Z-23
505210	01U901	H3U1	OFF	MON			A-4	
505209	01U902		OFF	MON			A-5	
538060	01U903		OFF	MON				
538059	01U904		OFF	MON				
107405		ROEBKE	OFF	UN				
110485		NEW BRIGHTON #12	OFF	MUNI				P-21
122210		ST. PAUL PORT AUTH. #3	OFF	IND				
127537		MIDWEST ASPHALT	OFF	DOM				
134318		LORENZ W SEUTTER	OFF	DOM				
139035		WATERGATE MARINA	OFF	P.S.				
151568		ARDEN MANOR MOBILE HOME	OFF	P.S.				
161432		NEW BRIGHTON #10	OFF	MUNI				V-24
191942		118PDC/MODEL STONE	OFF	MON				R-24
200070		RUAN TRANSPORT	OFF	COM	✓			
200071		PRESTRESSED CONCRETE	OFF	IND	✓			
200072		WITTE TRANSPORTATION	OFF	IND	✓			
200073		WILSON TRANSFER & STORAGE	OFF	IND				
200074		ASBESTOS PROD	OFF	IND	✓			
200075		PHILLIPS PETROLEUM	OFF	IND	✓			
200076		OLD DUTCH FOODS INC	OFF	IND				Z-23
200077		JOHN CONLIN	OFF	DOM	✓			
200078		WILLIAM CLASS	OFF	DOM				
200079		LAWRENCE SCHOENING	OFF	DOM				
200080		CARL A OSTROM & SON	OFF	DOM				
200081		A. O. LIEBIG	OFF	DOM				
200082		2196 MARION ROAD	OFF	DOM				
200148		PAPER CALMERSON	OFF	IND	✓			BB-23
200154		U OF M GOLF COURSE	OFF	IRR				CC-25
200167		KOPPERS COKE #1	OFF	IND				
200171		PLATING INC	OFF	IND				
200197		SNOW FLAKE DAIRY	OFF	COM				
200264		1620 CENTRAL	OFF	IND				
200384		METALLURGICAL INC. WELL #1	OFF	IND				
200524		ST. ANTHONY #5	OFF	MUNI				V-21
200525		PLETSCHER	OFF	UN				
200531		NAZARETH	OFF	UN				
200599		CEDAR AVE. TRIANGLE	OFF	P.S.				
200602		ATKINSON MILL CO.	OFF	IND				
200629		GENERAL MILLS	OFF	IND				
200803		ST. ANTHONY #4	OFF	P.S.				X-22
200804		ST. ANTHONY #3	OFF	MUNI				X-22
200812		GROSS GOLF COURSE #1	OFF	COM				AA-22
200814		AMERICAN LINEN	OFF	IND				CC-22
201074		GLEASSON MORTUARY	OFF	COM				
201082		NORTHWESTERN HOSPITAL	OFF	P.S.				
206669		FRIDLEY #8	OFF	MUNI				
206672		FRIDLEY #9	OFF	MUNI				
206673		FRIDLEY #6	OFF	MUNI				
206688		CLOVERPOND WELL	OFF	DOM				T-20
206689		JAMES K. O'NEIL	OFF	UN				
206693		FERNELIUS	OFF	UN				
206702		MINN E.S.	OFF	UN				

TCAAP WELL INDEX
SORTED BY IRDMIS NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
206720		MOUNDSVIEW	OFF	MUNI				
206722		M0UNDSVIEW #5	OFF	MUNI				
206750		SHORE #4	OFF	MUNI				
206787		MOUNDSVIEW H.S.	OFF	P.S.				S-25
206789		NEW BRIGHTON #1	OFF	MUNI	✓			
206791		NEW BRIGHTON #7	OFF	MUNI				U-23
206792		NEW BRIGHTON #4						
206793		NEW BRIGHTON #3	OFF	MUNI				S-21
206794		NEW BRIGHTON #9	OFF	MUNI				T-21
206795		NEW BRIGHTON #8	OFF	MUNI				T-21
206796		NEW BRIGHTON #5	OFF	MUNI				
206797		NEW BRIGHTON #6	OFF	MUNI				T-21
206798		NEW BRIGHTON #2	OFF	MUNI	✓			
223844		KURTH MALTING CO EAST WL	OFF	IND				
223992		BOOM ISLAND	OFF	IND				
225886		FRANKLIN STEEL SQUARE	OFF	P.S.				
225905		ST PAUL TERM. WAREHOUSE	OFF	IND				
225906		ST PAUL TERM. WAREHOUSE	OFF	IND				
231741		LABELLE	OFF	UN				
231845		MNDOT CIVIL DEFENSE TRAIN.	ON/OFF	P.S.			A-4	
231878		MENGELKOCH #2	OFF	UN				R-25
232067		NBR 135	OFF	UN				
232069		UHIL	OFF	UN				
233221		REUBEN MEAT	OFF	DOM				CC-20
233222		LOWRY GROVE TRAILER	OFF	ABAND	✓			Z-21
233241		KOZAH'S MARKET	OFF	UN	✓			
233520		MCGILLIS	OFF	UN				
233533		ROSELAWN CEMETARY	OFF	IRR				
233763		P. L. MORGAN	OFF	DOM				
233806		2581 NORTH CLEVELAND	OFF	DOM				
234301		DEWITT	OFF	UN				
234305		GLENN BEGGIN	OFF	UN				
234319		HIDE & TALLOW #1	OFF	UN				P-25
234327		BRESKE	OFF	UN				
234335		MENGELKOCH #1	OFF	UN				R-25
234337		MENGELKOCH #3	OFF	UN	✓			R-25
234350		GORDON	OFF	UN				
234351		YEMPA	OFF	UN				
234352		1206 12TH AV NW	OFF	UN				R-23
234353		LENTSCH'S ICE WK.	OFF	UN				P-25
234355		KINGDOM HALL	OFF	UN				
234356		NORDQUIST P43	OFF	UN				Q-25
234357		PHILLIPS PET P46	OFF	UN				P-25
234386		ZELL OLS.	OFF	UN				
234391		SHERER L.	OFF	UN				
234396		DEWITT	OFF	UN	✓			
234406		KLAPP	OFF	UN	✓			
234409		HIDE & TALLOW	OFF	UN				
234425		KEN GEREBI	OFF	UN	✓			P-25
234430		CMIEL	OFF	UN	✓			Q-26
234431		HARSTAD	OFF	UN				
234463		KEN SOLIE	OFF	UN				V-21
234546		HONEYWELL RIDGEWAY	OFF	UN				BB-21

TCAAP WELL INDEX
SORTED BY IRDMIS NUMBER

Minnesota Unique #	IRDMIS #	Common Name	Well Location	Well Type	Well Sealed	Second Unique #	Well Location On-post	Well Location Off-post
234547		HONEYWELL RIDGEWAY	OFF	UN				BB-21
234549		REINER	OFF	IRR				Y-21
235539		OLD HOTEL	OFF	UN				Q-24
235557		HIDDEN FALLS PARK W.WELL	OFF	P.S.				
235619		SHRINERS HOSPITAL	OFF	P.S.				
235735		FLOUR CITY ARCHITECTURAL	OFF	COM				
236122		NWR	OFF	ABAND				Q-24
242162		301PB	OFF	UN				
242207		SUNSET MEMORIAL CEMETARY	OFF	UN				
249152		BOYLE	OFF	DOM				
265735		FLOUR CITY ARCH	OFF	UN				
322664		ABBOTT NW HOSP	OFF	UN				
405651		METAL-MATIC INC.	OFF	IND				
409546		PCA2L3	OFF	TEST				S-24
409547		PCA1U4	OFF	TEST				R-24
409548		PCA2U4	OFF	TEST				S-24
409549		PCA3U4	OFF	TEST				R-22
409550		PCA6U3	OFF	TEST				P-25
409555		PCA5U4	OFF	TEST				V-22
409556		PCA4L3	OFF	TEST				S-22
409557		PCA1L3	OFF	TEST				R-24
409595		B109U3	OFF	ABAND				R-24
409596		B118U3	OFF	MON				R-24
409597		B118L3	OFF	IND				R-24
409598		B117U3	OFF	ABAND				R-24
416143			OFF	ABAND				
416198		311U4	OFF	MON				
420713		HERBST LANDFILL	OFF	MON				
476837		MW15H	OFF	MON				
482083		K04-MW	ON	MON				
482084		K02-MW	ON	MON				
482085		K01-MW	ON	MON				
482086		I01-MW	ON	MON				
482087		I05-MW	ON	MON				
482088		I02-MW	ON	MON				
482089		I04-MW	ON	MON				
482090		I03-MW	ON	MON				
509083		NEW BRIGHTON #11	OFF	MUNI				T-23
512761		GROSS GOLF #2	OFF	IRR				AA-22
519288		E101-MW	ON	MON				
519289		E102-MW	ON	MON				
519290		E103-MW	ON	MON				
519291		129-1501-MW	ON	MON				
520931		NEW BRIGHTON #13	OFF	MUNI				T-24
554216		NEW BRIGHTON #14	OFF	MUNI				T-23
		MW15D	OFF	MON				
		MW15S	OFF	MON				
		OW543U3						
		Staff Gauge 1						
		Staff Gauge 2						
		Staff Gauge 3						

APPENDIX B

Appendix B

FY 1997 Annual Monitoring Plans

B.1 Groundwater Monitoring Plan

Notes:

Shading indicates that the water level or quality measurement was not collected at the scheduled time. Documentation for the missing data is provided in Appendix B.2. If the data was collected at a different time, there is a parentheses following the shaded area indicating the Quarter in which the data was collected.

(1) "X" denotes a water level measurement during the month indicated in the heading (OND 96 = October, November, December 1996).

(2) The numbers represent analytical parameter categories. The individual parameters within each category are outlined in Appendix D.

(3) Only 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 1998.

(5) Water level will be measured if the wellhead is accessible.

(6) Sample for Category 1 if in production at time of sample collection.

(7) Analytes will include those included in Category 1 with the addition of cis-1,2-dichloroethene and trans-1,2-dichloroethene and the omission of tetrachloroethene; 1,1,2-trichlorotrifluoroethane; and 1,2-dichloropropane.

(8) Proposed well.

(A) Indicates that the data is the responsibility of Alliant Techsystems Inc., the tenant and responsible party.
(B) Indicates that the data is the responsibility of the U.S. Army.
(P) Designates a piezometer.

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
Operable Unit 1											
	01L	01L811		---	---	---	---	---	---	---	---
	01L	01L813		---	---	---	---	---	---	---	---
	01L	01L816		---	---	---	---	---	---	---	---
	01L	01L821		---	---	---	---	---	---	---	---
	01L	01L822		---	---	---	---	---	---	---	---
	01L	01L823		---	---	---	---	---	---	---	---
	01U	01U062		---	---	---	---	---	---	---	---
	01U	01U803		---	---	---	---	---	---	---	---
	01U	01U805		---	---	---	---	---	---	---	---
	01U	01U806		---	---	---	---	---	---	---	---
	01U	01U807		---	---	---	---	---	---	---	---
	01U	01U813		---	---	---	---	---	---	---	---
	03L	03L806		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	03L811		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	03L813		---	---	---	---	---	---	---	---
	03L	03L822		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	03L832		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	03L841		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	03L846		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	03L853		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	03L856		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	03L858		---	---	---	---	---	---	---	---
	03L	03L860		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	234356	Nordquist P43	--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	234425	Gerebi	---	---	---	---	---	---	---	---
	03L	409546	PCA2L3	--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	409548	PCA2U4	--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	409550	PCA 6U3	--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	409556	PCA4L3	--X(B)	---	--X(B)	---	---	---	1(B)	---
	03L	409557	PCA1L3	--X(A)	---	--X(A)	---	---	---	1(A)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
	03L	409597	BS118L3	---	---	---	---	---	---	---	---
	03M	03M843		---	---	---	---	---	---	---	---
	03U	03U803		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03U	03U805		--X(A)	---	--X(A)	---	---	---	1(A)	---
	03U	03U806		---	---	---	---	---	---	---	---
	03U	03U811		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03U	03U815		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03U	03U821		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03U	03U822		---	---	---	---	---	---	---	---
	03U	03U824		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03U	03U831		--X(B)	---	--X(B)	---	---	---	1(B)	---
	03U	234352	1206 12th Av. NW	--X(B)	---	--X(B)	---	---	---	1(B)	---
	03U	409596	BS118U3	---	---	---	---	---	---	---	---
	J	04J834		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
	J	04J835		---	---	---	---	---	---	---	---
	J	04J882		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
	J	200076	Old Dutch	---	---	---	---	---	---	---	---
	J	200524	St. Anthony #5	--X(B)	---	--X(B)	---	---	---	1(B)	---
	J	200803	St. Anthony #4	--X(B)	---	--X(B)	---	---	---	1(B)	---
	J	201082	NW Hospital	---	---	---	---	---	---	---	---
	J	206791	New Brighton #7	--X(B)	---	--X(B)	---	---	---	1(B)	---
	J	206797	New Brighton #6	--X(B)	---	--X(B)	---	---	---	1(B)	---
	J	231845	MNDOT	---	---	---	---	---	---	---	---
	J		MW-2	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	J		MW-4	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	J		MW-6	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	J		MW-8	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	J	206792	New Brighton #4	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	LH/PC	206787	MV High School	---	---	---	---	---	---	---	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
	MS/H	161432	New Brighton #10	---	---	--X(B)	---	---	---	1(B)	---
	MS/H	206794	New Brighton #9	---	---	--X(B)	---	---	---	1(B)	---
	MS/H	206795	New Brighton #8	---	---	--X(B)	---	---	---	1(B)	---
	MS/H	509083	New Brighton #11	---	---	--X(B)	---	---	---	1(B)	---
	PC	04U821		---	---	---	---	---	---	---	---
	PC	04U834		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
	PC	04U841		--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	04U843		--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	04U844		--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	04U846		--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	04U847		---	---	---	---	---	---	---	---
	PC	04U849		---	---	---	---	---	---	---	---
	PC	04U850		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
	PC	04U852		--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	04U855		--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	04U871		--X(B)	--X(B)	--X(B)	--X(B)	1(B)	---	1(B)	---
	PC	04U872		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
	PC	04U875		--X(B)	--X(B)	--X(B)	--X(B)	1(B)	---	1(B)	---
	PC	04U879		--X(B)	--X(B)	--X(B)	--X(B)	---	---	1(B)	---
	PC	04U880		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
	PC	04U881		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
	PC	04U882		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
	PC	04U883		---	---	---	---	---	---	---	---
	PC	200148	Paper Calmenson	---	---	---	---	---	---	---	---
	PC	200154	UM Golf Course	--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	206688	Cloverpond	--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	233221	Reuben Meats	---	---	---	---	---	---	---	---
	PC	233533	Roselawn Cem.	---	---	---	---	---	---	---	---
	PC	234319	Hide & Tallow #1	---	---	---	---	---	---	---	---
	PC	234547	Hnywell Ridgway	--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC	409549	PCA3U4	--X(B)	--X(B)	--X(B)	--X(B)	---	---	1(B)	---
	PC	409555	PCA5U4	--X(B)	--X(B)	--X(B)	--X(B)	---	---	1(B)	---
	PC	512761	Gross Golf Course #2	--X(B)	---	--X(B)	---	---	---	1(B)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
	PC		MW-1	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	PC		MW-3	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	PC		MW-5	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	PC		MW-7	--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1(B)	1(B)
	PC		New Brighton #14	---	---	---	---	1(B)	1(B)	1(B)	1(B)
	PC		New Brighton #15	---	---	---	---	1(B)	1(B)	1(B)	1(B)
	PC/J	200804	St. Anthony #3	--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC/J	200812	Gross Golf	--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC/J	206793	New Brighton #3	---	---	---	---	1(B)	1(B)	1(B)	1(B)
	PC/J	234549		--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC/J	235539	Old Hotel	--X(B)	---	--X(B)	---	---	---	1(B)	---
	PC/J	PJ#318		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
	SP	200814	Amer. Linen	---	---	---	---	---	---	---	---
	UNK	110485	New Brighton #12	--X(B)	---	--X(B)	---	---	---	1(B)	---
	UNK	134318	Seutter	---	---	---	---	---	---	---	---
	UNK	191942	Model Stone	---	---	---	---	---	---	---	---
	UNK	200264		---	---	---	---	---	---	---	---
	UNK	206796	New Brighton #5	--X(B)	---	--X(B)	---	---	---	1(B)	---
	UNK	234335	Mengelkoch #1	---	---	---	---	---	---	---	---
	UNK	234337	Mengelkoch #3	---	---	---	---	---	---	---	---
	UNK	234353	Lentsch Ice	---	---	---	---	---	---	---	---
	UNK	234357	Phillips Pet.	---	---	---	---	---	---	---	---
	UNK	234430	Cmiel	---	---	---	---	---	---	---	---
	UNK	234463	Solie	---	---	---	---	---	---	---	---
	UNK	234546	Hnywell Ridgway	--X(B)	---	--X(B)	---	---	---	1(B)	---
	UNK	405651	Metal-Matic	Not Accessible				---	---	---	---
	UNK	BOYLE		---	---	---	---	---	---	---	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
				Q53	Q54	Q55	Q56	Q53	Q54	Q55	Q56
Site	Unit	Well I.D.	Common Name	OND 96	JFM 97	AMJ 97	JAS 97	Dec 96	Mar 97	Jun 97	Sep 97
Operable Unit 2											
A	01U	01U038		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U039		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U040		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U041		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U063		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U067		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U102		--X(B)	--X(B)	--X(B)	--X(B)	1(B)	---	1,7(B)	---
A	01U	01U103		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U104		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U105		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U106		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U107		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U108		--X(B)	---	--X(B)	---	1(B)	---	1(B)	---
A	01U	01U109		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U110		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U115		X -X (B)	-X(B)-	X-X (B)	-X(B)-	1(B)	---	1,7(B)	---
A	01U	01U116		X -X (B)	-X(B)-	X-X (B)	-X(B)-	1(B)	---	1(B)	---
A	01U	01U117		--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1,7(B)	---
A	01U	01U118		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U119		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U120		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U125		X -X (B)	-X(B)-	X-X (B)	-X(B)-	1(B)	---	1(B)	---
A	01U	01U126		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U127		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U133		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U135		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U136		--X(B)	---	--X(B)	---	---	---	---	---
A	01U	01U137		--X(B)	---	--X(B)	---	---	---	1(B)	---
A	01U	01U138		X -X (B)	-X(B)-	X-X (B)	-X(B)-	1(B)	---	1(B)	---
A	01U	01U139		X -X (B)	-X(B)-	X-X (B)	-X(B)-	1(B)	1(B)	1(B)	---
A	01U	01U140		X -X (B)	-X(B)-	X-X (B)	-X(B)-	1(B)	---	1(B)	---
A	01U	01U141		--X(B)	---	--X(B)	---	---	---	1(B)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
A	01U	01U142		---	---	---	---	---	---	---	---
A	01U	01U143		---	---	---	---	---	---	---	---
A	01U	01U144		---	---	---	---	---	---	---	---
A	01U	01U145		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U146		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U147		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U148		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U149		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U150		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U151		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U152		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U153		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U154		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U155		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U156		--X(B)	--X(B)	--X(B)	--X(B)	---	---	---	---
A	01U	01U157		--X(B)	--X(B)	--X(B)	--X(B)	1(B)	---	1(B)	---
A	01U	01U158		--X(B)	--X(B)	--X(B)	--X(B)	1(B)	---	1(B)	---
A	01U	01U350		---	---	---	---	---	---	---	---
A	01U	01U351		X X X (B)	X X X (B)	X X X (B)	X X X (B)	1,2,3,9(B)	1(B)	1,2,3,7,9(B)	1(B)
A	01U	01U352		X X X (B)	X X X (B)	X X X (B)	X X X (B)	1,2,3,9(B)	1(B)	1,2,3,7,9(B)	1(B)
A	01U	01U353		X X X (B)	X X X (B)	X X X (B)	X X X (B)	1,2,3,9(B)	1(B)	1,2,3,7,9(B)	1(B)
A	01U	01U354		X X X (B)	X X X (B)	X X X (B)	X X X (B)	1,2,3,9(B)	1(B)	1,2,3,7,9(B)	1(B)
A	01U	01U355		X X X (B)	X X X (B)	X X X (B)	X X X (B)	1,2,3,9(B)	1(B)	1,2,3,7,9(B)	1(B)
A	01U	01U356		X X X (B)	X X X (B)	X X X (B)	X X X (B)	1,2,3,9(B)	1(B)	1,2,3,7,9(B)	1(B)
A	01U	01U357		X X X (B)	X X X (B)	X X X (B)	X X X (B)	1,2,3,9(B)	1(B)	1,2,3,7,9(B)	1(B)
A	01U	01U358		X X X (B)	X X X (B)	X X X (B)	X X X (B)	1,2,3,9(B)	1(B)	1,2,3,7,9(B)	1(B)
A	01U	01U901		--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1,7(B)	1(B)
A	01U	01U902		--X(B)	--X(B)	--X(B)	--X(B)	1(B)	1(B)	1,7(B)	1(B)
A	01U	01U903		--X(B)	--X(B)	--X(B)	--X(B)	1,7(B)	1(B)	1,7(B)	1(B)
A	01U	01U904		--X(B)	--X(B)	--X(B)	--X(B)	1,7(B)	1(B)	1,7(B)	1(B)
A	03U	03U023		---X(A)	---	--X(A)	---	---	---	---	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
B	01U	01U011		---	---	--X(B)	---	---	---	---	---
B	01U	01U022		---	---	--X(B)	---	---	---	---	---
B	01U	01U033		---	---	--X(B)	---	---	---	---	---
B	01U	01U034		---	---	--X(B)	---	---	---	---	---
B	01U	01U035		---	---	--X(B)	---	---	---	---	---
B	01U	01U036		---	---	--X(B)	---	---	---	1(B)	---
B	01U	01U037		---	---	--X(B)	---	---	---	---	---
B	01U	01U100		---	---	--X(B)	---	---	---	---	---
B	01U	01U101		---	---	--X(B)	---	---	---	---	---
B	01U	01U122		---	---	--X(B)	---	---	---	---	---
B	03U	03U011		--X(A)	---	--X(A)	---	---	---	---	---
B	03U	03U022		--X(A)	---	--X(A)	---	---	---	---	---
B	03U	03U082		--X(A)	---	--X(A)	---	---	---	1(B)	---
C	01U	01U043		---	---	--X(B)	---	---	---	---	---
C	01U	01U045		---	---	--X(B)	---	---	---	---	---
C	01U	01U046		---	---	--X(B)	---	---	---	---	---
C	01U	01U085		---	---	--X(B)	---	---	---	1(B)	---
C	03U	03U024		--X(A)	---	--X(A)	---	---	---	---	---
C	03U	03U025		--X(A)	---	--X(A)	---	---	---	---	---
C	03U	03U083		--X(A)	---	--X(A)	---	---	---	1,7(B)	---
D	03L	03L017		--X(A)	---	--X(A)	---	---	---	1(A)	---
D	03L	03L018		--X(A)	---	--X(A)	---	---	---	1(A)	---
D	03M	03M017		--X(A)	---	--X(A)	---	---	---	---	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
D	03U	03U017		--X(A)	---	--X(A)	---	---	---	1(A)	---
D	03U	03U018		--X(A)	---	--X(A)	---	---	---	1(A)	---
D	03U	03U093		--X(A)	---	--X(A)	---	1(A)	---	---	---
D	03U	03U096		--X(A)	---	--X(A)	---	---	---	1(A)	---
D	03U	03U316		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
D	03U	03U317		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
D	03U	03U716		--X(A)	---	--X(A)	---	---	---	---	---
E	03U	03U015		--X(A)	---	--X(A)	---	---	---	1(B)	---
E	03U	03U088		--X(A)	---	--X(A)	---	---	---	---	---
E	03U	03U089		--X(A)	---	--X(A)	---	---	---	---	---
E	03U	519288	E101-MW	--X(B)	---	--X(B)	---	---	---	1(B)	---
E	03U	519289	E102-MW	--X(B)	---	--X(B)	---	---	---	---	---
E	03U	519290	E103-MW	--X(B)	---	--X(B)	---	---	---	1(B)	---
G	03L	03L014		--X(A)	---	--X(A)	---	---	---	---	---
G	03L	03L020		--X(A)	---	--X(A)	---	---	---	1(A)	---
G	03L	03L113		--X(A)	---	--X(A)	---	---	---	---	---
G	03M	03M020		--X(A)	---	--X(A)	---	---	---	---	---
G	03U	03U014		--X(A)	---	--X(A)	---	---	---	1(A)	---
G	03U	03U019		--X(A)	---	--X(A)	---	---	---	---	---
G	03U	03U020		--X(A)	---	--X(A)	---	---	---	1(A)	---
G	03U	03U026		---	---	---	---	---	---	---	---
G	03U	03U090		--X(A)	---	--X(A)	---	---	---	---	---
G	03U	03U092		--X(A)	---	--X(A)	---	---	---	1(A)	---
G	03U	03U094		--X(A)	---	--X(A)	---	---	---	1(A)	---
G	03U	03U112		--X(A)	---	--X(A)	---	---	---	---	---
G	03U	03U113		--X(A)	---	--X(A)	---	---	---	---	---
G	03U	03U114		---	---	---	---	---	---	1(A)	---
G	03U	03U121		---	---	---	---	---	---	---	---
G	03U	03U314		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
G	03U	03U315		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
G	03U	03U715		--X(A)	---	--X(A)	---	---	---	---	---
G	04U	04U020		--X(A)	---	--X(A)	---	---	---	1(A)	---
G	04U	PJ#074		---	---	---	---	---	---	---	---
H	01U	01U060		---	---	---	---	---	---	---	---
H	01U	01U098		---	---	---	---	---	---	1(B)	---
H	03U	03U099		---	---	---	---	---	---	1(B)	---
I	01U	01U004		--X(B)	---	--X(B)	---	---	---	---	---
I	01U	01U054		---	---	---	---	---	---	---	---
I	01U	01U064		--X(A)	---	--X(A)	---	---	---	1(A)	---
I	01U	01U132		---	---	---	---	---	---	---	---
I	01U	01U631		---	---	---	---	---	---	---	---
I	01U	01U632		---	---	---	---	---	---	---	---
I	01U	01U634		---	---	---	---	---	---	---	---
I	01U	01U635		---	---	---	---	---	---	---	---
I	01U	01U636		--X(A)	---	--X(A)	---	---	---	1,5(A)	---
I	01U	01U638		---	---	---	---	---	---	---	---
I	01U	01U639		--X(A)	---	--X(A)	---	---	---	1(A)	---
I	01U	01U640		--X(A)	---	--X(A)	---	---	---	1,5(A)	---
I	01U	01U642		---	---	---	---	---	---	---	---
I	01U	01U652		---	---	---	---	---	---	---	---
I	01U	01U666		---	---	---	---	---	---	---	---
I	01U	01U667		---	---	---	---	---	---	---	---
I	01U	01U668		---	---	---	---	---	---	---	---
I	01U	01U675		---	---	---	---	---	---	---	---
I	01U	482086	I01MW	--X(A)	---	--X(A)	---	---	---	1(A)	---
I	01U	482087	I05MW	--X(A)	---	--X(A)	---	---	---	1(A)	---
I	01U	482088	I02MW	--X(A)	---	--X(A)	---	---	---	1(A)	---
I	01U	482089	I04MW	--X(A)	---	--X(A)	---	---	---	---	---
I	01U	482090	I03MW	--X(A)	---	--X(A)	---	---	---	---	---
I	03F	03F312		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---

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FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
I	03L	03L004		--X(A)	---	--X(A)	---	---	---	---	---
I	03L	03L027		--X(A)	---	--X(A)	---	---	---	---	---
I	03L	03L028		--X(A)	---	--X(A)	---	---	---	---	---
I	03L	03L029		--X(A)	---	--X(A)	---	---	---	---	---
I	03L	03L080		--X(A)	---	--X(A)	---	---	---	---	---
I	03M	03M004		--X(A)	---	--X(A)	---	---	---	---	---
I	03U	03U004		--X(A)	---	--X(A)	---	---	---	---	---
I	03U	03U027		--X(A)	---	--X(A)	---	---	---	---	---
I	03U	03U028		--X(A)	---	--X(A)	---	---	---	1(A)	---
I	03U	03U029		--X(A)	---	--X(A)	---	---	---	---	---
I	03U	03U030		--X(A)	---	--X(A)	---	---	---	1(A)	---
I	03U	03U301		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
I	03U	03U647		--X(A)	---	--X(A)	---	---	---	---	---
I	03U	03U648		--X(A)	---	--X(A)	---	---	---	---	---
I	03U	03U658		--X(A)	---	--X(A)	---	---	---	1(A)	---
I	03U	03U659		--X(A)	---	--X(A)	---	---	---	1(A)	---
I	03U	03U674		--X(A)	---	--X(A)	---	---	---	---	---
I	03U	03U675		---	---	---	---	---	---	---	---
I	03U	03U676		---	---	---	---	---	---	---	---
I	03U	OW543U3		--X(A)	---	--X(A)	---	---	---	---	---
I	04U	04U027		--X(A)	---	--X(A)	---	---	---	1(A)	---
I	PJ#	PJ#027		--X(A)	---	--X(A)	---	---	---	---	---

APPENDIX B.1
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Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
J	01U	01U003		---	---	---	---	---	---	---	---
J	01U	01U050		---	---	---	---	---	---	---	---
J	01U	01U051		---	---	---	---	---	---	---	---
J	01U	01U053		---	---	---	---	---	---	---	---
J	01U	01U054		---	---	---	---	---	---	---	---
J	01U	01U062		---	---	---	---	---	---	---	---
J	01U	01U524		---	---	---	---	---	---	---	---
J	01U	01U525		---	---	---	---	---	---	---	---
J	01U	01U526		---	---	---	---	---	---	---	---
J	01U	01U527		---	---	---	---	---	---	---	---
K	01U	01U047		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U048		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U052		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U065		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U128		--X(A)	---	--X(A)	---	---	---	1(A)	---
K	01U	01U601		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U602		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U603		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U604		--X(A)	---	--X(A)	---	---	---	1(A)	---
K	01U	01U605		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U607		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U608		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U609		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U611		--X(A)	---	--X(A)	---	---	---	1(A)	---
K	01U	01U612		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U613		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U615		--X(A)	---	--X(A)	---	---	---	1(A)	---
K	01U	01U616		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U617		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
K	01U	01U618		--X(A)	---	--X(A)	---	---	---	1(A)	---
K	01U	01U619		--X(A)	---	--X(A)	---	---	---	1(A)	---
K	01U	01U620		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U621		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
K	01U	01U622		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U623		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U624		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U625		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U626		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U627		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	01U628		--X(A)	---	--X(A)	---	---	---	---	---
K	01U	482083	K04-MW	--X(A)	---	--X(A)	---	---	---	1(A)	---
K	01U	482084	K02-MW	--X(A)	---	--X(A)	---	---	---	---	---
K	01U	482085	K01-MW	--X(A)	---	--X(A)	---	---	---	---	---
K	03L	03L013		--X(A)	---	--X(A)	---	---	---	---	---
K	03M	03M013		--X(A)	---	--X(A)	---	---	---	---	---
K	03U	03U013		--X(A)	---	--X(A)	---	---	---	---	---
K	03U	03U075		--X(A)	---	--X(A)	---	---	---	1(A)	---
K	03U	03U076		--X(A)	---	--X(A)	---	---	---	---	---
129-3	03U	03U087		--X(A)	---	--X(A)	---	---	---	1,4(B)	---
129-3	03U	03U521		---	---	--X(B)	---	---	---	---	---
129-5	01U	01U072		---	---	---	---	---	---	---	---
129-5	03U	03U097		---	---	---	---	---	---	1(B)	---
129-5	03U	03U111		--X(A)	---	--X(A)	---	---	---	---	---
129-5	03U	03U129		---	---	---	---	---	---	---	---
129-15	03L	03L091		---	---	--X(B)	---	---	---	1(B)	---
129-15	03U	03U016		--X(A)	---	--X(A)	---	---	---	---	---
129-15	03U	03U032		--X(A)	---	--X(A)	---	---	---	1(B)	---
129-15	03U	03U124		---	---	---	---	---	---	---	---
129-15	03U	519291	1291501-MW	--X(B)	---	--X(B)	---	---	---	---	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
BRV	03L	03L137		---	---	---	---	---	---	---	---
BRV	03L	03L138		---	---	---	---	---	---	---	---
GP	03U	03U704		--X(A)	---	--X(A)	---	---	---	---	---
GP	03U	03U705		--X(A)	---	--X(A)	---	---	---	1(A)	---
GP	03U	03U706		--X(A)	---	--X(A)	---	---	---	1(A)	---
GP	03U	03U707		--X(A)	---	--X(A)	---	---	---	---	---
GP	SG	Staff Gauge 1		--X(A)	---	--X(A)	---	---	---	---	---
GP	SG	Staff Gauge 2		--X(A)	---	--X(A)	---	---	---	---	---
GP	SG	Staff Gauge 3		--X(A)	---	--X(A)	---	---	---	---	---
MISC	01U	01U012		---	---	---	---	---	---	---	---
MISC	01U	01U044		---	---	---	---	---	---	---	---
MISC	01U	01U130		---	---	---	---	---	---	---	---
MISC	01U	01U131		---	---	---	---	---	---	---	---
TGRS	03F	03F302		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03F	03F303		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03F	03F304		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03F	03F305		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03F	03F306		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03F	03F307		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03F	03F308		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03F	03F312		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03L	03L001		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03L	03L002		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03L	03L003		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03L	03L005		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03L	03L010		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03L	03L012		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03L	03L021		--X(A)	---	--X(A)	---	---	---	1(A)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
TGRS	03L	03L077		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03L	03L078		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03L	03L079		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03L	03L081		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03L	03L084		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03L	03L086		---	---	---	---	---	---	---	---
TGRS	03L	03L802		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03L	03L809		---	---	--X(A)	---	---	---	1(B)	---
TGRS	03L	03L833		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03M	03M001		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03M	03M002		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03M	03M003		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03M	03M005		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03M	03M007		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03M	03M010		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03M	03M012		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03M	03M713		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03M	03M802		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03M	03M806		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U001		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03U	03U002		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03U	03U003		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03U	03U005		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03U	03U006		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03U	03U008		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03U	03U010		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03U	03U012		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03U	03U021		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U031		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	03U	03U077		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U078		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U079		--X(A)	---	--X(A)	---	---	---	1(A)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
TGRS	03U	03U084		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U671		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U672		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03U	03U701		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U702		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U703		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U708		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U709		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U710		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U711		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	03U	03U801		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	03U	03U804		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04J	04J077		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04J	04J702		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04J	04J708		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04J	04J713		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04J	04J714		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U001		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U002		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U003		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	04U	04U012		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	04U	04U077		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U510		--X(A)	---	--X(A)	---	---	---	1(B)	---
TGRS	04U	04U701		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U702		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U708		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U709		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U711		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	04U	04U713		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U714		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	04U	04U802		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	04U	04U806		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
TGRS	04U	04U833		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	PJ#	PJ#003		--X(A)	---	--X(A)	---	---	---	1(A)	---
TGRS	PJ#	PJ#309		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	PJ#	PJ#310		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	PJ#	PJ#311		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	PJ#	PJ#313		--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
TGRS	PJ#	PJ#501		---	---	---	---	---	---	---	---
TGRS	PJ#	PJ#502		---	---	---	---	---	---	---	---
TGRS	PJ#	PJ#503		---	---	---	---	---	---	---	---
TGRS	PJ#	PJ#802		--X(A)	---	--X(A)	---	---	---	---	---
TGRS	PJ#	PJ#806		--X(A)	---	--X(A)	---	---	---	1(A)	---
UP	03L	03L007		--X(A)	---	--X(A)	---	---	---	1(B)	---
UP	03U	03U007		--X(A)	---	--X(A)	---	---	---	1(B)	---
UP	03U	03U009		--X(A)	---	--X(A)	---	---	---	1(B)	---
UP	04U	04U007		--X(A)	---	--X(A)	---	---	---	1(B)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
Operable Unit 3											
	03L	03L673		--X(A)	---	--X(A)	---	---	---	1(A)	---
	03L	03L848		--X(A)	---	--X(A)	---	---	---	1(A)	---
	03L	03L854		--X(A)	---	--X(A)	---	---	---	1(B)	---
	03L	03L859		--X(A)	---	--X(A)	---	---	---	1(A)	---
	03L	03L861		--X(A)	---	--X(A)	---	---	---	1(A)	---
	03L	MW15H	MW15H	--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
	03M	03M848		--X(A)	---	--X(A)	---	---	---	1(B)	---
	03U	03U673		--X(A)	---	--X(A)	---	---	---	1(A)	---
	03U	03U832		--X(A)	---	--X(A)	---	---	---	1(B)	---
	04U	04U673		--X(A)	---	--X(A)	---	---	---	1(A)	---
	J	04J864	324 J	--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
	J	04J866	326 J	--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
	PC	04U832		--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	04U845		--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	04U848		--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	04U851		--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	04U854		--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	04U859		--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	04U860		--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	04U861		--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	04U863	323U4	--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
	PC	04U864	324U4	--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
	PC	04U865	325U4	--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
	PC	04U866	326U4	--X(A)	---	--X(A)	---	1(A)	---	1(A)	---
	PC	04U877		--X(A)	---	--X(A)	---	---	---	1(B)	---
	PC	409547	PCA1U4	--X(A)	---	--X(A)	---	---	---	1(A)	---
	PC	500691	414U4	---	---	--X(A)	--X(A)	1(A)	---	1(A)	---

APPENDIX B.1
FY 97 Groundwater Monitoring Plan

Well Information				Groundwater Level Monitoring Plan (1)				Groundwater Quality Monitoring Plan (2)			
Site	Unit	Well I.D.	Common Name	Q53 OND 96	Q54 JFM 97	Q55 AMJ 97	Q56 JAS 97	Q53 Dec 96	Q54 Mar 97	Q55 Jun 97	Q56 Sep 97
	PC/J	520931	NBM #13	---	---	--X(A)	--X(A)	1(A)	1(A)	1(A)	1(A)

B.2 Explanations for Missed Monitoring

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 Old Highway 8, Suite 114
St. Paul, Minnesota 55112
(612) 639-0913 Fax:(612) 639-0923

February 11, 1998

Reference No. 9146-30

James Persoon, Ph.D.
ALLIANT TECHSYSTEMS, INC.
4700 Highway 10, Suite F
Arden Hills, Minnesota 55112-3928

Dear Dr. Persoon:

Re: Deviations from Site A, ISS Groundwater, and
Surface Water Monitoring Programs - Fiscal Year 1997

Water quality sampling, water level measurement, and documentation for the Site A, ISS groundwater, and surface water for Fiscal Year 1997 (FY97) were performed in accordance with the approved 1997 Annual Monitoring Plan and the "Installation Restoration Program" Quality Assurance Project Plan for the Remedial Investigation/Feasibility Study at the Twin Cities Army Ammunition Plant", USATHAMA, June 1988.

All required water quality samples were collected and water level measurements were recorded as listed in the FY 1997 Annual Monitoring Plan with the following comments and exceptions:

ISS Wells

October 1996

- Groundwater level measurements for Wells 01U115, 01U116, 01U125, 01U138, 01U139, and 01U140 were inadvertently omitted. Water levels for the above wells were collected during November 1996.

November 1996

- No deviations from the Monitoring Plan occurred during November 1996.

December 1996

- Because of residential building construction, groundwater level measurements could not be taken at wells 234356, 234352, and 234549.

- Well 206791 (New Brighton #7) is in the process of being abandoned; therefore, no groundwater level measurement was taken.

- Wells MW1 through MW8 are not installed; therefore, no groundwater level measurements or groundwater quality sampling was conducted.

- New Brighton #15 is not installed; therefore, no groundwater quality sampling was conducted.

- There is only seasonal access to well 200154 (U of M Golf Course); therefore, no groundwater level measurement was taken.

- A water level tape is stuck in Well 206688 (Cloverpond) preventing access for groundwater level measurements.

- There is no access port for groundwater level measurements at wells 234547 and 234546 (Honeywell Ridgeway).

- There is only seasonal access to Well 512761 (Gross Golf Course #2); therefore, no groundwater level measurement was taken.

- There is no access port for groundwater level measurements at well 200812 (Gross Golf Course).

- Owner could not be reached to gain access to the Well 235539 (Old Hotel) for groundwater level measurements.

January 1997
- No deviations from the Monitoring Plan occurred during January 1997.

February 1997
- No deviations from the Monitoring Plan occurred during February 1997.

March 1997
- Wells MW1 through MW8 are not installed; therefore, no groundwater level measurements or groundwater quality sampling was conducted.

- New Brighton #15 is not installed; therefore, no groundwater quality sampling was conducted.

April 1997
- No deviations from the Monitoring Plan occurred during April 1997.

May 1997
- No deviations from the Monitoring Plan occurred during May 1997.

June 1997

- Because of residential building construction, groundwater level measurements could not be taken at wells 234356, 234352, and 234549.
- Well 200803 (St. Anthony #4) was not running during the sampling event; therefore, no groundwater quality sample was collected.
- Well 206791 (New Brighton #7) was in the process of being abandoned; therefore, no groundwater level measurement or groundwater quality sampling was conducted.
- Wells MW1 through MW8 are not installed; therefore, no groundwater level measurements or groundwater quality sampling was conducted.
- Well 206794 (New Brighton #9) was not tied into the forcemain; therefore, no groundwater quality sample could be collected.
- Well 206795 (New Brighton #8) was under maintenance during the sampling event; therefore, no groundwater quality sample could be collected.
- Excessive oil was found in Well 200154 (U of M Golf Course); therefore, no groundwater level measurement was taken.
- Access to Well 206688 (Cloverpond) was denied; therefore, no groundwater level measurements or groundwater quality sampling was conducted.
- There is no access port for groundwater level measurements at wells 234547 and 234546 (Honeywell Ridgeway).
- New Brighton #15 is not installed; therefore, no groundwater quality sampling was conducted.
- There is no access port for groundwater level measurements at Well 200812 (Gross Golf Course).
- Owner could not be reached to gain access to the Well 235539 (Old Hotel) for groundwater level measurements and groundwater quality sampling.

July 1997

- No deviations from the Monitoring Plan occurred during July 1997.

August 1997

- No deviations from the Monitoring Plan occurred during August 1997.

September 1997

- Wells MW1 through MW8 are not installed; therefore, no groundwater level measurements or groundwater quality sampling was conducted.

- New Brighton #15 is not installed; therefore, no groundwater quality sampling was conducted.

Site A Treatment System

Deviations from the Monitoring Plan only occurred in the following months:

February 1997

- The laboratory erroneously spiked the Site A effluent sample. The mistake was detected after the holding time on the samples had elapsed so reanalysis was not possible.

August 1997

- Monthly samples were collected and sent to the laboratory via overnight courier. Due to the UPS strike, the samples arrived at the laboratory late and cooler temperature was above acceptable levels. There was no resampling.

Surface Water

October 1996

- Location 20500 was dry; therefore, no sample was collected.

November 1996

- No deviations from the Monitoring Plan occurred during November 1996.

December 1996

- The gate at Location 20500 was frozen shut; therefore, no sample was collected.

- The duplicate and field blank lead analyses were not performed, given the analyses were not required for the base sample.

January 1997

- Location 20500 was frozen; therefore; no sample was collected.

February 1997
- Locations 20300 and 20500 were frozen; therefore, no sample was collected.

March 1997
- Locations 20300, 20500, and 21100 were frozen; therefore, no sample was collected.

- The field blank lead and mercury analyses were not performed, given the analyses were not required for the base sample.

April 1997
- No deviations from the Monitoring Plan occurred during April 1997.

May 1997
- No deviations from the Monitoring Plan occurred during May 1997.

June 1997
- The 24-hour pH monitor and data logger were vandalized at surface water location 21000. No attempt was made to obtain additional pH data at this location for fear of additional vandalism.

July 1997
- No deviations from the Monitoring Plan occurred during July 1997.

August 1997
- Oil and grease sample bottle for Location 20400 was broken during shipment and, therefore, was not analyzed. There was no resampling because of the UPS strike.

September 1997
- No deviations from the Monitoring Plan occurred during September 1997.

Please call if you have any questions.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Jason Twaddle, P.E.

JT/kjs
c.c.: Keith Benker; Wenck

CRA

CONESTOGA-ROVERS & ASSOCIATES
1801 Old Highway 8, Suite 114
St. Paul, Minnesota 55112
(612) 639-0913 Fax:(612) 639-0923

February 12, 1998

Reference No. 1496/3877/4304/
9349-30

Mr. Martin McCleery
TWIN CITIES ARMY AMMUNITION PLANT
SIOTC-EV
4700 Highway 10, Suite A
Arden Hills, Minnesota 55112-3928

Mr. David Gosen
ALLIANT TECHSYSTEMS, INC.
MN11-2115
600 Second Street Northeast
Hopkins, Minnesota 55343

Dear Mr. McCleery and Mr. Gosen:

Re: Deviations from TGRS, Site I, Site K, and PGRS Sampling Programs - 1997 Fiscal Year

Water quality sampling, water level measurement and documentation for the TGRS, Site I, Site K, and PGRS Fiscal Year 1997 (FY97) were performed in accordance with the approved 1997 Annual Monitoring Plan and the "Installation Restoration Program" Quality Assurance Project Plan for the Remedial Investigation/Feasibility Study at the Twin Cities Army Ammunition Plant", USATHAMA, June 1988.

All required water quality samples were collected and water level measurements were recorded as listed in the FY 1997 Annual Monitoring Plan with the following comments and exceptions:

TGRS (Operable Unit 2 Deep Groundwater)

October 1996

- No deviations from the Monitoring Plan occurred in October 1996.

November 1996

- Treatment System: Sampling of the treatment system was performed on November 5, 1996, however, due to shipping errors, the samples were determined to be invalid. Federal Express did not deliver the samples within the time allotted. The samples were above QA/QC maximum allowable temperatures upon arrival to the laboratory. Therefore, the treatment system was resampled on November 11, 1996.

December 1996

- Staff Gauge No. 3C: A December water level was not measured due to a missing Philadelphia rod. A rod has since been installed. Other staff gauges were used to measure the surface water level.

- Monitoring Well 03U801: A December water level was not measured due to mechanical problems with the well. The outer cap and lock were missing. The inner casing was filled with debris.

- Monitoring Well 04U802: A water level was not measured. The well is obstructed at 6.5 feet below the top of casing.

- Monitoring Well PJ#802: A water level was not measured. The well is obstructed at 12 feet below the top of casing.

January and February 1997

- No deviations from the Monitoring Plan occurred in January and February 1997.

March 1997

- The March 3, 1997, pH field measurement was invalid due to equipment failure. The measurement was performed again on March 5, 1997 using other equipment.

April and May 1997

- No deviations from the Monitoring Plan occurred in April and May 1997.

June 1997

- Water levels at monitoring wells 03U801, 04U802 and PJ#802 were collected on July 7, 1997, upon completion of the well rehabilitation. These wells were rehabilitated in June 1997 because they had been previously obstructed with debris from vandals. Water levels at all other monitoring wells were measured on May 28 and 29, 1997, prior to the June 1997 annual sampling event.

- TCLTFE was not analyzed for from the June treatment system effluent sample due to an omission by laboratory.

July 1997

- No deviations from the Monitoring Plan occurred in July 1997.

August 1997

- The August samples arrived at the laboratory late due to the UPS strike and the cooler temperature was above the acceptable level. No additional samples were collected for August because overnight delivery could not be guaranteed.

September 1997
- No deviations from the Monitoring Plan occurred in September 1997.

Site I (Building 502)

October and November 1996
- No deviations from the Monitoring Plan occurred in October and November 1996.

December 1996
- Water level measurement was not possible at well I02MW as the well was dry.

January through May 1997
- No deviations from the Monitoring Plan occurred in January through May 1997.

June 1997
- Water level measurements were not possible at 01U639, I01MW, I02MW, I03MW and I04MW because these wells were dry.

- Groundwater samples were not collected at monitoring wells 01U636, 01U639, I01, I02, and I05 because these wells were dry.

- Due to laboratory omission the groundwater sample from monitoring well 01U640 was not analyzed for the compound dibutylchlorenadate.

- Semi-annual 1,2-dichloroethylene analysis was replaced by separate cis 1,2-dichloroethylene and trans 1,2-dichloroethylene analyses.

July through September 1997
- No deviations from the Monitoring Plan occurred in July through September 1997.

Site K (Building 103)

October 1996
- No deviations from the Monitoring Plan occurred in October 1996.

November 1996

- Beginning in November, additional treatment system sampling and analysis were performed throughout the fiscal year, at Alliant's request.

- Treatment System: Sampling of the treatment system was performed on November 5, 1996. However, due to shipping errors, the samples were determined to be invalid. Federal Express did not deliver the samples within the allotted time. The samples were above QA/QC maximum allowable temperature upon arrival to the laboratory. Therefore, the treatment system was resampled on November 12, 1996.

- Treatment System: In November it was not possible to measure the system discharge flow rate by the bucket test method. Access for the bucket requires removal of a manhole grate and the grate was frozen in place.

December 1996

- Semi-annual 1,2-dichloroethylene analysis was replaced by separate cis 1,2-dichloroethylene and trans 1,2-dichloroethylene analyses.

- Treatment System: In December it was not possible to measure the system discharge flow rate by the bucket test method. Access for the bucket requires removal of a manhole grate and the grate was frozen in place.

- Water level measurements were not recorded at 01U622 and 01U623, as well access is obstructed.

January through March 1997

- The Storm Sewer Manhole (20201) lid was frozen, so January, February and March discharge flow rates were not obtained.

April 1997

- Treatment System: On April 9, 1997, it was not possible to measure the system discharge flow rate by the bucket test method. Access for the bucket requires removal of a manhole grate and the grate was frozen in place. On April 16, 1997 the systems instantaneous flow rate was not measured because the flow meter did not function.

May 1997

- Sampling was originally scheduled for May 6, 1997. However, the treatment system was down for maintenance. Sampling was rescheduled and conducted on May 8, 1997.

June 1997

- Monitoring well 01U611 was not monitored for the full set of field parameters which included the second and third readings for pH, conductivity and temperature. There was an insufficient volume of groundwater to analyze.

- Monitoring wells K04MW, 01U604 and 01U617 were bailed dry prior to the removal of the required well volumes. Sufficient time was allowed for groundwater to recharge between bailing times. The field readings of pH, conductivity and temperature were recorded after each well bailed dry. Upon the collection of the third field measurement, the water level was allowed time to recover before sampling.

- Water level measurements were not recorded at 01U622 and 01U623, as well access is obstructed.

July 1997

- No deviations from the Monitoring Plan occurred in July 1997.

August 1997

- The August samples arrived late at the laboratory due to the USP strike and the cooler temperature was above the acceptable level. No additional samples were collected for August because overnight delivery could not be guaranteed.

September 1997

- An effluent duplicate sample was not collected during the September sampling due to human error.

PGRS (Operable Unit 3 Deep Groundwater)

October 1996

- No deviations from the Monitoring Plan occurred in October 1996.

November 1996

- The influent/effluent was originally sampled on November 5, 1996, as scheduled. However, the samples were held by the courier service an extra day and samples consequently arrived to the laboratory warm. As a result, the influent/effluent samples were recollected on November 11, 1996.

February 12, 1998

Reference No. 1496/3877/4304/
9349-30

December 1996

- Groundwater level measurements were not measured from well 04U852 or 03L848. Well 04U852 was obstructed, and the lock on well 03L848 was frozen.

January through May 1997

- No deviations from the Monitoring Plan occurred in January through May 1997.

June 1997

- A water level was not measured at well 04U852. Well 04U852 had been vandalized and was in the process of being repaired.

July 1997

- No deviations from the Monitoring Plan occurred in July 1997.

August 1997

- The August samples arrived late at the laboratory due to the UPS strike and the cooler temperature was above the acceptable level. No additional samples were collected for August because overnight delivery could not be guaranteed until the UPS strike ended.

September 1997

- No deviations from the Monitoring Plan occurred in September 1997.

If you have any questions, please do not hesitate to contact us.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Charles F. Cooke

Charles F. Cooke, PE

CFC/bam
Enc.
c.c. Brian C. Boevers; CRA

B.3 Surface Water Monitoring Plan

APPENDIX B.3
FY 97 Surface Water Monitoring Plan

Analysis	Units	Sample Locations (1)																
		20100 Marsden Lk Out	20200 Bldg 103/114 Outfall	20201 (3) Bldg 103 Effluent	20300 Bldg 113/115 Outfall	20400 Bldg 104/116 Outfall	20500 Round Lk Outfall	20700 Rice Crk In	20800 Rice Crk Out	20900 Rice Crk & Lex	21000 Rice Crk & Long Lk	21100 Culvert Area Runoff	21200 N Inlet Lex Runoff	21300 Mid Inlet Lex Runoff	21400 S Inlet Lex Runoff	21600 Hamline Runoff	Field Water Blank	D I. Water Blank
Volume	gal/day	M	M	C	M	M	M	M	M	Q (2)	Q (2)	Q (2)	Q (2)	Q (2)	Q (2)	Q (2)	--	--
pH		M	M	M	M	M	M	M	M	Q	Q	Q	Y	Y	Y	Y	M	M
Suspended Solids	mg/l	M	M		M	M	M	M	M	Q	Q	Q	Y	Y	Y	Y	M	M
Chemical Oxygen Demand	mg/l	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Total Organic Carbon	mg/l	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Biological Oxygen Demand	mg/l	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Dissolved Oxygen	mg/l	M	M		M	M	M	M	M	Q	Q	Q	Y	Y	Y	Y	M	M
Fecal Coliform Bacteria	#/100ml	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Oil	mg/l	M	M		M	M	M	M	M	Q	Q	Q	Y	Y	Y	Y	M	M
Ammonia	mg/l	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Cyanide	mg/l	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Cadmium	mg/l	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Chloride	mg/l	M	M		M	M	M	M	M	Q	Q	Q	Y	Y	Y	Y	M	M
Chromium (Total)	mg/l	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Q	Q	Q
Copper	mg/l	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lead	mg/l	Q	Y	Q	Y	Y	Q	Y	Y	Y	Y	Y	Q	Q	Q	Q	Q	Q
Mercury	mg/l	Y	Q		Q	Y	Q	Q	Q	Y	Y	Y	Y	Y	Y	Y	Q	Q
Nickel	mg/l	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Phosphorus (Total)	mg/l	M	M	M	M	M	M	M	M	Q	Q	Q	Y	Y	Y	Y	M	M
Phosphorus (Ortho)	mg/l	M	M	M	M	M	M	M	M	Q	Q	Q	Y	Y	Y	Y	M	M
Silver	mg/l	Y	Q		Q	Q	Y	Q	Q	Q	Q	Q	Y	Y	Y	Q	Q	Q
Zinc	mg/l	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Y	Y	Y	Q	Q	Q
Trichloroethene	ug/l	Y	Q	Q	Q	Q	Y	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
1,1,1-Trichloroethane	ug/l	Y	Q	Q	Q	Q	Y	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
Methylene Chloride	ug/l	Y	Q	Q	Q	Q	Y	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
1,1-Dichloroethene	ug/l	Y	Q		Q	Q	Y	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
1,1-Dichloroethane	ug/l	Y	Q	Q	Q	Q	Y	Q	Q	Q	Q	Q	Y	Y	Y	Y	Q	Q
trans 1,2-Dichloroethene	ug/l			Q														
Carbon Tetrachloride	ug/l			Q														
Polychlorinated Biphenyls	ug/l	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Gross Alpha	pC/l	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Gross Beta	pC/l	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Gamma Spectranalysis	pC/l	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
24-hr pH Meter/Recorder		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	--	--

APPENDIX C

Appendix C

Groundwater Databases

C.1 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 USAEC IRDMIS. All data are referenced to TOS elevations surveyed by Kemper and Associates, Inc. during July through September 1992.

(2) Qtr = Quarter. Under this heading, F = FCC and A = Alliant Techsystems Inc.

(3) SG = Staff Gauge.

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01L811	908.4	07-Mar-95	46 F	894.6
01L821	877.5	07-Mar-95	46 F	872.3
01L822	876.1	07-Mar-95	46 F	869.2
01U003	943.4	14-Mar-95	46 F	933.7
01U003	943.4	12-Sep-95	48 F	935.1
01U003	943.4	29-May-96	51 A	938.6
01U003	943.4	06-Sep-96	52 A	931.3
01U004	951.1	07-Mar-95	46 F	947.7
01U004	951.1	12-Sep-95	48 F	943.5
01U004	951.1	29-May-96	51 A	946.4
01U004	951.1	06-Sep-96	52 A	939.6
01U004	951.1	03-Dec-96	53 A	944.9
01U004	951.1	28-May-97	55 A	943.4
01U011	900.0	07-Mar-95	46 F	891.9
01U011	900.0	08-Sep-95	48 F	893.5
01U011	900.0	29-May-96	51 A	894.7
01U011	900.0	06-Sep-96	52 A	891.8
01U011	900.0	28-May-97	55 A	894.0
01U012	880.1	14-Mar-95	46 F	875.8
01U012	880.1	08-Sep-95	48 F	876.5
01U012	880.1	29-May-96	51 A	877.1
01U012	880.1	06-Sep-96	52 A	874.8
01U022	897.7	07-Mar-95	46 F	893.2
01U022	897.7	29-May-96	51 A	894.7
01U022	897.7	28-May-97	55 A	894.4
01U033	887.4	14-Mar-95	46 F	886.6
01U033	887.4	29-May-96	51 A	886.0
01U033	887.4	28-May-97	55 A	885.7
01U034	901.2	07-Mar-95	46 F	894.9
01U034	901.2	29-May-96	51 A	897.6
01U034	901.2	28-May-97	55 A	897.1
01U035	899.4	07-Mar-95	46 F	893.5
01U035	899.4	29-May-96	51 A	896.7
01U035	899.4	28-May-97	55 A	896.1
01U036	901.0	08-Mar-95	46 F	893.3
01U036	901.0	29-May-96	51 A	896.3
01U036	901.0	28-May-97	55 A	895.6
01U037	898.7	07-Mar-95	46 F	891.3
01U037	898.7	29-May-96	51 A	894.1
01U037	898.7	28-May-97	55 A	893.4
01U038	900.3	26-Jul-94	44 F	897.6
01U038	900.3	08-Sep-94	44 F	891.6
01U038	900.3	08-Mar-95	46 F	890.8
01U038	900.3	08-Sep-95	48 F	891.8
01U038	900.3	29-May-96	51 A	893.2
01U038	900.3	06-Sep-96	52 A	890.4
01U038	900.3	03-Dec-96	53 A	890.8
01U038	900.3	28-May-97	55 A	892.6
01U039	897.5	26-Jul-94	44 F	885.8
01U039	897.5	08-Sep-94	44 F	884.7
01U039	897.5	07-Mar-95	46 F	882.6
01U039	897.5	08-Sep-95	48 F	884.5
01U039	897.5	29-May-96	51 A	883.6
01U039	897.5	06-Sep-96	52 A	882.9
01U039	897.5	03-Dec-96	53 A	881.8
01U039	897.5	28-May-97	55 A	883.6
01U040	892.5	26-Jul-94	44 F	885.6
01U040	892.5	06-Sep-94	44 F	883.9
01U040	892.5	07-Mar-95	46 F	882.0
01U040	892.5	08-Sep-95	48 F	884.4
01U040	892.5	29-May-96	51 A	884.6
01U040	892.5	06-Sep-96	52 A	882.7
01U040	892.5	03-Dec-96	53 A	883.0
01U040	892.5	28-May-97	55 A	884.4
01U041	898.3	26-Jul-94	44 F	893.8
01U041	898.3	06-Sep-94	44 F	891.3
01U041	898.3	08-Mar-95	46 F	890.6
01U041	898.3	08-Sep-95	48 F	891.4
01U041	898.3	29-May-96	51 A	893.2
01U041	898.3	06-Sep-96	52 A	890.2
01U041	898.3	03-Dec-96	53 A	891.9
01U041	898.3	28-May-97	55 A	892.0
01U043	891.0	08-Mar-95	46 F	884.9
01U043	891.0	29-May-96	51 A	887.9
01U043	891.0	28-May-97	55 A	887.2
01U044	892.3	08-Mar-95	46 F	878.6
01U044	892.3	29-May-96	51 A	881.0
01U045	886.4	08-Mar-95	46 F	881.0
01U045	886.4	29-May-96	51 A	881.6
01U045	886.4	28-May-97	55 A	880.8
01U046	881.8	08-Mar-95	46 F	879.2
01U046	881.8	29-May-96	51 A	880.3
01U046	881.8	28-May-97	55 A	880.0
01U047	877.9	06-Sep-94	44 A	873.4
01U047	877.9	06-Mar-95	46 A	873.2
01U047	877.9	05-Sep-95	48 A	874.6
01U047	877.9	03-Jun-96	51 A	875.1
01U047	877.9	03-Sep-96	52 A	872.8
01U047	877.9	02-Dec-96	53 A	875.9
01U047	877.9	02-Jun-97	55 A	874.0
01U048	883.2	06-Sep-94	44 A	873.6
01U048	883.2	06-Mar-95	46 A	873.1
01U048	883.2	03-Jun-96	51 A	875.4
01U048	883.2	03-Sep-96	52 A	873.6
01U048	883.2	02-Dec-96	53 A	875.0
01U048	883.2	02-Jun-97	55 A	874.1
01U050	892.9	08-Mar-95	46 F	886.5
01U050	892.9	29-May-96	51 A	890.7
01U051	901.2	08-Mar-95	46 F	889.3
01U051	901.2	29-May-96	51 A	891.9
01U052	884.3	06-Sep-94	44 A	873.8
01U052	884.3	06-Mar-95	46 A	873.3
01U052	884.3	05-Sep-95	48 A	875.2
01U052	884.3	03-Jun-96	51 A	875.7
01U052	884.3	03-Sep-96	52 A	873.6
01U052	884.3	02-Dec-96	53 A	875.4
01U052	884.3	02-Jun-97	55 A	874.7
01U053	913.2	08-Mar-95	46 F	905.9
01U053	913.2	29-May-96	51 A	906.9
01U054	940.9	08-Mar-95	46 F	929.8
01U054	940.9	29-May-96	51 A	933.7
01U060	949.1	08-Mar-95	46 F	935.0
01U060	949.1	29-May-96	51 A	936.9
01U062	909.8	08-Mar-95	46 F	903.5
01U062	909.8	29-May-96	51 A	904.8
01U063	892.6	26-Jul-94	44 F	885.4
01U063	892.6	08-Sep-94	44 F	882.8
01U063	892.6	08-Mar-95	46 F	881.1

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U063	892.6	08-Sep-95	48 F	883.8
01U063	892.6	29-May-96	51 A	885.2
01U063	892.6	06-Sep-96	52 A	881.7
01U063	892.6	03-Dec-96	53 A	883.6
01U063	892.6	28-May-97	55 A	884.3
01U064	958.3	02-Sep-94	44 A	943.6
01U064	958.3	09-Mar-95	46 A	943.3
01U064	958.3	07-Sep-95	48 A	944.2
01U064	958.3	28-May-96	51 A	943.8
01U064	958.3	05-Sep-96	52 A	938.6
01U064	958.3	02-Dec-96	53 A	943.8
01U064	958.3	02-Jun-97	55 A	943.7
01U065	882.1	06-Sep-94	44 A	873.5
01U065	882.1	06-Mar-95	46 A	873.0
01U065	882.1	05-Sep-95	48 A	874.3
01U065	882.1	03-Jun-96	51 A	874.9
01U065	882.1	03-Sep-96	52 A	873.9
01U065	882.1	02-Dec-96	53 A	874.0
01U065	882.1	02-Jun-97	55 A	873.8
01U067	897.4	26-Jul-94	44 F	896.8
01U067	897.4	06-Sep-94	44 F	891.5
01U067	897.4	07-Mar-95	46 F	891.0
01U067	897.4	08-Sep-95	48 F	891.7
01U067	897.4	29-May-96	51 A	894.2
01U067	897.4	06-Sep-96	52 A	890.7
01U067	897.4	02-Dec-96	53 A	891.8
01U067	897.4	28-May-97	55 A	893.5
01U072	908.6	07-Mar-95	46 F	898.7
01U072	908.6	29-May-96	51 A	904.8
01U085	889.6	08-Mar-95	46 F	883.2
01U085	889.6	29-May-96	51 A	885.4
01U085	889.6	28-May-97	55 A	884.5
01U098	954.7	08-Mar-95	46 F	936.1
01U098	954.7	29-May-96	51 A	942.3
01U098	954.7	29-May-97	55 A	941.7
01U100	905.3	08-Mar-95	46 F	897.8
01U100	905.3	29-May-96	51 A	902.4
01U100	905.3	28-May-97	55 A	901.6
01U101	906.8	08-Mar-95	46 F	896.8
01U101	906.8	29-May-96	51 A	899.6
01U101	906.8	28-May-97	55 A	898.8
01U102	905.2	26-Jul-94	44 F	892.1
01U102	905.2	12-Sep-94	44 F	890.0
01U102	905.2	08-Mar-95	46 F	888.1
01U102	905.2	06-Sep-95	48 F	889.9
01U102	905.2	15-Dec-95	49 A	889.0
01U102	905.2	11-Mar-96	50 A	887.6
01U102	905.2	29-May-96	51 A	889.1
01U102	905.2	06-Sep-96	52 A	888.2
01U102	905.2	03-Dec-96	53 A	887.2
01U102	905.2	03-Mar-97	54 A	886.9
01U102	905.2	28-May-97	55 A	889.1
01U102	905.2	03-Sep-97	56 A	891.4
01U103	904.1	26-Jul-94	44 F	893.4
01U103	904.1	07-Sep-94	44 F	890.6
01U103	904.1	06-Mar-95	46 F	888.9
01U103	904.1	08-Sep-95	48 F	890.6
01U103	904.1	29-May-96	51 A	890.8
01U103	904.1	06-Sep-96	52 A	889.1
01U103	904.1	03-Dec-96	53 A	888.6
01U103	904.1	28-May-97	55 A	890.4
01U104	899.1	26-Jul-94	44 F	897.7
01U104	899.1	07-Sep-94	44 F	891.8
01U104	899.1	06-Mar-95	46 F	891.2
01U104	899.1	08-Sep-95	48 F	891.8
01U104	899.1	29-May-96	51 A	893.8
01U104	899.1	06-Sep-96	52 A	890.4
01U104	899.1	03-Dec-96	53 A	891.2
01U104	899.1	28-May-97	55 A	893.1
01U105	901.4	26-Jul-94	44 F	898.3
01U105	901.4	08-Sep-94	44 F	893.5
01U105	901.4	07-Mar-95	46 F	892.7
01U105	901.4	08-Sep-95	48 F	893.1
01U105	901.4	29-May-96	51 A	895.2
01U105	901.4	06-Sep-96	52 A	891.6
01U105	901.4	03-Dec-96	53 A	892.5
01U105	901.4	28-May-97	55 A	894.4
01U106	896.8	26-Jul-94	44 F	895.1
01U106	896.8	07-Sep-94	44 F	890.3
01U106	896.8	06-Mar-95	46 F	888.5
01U106	896.8	08-Sep-95	48 F	890.5
01U106	896.8	29-May-96	51 A	891.2
01U106	896.8	06-Sep-96	52 A	889.1
01U106	896.8	03-Dec-96	53 A	888.5
01U106	896.8	28-May-97	55 A	890.4
01U107	899.2	26-Jul-94	44 F	895.9
01U107	899.2	07-Sep-94	44 F	891.2
01U107	899.2	07-Mar-95	46 F	889.2
01U107	899.2	08-Sep-95	48 F	890.9
01U107	899.2	29-May-96	51 A	892.8
01U107	899.2	06-Sep-96	52 A	890.1
01U107	899.2	03-Dec-96	53 A	889.6
01U107	899.2	28-May-97	55 A	891.8
01U108	904.3	26-Jul-94	44 F	890.9
01U108	904.3	07-Sep-94	44 F	890.5
01U108	904.3	06-Mar-95	46 F	888.9
01U108	904.3	05-Sep-95	48 F	890.9
01U108	904.3	29-May-96	51 A	890.2
01U108	904.3	06-Sep-96	52 A	888.7
01U108	904.3	03-Dec-96	53 A	888.2
01U108	904.3	28-May-97	55 A	890.0
01U109	903.0	26-Jul-94	44 F	897.0
01U109	903.0	07-Sep-94	44 F	892.7
01U109	903.0	06-Mar-95	46 F	892.5
01U109	903.0	08-Sep-95	48 F	892.3
01U109	903.0	29-May-96	51 A	895.2
01U109	903.0	06-Sep-96	52 A	891.1
01U109	903.0	03-Dec-96	53 A	892.7
01U109	903.0	28-May-97	55 A	894.5
01U110	897.2	07-Sep-94	44 F	892.8
01U110	897.2	06-Mar-95	46 F	892.3
01U110	897.2	08-Sep-95	48 F	892.9
01U110	897.2	29-May-96	51 A	895.4
01U110	897.2	06-Sep-96	52 A	891.6
01U110	897.2	03-Dec-96	53 A	893.0
01U110	897.2	28-May-97	55 A	894.7
01U115	900.3	05-Jul-94	44 F	887.5
01U115	900.3	12-Jul-94	44 F	887.5
01U115	900.3	20-Jul-94	44 F	887.4
01U115	900.3	26-Jul-94	44 F	887.3
01U115	900.3	03-Aug-94	44 F	886.8
01U115	900.3	10-Aug-94	44 F	886.7
01U115	900.3	17-Aug-94	44 F	886.6
01U115	900.3	26-Aug-94	44 F	886.7
01U115	900.3	01-Sep-94	44 F	886.6
01U115	900.3	06-Sep-94	44 F	886.5
01U115	900.3	09-Sep-94	44 F	886.6
01U115	900.3	22-Sep-94	44 F	886.3
01U115	900.3	27-Sep-94	44 F	886.4
01U115	900.3	06-Oct-94	45 F	886.5

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U115	900.3	03-Nov-94	45 F	885.1
01U115	900.3	02-Dec-94	45 F	885.3
01U115	900.3	07-Jan-95	46 F	885.8
01U115	900.3	17-Feb-95	46 F	884.9
01U115	900.3	07-Mar-95	46 F	884.6
01U115	900.3	01-May-95	47 F	885.3
01U115	900.3	01-Jun-95	47 F	885.5
01U115	900.3	11-Jul-95	48 F	886.4
01U115	900.3	29-Nov-95	49 A	886.4
01U115	900.3	16-Jan-96	50 A	884.5
01U115	900.3	13-May-96	51 A	885.5
01U115	900.3	29-May-96	51 A	885.2
01U115	900.3	15-Jul-96	52 A	885.5
01U115	900.3	06-Sep-96	52 A	884.6
01U115	900.3	14-Nov-96	53 A	883.8
01U115	900.3	03-Dec-96	53 A	883.6
01U115	900.3	04-Feb-97	54 A	883.8
01U115	900.3	03-Apr-97	55 A	884.2
01U115	900.3	28-May-97	55 A	885.2
01U115	900.3	05-Aug-97	56 A	887.8
01U116	902.7	05-Jul-94	44 F	887.6
01U116	902.7	12-Jul-94	44 F	887.7
01U116	902.7	20-Jul-94	44 F	887.7
01U116	902.7	26-Jul-94	44 F	887.5
01U116	902.7	03-Aug-94	44 F	886.9
01U116	902.7	10-Aug-94	44 F	886.9
01U116	902.7	17-Aug-94	44 F	886.8
01U116	902.7	26-Aug-94	44 F	886.9
01U116	902.7	01-Sep-94	44 F	886.7
01U116	902.7	06-Sep-94	44 F	886.6
01U116	902.7	08-Sep-94	44 F	886.7
01U116	902.7	22-Sep-94	44 F	886.5
01U116	902.7	27-Sep-94	44 F	886.5
01U116	902.7	06-Oct-94	45 F	886.6
01U116	902.7	03-Nov-94	45 F	885.4
01U116	902.7	02-Dec-94	45 F	885.8
01U116	902.7	07-Jan-95	46 F	886.2
01U116	902.7	17-Feb-95	46 F	885.0
01U116	902.7	07-Mar-95	46 F	884.8
01U116	902.7	01-May-95	47 F	885.5
01U116	902.7	01-Jun-95	47 F	885.7
01U116	902.7	14-Jul-95	48 F	883.6
01U116	902.7	05-Sep-95	48 F	887.5
01U116	902.7	29-Nov-95	49 A	886.9
01U116	902.7	16-Jan-96	50 A	884.8
01U116	902.7	13-May-96	51 A	886.0
01U116	902.7	29-May-96	51 A	885.4
01U116	902.7	15-Jul-96	52 A	885.7
01U116	902.7	06-Sep-96	52 A	884.8
01U116	902.7	14-Nov-96	53 A	884.1
01U116	902.7	03-Dec-96	53 A	883.9
01U116	902.7	04-Feb-97	54 A	884.1
01U116	902.7	03-Apr-97	55 A	884.5
01U116	902.7	28-May-97	55 A	885.6
01U116	902.7	05-Aug-97	56 A	888.2
01U117	902.7	05-Jul-94	44 F	888.8
01U117	902.7	12-Jul-94	44 F	888.7
01U117	902.7	20-Jul-94	44 F	888.6
01U117	902.7	26-Jul-94	44 F	888.5
01U117	902.7	03-Aug-94	44 F	888.0
01U117	902.7	10-Aug-94	44 F	887.9
01U117	902.7	17-Aug-94	44 F	887.9
01U117	902.7	26-Aug-94	44 F	887.8
01U117	902.7	01-Sep-94	44 F	887.7
01U117	902.7	06-Sep-94	44 F	887.6
01U117	902.7	09-Sep-94	44 F	887.5
01U117	902.7	22-Sep-94	44 F	888.9
01U117	902.7	27-Sep-94	44 F	887.4
01U117	902.7	06-Oct-94	45 F	887.4
01U117	902.7	03-Nov-94	45 F	886.5
01U117	902.7	02-Dec-94	45 F	886.7
01U117	902.7	07-Jan-95	46 F	886.9
01U117	902.7	17-Feb-95	46 F	886.0
01U117	902.7	06-Mar-95	46 F	885.6
01U117	902.7	06-Sep-95	48 F	888.3
01U117	902.7	15-Dec-95	49 A	887.2
01U117	902.7	11-Mar-96	50 A	885.7
01U117	902.7	29-May-96	51 A	886.5
01U117	902.7	06-Sep-96	52 A	885.8
01U117	902.7	03-Dec-96	53 A	884.9
01U117	902.7	03-Mar-97	54 A	884.7
01U117	902.7	28-May-97	55 A	886.6
01U117	902.7	03-Sep-97	56 A	889.0
01U118	901.8	26-Jul-94	44 F	892.2
01U118	901.8	06-Sep-94	44 F	887.5
01U118	901.8	08-Mar-95	46 F	887.7
01U118	901.8	08-Sep-95	48 F	889.4
01U118	901.8	29-May-96	51 A	889.4
01U118	901.8	06-Sep-96	52 A	888.2
01U118	901.8	03-Dec-96	53 A	887.0
01U118	901.8	28-May-97	55 A	889.3
01U119	898.1	26-Jul-94	44 F	896.7
01U119	898.1	07-Sep-94	44 F	891.6
01U119	898.1	06-Mar-95	46 F	890.7
01U119	898.1	08-Sep-95	48 F	891.7
01U119	898.1	29-May-96	51 A	893.3
01U119	898.1	06-Sep-96	52 A	890.2
01U119	898.1	03-Dec-96	53 A	890.7
01U119	898.1	28-May-97	55 A	892.6
01U120	902.2	26-Jul-94	44 F	891.5
01U120	902.2	08-Sep-94	44 F	887.6
01U120	902.2	07-Mar-95	46 F	888.4
01U120	902.2	08-Sep-95	48 F	890.1
01U120	902.2	29-May-96	51 A	889.8
01U120	902.2	06-Sep-96	52 A	888.4
01U120	902.2	03-Dec-96	53 A	888.1
01U120	902.2	28-May-97	55 A	889.6
01U122	901.0	08-Mar-95	46 F	895.3
01U122	901.0	29-May-96	51 A	898.0
01U122	901.0	28-May-97	55 A	897.7
01U125	901.1	05-Jul-94	44 F	889.0
01U125	901.1	12-Jul-94	44 F	888.7
01U125	901.1	20-Jul-94	44 F	888.5
01U125	901.1	26-Jul-94	44 F	888.3
01U125	901.1	03-Aug-94	44 F	888.1
01U125	901.1	10-Aug-94	44 F	887.9
01U125	901.1	17-Aug-94	44 F	887.7
01U125	901.1	26-Aug-94	44 F	887.5
01U125	901.1	01-Sep-94	44 F	887.4
01U125	901.1	06-Sep-94	44 F	887.3
01U125	901.1	09-Sep-94	44 F	887.5
01U125	901.1	22-Sep-94	44 F	887.0
01U125	901.1	27-Sep-94	44 F	887.0
01U125	901.1	06-Oct-94	45 F	887.0
01U125	901.1	03-Nov-94	45 F	886.4
01U125	901.1	02-Dec-94	45 F	886.0
01U125	901.1	07-Jan-95	46 F	886.2
01U125	901.1	17-Feb-95	46 F	886.2
01U125	901.1	07-Mar-95	46 F	885.7
01U125	901.1	01-May-95	47 F	885.9
01U125	901.1	01-Jun-95	47 F	886.1
01U125	901.1	14-Jul-95	48 F	884.0
01U125	901.1	05-Sep-95	48 F	887.7
01U125	901.1	29-Nov-95	49 A	886.4
01U125	901.1	16-Jan-96	50 A	885.8
01U125	901.1	13-May-96	51 A	886.2
01U125	901.1	29-May-96	51 A	886.1
01U125	901.1	15-Jul-96	52 A	886.4
01U125	901.1	06-Sep-96	52 A	885.6
01U125	901.1	14-Nov-96	53 A	884.5
01U125	901.1	03-Dec-96	53 A	884.4

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U125	901.1	04-Feb-97	54 A	884.5
01U125	901.1	03-Apr-97	55 A	885.0
01U125	901.1	28-May-97	55 A	886.1
01U125	901.1	05-Aug-97	56 A	888.5
01U126	903.3	26-Jul-94	44 F	890.7
01U126	903.3	07-Sep-94	44 F	889.1
01U126	903.3	06-Mar-95	46 F	887.2
01U126	903.3	08-Sep-95	48 F	889.3
01U126	903.3	29-May-96	51 A	888.4
01U126	903.3	06-Sep-96	52 A	887.5
01U126	903.3	03-Dec-96	53 A	886.6
01U126	903.3	28-May-97	55 A	888.4
01U127	902.9	26-Jul-94	44 F	892.5
01U127	902.9	07-Sep-94	44 F	889.2
01U127	902.9	07-Mar-95	46 F	888.6
01U127	902.9	08-Sep-95	48 F	890.4
01U127	902.9	29-May-96	51 A	890.3
01U127	902.9	06-Sep-96	52 A	888.9
01U127	902.9	03-Dec-96	53 A	888.4
01U127	902.9	28-May-97	55 A	890.0
01U128	881.3	06-Sep-94	44 A	873.2
01U128	881.3	06-Mar-95	46 A	872.8
01U128	881.3	05-Sep-95	48 A	874.9
01U128	881.3	03-Jun-96	51 A	875.4
01U128	881.3	03-Sep-96	52 A	872.8
01U128	881.3	02-Dec-96	53 A	875.4
01U128	881.3	02-Jun-97	55 A	874.1
01U130	888.7	08-Mar-95	46 F	880.6
01U130	888.7	29-May-96	51 A	882.5
01U133	900.7	26-Jul-94	44 F	895.7
01U133	900.7	08-Sep-94	44 F	891.2
01U133	900.7	07-Mar-95	46 F	892.0
01U133	900.7	08-Sep-95	48 F	891.3
01U133	900.7	29-May-96	51 A	892.4
01U133	900.7	06-Sep-96	52 A	889.9
01U133	900.7	03-Dec-96	53 A	890.1
01U133	900.7	28-May-97	55 A	891.8
01U135	900.0	26-Jul-94	44 F	884.5
01U135	900.0	08-Sep-94	44 F	884.4
01U135	900.0	08-Mar-95	46 F	882.5
01U135	900.0	08-Sep-95	48 F	884.2
01U135	900.0	29-May-96	51 A	883.5
01U135	900.0	06-Sep-96	52 A	882.9
01U135	900.0	03-Dec-96	53 A	882.0
01U135	900.0	28-May-97	55 A	883.7
01U136	898.8	26-Jul-94	44 F	880.4
01U136	898.8	08-Sep-94	44 F	880.0
01U136	898.8	07-Mar-95	46 F	879.0
01U136	898.8	08-Sep-95	48 F	880.3
01U136	898.8	29-May-96	51 A	880.2
01U136	898.8	06-Sep-96	52 A	879.1
01U136	898.8	03-Dec-96	53 A	878.9
01U136	898.8	28-May-97	55 A	880.3
01U137	900.9	26-Jul-94	44 F	891.3
01U137	900.9	06-Sep-94	44 F	886.9
01U137	900.9	06-Mar-95	46 F	887.1
01U137	900.9	08-Sep-95	48 F	889.3
01U137	900.9	29-May-96	51 A	888.2
01U137	900.9	06-Sep-96	52 A	887.4
01U137	900.9	03-Dec-96	53 A	886.0
01U137	900.9	28-May-97	55 A	888.2
01U138	904.6	05-Jul-94	44 F	887.4
01U138	904.6	12-Jul-94	44 F	887.3
01U138	904.6	20-Jul-94	44 F	887.2
01U138	904.6	26-Jul-94	44 F	887.1
01U138	904.6	03-Aug-94	44 F	886.7
01U138	904.6	10-Aug-94	44 F	886.5
01U138	904.6	17-Aug-94	44 F	886.6
01U138	904.6	26-Aug-94	44 F	886.6
01U138	904.6	01-Sep-94	44 F	886.4
01U138	904.6	06-Sep-94	44 F	886.3
01U138	904.6	09-Sep-94	44 F	886.5
01U138	904.6	22-Sep-94	44 F	886.2
01U138	904.6	27-Sep-94	44 F	886.3
01U138	904.6	06-Oct-94	45 F	886.4
01U138	904.6	03-Nov-94	45 F	884.6
01U138	904.6	02-Dec-94	45 F	884.9
01U138	904.6	07-Jan-95	46 F	885.5
01U138	904.6	17-Feb-95	46 F	884.3
01U138	904.6	07-Mar-95	46 F	884.1
01U138	904.6	01-May-95	47 F	885.1
01U138	904.6	01-Jun-95	47 F	885.4
01U138	904.6	14-Jul-95	48 F	883.3
01U138	904.6	05-Sep-95	48 F	887.4
01U138	904.6	29-Nov-95	49 A	885.6
01U138	904.6	16-Jan-96	50 A	884.1
01U138	904.6	13-May-96	51 A	885.0
01U138	904.6	29-May-96	51 A	885.0
01U138	904.6	15-Jul-96	52 A	885.3
01U138	904.6	06-Sep-96	52 A	884.4
01U138	904.6	14-Nov-96	53 A	883.5
01U138	904.6	03-Dec-96	53 A	883.3
01U138	904.6	04-Feb-97	54 A	883.4
01U138	904.6	03-Apr-97	55 A	884.0
01U138	904.6	28-May-97	55 A	885.0
01U138	904.6	05-Aug-97	56 A	887.7
01U139	901.5	05-Jul-94	44 F	886.4
01U139	901.5	12-Jul-94	44 F	886.2
01U139	901.5	20-Jul-94	44 F	886.0
01U139	901.5	26-Jul-94	44 F	885.9
01U139	901.5	03-Aug-94	44 F	885.7
01U139	901.5	10-Aug-94	44 F	885.6
01U139	901.5	17-Aug-94	44 F	885.5
01U139	901.5	26-Aug-94	44 F	885.5
01U139	901.5	01-Sep-94	44 F	885.9
01U139	901.5	06-Sep-94	44 F	885.9
01U139	901.5	09-Sep-94	44 F	886.0
01U139	901.5	22-Sep-94	44 F	885.9
01U139	901.5	27-Sep-94	44 F	886.0
01U139	901.5	06-Oct-94	45 F	886.2
01U139	901.5	03-Nov-94	45 F	884.5
01U139	901.5	02-Dec-94	45 F	884.6
01U139	901.5	07-Jan-95	46 F	885.3
01U139	901.5	17-Feb-95	46 F	883.9
01U139	901.5	07-Mar-95	46 F	883.3
01U139	901.5	01-May-95	47 F	887.2
01U139	901.5	01-Jun-95	47 F	884.3
01U139	901.5	14-Jul-95	48 F	885.5
01U139	901.5	05-Sep-95	48 F	886.9
01U139	901.5	29-Nov-95	49 A	885.6
01U139	901.5	16-Jan-96	50 A	883.5
01U139	901.5	11-Mar-96	50 A	883.7
01U139	901.5	13-May-96	51 A	884.8
01U139	901.5	29-May-96	51 A	884.6
01U139	901.5	15-Jul-96	52 A	884.7
01U139	901.5	06-Sep-96	52 A	884.0
01U139	901.5	14-Nov-96	53 A	883.2
01U139	901.5	03-Dec-96	53 A	882.9
01U139	901.5	04-Feb-97	54 A	883.0
01U139	901.5	03-Mar-97	54 A	882.7
01U139	901.5	03-Apr-97	55 A	883.5
01U139	901.5	28-May-97	55 A	884.5
01U139	901.5	05-Aug-97	56 A	886.8
01U140	899.0	05-Jul-94	44 F	885.9
01U140	899.0	12-Jul-94	44 F	885.6
01U140	899.0	20-Jul-94	44 F	885.6
01U140	899.0	26-Jul-94	44 F	886.5

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U140	899.0	03-Aug-94	44 F	885.4
01U140	899.0	10-Aug-94	44 F	885.4
01U140	899.0	17-Aug-94	44 F	885.4
01U140	899.0	26-Aug-94	44 F	885.4
01U140	899.0	01-Sep-94	44 F	885.1
01U140	899.0	06-Sep-94	44 F	885.1
01U140	899.0	09-Sep-94	44 F	888.1
01U140	899.0	22-Sep-94	44 F	885.0
01U140	899.0	27-Sep-94	44 F	885.1
01U140	899.0	06-Oct-94	45 F	885.2
01U140	899.0	03-Nov-94	45 F	883.8
01U140	899.0	02-Dec-94	45 F	883.9
01U140	899.0	07-Jan-95	46 F	884.6
01U140	899.0	07-Mar-95	46 F	882.9
01U140	899.0	01-May-95	47 F	883.4
01U140	899.0	01-Jun-95	47 F	883.8
01U140	899.0	14-Jul-95	48 F	884.3
01U140	899.0	05-Sep-95	48 F	885.1
01U140	899.0	29-Nov-95	49 A	884.0
01U140	899.0	16-Jan-96	50 A	883.1
01U140	899.0	13-May-96	51 A	883.6
01U140	899.0	29-May-96	51 A	883.8
01U140	899.0	15-Jul-96	52 A	884.0
01U140	899.0	06-Sep-96	52 A	883.2
01U140	899.0	14-Nov-96	53 A	882.2
01U140	899.0	03-Dec-96	53 A	881.9
01U140	899.0	04-Feb-97	54 A	882.0
01U140	899.0	03-Apr-97	55 A	882.8
01U140	899.0	28-May-97	55 A	883.9
01U140	899.0	05-Aug-97	56 A	885.8
01U141	898.0	26-Jul-94	44 F	889.1
01U141	898.0	06-Sep-94	44 F	887.1
01U141	898.0	07-Mar-95	46 F	884.7
01U141	898.0	08-Sep-95	48 F	887.2
01U141	898.0	29-May-96	51 A	885.8
01U141	898.0	06-Sep-96	52 A	885.2
01U141	898.0	03-Dec-96	53 A	884.0
01U141	898.0	28-May-97	55 A	885.8
01U142	898.0	29-May-96	51 A	881.5
01U143	898.0	29-May-96	51 A	882.4
01U144	898.0	29-May-96	51 A	881.3
01U145	901.4	05-Jul-94	44 F	889.3
01U145	901.4	12-Jul-94	44 F	889.1
01U145	901.4	20-Jul-94	44 F	888.9
01U145	901.4	26-Jul-94	44 F	888.7
01U145	901.4	03-Aug-94	44 F	887.7
01U145	901.4	10-Aug-94	44 F	888.2
01U145	901.4	17-Aug-94	44 F	888.1
01U145	901.4	26-Aug-94	44 F	888.0
01U145	901.4	01-Sep-94	44 F	887.8
01U145	901.4	06-Sep-94	44 F	887.7
01U145	901.4	22-Sep-94	44 F	887.4
01U145	901.4	27-Sep-94	44 F	887.4
01U145	901.4	06-Oct-94	45 F	887.4
01U145	901.4	03-Nov-94	45 F	886.5
01U145	901.4	02-Dec-94	45 F	886.4
01U145	901.4	07-Jan-95	46 F	886.6
01U145	901.4	17-Feb-95	46 F	886.1
01U145	901.4	07-Mar-95	46 F	885.5
01U145	901.4	04-Apr-95	47 F	885.2
01U145	901.4	01-May-95	47 F	886.0
01U145	901.4	01-Jun-95	47 F	886.2
01U145	901.4	14-Jul-95	48 F	887.3
01U145	901.4	07-Aug-95	48 F	887.6
01U145	901.4	08-Sep-95	48 F	888.0
01U145	901.4	10-Oct-95	49 F	885.4
01U145	901.4	29-Nov-95	49 A	886.3
01U145	901.4	15-Dec-95	49 A	886.2
01U145	901.4	16-Jan-96	50 A	884.9
01U145	901.4	14-Feb-96	50 A	884.5
01U145	901.4	11-Mar-96	50 A	883.9
01U145	901.4	11-Mar-96	50 A	884.6
01U145	901.4	09-Apr-96	51 A	885.4
01U145	901.4	13-May-96	51 A	885.7
01U145	901.4	29-May-96	51 A	885.5
01U145	901.4	15-Jul-96	52 A	885.8
01U145	901.4	06-Aug-96	52 A	885.8
01U145	901.4	06-Sep-96	52 A	885.0
01U145	901.4	17-Oct-96	53 A	884.2
01U145	901.4	03-Dec-96	53 A	883.8
01U145	901.4	03-Mar-97	54 A	883.7
01U145	901.4	28-May-97	55 A	885.6
01U145	901.4	03-Sep-97	56 A	888.2
01U146	903.5	05-Jul-94	44 F	887.8
01U146	903.5	12-Jul-94	44 F	887.7
01U146	903.5	20-Jul-94	44 F	887.7
01U146	903.5	26-Jul-94	44 F	887.6
01U146	903.5	03-Aug-94	44 F	887.2
01U146	903.5	10-Aug-94	44 F	887.0
01U146	903.5	17-Aug-94	44 F	887.0
01U146	903.5	26-Aug-94	44 F	887.1
01U146	903.5	01-Sep-94	44 F	886.8
01U146	903.5	06-Sep-94	44 F	886.6
01U146	903.5	22-Sep-94	44 F	886.5
01U146	903.5	27-Sep-94	44 F	886.5
01U146	903.5	06-Oct-94	45 F	886.9
01U146	903.5	03-Nov-94	45 F	885.4
01U146	903.5	02-Dec-94	45 F	885.7
01U146	903.5	07-Jan-95	46 F	886.1
01U146	903.5	17-Feb-95	46 F	885.1
01U146	903.5	07-Mar-95	46 F	884.5
01U146	903.5	04-Apr-95	47 F	884.4
01U146	903.5	01-May-95	47 F	885.6
01U146	903.5	01-Jun-95	47 F	885.9
01U146	903.5	14-Jul-95	48 F	886.9
01U146	903.5	07-Aug-95	48 F	887.3
01U146	903.5	08-Sep-95	48 F	887.8
01U146	903.5	10-Oct-95	49 F	885.1
01U146	903.5	29-Nov-95	49 A	886.1
01U146	903.5	15-Dec-95	49 A	886.1
01U146	903.5	16-Jan-96	50 A	884.6
01U146	903.5	14-Feb-96	50 A	884.2
01U146	903.5	11-Mar-96	50 A	884.4
01U146	903.5	09-Apr-96	51 A	885.2
01U146	903.5	13-May-96	51 A	885.5
01U146	903.5	29-May-96	51 A	885.4
01U146	903.5	15-Jul-96	52 A	885.7
01U146	903.5	06-Aug-96	52 A	885.7
01U146	903.5	06-Sep-96	52 A	884.8
01U146	903.5	17-Oct-96	53 A	884.0
01U146	903.5	03-Dec-96	53 A	883.5
01U146	903.5	03-Mar-97	54 A	883.4
01U146	903.5	28-May-97	55 A	885.5
01U146	903.5	03-Sep-97	56 A	888.3
01U147	902.8	05-Jul-94	44 F	888.6
01U147	902.8	12-Jul-94	44 F	888.5
01U147	902.8	20-Jul-94	44 F	888.4
01U147	902.8	26-Jul-94	44 F	888.3
01U147	902.8	03-Aug-94	44 F	887.7
01U147	902.8	10-Aug-94	44 F	887.6
01U147	902.8	17-Aug-94	44 F	887.6
01U147	902.8	26-Aug-94	44 F	887.5
01U147	902.8	01-Sep-94	44 F	887.4
01U147	902.8	06-Sep-94	44 F	887.3
01U147	902.8	22-Sep-94	44 F	887.1
01U147	902.8	27-Sep-94	44 F	887.2
01U147	902.8	06-Oct-94	45 F	887.2
01U147	902.8	03-Nov-94	45 F	886.3
01U147	902.8	02-Dec-94	45 F	887.5
01U147	902.8	07-Jan-95	46 F	886.7
01U147	902.8	17-Feb-95	46 F	885.8

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U147	902.8	07-Mar-95	46 F	885.4
01U147	902.8	04-Apr-95	47 F	885.3
01U147	902.8	01-May-95	47 F	886.3
01U147	902.8	01-Jun-95	47 F	886.5
01U147	902.8	14-Jul-95	48 F	887.5
01U147	902.8	07-Aug-95	48 F	887.6
01U147	902.8	08-Sep-95	48 F	888.0
01U147	902.8	10-Oct-95	49 F	886.2
01U147	902.8	29-Nov-95	49 A	887.4
01U147	902.8	15-Dec-95	49 A	886.9
01U147	902.8	16-Jan-96	50 A	885.6
01U147	902.8	14-Feb-96	50 A	885.3
01U147	902.8	11-Mar-96	50 A	885.4
01U147	902.8	09-Apr-96	51 A	886.3
01U147	902.8	13-May-96	51 A	886.7
01U147	902.8	29-May-96	51 A	886.3
01U147	902.8	15-Jul-96	52 A	886.5
01U147	902.8	06-Aug-96	52 A	886.4
01U147	902.8	06-Sep-96	52 A	885.6
01U147	902.8	17-Oct-96	53 A	884.8
01U147	902.8	03-Dec-96	53 A	884.8
01U147	902.8	03-Mar-97	54 A	884.5
01U147	902.8	28-May-97	55 A	886.4
01U147	902.8	03-Sep-97	56 A	888.7
01U148	902.6	05-Jul-94	44 F	887.7
01U148	902.6	12-Jul-94	44 F	887.7
01U148	902.6	20-Jul-94	44 F	887.7
01U148	902.6	26-Jul-94	44 F	887.6
01U148	902.6	03-Aug-94	44 F	886.8
01U148	902.6	10-Aug-94	44 F	886.8
01U148	902.6	17-Aug-94	44 F	886.8
01U148	902.6	26-Aug-94	44 F	886.8
01U148	902.6	01-Sep-94	44 F	886.7
01U148	902.6	06-Sep-94	44 F	886.5
01U148	902.6	22-Sep-94	44 F	886.4
01U148	902.6	27-Sep-94	44 F	886.5
01U148	902.6	06-Oct-94	45 F	886.6
01U148	902.6	03-Nov-94	45 F	885.2
01U148	902.6	02-Dec-94	45 F	885.7
01U148	902.6	07-Jan-95	46 F	886.1
01U148	902.6	17-Feb-95	46 F	885.0
01U148	902.6	07-Mar-95	46 F	884.6
01U148	902.6	04-Apr-95	47 F	884.5
01U148	902.6	01-May-95	47 F	885.5
01U148	902.6	01-Jun-95	47 F	885.6
01U148	902.6	14-Jul-95	48 F	883.6
01U148	902.6	07-Aug-95	48 F	887.1
01U148	902.6	08-Sep-95	48 F	887.5
01U148	902.6	10-Oct-95	49 F	885.3
01U148	902.6	29-Nov-95	49 A	886.8
01U148	902.6	15-Dec-95	49 A	886.3
01U148	902.6	16-Jan-96	50 A	885.1
01U148	902.6	14-Feb-96	50 A	884.4
01U148	902.6	11-Mar-96	50 A	884.7
01U148	902.6	09-Apr-96	51 A	885.6
01U148	902.6	13-May-96	51 A	885.9
01U148	902.6	29-May-96	51 A	885.4
01U148	902.6	15-Jul-96	52 A	885.7
01U148	902.6	06-Aug-96	52 A	885.8
01U148	902.6	06-Sep-96	52 A	884.8
01U148	902.6	17-Oct-96	53 A	884.0
01U148	902.6	03-Dec-96	53 A	883.8
01U148	902.6	03-Mar-97	54 A	883.6
01U148	902.6	28-May-97	55 A	885.5
01U148	902.6	03-Sep-97	56 A	888.1
01U149	901.3	05-Jul-94	44 F	888.1
01U149	901.3	12-Jul-94	44 F	888.0
01U149	901.3	20-Jul-94	44 F	887.9
01U149	901.3	26-Jul-94	44 F	887.8
01U149	901.3	03-Aug-94	44 F	884.9
01U149	901.3	10-Aug-94	44 F	887.2
01U149	901.3	17-Aug-94	44 F	887.1
01U149	901.3	26-Aug-94	44 F	887.1
01U149	901.3	01-Sep-94	44 F	887.0
01U149	901.3	06-Sep-94	44 F	886.8
01U149	901.3	22-Sep-94	44 F	886.6
01U149	901.3	27-Sep-94	44 F	886.7
01U149	901.3	06-Oct-94	45 F	886.7
01U149	901.3	03-Nov-94	45 F	885.4
01U149	901.3	02-Dec-94	45 F	885.6
01U149	901.3	07-Jan-95	46 F	886.0
01U149	901.3	17-Feb-95	46 F	885.3
01U149	901.3	07-Mar-95	46 F	884.5
01U149	901.3	04-Apr-95	47 F	884.3
01U149	901.3	01-May-95	47 F	885.5
01U149	901.3	01-Jun-95	47 F	885.8
01U149	901.3	14-Jul-95	48 F	883.7
01U149	901.3	07-Aug-95	48 F	887.2
01U149	901.3	08-Sep-95	48 F	887.7
01U149	901.3	10-Oct-95	49 F	885.3
01U149	901.3	29-Nov-95	49 A	886.2
01U149	901.3	15-Dec-95	49 A	886.2
01U149	901.3	16-Jan-96	50 A	885.1
01U149	901.3	14-Feb-96	50 A	884.2
01U149	901.3	11-Mar-96	50 A	884.5
01U149	901.3	09-Apr-96	51 A	885.3
01U149	901.3	13-May-96	51 A	885.7
01U149	901.3	29-May-96	51 A	885.5
01U149	901.3	15-Jul-96	52 A	885.8
01U149	901.3	06-Aug-96	52 A	885.8
01U149	901.3	06-Sep-96	52 A	884.9
01U149	901.3	17-Oct-96	53 A	883.9
01U149	901.3	03-Dec-96	53 A	883.6
01U149	901.3	03-Mar-97	54 A	883.4
01U149	901.3	28-May-97	55 A	885.5
01U149	901.3	03-Sep-97	56 A	888.3
01U150	901.3	05-Jul-94	44 F	887.2
01U150	901.3	12-Jul-94	44 F	887.1
01U150	901.3	20-Jul-94	44 F	887.0
01U150	901.3	26-Jul-94	44 F	887.0
01U150	901.3	03-Aug-94	44 F	886.1
01U150	901.3	10-Aug-94	44 F	886.4
01U150	901.3	17-Aug-94	44 F	886.4
01U150	901.3	26-Aug-94	44 F	886.5
01U150	901.3	01-Sep-94	44 F	886.3
01U150	901.3	06-Sep-94	44 F	886.0
01U150	901.3	22-Sep-94	44 F	886.0
01U150	901.3	27-Sep-94	44 F	886.1
01U150	901.3	06-Oct-94	45 F	886.2
01U150	901.3	03-Nov-94	45 F	884.6
01U150	901.3	02-Dec-94	45 F	884.8
01U150	901.3	07-Jan-95	46 F	885.2
01U150	901.3	17-Feb-95	46 F	884.3
01U150	901.3	07-Mar-95	46 F	883.7
01U150	901.3	04-Apr-95	47 F	883.7
01U150	901.3	01-May-95	47 F	884.9
01U150	901.3	01-Jun-95	47 F	885.3
01U150	901.3	14-Jul-95	48 F	879.7
01U150	901.3	07-Aug-95	48 F	886.7
01U150	901.3	08-Sep-95	48 F	887.2
01U150	901.3	10-Oct-95	49 F	884.3
01U150	901.3	29-Nov-95	49 A	885.5
01U150	901.3	15-Dec-95	49 A	885.6
01U150	901.3	16-Jan-96	50 A	884.0
01U150	901.3	14-Feb-96	50 A	883.7
01U150	901.3	11-Mar-96	50 A	883.9
01U150	901.3	09-Apr-96	51 A	884.8
01U150	901.3	13-May-96	51 A	885.0
01U150	901.3	29-May-96	51 A	884.8
01U150	901.3	15-Jul-96	52 A	885.1
01U150	901.3	06-Aug-96	52 A	885.1
01U150	901.3	06-Sep-96	52 A	884.3
01U150	901.3	17-Oct-96	53 A	883.5
01U150	901.3	03-Dec-96	53 A	883.2
01U150	901.3	03-Mar-97	54 A	883.0

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U150	901.3	28-May-97	55 A	884.9
01U150	901.3	03-Sep-97	56 A	887.5
01U151	904.7	05-Jul-94	44 F	887.4
01U151	904.7	12-Jul-94	44 F	887.3
01U151	904.7	20-Jul-94	44 F	887.2
01U151	904.7	26-Jul-94	44 F	887.1
01U151	904.7	03-Aug-94	44 F	886.7
01U151	904.7	10-Aug-94	44 F	886.5
01U151	904.7	17-Aug-94	44 F	886.5
01U151	904.7	26-Aug-94	44 F	886.5
01U151	904.7	01-Sep-94	44 F	886.3
01U151	904.7	06-Sep-94	44 F	886.2
01U151	904.7	22-Sep-94	44 F	886.1
01U151	904.7	27-Sep-94	44 F	886.2
01U151	904.7	06-Oct-94	45 F	886.3
01U151	904.7	03-Nov-94	45 F	881.7
01U151	904.7	02-Dec-94	45 F	884.9
01U151	904.7	07-Jan-95	46 F	885.3
01U151	904.7	17-Feb-95	46 F	884.4
01U151	904.7	07-Mar-95	46 F	883.8
01U151	904.7	04-Apr-95	47 F	883.7
01U151	904.7	01-May-95	47 F	884.9
01U151	904.7	01-Jun-95	47 F	885.3
01U151	904.7	14-Jul-95	48 F	883.1
01U151	904.7	07-Aug-95	48 F	886.6
01U151	904.7	08-Sep-95	48 F	887.2
01U151	904.7	10-Oct-95	49 F	884.5
01U151	904.7	29-Nov-95	49 A	885.5
01U151	904.7	15-Dec-95	49 A	885.6
01U151	904.7	16-Jan-96	50 A	884.2
01U151	904.7	14-Feb-96	50 A	883.8
01U151	904.7	11-Mar-96	50 A	884.0
01U151	904.7	09-Apr-96	51 A	884.8
01U151	904.7	13-May-96	51 A	885.1
01U151	904.7	29-May-96	51 A	885.0
01U151	904.7	15-Jul-96	52 A	885.3
01U151	904.7	06-Aug-96	52 A	885.2
01U151	904.7	06-Sep-96	52 A	884.5
01U151	904.7	17-Oct-96	53 A	883.7
01U151	904.7	03-Dec-96	53 A	883.3
01U151	904.7	03-Mar-97	54 A	883.2
01U151	904.7	28-May-97	55 A	885.0
01U151	904.7	03-Sep-97	56 A	887.7
01U152	901.0	05-Jul-94	44 F	887.1
01U152	901.0	12-Jul-94	44 F	886.8
01U152	901.0	20-Jul-94	44 F	886.7
01U152	901.0	26-Jul-94	44 F	886.6
01U152	901.0	03-Aug-94	44 F	886.3
01U152	901.0	17-Aug-94	44 F	886.0
01U152	901.0	19-Aug-94	44 F	886.1
01U152	901.0	26-Aug-94	44 F	886.0
01U152	901.0	01-Sep-94	44 F	886.1
01U152	901.0	06-Sep-94	44 F	886.0
01U152	901.0	22-Sep-94	44 F	885.9
01U152	901.0	27-Sep-94	44 F	886.0
01U152	901.0	06-Oct-94	45 F	886.1
01U152	901.0	03-Nov-94	45 F	884.8
01U152	901.0	02-Dec-94	45 F	884.8
01U152	901.0	07-Jan-95	46 F	885.3
01U152	901.0	07-Mar-95	46 F	883.7
01U152	901.0	04-Apr-95	47 F	883.8
01U152	901.0	01-May-95	47 F	884.4
01U152	901.0	01-Jun-95	47 F	884.7
01U152	901.0	14-Jul-95	48 F	885.8
01U152	901.0	07-Aug-95	48 F	886.3
01U152	901.0	08-Sep-95	48 F	886.9
01U152	901.0	10-Oct-95	49 F	884.3
01U152	901.0	29-Nov-95	49 A	885.6
01U152	901.0	15-Dec-95	49 A	885.3
01U152	901.0	16-Jan-96	50 A	884.0
01U152	901.0	14-Feb-96	50 A	883.6
01U152	901.0	11-Mar-96	50 A	883.9
01U152	901.0	09-Apr-96	51 A	884.8
01U152	901.0	13-May-96	51 A	885.0
01U152	901.0	29-May-96	51 A	884.8
01U152	901.0	15-Jul-96	52 A	885.0
01U152	901.0	06-Aug-96	52 A	884.9
01U152	901.0	06-Sep-96	52 A	884.3
01U152	901.0	17-Oct-96	53 A	883.5
01U152	901.0	03-Dec-96	53 A	883.2
01U152	901.0	03-Mar-97	54 A	883.0
01U152	901.0	28-May-97	55 A	884.8
01U152	901.0	03-Sep-97	56 A	887.3
01U153	899.9	05-Jul-94	44 F	886.0
01U153	899.9	12-Jul-94	44 F	885.7
01U153	899.9	26-Jul-94	44 F	885.5
01U153	899.9	03-Aug-94	44 F	885.3
01U153	899.9	10-Aug-94	44 F	885.2
01U153	899.9	17-Aug-94	44 F	885.1
01U153	899.9	26-Aug-94	44 F	885.1
01U153	899.9	01-Sep-94	44 F	885.4
01U153	899.9	06-Sep-94	44 F	885.3
01U153	899.9	22-Sep-94	44 F	885.4
01U153	899.9	27-Sep-94	44 F	885.5
01U153	899.9	06-Oct-94	45 F	885.6
01U153	899.9	03-Nov-94	45 F	884.2
01U153	899.9	02-Dec-94	45 F	884.3
01U153	899.9	07-Jan-95	46 F	884.7
01U153	899.9	17-Feb-95	46 F	883.7
01U153	899.9	07-Mar-95	46 F	882.8
01U153	899.9	04-Apr-95	47 F	882.4
01U153	899.9	01-May-95	47 F	883.5
01U153	899.9	01-Jun-95	47 F	884.0
01U153	899.9	14-Jul-95	48 F	884.7
01U153	899.9	07-Aug-95	48 F	885.4
01U153	899.9	08-Sep-95	48 F	886.2
01U153	899.9	10-Oct-95	49 F	883.2
01U153	899.9	29-Nov-95	49 A	884.7
01U153	899.9	15-Dec-95	49 A	884.5
01U153	899.9	16-Jan-96	50 A	883.0
01U153	899.9	14-Feb-96	50 A	882.7
01U153	899.9	11-Mar-96	50 A	883.2
01U153	899.9	09-Apr-96	51 A	884.1
01U153	899.9	13-May-96	51 A	884.5
01U153	899.9	29-May-96	51 A	884.0
01U153	899.9	15-Jul-96	52 A	884.2
01U153	899.9	06-Aug-96	52 A	884.0
01U153	899.9	06-Sep-96	52 A	883.5
01U153	899.9	17-Oct-96	53 A	882.8
01U153	899.9	03-Dec-96	53 A	882.4
01U153	899.9	03-Mar-97	54 A	882.1
01U153	899.9	28-May-97	55 A	883.9
01U153	899.9	03-Sep-97	56 A	886.4
01U154	898.9	05-Jul-94	44 F	885.8
01U154	898.9	12-Jul-94	44 F	885.5
01U154	898.9	20-Jul-94	44 F	885.4
01U154	898.9	26-Jul-94	44 F	885.4
01U154	898.9	03-Aug-94	44 F	885.3
01U154	898.9	10-Aug-94	44 F	885.2
01U154	898.9	17-Aug-94	44 F	885.2
01U154	898.9	26-Aug-94	44 F	885.2
01U154	898.9	01-Sep-94	44 F	885.0
01U154	898.9	06-Sep-94	44 F	885.0
01U154	898.9	22-Sep-94	44 F	885.0
01U154	898.9	27-Sep-94	44 F	885.1
01U154	898.9	06-Oct-94	45 F	885.2
01U154	898.9	03-Nov-94	45 F	883.9
01U154	898.9	02-Dec-94	45 F	884.0
01U154	898.9	07-Jan-95	46 F	884.2
01U154	898.9	17-Feb-95	46 F	883.4
01U154	898.9	07-Mar-95	46 F	882.6
01U154	898.9	04-Apr-95	47 F	882.2
01U154	898.9	01-May-95	47 F	883.4
01U154	898.9	01-Jun-95	47 F	883.9

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U154	898.9	14-Jul-95	48 F	884.1
01U154	898.9	07-Aug-95	48 F	884.6
01U154	898.9	08-Sep-95	48 F	885.3
01U154	898.9	10-Oct-95	49 F	883.1
01U154	898.9	29-Nov-95	49 A	884.0
01U154	898.9	15-Dec-95	49 A	884.1
01U154	898.9	16-Jan-96	50 A	882.9
01U154	898.9	14-Feb-96	50 A	882.6
01U154	898.9	11-Mar-96	50 A	882.8
01U154	898.9	09-Apr-96	51 A	883.7
01U154	898.9	13-May-96	51 A	884.2
01U154	898.9	29-May-96	51 A	883.7
01U154	898.9	15-Jul-96	52 A	883.9
01U154	898.9	06-Aug-96	52 A	883.6
01U154	898.9	06-Sep-96	52 A	883.1
01U154	898.9	17-Oct-96	53 A	882.4
01U154	898.9	03-Dec-96	53 A	882.0
01U154	898.9	03-Mar-97	54 A	881.9
01U154	898.9	28-May-97	55 A	883.7
01U154	898.9	03-Sep-97	56 A	886.0
01U155	897.9	05-Jul-94	44 F	885.4
01U155	897.9	12-Jul-94	44 F	885.2
01U155	897.9	20-Jul-94	44 F	885.1
01U155	897.9	26-Jul-94	44 F	885.1
01U155	897.9	03-Aug-94	44 F	884.9
01U155	897.9	10-Aug-94	44 F	884.9
01U155	897.9	17-Aug-94	44 F	884.8
01U155	897.9	26-Aug-94	44 F	884.7
01U155	897.9	01-Sep-94	44 F	884.5
01U155	897.9	06-Sep-94	44 F	884.5
01U155	897.9	22-Sep-94	44 F	884.3
01U155	897.9	27-Sep-94	44 F	884.4
01U155	897.9	06-Oct-94	45 F	884.4
01U155	897.9	03-Nov-94	45 F	883.1
01U155	897.9	02-Dec-94	45 F	883.2
01U155	897.9	07-Jan-95	46 F	883.3
01U155	897.9	17-Feb-95	46 F	882.9
01U155	897.9	07-Mar-95	46 F	882.4
01U155	897.9	04-Apr-95	47 F	882.3
01U155	897.9	01-May-95	47 F	883.1
01U155	897.9	01-Jun-95	47 F	883.3
01U155	897.9	14-Jul-95	48 F	883.8
01U155	897.9	07-Aug-95	48 F	884.0
01U155	897.9	08-Sep-95	48 F	884.2
01U155	897.9	29-Nov-95	49 A	883.5
01U155	897.9	15-Dec-95	49 A	883.4
01U155	897.9	16-Jan-96	50 A	882.7
01U155	897.9	14-Feb-96	50 A	882.4
01U155	897.9	11-Mar-96	50 A	882.4
01U155	897.9	09-Apr-96	51 A	883.0
01U155	897.9	13-May-96	51 A	883.3
01U155	897.9	29-May-96	51 A	883.4
01U155	897.9	15-Jul-96	52 A	883.6
01U155	897.9	06-Aug-96	52 A	883.3
01U155	897.9	06-Sep-96	52 A	882.8
01U155	897.9	17-Oct-96	53 A	882.0
01U155	897.9	03-Dec-96	53 A	881.7
01U155	897.9	03-Mar-97	54 A	881.7
01U155	897.9	28-May-97	55 A	883.4
01U155	897.9	03-Sep-97	56 A	885.5
01U156	897.8	05-Jul-94	44 F	885.5
01U156	897.8	12-Jul-94	44 F	885.3
01U156	897.8	20-Jul-94	44 F	885.2
01U156	897.8	26-Jul-94	44 F	885.1
01U156	897.8	03-Aug-94	44 F	884.9
01U156	897.8	10-Aug-94	44 F	884.8
01U156	897.8	17-Aug-94	44 F	884.7
01U156	897.8	26-Aug-94	44 F	884.6
01U156	897.8	01-Sep-94	44 F	884.4
01U156	897.8	06-Sep-94	44 F	884.4
01U156	897.8	22-Sep-94	44 F	884.2
01U156	897.8	27-Sep-94	44 F	884.2
01U156	897.8	06-Oct-94	45 F	884.1
01U156	897.8	03-Nov-94	45 F	883.3
01U156	897.8	02-Dec-94	45 F	883.1
01U156	897.8	07-Jan-95	46 F	884.0
01U156	897.8	17-Feb-95	46 F	882.8
01U156	897.8	07-Mar-95	46 F	882.5
01U156	897.8	04-Apr-95	47 F	882.3
01U156	897.8	01-May-95	47 F	883.1
01U156	897.8	01-Jun-95	47 F	883.3
01U156	897.8	14-Jul-95	48 F	883.9
01U156	897.8	07-Aug-95	48 F	883.9
01U156	897.8	08-Sep-95	48 F	884.0
01U156	897.8	29-Nov-95	49 A	883.3
01U156	897.8	15-Dec-95	49 A	883.2
01U156	897.8	16-Jan-96	50 A	882.7
01U156	897.8	14-Feb-96	50 A	882.4
01U156	897.8	11-Mar-96	50 A	882.3
01U156	897.8	09-Apr-96	51 A	882.7
01U156	897.8	13-May-96	51 A	883.1
01U156	897.8	29-May-96	51 A	883.3
01U156	897.8	15-Jul-96	52 A	883.5
01U156	897.8	06-Aug-96	52 A	883.2
01U156	897.8	06-Sep-96	52 A	882.7
01U156	897.8	17-Oct-96	53 A	882.0
01U156	897.8	03-Dec-96	53 A	881.7
01U156	897.8	03-Mar-97	54 A	881.7
01U156	897.8	28-May-97	55 A	883.3
01U156	897.8	03-Sep-97	56 A	885.3
01U157	901.9	05-Jul-94	44 F	887.2
01U157	901.9	12-Jul-94	44 F	887.2
01U157	901.9	20-Jul-94	44 F	887.0
01U157	901.9	26-Jul-94	44 F	886.9
01U157	901.9	03-Aug-94	44 F	886.6
01U157	901.9	10-Aug-94	44 F	886.3
01U157	901.9	17-Aug-94	44 F	886.4
01U157	901.9	26-Aug-94	44 F	886.4
01U157	901.9	01-Sep-94	44 F	886.3
01U157	901.9	06-Sep-94	44 F	886.2
01U157	901.9	09-Sep-94	44 F	886.1
01U157	901.9	22-Sep-94	44 F	886.1
01U157	901.9	27-Sep-94	44 F	886.1
01U157	901.9	06-Oct-94	45 F	886.2
01U157	901.9	03-Nov-94	45 F	884.7
01U157	901.9	02-Dec-94	45 F	884.9
01U157	901.9	07-Jan-95	46 F	885.5
01U157	901.9	17-Feb-95	46 F	884.5
01U157	901.9	07-Mar-95	46 F	883.8
01U157	901.9	01-May-95	47 F	884.9
01U157	901.9	01-Jun-95	47 F	885.1
01U157	901.9	14-Jul-95	48 F	886.1
01U157	901.9	05-Sep-95	48 F	887.1
01U157	901.9	29-Nov-95	49 A	885.6
01U157	901.9	15-Dec-95	49 A	885.6
01U157	901.9	16-Jan-96	50 A	884.2
01U157	901.9	11-Mar-96	50 A	884.1
01U157	901.9	13-May-96	51 A	885.1
01U157	901.9	29-May-96	51 A	885.0
01U157	901.9	15-Jul-96	52 A	885.2
01U157	901.9	06-Sep-96	52 A	884.4
01U157	901.9	03-Dec-96	53 A	883.3
01U157	901.9	03-Mar-97	54 A	883.0
01U157	901.9	28-May-97	55 A	885.0
01U157	901.9	03-Sep-97	56 A	887.6
01U158	901.1	05-Jul-94	44 F	887.0
01U158	901.1	12-Jul-94	44 F	886.8
01U158	901.1	20-Jul-94	44 F	886.7
01U158	901.1	26-Jul-94	44 F	886.6
01U158	901.1	03-Aug-94	44 F	886.3
01U158	901.1	10-Aug-94	44 F	886.2
01U158	901.1	17-Aug-94	44 F	886.1
01U158	901.1	26-Aug-94	44 F	886.1
01U158	901.1	01-Sep-94	44 F	886.1

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U158	901.1	06-Sep-94	44 F	886.0
01U158	901.1	09-Sep-94	44 F	886.0
01U158	901.1	22-Sep-94	44 F	885.9
01U158	901.1	27-Sep-94	44 F	885.9
01U158	901.1	06-Oct-94	45 F	886.0
01U158	901.1	03-Nov-94	45 F	884.7
01U158	901.1	02-Dec-94	45 F	884.7
01U158	901.1	07-Jan-95	46 F	885.1
01U158	901.1	17-Feb-95	46 F	884.4
01U158	901.1	07-Mar-95	46 F	883.5
01U158	901.1	01-May-95	47 F	884.4
01U158	901.1	01-Jun-95	47 F	884.8
01U158	901.1	14-Jul-95	48 F	885.7
01U158	901.1	05-Sep-95	48 F	886.7
01U158	901.1	29-Nov-95	49 A	884.9
01U158	901.1	15-Dec-95	49 A	884.9
01U158	901.1	16-Jan-96	50 A	883.7
01U158	901.1	11-Mar-96	50 A	883.4
01U158	901.1	13-May-96	51 A	884.7
01U158	901.1	29-May-96	51 A	884.4
01U158	901.1	15-Jul-96	52 A	884.7
01U158	901.1	06-Sep-96	52 A	883.9
01U158	901.1	03-Dec-96	53 A	882.7
01U158	901.1	03-Mar-97	54 A	882.6
01U158	901.1	28-May-97	55 A	884.4
01U158	901.1	03-Sep-97	56 A	887.0
01U350	903.9	26-Jul-94	44 F	885.6
01U350	903.9	07-Sep-94	44 F	890.6
01U350	903.9	29-May-96	51 A	890.1
01U350	903.9	06-Sep-96	52 A	888.8
01U351	904.0	05-Jul-94	44 F	885.7
01U351	904.0	12-Jul-94	44 F	885.7
01U351	904.0	20-Jul-94	44 F	885.6
01U351	904.0	26-Jul-94	44 F	885.4
01U351	904.0	03-Aug-94	44 F	884.7
01U351	904.0	10-Aug-94	44 F	884.7
01U351	904.0	17-Aug-94	44 F	884.5
01U351	904.0	26-Aug-94	44 F	884.6
01U351	904.0	01-Sep-94	44 F	884.5
01U351	904.0	06-Sep-94	44 F	884.3
01U351	904.0	07-Sep-94	44 F	884.3
01U351	904.0	22-Sep-94	44 F	884.3
01U351	904.0	27-Sep-94	44 F	884.3
01U351	904.0	06-Oct-94	45 F	884.5
01U351	904.0	03-Nov-94	45 F	882.5
01U351	904.0	02-Dec-94	45 F	884.1
01U351	904.0	07-Jan-95	46 F	888.2
01U351	904.0	17-Feb-95	46 F	882.0
01U351	904.0	14-Mar-95	46 F	881.6
01U351	904.0	04-Apr-95	47 F	881.8
01U351	904.0	01-May-95	47 F	883.2
01U351	904.0	01-Jun-95	47 F	883.2
01U351	904.0	14-Jul-95	48 F	881.5
01U351	904.0	07-Aug-95	48 F	884.8
01U351	904.0	08-Sep-95	48 F	885.9
01U351	904.0	10-Oct-95	49 F	883.2
01U351	904.0	29-Nov-95	49 A	887.0
01U351	904.0	15-Dec-95	49 A	885.2
01U351	904.0	16-Jan-96	50 A	882.4
01U351	904.0	14-Feb-96	50 A	882.9
01U351	904.0	11-Mar-96	50 A	883.8
01U351	904.0	09-Apr-96	51 A	885.0
01U351	904.0	13-May-96	51 A	886.2
01U351	904.0	29-May-96	51 A	883.4
01U351	904.0	15-Jul-96	52 A	884.2
01U351	904.0	06-Aug-96	52 A	884.4
01U351	904.0	06-Sep-96	52 A	883.2
01U351	904.0	17-Oct-96	53 A	882.4
01U351	904.0	14-Nov-96	53 A	882.6
01U351	904.0	03-Dec-96	53 A	882.3
01U351	904.0	07-Jan-97	54 A	882.5
01U351	904.0	04-Feb-97	54 A	882.7
01U351	904.0	03-Mar-97	54 A	882.1
01U351	904.0	03-Apr-97	55 A	883.0
01U351	904.0	06-May-97	55 A	884.6
01U351	904.0	28-May-97	55 A	884.0
01U351	904.0	01-Jul-97	56 A	883.7
01U351	904.0	05-Aug-97	56 A	886.8
01U351	904.0	03-Sep-97	56 A	886.4
01U352	901.0	05-Jul-94	44 F	876.5
01U352	901.0	12-Jul-94	44 F	880.5
01U352	901.0	20-Jul-94	44 F	883.0
01U352	901.0	26-Jul-94	44 F	883.9
01U352	901.0	03-Aug-94	44 F	874.8
01U352	901.0	10-Aug-94	44 F	875.5
01U352	901.0	17-Aug-94	44 F	876.9
01U352	901.0	26-Aug-94	44 F	879.5
01U352	901.0	01-Sep-94	44 F	880.7
01U352	901.0	06-Sep-94	44 F	881.4
01U352	901.0	07-Sep-94	44 F	881.4
01U352	901.0	22-Sep-94	44 F	881.5
01U352	901.0	27-Sep-94	44 F	883.0
01U352	901.0	06-Oct-94	45 F	885.1
01U352	901.0	03-Nov-94	45 F	874.9
01U352	901.0	02-Dec-94	45 F	881.3
01U352	901.0	07-Jan-95	46 F	885.7
01U352	901.0	17-Feb-95	46 F	885.0
01U352	901.0	14-Mar-95	46 F	884.5
01U352	901.0	04-Apr-95	47 F	884.4
01U352	901.0	01-May-95	47 F	885.5
01U352	901.0	01-Jun-95	47 F	883.4
01U352	901.0	14-Jul-95	48 F	881.7
01U352	901.0	07-Aug-95	48 F	886.9
01U352	901.0	08-Sep-95	48 F	887.1
01U352	901.0	10-Oct-95	49 F	883.0
01U352	901.0	29-Nov-95	49 A	886.6
01U352	901.0	15-Dec-95	49 A	886.1
01U352	901.0	16-Jan-96	50 A	877.4
01U352	901.0	14-Feb-96	50 A	880.9
01U352	901.0	11-Mar-96	50 A	884.4
01U352	901.0	09-Apr-96	51 A	885.4
01U352	901.0	13-May-96	51 A	882.0
01U352	901.0	29-May-96	51 A	882.6
01U352	901.0	15-Jul-96	52 A	882.4
01U352	901.0	06-Aug-96	52 A	885.1
01U352	901.0	06-Sep-96	52 A	881.9
01U352	901.0	17-Oct-96	53 A	879.6
01U352	901.0	14-Nov-96	53 A	882.9
01U352	901.0	03-Dec-96	53 A	881.0
01U352	901.0	07-Jan-97	54 A	881.7
01U352	901.0	04-Feb-97	54 A	883.5
01U352	901.0	03-Mar-97	54 A	881.8
01U352	901.0	03-Apr-97	55 A	882.5
01U352	901.0	06-May-97	55 A	884.5
01U352	901.0	28-May-97	55 A	883.1
01U352	901.0	01-Jul-97	56 A	883.3
01U352	901.0	05-Aug-97	56 A	888.1
01U352	901.0	03-Sep-97	56 A	886.7
01U353	902.0	05-Jul-94	44 F	882.1
01U353	902.0	12-Jul-94	44 F	882.4
01U353	902.0	20-Jul-94	44 F	882.9
01U353	902.0	26-Jul-94	44 F	883.4
01U353	902.0	03-Aug-94	44 F	883.6
01U353	902.0	10-Aug-94	44 F	884.2
01U353	902.0	17-Aug-94	44 F	885.2
01U353	902.0	26-Aug-94	44 F	886.0
01U353	902.0	01-Sep-94	44 F	884.5
01U353	902.0	06-Sep-94	44 F	881.5
01U353	902.0	07-Sep-94	44 F	881.5
01U353	902.0	22-Sep-94	44 F	882.2
01U353	902.0	27-Sep-94	44 F	882.5
01U353	902.0	06-Oct-94	45 F	883.3
01U353	902.0	03-Nov-94	45 F	879.7
01U353	902.0	02-Dec-94	45 F	881.9

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U353	902.0	07-Jan-95	46 F	884.0
01U353	902.0	17-Feb-95	46 F	880.0
01U353	902.0	14-Mar-95	46 F	879.2
01U353	902.0	04-Apr-95	47 F	880.1
01U353	902.0	01-May-95	47 F	884.0
01U353	902.0	01-Jun-95	47 F	884.5
01U353	902.0	14-Jul-95	48 F	883.9
01U353	902.0	07-Aug-95	48 F	885.3
01U353	902.0	08-Sep-95	48 F	886.9
01U353	902.0	10-Oct-95	49 F	878.0
01U353	902.0	29-Nov-95	49 A	881.5
01U353	902.0	15-Dec-95	49 A	882.0
01U353	902.0	16-Jan-96	50 A	880.5
01U353	902.0	14-Feb-96	50 A	880.4
01U353	902.0	11-Mar-96	50 A	880.6
01U353	902.0	09-Apr-96	51 A	881.9
01U353	902.0	13-May-96	51 A	881.8
01U353	902.0	29-May-96	51 A	881.7
01U353	902.0	15-Jul-96	52 A	882.3
01U353	902.0	06-Aug-96	52 A	882.4
01U353	902.0	06-Sep-96	52 A	881.4
01U353	902.0	17-Oct-96	53 A	880.9
01U353	902.0	14-Nov-96	53 A	881.1
01U353	902.0	03-Dec-96	53 A	880.6
01U353	902.0	07-Jan-97	54 A	880.9
01U353	902.0	04-Feb-97	54 A	881.0
01U353	902.0	03-Mar-97	54 A	880.5
01U353	902.0	03-Apr-97	55 A	881.4
01U353	902.0	06-May-97	55 A	882.5
01U353	902.0	28-May-97	55 A	882.4
01U353	902.0	01-Jul-97	56 A	882.4
01U353	902.0	05-Aug-97	56 A	885.2
01U353	902.0	03-Sep-97	56 A	885.3
01U354	903.8	05-Jul-94	44 F	885.5
01U354	903.8	12-Jul-94	44 F	885.6
01U354	903.8	20-Jul-94	44 F	885.6
01U354	903.8	26-Jul-94	44 F	885.5
01U354	903.8	03-Aug-94	44 F	885.1
01U354	903.8	10-Aug-94	44 F	884.8
01U354	903.8	17-Aug-94	44 F	885.0
01U354	903.8	26-Aug-94	44 F	885.2
01U354	903.8	01-Sep-94	44 F	884.7
01U354	903.8	06-Sep-94	44 F	884.8
01U354	903.8	07-Sep-94	44 F	884.9
01U354	903.8	22-Sep-94	44 F	885.0
01U354	903.8	27-Sep-94	44 F	885.2
01U354	903.8	06-Oct-94	45 F	885.4
01U354	903.8	03-Nov-94	45 F	881.9
01U354	903.8	02-Dec-94	45 F	882.6
01U354	903.8	07-Jan-95	46 F	884.3
01U354	903.8	17-Feb-95	46 F	881.8
01U354	903.8	14-Mar-95	46 F	881.8
01U354	903.8	04-Apr-95	47 F	882.3
01U354	903.8	01-May-95	47 F	884.0
01U354	903.8	01-Jun-95	47 F	884.6
01U354	903.8	14-Jul-95	48 F	882.2
01U354	903.8	07-Aug-95	48 F	886.2
01U354	903.8	08-Sep-95	48 F	887.0
01U354	903.8	10-Oct-95	49 F	882.3
01U354	903.8	29-Nov-95	49 A	884.6
01U354	903.8	15-Dec-95	49 A	884.9
01U354	903.8	16-Jan-96	50 A	882.4
01U354	903.8	14-Feb-96	50 A	882.6
01U354	903.8	11-Mar-96	50 A	883.1
01U354	903.8	09-Apr-96	51 A	884.0
01U354	903.8	13-May-96	51 A	884.1
01U354	903.8	29-May-96	51 A	884.1
01U354	903.8	15-Jul-96	52 A	884.2
01U354	903.8	06-Aug-96	52 A	884.3
01U354	903.8	06-Sep-96	52 A	883.5
01U354	903.8	17-Oct-96	53 A	882.7
01U354	903.8	14-Nov-96	53 A	882.7
01U354	903.8	03-Dec-96	53 A	882.3
01U354	903.8	07-Jan-97	54 A	882.7
01U354	903.8	04-Feb-97	54 A	882.3
01U354	903.8	03-Mar-97	54 A	882.2
01U354	903.8	03-Apr-97	55 A	883.2
01U354	903.8	06-May-97	55 A	884.5
01U354	903.8	28-May-97	55 A	884.0
01U354	903.8	01-Jul-97	56 A	883.6
01U354	903.8	05-Aug-97	56 A	886.9
01U354	903.8	03-Sep-97	56 A	886.8
01U355	899.9	05-Jul-94	44 F	871.2
01U355	899.9	12-Jul-94	44 F	872.0
01U355	899.9	20-Jul-94	44 F	872.4
01U355	899.9	26-Jul-94	44 F	872.4
01U355	899.9	03-Aug-94	44 F	873.5
01U355	899.9	10-Aug-94	44 F	867.0
01U355	899.9	17-Aug-94	44 F	870.1
01U355	899.9	26-Aug-94	44 F	872.4
01U355	899.9	01-Sep-94	44 F	880.1
01U355	899.9	06-Sep-94	44 F	881.2
01U355	899.9	08-Sep-94	44 F	880.3
01U355	899.9	22-Sep-94	44 F	881.4
01U355	899.9	27-Sep-94	44 F	882.0
01U355	899.9	06-Oct-94	45 F	883.2
01U355	899.9	03-Nov-94	45 F	876.5
01U355	899.9	02-Dec-94	45 F	878.2
01U355	899.9	07-Jan-95	46 F	882.2
01U355	899.9	17-Feb-95	46 F	871.1
01U355	899.9	14-Mar-95	46 F	872.7
01U355	899.9	04-Apr-95	47 F	871.2
01U355	899.9	01-Jun-95	47 F	873.3
01U355	899.9	14-Jul-95	48 F	879.4
01U355	899.9	07-Aug-95	48 F	884.3
01U355	899.9	08-Sep-95	48 F	886.3
01U355	899.9	10-Oct-95	49 F	868.6
01U355	899.9	29-Nov-95	49 A	885.0
01U355	899.9	15-Dec-95	49 A	880.1
01U355	899.9	16-Jan-96	50 A	872.0
01U355	899.9	14-Feb-96	50 A	872.9
01U355	899.9	11-Mar-96	50 A	878.6
01U355	899.9	09-Apr-96	51 A	883.1
01U355	899.9	13-May-96	51 A	879.5
01U355	899.9	29-May-96	51 A	879.6
01U355	899.9	15-Jul-96	52 A	878.8
01U355	899.9	06-Aug-96	52 A	879.7
01U355	899.9	06-Sep-96	52 A	878.9
01U355	899.9	17-Oct-96	53 A	878.2
01U355	899.9	14-Nov-96	53 A	878.9
01U355	899.9	03-Dec-96	53 A	878.2
01U355	899.9	07-Jan-97	54 A	878.8
01U355	899.9	04-Feb-97	54 A	878.0
01U355	899.9	03-Mar-97	54 A	877.5
01U355	899.9	03-Apr-97	55 A	877.9
01U355	899.9	06-May-97	55 A	879.0
01U355	899.9	28-May-97	55 A	879.3
01U355	899.9	01-Jul-97	56 A	878.9
01U355	899.9	05-Aug-97	56 A	881.2
01U355	899.9	03-Sep-97	56 A	882.4
01U356	899.5	05-Jul-94	44 F	875.7
01U356	899.5	12-Jul-94	44 F	875.9
01U356	899.5	20-Jul-94	44 F	876.7
01U356	899.5	26-Jul-94	44 F	873.4
01U356	899.5	03-Aug-94	44 F	878.4
01U356	899.5	10-Aug-94	44 F	879.1
01U356	899.5	17-Aug-94	44 F	879.9
01U356	899.5	26-Aug-94	44 F	880.5
01U356	899.5	01-Sep-94	44 F	879.9
01U356	899.5	06-Sep-94	44 F	880.7
01U356	899.5	08-Sep-94	44 F	880.8
01U356	899.5	22-Sep-94	44 F	883.0
01U356	899.5	27-Sep-94	44 F	883.8
01U356	899.5	06-Oct-94	45 F	884.9
01U356	899.5	03-Nov-94	45 F	879.7

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U356	899.5	02-Dec-94	45 F	883.4
01U356	899.5	07-Jan-95	46 F	884.5
01U356	899.5	17-Feb-95	46 F	857.8
01U356	899.5	14-Mar-95	46 F	876.3
01U356	899.5	04-Apr-95	47 F	875.9
01U356	899.5	01-May-95	47 F	880.8
01U356	899.5	01-Jun-95	47 F	883.3
01U356	899.5	14-Jul-95	48 F	877.2
01U356	899.5	07-Aug-95	48 F	880.5
01U356	899.5	08-Sep-95	48 F	884.9
01U356	899.5	10-Oct-95	49 F	873.4
01U356	899.5	29-Nov-95	49 A	884.4
01U356	899.5	15-Dec-95	49 A	882.6
01U356	899.5	16-Jan-96	50 A	872.9
01U356	899.5	14-Feb-96	50 A	878.1
01U356	899.5	11-Mar-96	50 A	880.8
01U356	899.5	09-Apr-96	51 A	883.4
01U356	899.5	13-May-96	51 A	884.4
01U356	899.5	29-May-96	51 A	876.9
01U356	899.5	15-Jul-96	52 A	876.7
01U356	899.5	06-Aug-96	52 A	878.3
01U356	899.5	06-Sep-96	52 A	878.7
01U356	899.5	17-Oct-96	53 A	876.5
01U356	899.5	14-Nov-96	53 A	878.0
01U356	899.5	03-Dec-96	53 A	876.7
01U356	899.5	07-Jan-97	54 A	876.6
01U356	899.5	04-Feb-97	54 A	876.3
01U356	899.5	03-Mar-97	54 A	875.2
01U356	899.5	03-Apr-97	55 A	876.4
01U356	899.5	06-May-97	55 A	879.2
01U356	899.5	28-May-97	55 A	877.1
01U356	899.5	01-Jul-97	56 A	876.4
01U356	899.5	05-Aug-97	56 A	880.7
01U356	899.5	03-Sep-97	56 A	880.1
01U357	899.1	05-Jul-94	44 F	874.9
01U357	899.1	12-Jul-94	44 F	876.6
01U357	899.1	20-Jul-94	44 F	877.4
01U357	899.1	26-Jul-94	44 F	878.1
01U357	899.1	03-Aug-94	44 F	878.9
01U357	899.1	10-Aug-94	44 F	880.1
01U357	899.1	17-Aug-94	44 F	881.3
01U357	899.1	26-Aug-94	44 F	882.4
01U357	899.1	01-Sep-94	44 F	878.9
01U357	899.1	06-Sep-94	44 F	879.7
01U357	899.1	08-Sep-94	44 F	879.8
01U357	899.1	22-Sep-94	44 F	881.3
01U357	899.1	27-Sep-94	44 F	882.2
01U357	899.1	06-Oct-94	45 F	885.5
01U357	899.1	03-Nov-94	45 F	871.7
01U357	899.1	02-Dec-94	45 F	878.9
01U357	899.1	07-Jan-95	46 F	883.3
01U357	899.1	17-Feb-95	46 F	869.5
01U357	899.1	07-Mar-95	46 F	869.4
01U357	899.1	04-Apr-95	47 F	876.5
01U357	899.1	01-May-95	47 F	876.2
01U357	899.1	01-Jun-95	47 F	876.4
01U357	899.1	14-Jul-95	48 F	875.1
01U357	899.1	07-Aug-95	48 F	877.6
01U357	899.1	08-Sep-95	48 F	881.0
01U357	899.1	10-Oct-95	49 F	872.6
01U357	899.1	29-Nov-95	49 A	877.9
01U357	899.1	15-Dec-95	49 A	878.6
01U357	899.1	16-Jan-96	50 A	870.4
01U357	899.1	14-Feb-96	50 A	869.4
01U357	899.1	11-Mar-96	50 A	870.8
01U357	899.1	09-Apr-96	51 A	881.0
01U357	899.1	13-May-96	51 A	876.2
01U357	899.1	29-May-96	51 A	877.7
01U357	899.1	15-Jul-96	52 A	877.2
01U357	899.1	06-Aug-96	52 A	874.0
01U357	899.1	06-Sep-96	52 A	875.7
01U357	899.1	17-Oct-96	53 A	871.4
01U357	899.1	14-Nov-96	53 A	874.3
01U357	899.1	03-Dec-96	53 A	869.0
01U357	899.1	07-Jan-97	54 A	868.9
01U357	899.1	04-Feb-97	54 A	869.0
01U357	899.1	03-Mar-97	54 A	874.2
01U357	899.1	03-Apr-97	55 A	875.2
01U357	899.1	06-May-97	55 A	877.4
01U357	899.1	28-May-97	55 A	877.9
01U357	899.1	01-Jul-97	56 A	876.4
01U357	899.1	05-Aug-97	56 A	877.5
01U357	899.1	03-Sep-97	56 A	882.0
01U358	898.3	05-Jul-94	44 F	879.2
01U358	898.3	12-Jul-94	44 F	879.3
01U358	898.3	20-Jul-94	44 F	880.1
01U358	898.3	26-Jul-94	44 F	880.4
01U358	898.3	03-Aug-94	44 F	880.5
01U358	898.3	10-Aug-94	44 F	880.9
01U358	898.3	17-Aug-94	44 F	881.1
01U358	898.3	26-Aug-94	44 F	881.1
01U358	898.3	01-Sep-94	44 F	880.7
01U358	898.3	06-Sep-94	44 F	881.2
01U358	898.3	08-Sep-94	44 F	881.3
01U358	898.3	22-Sep-94	44 F	881.4
01U358	898.3	27-Sep-94	44 F	881.7
01U358	898.3	06-Oct-94	45 F	884.2
01U358	898.3	03-Nov-94	45 F	874.0
01U358	898.3	02-Dec-94	45 F	877.1
01U358	898.3	07-Jan-95	46 F	878.0
01U358	898.3	17-Feb-95	46 F	879.4
01U358	898.3	07-Mar-95	46 F	879.6
01U358	898.3	04-Apr-95	47 F	880.0
01U358	898.3	01-May-95	47 F	882.2
01U358	898.3	01-Jun-95	47 F	881.0
01U358	898.3	14-Jul-95	48 F	877.3
01U358	898.3	07-Aug-95	48 F	877.7
01U358	898.3	08-Sep-95	48 F	877.7
01U358	898.3	10-Oct-95	49 F	875.7
01U358	898.3	29-Nov-95	49 A	878.6
01U358	898.3	15-Dec-95	49 A	878.9
01U358	898.3	16-Jan-96	50 A	872.0
01U358	898.3	14-Feb-96	50 A	876.7
01U358	898.3	11-Mar-96	50 A	878.2
01U358	898.3	09-Apr-96	51 A	880.3
01U358	898.3	13-May-96	51 A	877.0
01U358	898.3	29-May-96	51 A	879.0
01U358	898.3	15-Jul-96	52 A	876.5
01U358	898.3	06-Aug-96	52 A	878.7
01U358	898.3	06-Sep-96	52 A	877.7
01U358	898.3	17-Oct-96	53 A	876.6
01U358	898.3	14-Nov-96	53 A	877.1
01U358	898.3	03-Dec-96	53 A	877.3
01U358	898.3	07-Jan-97	54 A	878.0
01U358	898.3	04-Feb-97	54 A	868.8
01U358	898.3	03-Mar-97	54 A	876.8
01U358	898.3	03-Apr-97	55 A	877.4
01U358	898.3	06-May-97	55 A	878.9
01U358	898.3	28-May-97	55 A	878.1
01U358	898.3	01-Jul-97	56 A	877.8
01U358	898.3	05-Aug-97	56 A	880.2
01U358	898.3	03-Sep-97	56 A	881.2
01U524	909.7	08-Mar-95	46 F	903.2
01U524	909.7	29-May-96	51 A	906.4
01U525	942.2	08-Mar-95	46 F	934.2
01U525	942.2	29-May-96	51 A	935.6
01U526	938.8	10-Mar-95	46 F	928.9
01U526	938.8	29-May-96	51 A	931.0
01U527	912.2	08-Mar-95	46 F	903.9
01U527	912.2	29-May-96	51 A	908.2
01U601	889.2	06-Sep-94	44 A	883.5

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U601	889.2	06-Mar-95	46 A	882.9
01U601	889.2	05-Sep-95	48 A	883.8
01U601	889.2	03-Jun-96	51 A	882.8
01U601	889.2	03-Sep-96	52 A	882.1
01U601	889.2	02-Dec-96	53 A	884.0
01U601	889.2	02-Jun-97	55 A	883.6
01U602	889.7	06-Sep-94	44 A	883.1
01U602	889.7	06-Mar-95	46 A	882.5
01U602	889.7	05-Sep-95	48 A	883.2
01U602	889.7	03-Jun-96	51 A	886.0
01U602	889.7	03-Sep-96	52 A	885.4
01U602	889.7	02-Dec-96	53 A	883.1
01U602	889.7	02-Jun-97	55 A	882.9
01U603	884.8	06-Sep-94	44 A	876.6
01U603	884.8	06-Mar-95	46 A	876.1
01U603	884.8	05-Sep-95	48 A	877.5
01U603	884.8	03-Jun-96	51 A	878.4
01U603	884.8	03-Sep-96	52 A	876.0
01U603	884.8	02-Dec-96	53 A	876.8
01U603	884.8	02-Jun-97	55 A	876.9
01U604	885.5	06-Sep-94	44 A	875.9
01U604	885.5	06-Mar-95	46 A	876.6
01U604	885.5	05-Sep-95	48 A	876.9
01U604	885.5	03-Jun-96	51 A	876.5
01U604	885.5	03-Sep-96	52 A	874.5
01U604	885.5	02-Dec-96	53 A	876.3
01U604	885.5	02-Jun-97	55 A	876.2
01U605	884.7	06-Sep-94	44 A	876.7
01U605	884.7	06-Mar-95	46 A	DRY
01U605	884.7	05-Sep-95	48 A	877.8
01U605	884.7	03-Jun-96	51 A	877.3
01U605	884.7	03-Sep-96	52 A	875.5
01U605	884.7	02-Dec-96	53 A	877.2
01U605	884.7	02-Jun-97	55 A	877.4
01U607	888.5	06-Sep-94	44 A	881.9
01U607	888.5	06-Mar-95	46 A	882.3
01U607	888.5	05-Sep-95	48 A	883.6
01U607	888.5	03-Jun-96	51 A	884.6
01U607	888.5	03-Sep-96	52 A	879.3
01U607	888.5	02-Dec-96	53 A	885.5
01U607	888.5	02-Jun-97	55 A	884.0
01U608	889.7	06-Sep-94	44 A	882.8
01U608	889.7	06-Mar-95	46 A	882.2
01U608	889.7	05-Sep-95	48 A	883.4
01U608	889.7	03-Jun-96	51 A	886.2
01U608	889.7	03-Sep-96	52 A	885.4
01U608	889.7	02-Dec-96	53 A	883.3
01U608	889.7	02-Jun-97	55 A	883.0
01U609	889.7	06-Sep-94	44 A	883.1
01U609	889.7	06-Mar-95	46 A	882.4
01U609	889.7	05-Sep-95	48 A	883.3
01U609	889.7	03-Jun-96	51 A	886.1
01U609	889.7	03-Sep-96	52 A	885.5
01U609	889.7	02-Dec-96	53 A	883.1
01U609	889.7	02-Jun-97	55 A	882.9
01U611	889.7	06-Sep-94	44 A	883.2
01U611	889.7	06-Mar-95	46 A	882.8
01U611	889.7	05-Sep-95	48 A	883.5
01U611	889.7	03-Jun-96	51 A	886.4
01U611	889.7	03-Sep-96	52 A	885.9
01U611	889.7	02-Dec-96	53 A	883.6
01U611	889.7	02-Jun-97	55 A	883.3
01U612	885.9	06-Sep-94	44 A	876.9
01U612	885.9	06-Mar-95	46 A	DRY
01U612	885.9	05-Sep-95	48 A	877.6
01U612	885.9	03-Jun-96	51 A	879.4
01U612	885.9	03-Sep-96	52 A	877.8
01U612	885.9	02-Dec-96	53 A	877.4
01U612	885.9	02-Jun-97	55 A	876.9
01U613	888.8	06-Sep-94	44 A	883.0
01U613	888.8	06-Mar-95	46 A	882.0
01U613	888.8	05-Sep-95	48 A	883.4
01U613	888.8	03-Jun-96	51 A	882.9
01U613	888.8	03-Sep-96	52 A	881.2
01U613	888.8	02-Dec-96	53 A	884.3
01U613	888.8	02-Jun-97	55 A	883.1
01U615	885.9	06-Sep-94	44 A	875.4
01U615	885.9	06-Mar-95	46 A	874.8
01U615	885.9	05-Sep-95	48 A	876.7
01U615	885.9	03-Jun-96	51 A	876.4
01U615	885.9	03-Sep-96	52 A	874.8
01U615	885.9	02-Dec-96	53 A	876.2
01U615	885.9	02-Jun-97	55 A	876.1
01U616	888.8	06-Sep-94	44 A	877.9
01U616	888.8	06-Mar-95	46 A	876.9
01U616	888.8	05-Sep-95	48 A	879.1
01U616	888.8	03-Jun-96	51 A	880.5
01U616	888.8	03-Sep-96	52 A	878.7
01U616	888.8	02-Dec-96	53 A	878.4
01U616	888.8	02-Jun-97	55 A	878.6
01U617	885.2	06-Sep-94	44 A	876.0
01U617	885.2	06-Mar-95	46 A	875.2
01U617	885.2	05-Sep-95	48 A	877.3
01U617	885.2	03-Jun-96	51 A	877.3
01U617	885.2	03-Sep-96	52 A	875.7
01U617	885.2	02-Dec-96	53 A	876.6
01U617	885.2	02-Jun-97	55 A	876.7
01U618	888.8	06-Sep-94	44 A	876.9
01U618	888.8	06-Mar-95	46 A	878.8
01U618	888.8	05-Sep-95	48 A	881.2
01U618	888.8	03-Jun-96	51 A	879.5
01U618	888.8	03-Sep-96	52 A	877.8
01U618	888.8	02-Dec-96	53 A	880.7
01U618	888.8	02-Jun-97	55 A	880.6
01U619	889.1	06-Sep-94	44 A	882.5
01U619	889.1	06-Mar-95	46 A	881.2
01U619	889.1	05-Sep-95	48 A	883.1
01U619	889.1	03-Jun-96	51 A	883.1
01U619	889.1	03-Sep-96	52 A	881.9
01U619	889.1	02-Dec-96	53 A	883.2
01U619	889.1	02-Jun-97	55 A	882.7
01U620	887.1	06-Sep-94	44 A	878.3
01U620	887.1	06-Mar-95	46 A	874.3
01U620	887.1	05-Sep-95	48 A	876.9
01U620	887.1	03-Jun-96	51 A	879.6
01U620	887.1	03-Sep-96	52 A	877.9
01U620	887.1	02-Dec-96	53 A	876.3
01U620	887.1	02-Jun-97	55 A	876.2
01U621	884.5	06-Sep-94	44 A	876.9
01U621	884.5	06-Mar-95	46 A	875.9
01U621	884.5	05-Sep-95	48 A	878.3
01U621	884.5	03-Jun-96	51 A	878.7
01U621	884.5	03-Sep-96	52 A	877.1
01U621	884.5	02-Dec-96	53 A	877.6
01U621	884.5	02-Jun-97	55 A	877.6
01U622	889.7	06-Sep-94	44 A	Obstructed
01U623	889.7	06-Sep-94	44 A	Obstructed
01U624A	886.6	06-Sep-94	44 A	DRY

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U624A	886.6	06-Mar-95	46 A	DRY
01U624A	886.6	05-Sep-95	48 A	878.2
01U624A	886.6	03-Jun-96	51 A	877.5
01U624A	886.6	03-Sep-96	52 A	DRY
01U624A	886.6	02-Dec-96	53 A	877.6
01U624A	886.6	02-Jun-97	55 A	877.5
01U624B	886.6	06-Sep-94	44 A	876.8
01U624B	886.6	06-Mar-95	46 A	875.9
01U624B	886.6	05-Sep-95	48 A	878.2
01U624B	886.6	03-Jun-96	51 A	877.5
01U624B	886.6	03-Sep-96	52 A	875.8
01U624B	886.6	02-Dec-96	53 A	877.6
01U624B	886.6	02-Jun-97	55 A	877.5
01U624C	886.6	06-Sep-94	44 A	876.8
01U624C	886.6	06-Mar-95	46 A	876.0
01U624C	886.6	05-Sep-95	48 A	878.2
01U624C	886.6	03-Jun-96	51 A	877.5
01U624C	886.6	03-Sep-96	52 A	875.8
01U624C	886.6	02-Dec-96	53 A	877.6
01U624C	886.6	02-Jun-97	55 A	877.6
01U624D	886.6	06-Sep-94	44 A	876.8
01U624D	886.6	06-Mar-95	46 A	875.9
01U624D	886.6	05-Sep-95	48 A	878.2
01U624D	886.6	03-Jun-96	51 A	877.5
01U624D	886.6	03-Sep-96	52 A	875.8
01U624D	886.6	02-Dec-96	53 A	877.6
01U624D	886.6	02-Jun-97	55 A	877.5
01U625A	885.5	06-Sep-94	44 A	876.0
01U625A	885.5	06-Mar-95	46 A	875.2
01U625A	885.5	05-Sep-95	48 A	877.4
01U625A	885.5	03-Jun-96	51 A	878.4
01U625A	885.5	03-Sep-96	52 A	876.8
01U625A	885.5	02-Dec-96	53 A	876.8
01U625A	885.5	02-Jun-97	55 A	876.8
01U625B	885.5	06-Sep-94	44 A	876.0
01U625B	885.5	06-Mar-95	46 A	875.2
01U625B	885.5	05-Sep-95	48 A	877.4
01U625B	885.5	03-Jun-96	51 A	878.4
01U625B	885.5	03-Sep-96	52 A	876.8
01U625B	885.5	02-Dec-96	53 A	876.8
01U625B	885.5	02-Jun-97	55 A	876.8
01U625C	885.5	06-Sep-94	44 A	876.0
01U625C	885.5	06-Mar-95	46 A	875.2
01U625C	885.5	05-Sep-95	48 A	877.4
01U625C	885.5	03-Jun-96	51 A	878.4
01U625C	885.5	03-Sep-96	52 A	876.8
01U625C	885.5	02-Dec-96	53 A	876.8
01U625C	885.5	02-Jun-97	55 A	876.8
01U625D	885.5	06-Sep-94	44 A	876.0
01U625D	885.5	06-Mar-95	46 A	875.2
01U625D	885.5	05-Sep-95	48 A	877.4
01U625D	885.5	03-Jun-96	51 A	878.4
01U625D	885.5	03-Sep-96	52 A	876.8
01U625D	885.5	02-Dec-96	53 A	876.8
01U625D	885.5	02-Jun-97	55 A	876.8
01U626A	885.3	06-Sep-94	44 A	876.0
01U626A	885.3	06-Mar-95	46 A	875.9
01U626A	885.3	05-Sep-95	48 A	877.3
01U626A	885.3	03-Jun-96	51 A	878.3
01U626A	885.3	03-Sep-96	52 A	876.4
01U626A	885.3	02-Dec-96	53 A	876.5
01U626A	885.3	02-Jun-97	55 A	876.8
01U626B	885.3	06-Sep-94	44 A	875.6
01U626B	885.3	06-Mar-95	46 A	875.0
01U626B	885.3	05-Sep-95	48 A	877.1
01U626B	885.3	03-Jun-96	51 A	877.8
01U626B	885.3	03-Sep-96	52 A	876.2
01U626B	885.3	02-Dec-96	53 A	876.5
01U626B	885.3	02-Jun-97	55 A	876.5
01U626C	885.3	06-Sep-94	44 A	875.7
01U626C	885.3	06-Mar-95	46 A	875.0
01U626C	885.3	05-Sep-95	48 A	877.1
01U626C	885.3	03-Jun-96	51 A	877.9
01U626C	885.3	03-Sep-96	52 A	876.3
01U626C	885.3	02-Dec-96	53 A	876.6
01U626C	885.3	02-Jun-97	55 A	876.5
01U626D	885.3	06-Sep-94	44 A	875.7
01U626D	885.3	06-Mar-95	46 A	875.1
01U626D	885.3	05-Sep-95	48 A	877.2
01U626D	885.3	03-Jun-96	51 A	877.9
01U626D	885.3	03-Sep-96	52 A	876.4
01U626D	885.3	02-Dec-96	53 A	876.6
01U626D	885.3	02-Jun-97	55 A	876.5
01U627A	884.9	06-Sep-94	44 A	877.1
01U627A	884.9	06-Mar-95	46 A	877.2
01U627A	884.9	05-Sep-95	48 A	878.1
01U627A	884.9	03-Jun-96	51 A	879.5
01U627A	884.9	03-Sep-96	52 A	877.4
01U627A	884.9	02-Dec-96	53 A	877.2
01U627A	884.9	02-Jun-97	55 A	877.6
01U627B	884.9	06-Sep-94	44 A	875.9
01U627B	884.9	06-Mar-95	46 A	875.4
01U627B	884.9	05-Sep-95	48 A	877.3
01U627B	884.9	03-Jun-96	51 A	878.1
01U627B	884.9	03-Sep-96	52 A	876.6
01U627B	884.9	02-Dec-96	53 A	876.7
01U627B	884.9	02-Jun-97	55 A	876.7
01U627C	884.9	06-Sep-94	44 A	875.8
01U627C	884.9	06-Mar-95	46 A	875.2
01U627C	884.9	05-Sep-95	48 A	877.3
01U627C	884.9	03-Jun-96	51 A	878.0
01U627C	884.9	03-Sep-96	52 A	876.5
01U627C	884.9	02-Dec-96	53 A	876.7
01U627C	884.9	02-Jun-97	55 A	876.6
01U627D	884.9	06-Sep-94	44 A	875.9
01U627D	884.9	06-Mar-95	46 A	875.2
01U627D	884.9	05-Sep-95	48 A	877.3
01U627D	884.9	03-Jun-96	51 A	878.0
01U627D	884.9	03-Sep-96	52 A	876.5
01U627D	884.9	02-Dec-96	53 A	876.7
01U627D	884.9	02-Jun-97	55 A	876.6
01U628A	877.8	06-Sep-94	44 A	876.8
01U628A	877.8	06-Mar-95	46 A	865.7
01U628A	877.8	05-Sep-95	48 A	868.0
01U628A	877.8	03-Jun-96	51 A	870.6
01U628A	877.8	03-Sep-96	52 A	868.9
01U628A	877.8	02-Dec-96	53 A	867.1
01U628A	877.8	02-Jun-97	55 A	867.4
01U628B	877.8	06-Sep-94	44 A	876.5
01U628B	877.8	06-Mar-95	46 A	865.6
01U628B	877.8	05-Sep-95	48 A	867.8
01U628B	877.8	03-Jun-96	51 A	870.3
01U628B	877.8	03-Sep-96	52 A	868.7
01U628B	877.8	02-Dec-96	53 A	867.0
01U628B	877.8	02-Jun-97	55 A	867.2
01U628C	877.8	06-Sep-94	44 A	876.2
01U628C	877.8	06-Mar-95	46 A	865.4
01U628C	877.8	05-Sep-95	48 A	867.5
01U628C	877.8	03-Jun-96	51 A	870.0
01U628C	877.8	03-Sep-96	52 A	868.4

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U628C	877.8	02-Dec-96	53 A	866.8
01U628C	877.8	02-Jun-97	55 A	866.8
01U628D	877.8	06-Sep-94	44 A	876.2
01U628D	877.8	06-Mar-95	46 A	865.4
01U628D	877.8	05-Sep-95	48 A	867.5
01U628D	877.8	03-Jun-96	51 A	870.0
01U628D	877.8	03-Sep-96	52 A	868.4
01U628D	877.8	02-Dec-96	53 A	866.8
01U628D	877.8	02-Jun-97	55 A	866.8
01U636	953.8	02-Sep-94	44 A	939.9
01U636	953.8	09-Mar-95	46 A	DRY
01U636	953.8	07-Sep-95	48 A	941.7
01U636	953.8	28-May-96	51 A	943.6
01U636	953.8	05-Sep-96	52 A	935.9
01U636	953.8	02-Dec-96	53 A	943.4
01U636	953.8	02-Jun-97	55 A	941.1
01U639	955.9	02-Sep-94	44 A	DRY
01U639	955.9	09-Mar-95	46 A	DRY
01U639	955.9	07-Sep-95	48 A	DRY
01U639	955.9	28-May-96	51 A	DRY
01U639	955.9	05-Sep-96	52 A	DRY
01U639	955.9	02-Dec-96	53 A	952.1
01U639	955.9	02-Jun-97	55 A	DRY
01U640	958.0	02-Sep-94	44 A	948.1
01U640	958.0	09-Mar-95	46 A	DRY
01U640	958.0	07-Sep-95	48 A	948.1
01U640	958.0	28-May-96	51 A	951.1
01U640	958.0	05-Sep-96	52 A	946.5
01U640	958.0	02-Dec-96	53 A	950.6
01U640	958.0	02-Jun-97	55 A	949.3
01U901	901.5	05-Jul-94	44 F	884.9
01U901	901.5	12-Jul-94	44 F	884.8
01U901	901.5	20-Jul-94	44 F	884.6
01U901	901.5	26-Jul-94	44 F	884.5
01U901	901.5	03-Aug-94	44 F	884.3
01U901	901.5	10-Aug-94	44 F	884.2
01U901	901.5	17-Aug-94	44 F	884.1
01U901	901.5	26-Aug-94	44 F	883.9
01U901	901.5	01-Sep-94	44 F	883.8
01U901	901.5	06-Sep-94	44 F	883.7
01U901	901.5	12-Sep-94	44 F	883.6
01U901	901.5	22-Sep-94	44 F	883.5
01U901	901.5	27-Sep-94	44 F	883.5
01U901	901.5	06-Oct-94	45 F	883.4
01U901	901.5	03-Nov-94	45 F	883.0
01U901	901.5	02-Dec-94	45 F	882.8
01U901	901.5	07-Jan-95	46 F	882.5
01U901	901.5	17-Feb-95	46 F	882.3
01U901	901.5	07-Mar-95	46 F	882.1
01U901	901.5	04-Apr-95	47 F	881.9
01U901	901.5	01-May-95	47 F	882.2
01U901	901.5	01-Jun-95	47 F	882.7
01U901	901.5	12-Jul-95	48 F	883.5
01U901	901.5	08-Aug-95	48 F	883.4
01U901	901.5	07-Sep-95	48 F	883.4
01U901	901.5	10-Oct-95	49 F	882.8
01U901	901.5	29-Nov-95	49 A	882.9
01U901	901.5	15-Dec-95	49 A	882.7
01U901	901.5	16-Jan-96	50 A	882.5
01U901	901.5	14-Feb-96	50 A	882.1
01U901	901.5	11-Mar-96	50 A	881.9
01U901	901.5	09-Apr-96	51 A	882.2
01U901	901.5	13-May-96	51 A	882.6
01U901	901.5	29-May-96	51 A	882.9
01U901	901.5	15-Jul-96	52 A	883.1
01U901	901.5	06-Aug-96	52 A	882.8
01U901	901.5	06-Sep-96	52 A	882.2
01U901	901.5	17-Oct-96	53 A	881.5
01U901	901.5	03-Dec-96	53 A	881.4
01U901	901.5	03-Mar-97	54 A	881.3
01U901	901.5	28-May-97	55 A	882.9
01U901	901.5	03-Sep-97	56 A	884.7
01U902	901.3	05-Jul-94	44 F	886.8
01U902	901.3	12-Jul-94	44 F	886.6
01U902	901.3	20-Jul-94	44 F	886.4
01U902	901.3	26-Jul-94	44 F	886.3
01U902	901.3	03-Aug-94	44 F	886.1
01U902	901.3	10-Aug-94	44 F	886.0
01U902	901.3	17-Aug-94	44 F	885.9
01U902	901.3	26-Aug-94	44 F	885.8
01U902	901.3	01-Sep-94	44 F	885.8
01U902	901.3	06-Sep-94	44 F	885.7
01U902	901.3	12-Sep-94	44 F	885.8
01U902	901.3	22-Sep-94	44 F	885.6
01U902	901.3	27-Sep-94	44 F	885.6
01U902	901.3	06-Oct-94	45 F	885.6
01U902	901.3	03-Nov-94	45 F	884.8
01U902	901.3	02-Dec-94	45 F	884.6
01U902	901.3	07-Jan-95	46 F	884.7
01U902	901.3	17-Feb-95	46 F	884.5
01U902	901.3	07-Mar-95	46 F	884.1
01U902	901.3	04-Apr-95	47 F	883.2
01U902	901.3	01-May-95	47 F	884.1
01U902	901.3	01-Jun-95	47 F	884.4
01U902	901.3	12-Jul-95	48 F	885.2
01U902	901.3	08-Aug-95	48 F	885.6
01U902	901.3	07-Sep-95	48 F	885.9
01U902	901.3	10-Oct-95	49 F	884.2
01U902	901.3	29-Nov-95	49 A	884.8
01U902	901.3	15-Dec-95	49 A	884.8
01U902	901.3	16-Jan-96	50 A	884.0
01U902	901.3	14-Feb-96	50 A	883.5
01U902	901.3	11-Mar-96	50 A	884.1
01U902	901.3	09-Apr-96	51 A	884.2
01U902	901.3	13-May-96	51 A	884.7
01U902	901.3	29-May-96	51 A	884.5
01U902	901.3	15-Jul-96	52 A	884.8
01U902	901.3	06-Aug-96	52 A	884.6
01U902	901.3	06-Sep-96	52 A	884.0
01U902	901.3	17-Oct-96	53 A	883.3
01U902	901.3	02-Dec-96	53 A	883.0
01U902	901.3	03-Mar-97	54 A	882.8
01U902	901.3	28-May-97	55 A	884.5
01U902	901.3	03-Sep-97	56 A	886.8
01U903	903.7	05-Jul-94	44 F	888.7
01U903	903.7	12-Jul-94	44 F	888.5
01U903	903.7	20-Jul-94	44 F	888.4
01U903	903.7	26-Jul-94	44 F	888.2
01U903	903.7	03-Aug-94	44 F	887.9
01U903	903.7	10-Aug-94	44 F	887.7
01U903	903.7	17-Aug-94	44 F	887.6
01U903	903.7	26-Aug-94	44 F	887.5
01U903	903.7	01-Sep-94	44 F	887.4
01U903	903.7	06-Sep-94	44 F	887.3
01U903	903.7	12-Sep-94	44 F	887.2
01U903	903.7	22-Sep-94	44 F	887.1
01U903	903.7	27-Sep-94	44 F	887.1
01U903	903.7	06-Oct-94	45 F	889.0
01U903	903.7	03-Nov-94	45 F	886.5
01U903	903.7	02-Dec-94	45 F	886.4
01U903	903.7	07-Jan-95	46 F	886.4
01U903	903.7	17-Feb-95	46 F	886.0
01U903	903.7	07-Mar-95	46 F	885.5
01U903	903.7	04-Apr-95	47 F	885.2
01U903	903.7	01-May-95	47 F	886.1
01U903	903.7	01-Jun-95	47 F	886.2
01U903	903.7	12-Jul-95	48 F	887.2
01U903	903.7	08-Aug-95	48 F	887.0
01U903	903.7	07-Sep-95	48 F	887.6
01U903	903.7	10-Oct-95	49 F	886.2
01U903	903.7	29-Nov-95	49 A	886.7

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
01U903	903.7	15-Dec-95	49 A	886.6
01U903	903.7	16-Jan-96	50 A	885.8
01U903	903.7	14-Feb-96	50 A	885.3
01U903	903.7	11-Mar-96	50 A	885.3
01U903	903.7	09-Apr-96	51 A	885.9
01U903	903.7	13-May-96	51 A	886.4
01U903	903.7	29-May-96	51 A	886.3
01U903	903.7	15-Jul-96	52 A	886.5
01U903	903.7	06-Aug-96	52 A	886.3
01U903	903.7	06-Sep-96	52 A	885.6
01U903	903.7	17-Oct-96	53 A	883.9
01U903	903.7	03-Dec-96	53 A	884.7
01U903	903.7	03-Mar-97	54 A	884.5
01U903	903.7	28-May-97	55 A	886.3
01U903	903.7	03-Sep-97	56 A	888.6
01U904	899.4	05-Jul-94	44 F	885.6
01U904	899.4	12-Jul-94	44 F	885.5
01U904	899.4	20-Jul-94	44 F	885.3
01U904	899.4	26-Jul-94	44 F	885.2
01U904	899.4	03-Aug-94	44 F	885.1
01U904	899.4	10-Aug-94	44 F	885.0
01U904	899.4	17-Aug-94	44 F	884.9
01U904	899.4	26-Aug-94	44 F	884.7
01U904	899.4	01-Sep-94	44 F	884.5
01U904	899.4	06-Sep-94	44 F	879.4
01U904	899.4	12-Sep-94	44 F	884.5
01U904	899.4	22-Sep-94	44 F	884.4
01U904	899.4	27-Sep-94	44 F	884.3
01U904	899.4	06-Oct-94	45 F	882.3
01U904	899.4	03-Nov-94	45 F	883.5
01U904	899.4	02-Dec-94	45 F	883.3
01U904	899.4	07-Jan-95	46 F	883.2
01U904	899.4	17-Feb-95	46 F	883.0
01U904	899.4	07-Mar-95	46 F	882.7
01U904	899.4	04-Apr-95	47 F	882.4
01U904	899.4	01-May-95	47 F	883.1
01U904	899.4	01-Jun-95	47 F	883.3
01U904	899.4	12-Jul-95	48 F	884.0
01U904	899.4	08-Aug-95	48 F	884.1
01U904	899.4	07-Sep-95	48 F	884.2
01U904	899.4	10-Oct-95	49 F	883.2
01U904	899.4	29-Nov-95	49 A	883.5
01U904	899.4	15-Dec-95	49 A	883.4
01U904	899.4	16-Jan-96	50 A	882.9
01U904	899.4	14-Feb-96	50 A	882.5
01U904	899.4	11-Mar-96	50 A	882.5
01U904	899.4	09-Apr-96	51 A	882.9
01U904	899.4	13-May-96	51 A	883.3
01U904	899.4	29-May-96	51 A	883.5
01U904	899.4	15-Jul-96	52 A	883.7
01U904	899.4	06-Aug-96	52 A	883.4
01U904	899.4	06-Sep-96	52 A	882.8
01U904	899.4	17-Oct-96	53 A	882.1
01U904	899.4	03-Dec-96	53 A	881.9
01U904	899.4	03-Mar-97	54 A	881.8
01U904	899.4	28-May-97	55 A	883.5
01U904	899.4	03-Sep-97	56 A	885.5
03F302	927.2	02-Sep-94	44 A	839.4
03F302	927.2	09-Mar-95	46 A	839.4
03F302	927.2	06-Sep-95	48 A	838.7
03F302	927.2	29-May-96	51 A	840.6
03F302	927.2	04-Sep-96	52 A	838.9
03F302	927.2	02-Dec-96	53 A	838.6
03F302	927.2	28-May-97	55 A	839.6
03F303	922.0	02-Sep-94	44 A	827.9
03F303	922.1	09-Mar-95	46 A	827.2
03F303	922.1	06-Sep-95	48 A	829.1
03F303	922.1	29-May-96	51 A	829.2
03F303	922.1	04-Sep-96	52 A	826.0
03F303	922.1	02-Dec-96	53 A	826.5
03F303	922.1	28-May-97	55 A	832.5
03F304	917.1	02-Sep-94	44 A	844.8
03F304	917.1	09-Mar-95	46 A	844.4
03F304	917.1	06-Sep-95	48 A	843.9
03F304	917.1	29-May-96	51 A	845.4
03F304	917.1	04-Sep-96	52 A	843.7
03F304	917.1	02-Dec-96	53 A	843.3
03F304	917.1	28-May-97	55 A	843.7
03F305	912.7	02-Sep-94	44 A	839.8
03F305	912.7	09-Mar-95	46 A	840.0
03F305	912.7	06-Sep-95	48 A	839.3
03F305	912.7	29-May-96	51 A	840.2
03F305	912.7	04-Sep-96	52 A	839.0
03F305	912.7	02-Dec-96	53 A	839.0
03F305	912.7	28-May-97	55 A	839.4
03F306	916.0	02-Sep-94	44 A	835.7
03F306	916.2	09-Mar-95	46 A	836.3
03F306	916.2	06-Sep-95	48 A	835.1
03F306	916.2	29-May-96	51 A	836.4
03F306	916.2	04-Sep-96	52 A	835.0
03F306	916.2	02-Dec-96	53 A	835.0
03F306	916.2	28-May-97	55 A	834.1
03F307	912.5	02-Sep-94	44 A	821.7
03F307	912.6	09-Mar-95	46 A	815.0
03F307	912.6	06-Sep-95	48 A	813.5
03F307	912.6	29-May-96	51 A	798.9
03F307	912.6	04-Sep-96	52 A	795.1
03F307	912.6	02-Dec-96	53 A	793.8
03F307	912.6	28-May-97	55 A	784.8
03F308	899.9	02-Sep-94	44 A	814.5
03F308	900.6	09-Mar-95	46 A	799.0
03F308	900.6	06-Sep-95	48 A	797.5
03F308	900.6	29-May-96	51 A	795.5
03F308	900.6	02-Dec-96	53 A	822.3
03F308	900.6	28-May-97	55 A	818.4
03F312	941.9	02-Sep-94	44 A	843.9
03F312	942.1	09-Mar-95	46 A	844.1
03F312	942.1	06-Sep-95	48 A	843.0
03F312	942.1	29-May-96	51 A	841.6
03F312	942.1	04-Sep-96	52 A	841.6
03F312	942.1	02-Dec-96	53 A	840.5
03F312	942.1	28-May-97	55 A	840.1
03L001	888.5	02-Sep-94	44 A	845.7
03L001	888.5	09-Mar-95	46 A	845.3
03L001	888.5	06-Sep-95	48 A	845.4
03L001	888.5	29-May-96	51 A	846.5
03L001	888.5	04-Sep-96	52 A	844.4
03L001	888.5	02-Dec-96	53 A	845.3
03L001	888.5	28-May-97	55 A	845.1
03L002	919.5	02-Sep-94	44 A	846.6
03L002	919.5	09-Mar-95	46 A	846.5
03L002	919.5	06-Sep-95	48 A	846.0
03L002	919.5	29-May-96	51 A	847.3
03L002	919.5	04-Sep-96	52 A	845.8
03L002	919.5	02-Dec-96	53 A	845.6
03L002	919.5	28-May-97	55 A	845.9
03L003	943.4	02-Sep-94	44 A	848.8
03L003	943.4	09-Mar-95	46 A	848.7
03L003	943.4	06-Sep-95	48 A	848.2
03L003	943.4	29-May-96	51 A	849.1
03L003	943.4	04-Sep-96	52 A	848.1
03L003	943.4	02-Dec-96	53 A	847.4
03L003	943.4	28-May-97	55 A	847.9
03L004	950.4	02-Sep-94	44 A	852.3
03L004	950.4	09-Mar-95	46 A	852.3

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03L004	950.4	06-Sep-95	48 A	851.4
03L004	950.4	29-May-96	51 A	852.7
03L004	950.4	04-Sep-96	52 A	851.5
03L004	950.4	02-Dec-96	53 A	851.0
03L004	950.4	28-May-97	55 A	851.3
03L005	971.6	02-Sep-94	44 A	855.3
03L005	971.6	09-Mar-95	46 A	855.6
03L005	971.6	06-Sep-95	48 A	854.5
03L005	971.6	29-May-96	51 A	855.8
03L005	971.6	04-Sep-96	52 A	854.3
03L005	971.6	02-Dec-96	53 A	853.9
03L005	971.6	28-May-97	55 A	854.2
03L007	901.5	02-Sep-94	44 A	857.3
03L007	901.5	09-Mar-95	46 A	858.3
03L007	901.5	06-Sep-95	48 A	857.4
03L007	901.5	29-May-96	51 A	858.2
03L007	901.5	04-Sep-96	52 A	856.0
03L007	901.5	02-Dec-96	53 A	856.2
03L007	901.5	28-May-97	55 A	856.3
03L010	889.1	02-Sep-94	44 A	864.9
03L010	889.1	09-Mar-95	46 A	865.7
03L010	889.1	06-Sep-95	48 A	865.0
03L010	889.1	29-May-96	51 A	866.6
03L010	889.1	04-Sep-96	52 A	862.2
03L010	889.1	02-Dec-96	53 A	864.6
03L010	889.1	28-May-97	55 A	864.0
03L012	879.9	02-Sep-94	44 A	858.5
03L012	879.9	09-Mar-95	46 A	859.1
03L012	879.9	06-Sep-95	48 A	857.9
03L012	879.9	29-May-96	51 A	859.5
03L012	879.9	04-Sep-96	52 A	856.2
03L012	879.9	02-Dec-96	53 A	857.9
03L012	879.9	28-May-97	55 A	857.4
03L013	889.9	02-Sep-94	44 A	850.0
03L013	889.9	09-Mar-95	46 A	850.1
03L013	889.9	06-Sep-95	48 A	849.0
03L013	889.9	29-May-96	51 A	850.5
03L013	889.9	04-Sep-96	52 A	848.4
03L013	889.9	02-Dec-96	53 A	849.3
03L013	889.9	28-May-97	55 A	849.1
03L014	989.5	02-Sep-94	44 A	855.1
03L014	989.5	09-Mar-95	46 A	855.2
03L014	989.5	06-Sep-95	48 A	855.4
03L014	989.5	29-May-96	51 A	856.5
03L014	989.5	04-Sep-96	52 A	855.3
03L014	989.5	02-Dec-96	53 A	854.8
03L014	989.5	28-May-97	55 A	855.2
03L017	939.1	02-Sep-94	44 A	851.6
03L017	939.1	09-Mar-95	46 A	851.7
03L017	939.1	06-Sep-95	48 A	851.1
03L017	939.1	29-May-96	51 A	852.2
03L017	939.1	04-Sep-96	52 A	850.7
03L017	939.1	02-Dec-96	53 A	850.6
03L017	939.1	28-May-97	55 A	850.9
03L018	989.3	02-Sep-94	44 A	854.7
03L018	989.3	09-Mar-95	46 A	854.8
03L018	989.3	06-Sep-95	48 A	854.1
03L018	989.3	29-May-96	51 A	855.2
03L018	989.3	04-Sep-96	52 A	853.8
03L018	989.3	02-Dec-96	53 A	853.5
03L018	989.3	28-May-97	55 A	853.9
03L020	954.5	02-Sep-94	44 A	851.9
03L020	954.5	09-Mar-95	46 A	851.9
03L020	954.5	06-Sep-95	48 A	851.1
03L020	954.5	29-May-96	51 A	852.4
03L020	954.5	04-Sep-96	52 A	851.2
03L020	954.5	02-Dec-96	53 A	850.8
03L020	954.5	28-May-97	55 A	851.2
03L021	944.1	02-Sep-94	44 A	849.3
03L021	944.1	09-Mar-95	46 A	849.2
03L021	944.1	06-Sep-95	48 A	848.6
03L021	944.1	29-May-96	51 A	849.8
03L021	944.1	04-Sep-96	52 A	848.5
03L021	944.1	02-Dec-96	53 A	848.1
03L021	944.1	28-May-97	55 A	848.5
03L027	966.9	02-Sep-94	44 A	852.2
03L027	966.9	09-Mar-95	46 A	852.2
03L027	966.9	06-Sep-95	48 A	851.5
03L027	966.9	29-May-96	51 A	852.7
03L027	966.9	04-Sep-96	52 A	851.5
03L027	966.9	02-Dec-96	53 A	851.0
03L027	966.9	28-May-97	55 A	851.4
03L028	956.6	02-Sep-94	44 A	851.6
03L028	956.6	09-Mar-95	46 A	851.6
03L028	956.6	06-Sep-95	48 A	850.7
03L028	956.6	29-May-96	51 A	852.1
03L028	956.6	04-Sep-96	52 A	850.8
03L028	956.6	02-Dec-96	53 A	850.2
03L028	956.6	28-May-97	55 A	850.7
03L029	956.8	02-Sep-94	44 A	850.4
03L029	956.8	09-Mar-95	46 A	850.4
03L029	956.8	06-Sep-95	48 A	849.6
03L029	956.8	29-May-96	51 A	850.8
03L029	956.8	04-Sep-96	52 A	849.7
03L029	956.8	02-Dec-96	53 A	849.0
03L029	956.8	28-May-97	55 A	849.6
03L077	912.1	02-Sep-94	44 A	844.2
03L077	912.1	09-Mar-95	46 A	844.1
03L077	912.1	06-Sep-95	48 A	843.6
03L077	912.1	29-May-96	51 A	845.0
03L077	912.1	04-Sep-96	52 A	843.3
03L077	912.1	02-Dec-96	53 A	843.3
03L077	912.1	28-May-97	55 A	843.4
03L078	927.7	02-Sep-94	44 A	846.9
03L078	927.7	09-Mar-95	46 A	846.7
03L078	927.7	06-Sep-95	48 A	846.3
03L078	927.7	29-May-96	51 A	847.6
03L078	927.7	04-Sep-96	52 A	846.2
03L078	927.7	02-Dec-96	53 A	845.7
03L078	927.7	28-May-97	55 A	846.1
03L079	923.5	02-Sep-94	44 A	846.8
03L079	923.5	09-Mar-95	46 A	846.7
03L079	923.5	06-Sep-95	48 A	846.3
03L079	923.5	29-May-96	51 A	847.4
03L079	923.5	04-Sep-96	52 A	846.3
03L079	923.5	02-Dec-96	53 A	845.6
03L079	923.5	28-May-97	55 A	846.1
03L080	960.8	02-Sep-94	44 A	853.3
03L080	960.8	09-Mar-95	46 A	853.3
03L080	960.8	06-Sep-95	48 A	852.5
03L080	960.8	29-May-96	51 A	853.8
03L080	960.8	04-Sep-96	52 A	852.5
03L080	960.8	02-Dec-96	53 A	852.0
03L080	960.8	28-May-97	55 A	852.4
03L081	946.5	02-Sep-94	44 A	855.8
03L081	946.5	09-Mar-95	46 A	855.9
03L081	946.5	06-Sep-95	48 A	855.0
03L081	946.5	29-May-96	51 A	856.2
03L081	946.5	04-Sep-96	52 A	854.8
03L081	946.5	02-Dec-96	53 A	854.5

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03L081	946.5	28-May-97	55 A	854.7
03L084	898.5	02-Sep-94	44 A	846.5
03L084	898.5	09-Mar-95	46 A	846.2
03L084	898.5	06-Sep-95	48 A	845.8
03L084	898.5	29-May-96	51 A	847.3
03L084	898.5	04-Sep-96	52 A	845.6
03L084	898.5	28-May-97	55 A	845.6
03L084	898.5	28-May-97	55 A	845.6
03L086	960.8	08-Mar-95	46 F	855.5
03L086	960.8	29-May-96	51 A	856.2
03L091	1008.5	28-Mar-95	46 F	858.1
03L091	1008.5	29-May-96	51 A	857.0
03L091	1008.5	28-May-97	55 A	855.5
03L113	974.9	02-Sep-94	44 A	856.7
03L113	974.9	09-Mar-95	46 A	857.0
03L113	974.9	06-Sep-95	48 A	856.3
03L113	974.9	29-May-96	51 A	857.3
03L113	974.9	04-Sep-96	52 A	855.7
03L113	974.9	02-Dec-96	53 A	855.5
03L113	974.9	28-May-97	55 A	855.8
03L137	972.6	08-Sep-94	44 F	856.4
03L137	972.6	08-Mar-95	46 F	856.3
03L137	972.6	08-Sep-95	48 F	855.8
03L137	972.6	29-May-96	51 A	856.9
03L137	972.6	06-Sep-96	52 A	855.4
03L138	965.6	08-Sep-94	44 F	855.9
03L138	965.6	22-Mar-95	46 F	856.0
03L138	965.6	08-Sep-95	48 F	855.2
03L138	965.6	29-May-96	51 A	856.3
03L138	965.6	06-Sep-96	52 A	854.8
03L673	897.7	19-Jul-94	44 A	844.3
03L673	897.7	02-Sep-94	44 A	841.9
03L673	897.7	10-Oct-94	45 A	842.2
03L673	897.7	10-Oct-94	45 A	842.2
03L673	897.7	27-Jan-95	46 A	842.8
03L673	897.7	06-Mar-95	46 A	842.7
03L673	897.7	09-Mar-95	46 A	842.1
03L673	897.7	21-Jun-95	47 A	843.3
03L673	897.7	05-Sep-95	48 A	841.9
03L673	897.7	06-Sep-95	48 A	841.3
03L673	897.7	14-Dec-95	49 A	842.7
03L673	897.7	05-Mar-96	50 A	842.8
03L673	897.7	28-May-96	51 A	843.4
03L673	897.7	16-Sep-96	52 A	841.6
03L673	897.7	03-Dec-96	53 A	841.6
03L673	897.7	30-May-97	55 A	841.6
03L802	907.6	02-Sep-94	44 A	846.9
03L802	907.6	09-Mar-95	46 A	847.0
03L802	907.6	06-Sep-95	48 A	846.4
03L802	907.6	29-May-96	51 A	847.7
03L802	907.6	04-Sep-96	52 A	846.4
03L802	907.6	02-Dec-96	53 A	846.0
03L802	907.6	29-May-97	55 A	846.0
03L806	909.6	02-Sep-94	44 A	844.0
03L806	909.6	09-Mar-95	46 A	844.0
03L806	909.6	06-Sep-95	48 A	843.3
03L806	909.6	29-May-96	51 A	844.8
03L806	909.6	04-Sep-96	52 A	843.0
03L806	909.6	03-Dec-96	53 A	843.3
03L806	909.6	29-May-97	55 A	843.1
03L809	911.9	02-Sep-94	44 A	845.4
03L809	911.9	09-Mar-95	46 A	845.4
03L809	911.9	06-Sep-95	48 A	844.7
03L809	911.9	29-May-96	51 A	846.3
03L809	911.9	04-Sep-96	52 A	844.4
03L809	911.9	29-May-97	55 A	844.6
03L811	908.4	23-Mar-95	46 F	843.0
03L811	908.4	29-May-96	51 A	842.7
03L811	908.4	06-Sep-96	52 A	841.0
03L811	908.4	03-Dec-96	53 A	841.8
03L811	908.4	29-May-97	55 A	841.2
03L822	876.6	15-Mar-95	46 F	834.4
03L822	876.6	29-May-96	51 A	835.2
03L822	876.6	06-Sep-96	52 A	829.6
03L822	876.6	03-Dec-96	53 A	833.9
03L822	876.6	29-May-97	55 A	830.6
03L832	884.6	19-Jul-94	44 A	833.3
03L832	884.6	10-Oct-94	45 A	832.5
03L832	884.6	27-Jan-95	46 A	833.2
03L832	884.6	06-Mar-95	46 A	833.5
03L832	884.6	21-Jun-95	47 A	832.8
03L832	884.6	05-Sep-95	48 A	832.4
03L832	884.6	14-Dec-95	49 A	833.1
03L832	884.6	05-Mar-96	50 A	833.4
03L832	884.6	28-May-96	51 A	834.6
03L832	884.6	16-Sep-96	52 A	831.1
03L832	884.6	03-Dec-96	53 A	832.2
03L832	884.6	30-May-97	55 A	831.2
03L833	908.0	09-Mar-95	46 A	844.0
03L833	908.0	06-Sep-95	48 A	843.4
03L833	908.0	29-May-96	51 A	845.0
03L833	908.0	04-Sep-96	52 A	843.2
03L833	908.0	02-Dec-96	53 A	843.6
03L833	908.0	29-May-97	55 A	843.3
03L833	908.0	02-Sep-94	44 A	844.1
03L841	911.3	19-Jul-94	44 A	843.4
03L841	911.3	02-Sep-94	44 A	841.1
03L841	911.3	10-Oct-94	45 A	841.5
03L841	911.3	10-Oct-94	45 A	841.5
03L841	911.3	27-Jan-95	46 A	841.6
03L841	911.3	06-Mar-95	46 A	841.4
03L841	911.3	09-Mar-95	46 A	841.4
03L841	911.3	21-Jun-95	47 A	842.0
03L841	911.3	05-Sep-95	48 A	840.5
03L841	911.3	06-Sep-95	48 A	840.5
03L841	911.3	14-Dec-95	49 A	841.5
03L841	911.3	05-Mar-96	50 A	841.5
03L841	911.3	28-May-96	51 A	842.1
03L841	911.3	29-May-96	51 A	842.1
03L841	911.3	16-Sep-96	52 A	840.2
03L841	911.3	03-Dec-96	53 A	840.3
03L841	911.3	30-May-97	55 A	840.4
03L846	887.6	19-Jul-94	44 A	830.8
03L846	887.6	10-Oct-94	45 A	830.2
03L846	887.6	27-Jan-95	46 A	830.7
03L846	887.6	06-Mar-95	46 A	830.9
03L846	887.6	16-Mar-95	46 F	829.5
03L846	887.6	21-Jun-95	47 A	830.6
03L846	887.6	05-Sep-95	48 A	830.2
03L846	887.6	14-Dec-95	49 A	830.5
03L846	887.6	05-Mar-96	50 A	830.9
03L846	887.6	28-May-96	51 A	831.5
03L846	887.6	16-Sep-96	52 A	828.8
03L846	887.6	03-Dec-96	53 A	829.5
03L846	887.6	30-May-97	55 A	828.4
03L848	902.3	19-Jul-94	44 A	842.0
03L848	902.3	10-Oct-94	45 A	840.3
03L848	902.3	27-Jan-95	46 A	842.0
03L848	902.3	21-Jun-95	47 A	842.3
03L848	902.3	05-Sep-95	48 A	841.9

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03L848	902.3	14-Dec-95	49 A	842.0
03L848	902.3	28-May-96	51 A	842.7
03L848	902.3	16-Sep-96	52 A	840.8
03L848	902.3	30-May-97	55 A	840.8
03L853	888.8	16-Mar-95	46 F	835.0
03L853	888.8	29-May-96	51 A	836.0
03L853	888.8	06-Sep-96	52 A	833.6
03L853	888.8	03-Dec-96	53 A	834.7
03L853	888.8	29-May-97	55 A	833.4
03L854	889.9	19-Jul-94	44 A	838.3
03L854	889.9	10-Oct-94	45 A	836.9
03L854	889.9	27-Jan-95	46 A	837.6
03L854	889.9	06-Mar-95	46 A	837.6
03L854	889.9	21-Jun-95	47 A	837.6
03L854	889.9	05-Sep-95	48 A	836.9
03L854	889.9	14-Dec-95	49 A	837.6
03L854	889.9	05-Mar-96	50 A	837.7
03L854	889.9	28-May-96	51 A	838.4
03L854	889.9	16-Sep-96	52 A	836.1
03L854	889.9	03-Dec-96	53 A	836.4
03L854	889.9	30-May-97	55 A	836.2
03L856	872.6	23-Mar-95	46 F	839.2
03L856	872.6	29-May-96	51 A	839.8
03L856	872.6	06-Sep-96	52 A	838.1
03L856	872.6	03-Dec-96	53 A	839.3
03L856	872.6	29-May-97	55 A	838.4
03L858	994.1	16-Mar-95	46 F	896.4
03L859	900.9	19-Jul-94	44 A	839.1
03L859	900.9	10-Oct-94	45 A	837.5
03L859	900.9	27-Jan-95	46 A	838.1
03L859	900.9	06-Mar-95	46 A	838.2
03L859	900.9	21-Jun-95	47 A	838.1
03L859	900.9	05-Sep-95	48 A	837.3
03L859	900.9	14-Dec-95	49 A	838.1
03L859	900.9	05-Mar-96	50 A	838.1
03L859	900.9	28-May-96	51 A	839.0
03L859	900.9	16-Sep-96	52 A	836.5
03L859	900.9	03-Dec-96	53 A	836.7
03L859	900.9	30-May-97	55 A	836.8
03L860	894.3	19-Jul-94	44 A	838.5
03L860	894.3	10-Oct-94	45 A	837.2
03L860	894.3	27-Jan-95	46 A	837.9
03L860	894.3	06-Mar-95	46 A	837.8
03L860	894.3	21-Jun-95	47 A	837.8
03L860	894.3	05-Sep-95	48 A	837.1
03L860	894.3	14-Dec-95	49 A	837.9
03L860	894.3	05-Mar-96	50 A	837.9
03L860	894.3	28-May-96	51 A	838.7
03L860	894.3	16-Sep-96	52 A	836.6
03L860	894.3	03-Dec-96	53 A	836.7
03L860	894.3	30-May-97	55 A	836.5
03L861	889.1	19-Jul-94	44 A	836.5
03L861	889.1	10-Oct-94	45 A	835.3
03L861	889.1	27-Jan-95	46 A	836.0
03L861	889.1	06-Mar-95	46 A	836.0
03L861	889.1	21-Jun-95	47 A	835.9
03L861	889.1	05-Sep-95	48 A	835.2
03L861	889.1	14-Dec-95	49 A	836.0
03L861	889.1	05-Mar-96	50 A	836.1
03L861	889.1	28-May-96	51 A	836.9
03L861	889.1	16-Sep-96	52 A	834.2
03L861	889.1	03-Dec-96	53 A	834.8
03L861	889.1	30-May-97	55 A	834.4
03M001	888.4	02-Sep-94	44 A	846.0
03M001	888.4	09-Mar-95	46 A	845.5
03M001	888.4	06-Sep-95	48 A	845.1
03M001	888.4	29-May-96	51 A	846.7
03M001	888.4	04-Sep-96	52 A	844.5
03M001	888.4	02-Dec-96	53 A	844.8
03M001	888.4	28-May-97	55 A	845.2
03M002	919.4	02-Sep-94	44 A	846.7
03M002	919.4	09-Mar-95	46 A	846.6
03M002	919.4	06-Sep-95	48 A	846.1
03M002	919.4	29-May-96	51 A	847.4
03M002	919.4	04-Sep-96	52 A	845.9
03M002	919.4	02-Dec-96	53 A	845.6
03M002	919.4	28-May-97	55 A	845.9
03M003	942.7	02-Sep-94	44 A	849.4
03M003	942.7	09-Mar-95	46 A	849.1
03M003	942.7	06-Sep-95	48 A	848.8
03M003	942.7	29-May-96	51 A	849.7
03M003	942.7	04-Sep-96	52 A	848.8
03M003	942.7	02-Dec-96	53 A	848.0
03M003	942.7	28-May-97	55 A	848.6
03M004	950.7	02-Sep-94	44 A	853.3
03M004	950.7	09-Mar-95	46 A	853.3
03M004	950.7	06-Sep-95	48 A	853.4
03M004	950.7	29-May-96	51 A	854.6
03M004	950.7	04-Sep-96	52 A	852.5
03M004	950.7	02-Dec-96	53 A	852.0
03M004	950.7	28-May-97	55 A	852.3
03M005	972.3	02-Sep-94	44 A	855.3
03M005	972.3	09-Mar-95	46 A	855.6
03M005	972.3	06-Sep-95	48 A	854.4
03M005	972.3	29-May-96	51 A	855.8
03M005	972.3	04-Sep-96	52 A	854.3
03M005	972.3	02-Dec-96	53 A	853.8
03M005	972.3	28-May-97	55 A	854.2
03M007	900.7	02-Sep-94	44 A	857.8
03M007	900.7	09-Mar-95	46 A	858.2
03M007	900.7	06-Sep-95	48 A	857.7
03M007	900.7	29-May-96	51 A	859.8
03M007	900.7	04-Sep-96	52 A	856.4
03M007	900.7	02-Dec-96	53 A	856.5
03M007	900.7	28-May-97	55 A	856.7
03M010	888.9	02-Sep-94	44 A	865.0
03M010	888.9	09-Mar-95	46 A	865.8
03M010	888.9	06-Sep-95	48 A	865.2
03M010	888.9	29-May-96	51 A	866.7
03M010	888.9	04-Sep-96	52 A	862.4
03M010	888.9	02-Dec-96	53 A	864.8
03M010	888.9	28-May-97	55 A	864.1
03M012	880.2	02-Sep-94	44 A	858.5
03M012	880.2	09-Mar-95	46 A	859.1
03M012	880.2	06-Sep-95	48 A	858.0
03M012	880.2	29-May-96	51 A	859.5
03M012	880.2	04-Sep-96	52 A	856.2
03M012	880.2	02-Dec-96	53 A	858.0
03M012	880.2	28-May-97	55 A	857.5
03M013	889.7	02-Sep-94	44 A	850.2
03M013	889.7	09-Mar-95	46 A	850.2
03M013	889.7	06-Sep-95	48 A	849.2
03M013	889.7	29-May-96	51 A	850.7
03M013	889.7	04-Sep-96	52 A	848.6
03M013	889.7	02-Dec-96	53 A	849.4
03M013	889.7	28-May-97	55 A	849.2
03M017	938.9	02-Sep-94	44 A	851.6
03M017	938.9	09-Mar-95	46 A	851.7
03M017	938.9	06-Sep-95	48 A	851.1
03M017	938.9	29-May-96	51 A	852.2
03M017	938.9	04-Sep-96	52 A	850.8

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03M017	938.9	02-Dec-96	53 A	850.7
03M017	938.9	28-May-97	55 A	851.0
03M020	954.5	02-Sep-94	44 A	851.9
03M020	954.5	09-Mar-95	46 A	851.8
03M020	954.5	06-Sep-95	48 A	851.0
03M020	954.5	29-May-96	51 A	852.3
03M020	954.5	04-Sep-96	52 A	851.0
03M020	954.5	02-Dec-96	53 A	850.7
03M020	954.5	28-May-97	55 A	851.0
03M713	895.6	02-Sep-94	44 A	844.3
03M713	895.6	09-Mar-95	46 A	843.7
03M713	895.6	06-Sep-95	48 A	843.3
03M713	895.6	29-May-96	51 A	845.2
03M713	895.6	04-Sep-96	52 A	843.2
03M713	895.6	02-Dec-96	53 A	843.9
03M713	895.6	28-May-97	55 A	843.8
03M802	905.6	02-Sep-94	44 A	847.0
03M802	905.6	09-Mar-95	46 A	847.1
03M802	905.6	06-Sep-95	48 A	846.6
03M802	905.6	29-May-96	51 A	847.8
03M802	905.6	04-Sep-96	52 A	846.7
03M802	905.6	02-Dec-96	53 A	846.2
03M802	905.6	29-May-97	55 A	846.4
03M806	909.6	02-Sep-94	44 A	844.0
03M806	909.6	09-Mar-95	46 A	844.1
03M806	909.6	06-Sep-95	48 A	843.4
03M806	909.6	29-May-96	51 A	844.8
03M806	909.6	04-Sep-96	52 A	843.1
03M806	909.6	02-Dec-96	53 A	843.4
03M806	909.6	29-May-97	55 A	843.2
03M843	885.7	12-Sep-94	44 F	835.6
03M843	885.7	15-Mar-95	46 F	836.3
03M843	885.7	08-Sep-95	48 F	834.5
03M848	902.5	19-Jul-94	44 A	841.5
03M848	902.5	10-Oct-94	45 A	839.8
03M848	902.5	27-Jan-95	46 A	841.6
03M848	902.5	06-Mar-95	46 A	841.5
03M848	902.5	21-Jun-95	47 A	841.8
03M848	902.5	05-Sep-95	48 A	840.8
03M848	902.5	14-Dec-95	49 A	841.6
03M848	902.5	28-May-96	51 A	842.2
03M848	902.5	16-Sep-96	52 A	840.4
03M848	902.5	03-Dec-96	53 A	840.4
03M848	902.5	30-May-97	55 A	840.4
03U001	888.2	02-Sep-94	44 A	846.1
03U001	888.2	09-Mar-95	46 A	845.7
03U001	888.2	06-Sep-95	48 A	844.7
03U001	888.2	29-May-96	51 A	846.8
03U001	888.2	04-Sep-96	52 A	844.7
03U001	888.2	02-Dec-96	53 A	845.6
03U001	888.2	28-May-97	55 A	845.3
03U002	917.8	02-Sep-94	44 A	847.6
03U002	917.8	09-Mar-95	46 A	847.5
03U002	917.8	06-Sep-95	48 A	847.0
03U002	917.8	29-May-96	51 A	848.2
03U002	917.8	04-Sep-96	52 A	846.9
03U002	917.8	02-Dec-96	53 A	846.6
03U002	917.8	28-May-97	55 A	847.0
03U003	942.6	02-Sep-94	44 A	849.5
03U003	942.6	09-Mar-95	46 A	849.2
03U003	942.6	06-Sep-95	48 A	848.9
03U003	942.6	29-May-96	51 A	849.8
03U003	942.6	04-Sep-96	52 A	849.0
03U003	942.6	02-Dec-96	53 A	848.1
03U003	942.6	28-May-97	55 A	848.7
03U004	950.8	02-Sep-94	44 A	854.8
03U004	950.8	09-Mar-95	46 A	854.6
03U004	950.8	06-Sep-95	48 A	852.9
03U004	950.8	29-May-96	51 A	854.1
03U004	950.8	04-Sep-96	52 A	853.7
03U004	950.8	02-Dec-96	53 A	853.4
03U004	950.8	28-May-97	55 A	853.7
03U005	970.5	02-Sep-94	44 A	855.3
03U005	970.5	09-Mar-95	46 A	855.5
03U005	970.5	06-Sep-95	48 A	854.4
03U005	970.5	29-May-96	51 A	855.7
03U005	970.5	04-Sep-96	52 A	854.3
03U005	970.5	02-Dec-96	53 A	853.8
03U005	970.5	28-May-97	55 A	854.2
03U006	966.7	02-Sep-94	44 A	856.7
03U006	966.7	09-Mar-95	46 A	856.8
03U006	966.7	06-Sep-95	48 A	856.4
03U006	966.7	29-May-96	51 A	857.2
03U006	966.7	04-Sep-96	52 A	855.8
03U006	966.7	02-Dec-96	53 A	855.0
03U006	966.7	28-May-97	55 A	855.5
03U007	900.3	02-Sep-94	44 A	857.9
03U007	900.3	09-Mar-95	46 A	833.7
03U007	900.3	09-Mar-95	46 A	858.3
03U007	900.3	06-Sep-95	48 A	857.8
03U007	900.3	29-May-96	51 A	857.5
03U007	900.3	04-Sep-96	52 A	856.5
03U007	900.3	02-Dec-96	53 A	856.6
03U007	900.3	28-May-97	55 A	856.8
03U008	915.2	02-Sep-94	44 A	863.1
03U008	915.2	09-Mar-95	46 A	864.0
03U008	915.2	06-Sep-95	48 A	863.3
03U008	915.2	29-May-96	51 A	864.7
03U008	915.2	04-Sep-96	52 A	860.9
03U008	915.2	02-Dec-96	53 A	862.5
03U008	915.2	28-May-97	55 A	862.4
03U009	912.9	02-Sep-94	44 A	864.9
03U009	912.9	09-Mar-95	46 A	865.7
03U009	912.9	06-Sep-95	48 A	865.2
03U009	912.9	08-Sep-95	48 F	865.1
03U009	912.9	29-May-96	51 A	866.8
03U009	912.9	04-Sep-96	52 A	862.4
03U009	912.9	02-Dec-96	53 A	864.9
03U009	912.9	28-May-97	55 A	864.1
03U010	888.4	02-Sep-94	44 A	865.0
03U010	888.4	09-Mar-95	46 A	865.8
03U010	888.4	06-Sep-95	48 A	865.2
03U010	888.4	29-May-96	51 A	866.7
03U010	888.4	04-Sep-96	52 A	862.4
03U010	888.4	02-Dec-96	53 A	864.8
03U010	888.4	28-May-97	55 A	864.1
03U011	900.6	02-Sep-94	44 A	862.9
03U011	900.6	09-Mar-95	46 A	863.7
03U011	900.6	06-Sep-95	48 A	862.8
03U011	900.6	29-May-96	51 A	864.2
03U011	900.6	04-Sep-96	52 A	860.8
03U011	900.6	02-Dec-96	53 A	862.3
03U011	900.6	28-May-97	55 A	862.1
03U012	880.0	02-Sep-94	44 A	858.5
03U012	880.0	09-Mar-95	46 A	859.1
03U012	880.0	06-Sep-95	48 A	858.0
03U012	880.0	29-May-96	51 A	859.5
03U012	880.0	04-Sep-96	52 A	856.2
03U012	880.0	02-Dec-96	53 A	858.0
03U012	880.0	28-May-97	55 A	857.5

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03U013	890.0	02-Sep-94	44 A	850.2
03U013	890.0	09-Mar-95	46 A	850.3
03U013	890.0	06-Sep-95	48 A	849.2
03U013	890.0	29-May-96	51 A	850.7
03U013	890.0	04-Sep-96	52 A	848.6
03U013	890.0	02-Dec-96	53 A	849.5
03U013	890.0	28-May-97	55 A	849.2
03U014	988.3	02-Sep-94	44 A	854.9
03U014	988.3	09-Mar-95	46 A	854.9
03U014	988.3	06-Sep-95	48 A	853.0
03U014	988.3	29-May-96	51 A	854.3
03U014	988.3	04-Sep-96	52 A	852.9
03U014	988.3	02-Dec-96	53 A	852.6
03U014	988.3	28-May-97	55 A	852.9
03U015	934.6	02-Sep-94	44 A	855.5
03U015	934.6	09-Mar-95	46 A	855.8
03U015	934.6	06-Sep-95	48 A	855.1
03U015	934.6	29-May-96	51 A	856.2
03U015	934.6	04-Sep-96	52 A	854.5
03U015	934.6	02-Dec-96	53 A	854.4
03U015	934.6	28-May-97	55 A	854.7
03U016	947.3	02-Sep-94	44 A	858.2
03U016	947.3	09-Mar-95	46 A	858.5
03U016	947.3	06-Sep-95	48 A	857.8
03U016	947.3	29-May-96	51 A	858.9
03U016	947.3	04-Sep-96	52 A	857.1
03U016	947.3	02-Dec-96	53 A	857.0
03U016	947.3	28-May-97	55 A	857.3
03U017	939.0	02-Sep-94	44 A	851.6
03U017	939.0	09-Mar-95	46 A	851.7
03U017	939.0	06-Sep-95	48 A	851.1
03U017	939.0	29-May-96	51 A	852.2
03U017	939.0	04-Sep-96	52 A	850.8
03U017	939.0	02-Dec-96	53 A	850.7
03U017	939.0	28-May-97	55 A	851.0
03U018	988.8	02-Sep-94	44 A	854.9
03U018	988.8	09-Mar-95	46 A	855.0
03U018	988.8	06-Sep-95	48 A	854.3
03U018	988.8	29-May-96	51 A	855.4
03U018	988.8	04-Sep-96	52 A	854.0
03U018	988.8	02-Dec-96	53 A	853.7
03U018	988.8	28-May-97	55 A	854.1
03U019	943.2	02-Sep-94	44 A	856.4
03U019	943.2	09-Mar-95	46 A	856.5
03U019	943.2	06-Sep-95	48 A	855.7
03U019	943.2	29-May-96	51 A	856.8
03U019	943.2	04-Sep-96	52 A	855.5
03U019	943.2	02-Dec-96	53 A	855.0
03U019	943.2	28-May-97	55 A	855.4
03U020	954.3	02-Sep-94	44 A	852.0
03U020	954.3	09-Mar-95	46 A	852.0
03U020	954.3	06-Sep-95	48 A	851.2
03U020	954.3	29-May-96	51 A	852.5
03U020	954.3	04-Sep-96	52 A	851.3
03U020	954.3	02-Dec-96	53 A	850.9
03U020	954.3	28-May-97	55 A	851.3
03U021	944.4	02-Sep-94	44 A	849.7
03U021	944.4	09-Mar-95	46 A	849.6
03U021	944.4	06-Sep-95	48 A	849.0
03U021	944.4	29-May-96	51 A	850.2
03U021	944.4	04-Sep-96	52 A	849.0
03U021	944.4	02-Dec-96	53 A	848.5
03U021	944.4	28-May-97	55 A	849.0
03U022	899.3	02-Sep-94	44 A	859.8
03U022	899.3	09-Mar-95	46 A	860.3
03U022	899.3	06-Sep-95	48 A	859.6
03U022	899.3	29-May-96	51 A	860.8
03U022	899.3	04-Sep-96	52 A	858.1
03U022	899.3	02-Dec-96	53 A	859.0
03U022	899.3	28-May-97	55 A	859.0
03U023	899.5	02-Sep-94	44 A	859.4
03U023	899.5	09-Mar-95	46 A	859.9
03U023	899.5	16-Mar-95	46 F	860.2
03U023	899.5	06-Sep-95	48 A	859.1
03U023	899.5	29-May-96	51 A	860.4
03U023	899.5	04-Sep-96	52 A	857.3
03U023	899.5	02-Dec-96	53 A	858.8
03U023	899.5	28-May-97	55 A	858.4
03U024	894.7	02-Sep-94	44 A	858.3
03U024	894.7	09-Mar-95	46 A	858.7
03U024	894.7	06-Sep-95	48 A	858.0
03U024	894.7	29-May-96	51 A	859.2
03U024	894.7	04-Sep-96	52 A	856.7
03U024	894.7	02-Dec-96	53 A	857.4
03U024	894.7	28-May-97	55 A	857.4
03U025	887.0	02-Sep-94	44 A	856.1
03U025	887.0	09-Mar-95	46 A	856.3
03U025	887.0	06-Sep-95	48 A	855.6
03U025	887.0	29-May-96	51 A	856.9
03U025	887.0	04-Sep-96	52 A	854.5
03U025	887.0	02-Dec-96	53 A	855.2
03U025	887.0	28-May-97	55 A	855.2
03U026	975.1	13-Mar-95	46 F	856.3
03U026	975.1	29-May-96	51 A	856.2
03U027	966.5	02-Sep-94	44 A	852.4
03U027	966.5	09-Mar-95	46 A	852.3
03U027	966.5	06-Sep-95	48 A	851.6
03U027	966.5	29-May-96	51 A	852.8
03U027	966.5	04-Sep-96	52 A	851.6
03U027	966.5	02-Dec-96	53 A	851.1
03U027	966.5	28-May-97	55 A	851.5
03U028	957.0	02-Sep-94	44 A	851.6
03U028	957.0	09-Mar-95	46 A	851.6
03U028	957.0	06-Sep-95	48 A	850.8
03U028	957.0	29-May-96	51 A	852.1
03U028	957.0	04-Sep-96	52 A	850.9
03U028	957.0	02-Dec-96	53 A	850.3
03U028	957.0	28-May-97	55 A	850.8
03U029	956.9	02-Sep-94	44 A	850.0
03U029	956.9	09-Mar-95	46 A	850.0
03U029	956.9	06-Sep-95	48 A	849.2
03U029	956.9	29-May-96	51 A	851.3
03U029	956.9	04-Sep-96	52 A	850.2
03U029	956.9	02-Dec-96	53 A	848.8
03U029	956.9	28-May-97	55 A	849.2
03U030	958.7	02-Sep-94	44 A	853.2
03U030	958.7	09-Mar-95	46 A	853.3
03U030	958.7	06-Sep-95	48 A	852.4
03U030	958.7	29-May-96	51 A	853.7
03U030	958.7	04-Sep-96	52 A	852.4
03U030	958.7	02-Dec-96	53 A	851.8
03U030	958.7	28-May-97	55 A	852.3
03U031	898.4	02-Sep-94	44 A	852.8
03U031	898.4	09-Mar-95	46 A	852.9
03U031	898.4	06-Sep-95	48 A	852.4
03U031	898.4	29-May-96	51 A	853.6
03U031	898.4	04-Sep-96	52 A	851.8
03U031	898.4	02-Dec-96	53 A	851.9
03U031	898.4	28-May-97	55 A	852.1

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03U032	1004.1	02-Sep-94	44 A	856.8
03U032	1004.1	08-Sep-94	44 F	857.3
03U032	1004.1	09-Mar-95	46 A	857.0
03U032	1004.1	06-Sep-95	48 A	856.3
03U032	1004.1	29-May-96	51 A	857.4
03U032	1004.1	04-Sep-96	52 A	855.6
03U032	1004.1	02-Dec-96	53 A	855.6
03U032	1004.1	28-May-97	55 A	855.8
03U075	884.6	02-Sep-94	44 A	849.3
03U075	884.6	09-Mar-95	46 A	849.0
03U075	884.6	06-Sep-95	48 A	848.4
03U075	884.6	29-May-96	51 A	850.0
03U075	884.6	04-Sep-96	52 A	847.7
03U075	884.6	02-Dec-96	53 A	848.5
03U075	884.6	28-May-97	55 A	848.3
03U076	888.7	02-Sep-94	44 A	847.6
03U076	888.7	09-Mar-95	46 A	847.2
03U076	888.7	06-Sep-95	48 A	846.6
03U076	888.7	29-May-96	51 A	848.3
03U076	888.7	04-Sep-96	52 A	846.1
03U076	888.7	02-Dec-96	53 A	846.9
03U076	888.7	28-May-97	55 A	846.6
03U077	912.5	02-Sep-94	44 A	846.0
03U077	912.5	09-Mar-95	46 A	845.9
03U077	912.5	06-Sep-95	48 A	845.4
03U077	912.5	29-May-96	51 A	846.8
03U077	912.5	04-Sep-96	52 A	845.2
03U077	912.5	02-Dec-96	53 A	845.1
03U077	912.5	28-May-97	55 A	845.4
03U078	927.2	02-Sep-94	44 A	846.7
03U078	927.2	09-Mar-95	46 A	846.5
03U078	927.2	06-Sep-95	48 A	846.4
03U078	927.2	29-May-96	51 A	847.6
03U078	927.2	04-Sep-96	52 A	846.6
03U078	927.2	02-Dec-96	53 A	845.6
03U078	927.2	28-May-97	55 A	846.7
03U079	923.4	02-Sep-94	44 A	845.8
03U079	923.4	09-Mar-95	46 A	845.7
03U079	923.4	06-Sep-95	48 A	845.4
03U079	923.4	29-May-96	51 A	846.8
03U079	923.4	04-Sep-96	52 A	845.7
03U079	923.4	02-Dec-96	53 A	844.9
03U079	923.4	28-May-97	55 A	845.7
03U082	898.4	02-Sep-94	44 A	862.1
03U082	898.4	09-Mar-95	46 A	862.8
03U082	898.4	06-Sep-95	48 A	862.0
03U082	898.4	29-May-96	51 A	863.4
03U082	898.4	04-Sep-96	52 A	860.1
03U082	898.4	02-Dec-96	53 A	861.5
03U082	898.4	28-May-97	55 A	861.3
03U083	891.3	02-Sep-94	44 A	855.8
03U083	891.3	09-Mar-95	46 A	856.0
03U083	891.3	06-Sep-95	48 A	855.4
03U083	891.3	29-May-96	51 A	856.6
03U083	891.3	04-Sep-96	52 A	854.5
03U083	891.3	02-Dec-96	53 A	854.9
03U083	891.3	28-May-97	55 A	855.0
03U084	898.4	02-Sep-94	44 A	846.4
03U084	898.4	09-Mar-95	46 A	846.2
03U084	898.4	06-Sep-95	48 A	845.7
03U084	898.4	29-May-96	51 A	847.3
03U084	898.4	04-Sep-96	52 A	845.5
03U084	898.4	02-Dec-96	53 A	845.5
03U084	898.4	28-May-97	55 A	845.6
03U087	1004.1	02-Sep-94	44 A	857.1
03U087	1004.1	09-Mar-95	46 A	857.3
03U087	1004.1	06-Sep-95	48 A	856.6
03U087	1004.1	29-May-96	51 A	857.7
03U087	1004.1	04-Sep-96	52 A	855.9
03U087	1004.1	02-Dec-96	53 A	855.8
03U087	1004.1	28-May-97	55 A	856.1
03U088	983.7	02-Sep-94	44 A	857.5
03U088	983.7	09-Mar-95	46 A	857.8
03U088	983.7	06-Sep-95	48 A	857.1
03U088	983.7	29-May-96	51 A	858.2
03U088	983.7	04-Sep-96	52 A	856.4
03U088	983.7	02-Dec-96	53 A	856.3
03U088	983.7	28-May-97	55 A	856.6
03U089	973.0	02-Sep-94	44 A	857.5
03U089	973.0	09-Mar-95	46 A	857.7
03U089	973.0	06-Sep-95	48 A	857.0
03U089	973.0	29-May-96	51 A	858.1
03U089	973.0	04-Sep-96	52 A	856.3
03U089	973.0	02-Dec-96	53 A	856.3
03U089	973.0	28-May-97	55 A	856.5
03U090	982.2	02-Sep-94	44 A	856.0
03U090	982.2	09-Mar-95	46 A	856.1
03U090	982.2	06-Sep-95	48 A	855.3
03U090	982.2	29-May-96	51 A	856.5
03U090	982.2	04-Sep-96	52 A	855.1
03U090	982.2	02-Dec-96	53 A	854.7
03U090	982.2	28-May-97	55 A	855.0
03U092	960.4	02-Sep-94	44 A	855.0
03U092	960.4	08-Sep-94	44 F	854.9
03U092	960.4	09-Mar-95	46 A	855.0
03U092	960.4	06-Sep-95	48 A	854.2
03U092	960.4	29-May-96	51 A	855.3
03U092	960.4	04-Sep-96	52 A	854.1
03U092	960.4	02-Dec-96	53 A	853.6
03U092	960.4	28-May-97	55 A	854.0
03U093	993.6	02-Sep-94	44 A	855.0
03U093	993.6	09-Mar-95	46 A	855.1
03U093	993.6	06-Sep-95	48 A	854.4
03U093	993.6	29-May-96	51 A	855.4
03U093	993.6	04-Sep-96	52 A	854.1
03U093	993.6	02-Dec-96	53 A	853.7
03U093	993.6	28-May-97	55 A	854.1
03U094	997.0	02-Sep-94	44 A	855.2
03U094	997.0	09-Mar-95	46 A	855.2
03U094	997.0	06-Sep-95	48 A	854.4
03U094	997.0	29-May-96	51 A	855.5
03U094	997.0	04-Sep-96	52 A	854.3
03U094	997.0	02-Dec-96	53 A	853.8
03U094	997.0	28-May-97	55 A	854.2
03U096	994.4	02-Sep-94	44 A	854.9
03U096	994.4	09-Mar-95	46 A	855.1
03U096	994.4	06-Sep-95	48 A	854.4
03U096	994.4	29-May-96	51 A	855.5
03U096	994.4	04-Sep-96	52 A	854.0
03U096	994.4	02-Dec-96	53 A	853.8
03U096	994.4	28-May-97	55 A	854.1
03U097	937.4	09-Mar-95	46 F	863.2
03U097	937.4	29-May-96	51 A	863.4
03U097	937.4	29-May-97	55 A	861.6
03U099	952.3	09-Mar-95	46 F	856.5
03U099	952.3	29-May-96	51 A	856.7
03U099	952.3	29-May-97	55 A	855.5
03U111	924.7	02-Sep-94	44 A	862.4
03U111	924.7	09-Mar-95	46 A	863.2

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03U111	924.7	06-Sep-95	48 A	862.3
03U111	924.7	29-May-96	51 A	863.5
03U111	924.7	04-Sep-96	52 A	860.9
03U111	924.7	02-Dec-96	53 A	861.5
03U111	924.7	28-May-97	55 A	861.8
03U112	978.1	02-Sep-94	44 A	856.5
03U112	978.1	12-Sep-94	44 F	856.4
03U112	978.1	09-Mar-95	46 A	856.6
03U112	978.1	06-Sep-95	48 A	855.8
03U112	978.1	29-May-96	51 A	857.0
03U112	978.1	04-Sep-96	52 A	835.6
03U112	978.1	02-Dec-96	53 A	855.1
03U112	978.1	28-May-97	55 A	855.5
03U113	974.2	02-Sep-94	44 A	856.9
03U113	974.2	09-Mar-95	46 A	857.1
03U113	974.2	06-Sep-95	48 A	856.3
03U113	974.2	29-May-96	51 A	857.4
03U113	974.2	04-Sep-96	52 A	855.9
03U113	974.2	02-Dec-96	53 A	855.6
03U113	974.2	28-May-97	55 A	855.9
03U114	973.1	08-Sep-94	44 F	856.0
03U114	973.1	13-Mar-95	46 F	856.0
03U114	973.1	08-Sep-95	48 F	855.3
03U114	973.1	29-May-96	51 A	856.4
03U114	973.1	06-Sep-96	52 A	855.1
03U114	973.1	29-May-97	55 A	855.0
03U121	970.5	12-Sep-94	44 F	856.5
03U121	970.5	22-Mar-95	46 F	856.6
03U121	970.5	29-May-96	51 A	856.9
03U124	1004.5	08-Sep-94	44 F	857.7
03U124	1004.5	17-Mar-95	46 F	857.8
03U124	1004.5	12-Sep-95	48 F	856.5
03U124	1004.5	29-May-96	51 A	857.6
03U124	1004.5	06-Sep-96	52 A	856.0
03U129	911.1	08-Mar-95	46 F	863.7
03U129	911.1	29-May-96	51 A	864.4
03U301	955.0	02-Sep-94	44 A	839.1
03U301	955.0	09-Mar-95	46 A	836.3
03U301	955.0	06-Sep-95	48 A	836.9
03U301	955.0	29-May-96	51 A	851.2
03U301	955.0	04-Sep-96	52 A	850.2
03U301	955.0	02-Dec-96	53 A	839.3
03U301	955.0	28-May-97	55 A	838.6
03U314	975.7	02-Sep-94	44 A	846.3
03U314	975.7	09-Mar-95	46 A	850.4
03U314	975.7	06-Sep-95	48 A	846.4
03U314	975.7	29-May-96	51 A	846.4
03U314	975.7	04-Sep-96	52 A	837.7
03U314	975.7	02-Dec-96	53 A	844.4
03U314	975.7	28-May-97	55 A	847.1
03U315	963.0	02-Sep-94	44 A	840.7
03U315	963.0	09-Mar-95	46 A	840.0
03U315	963.0	06-Sep-95	48 A	837.0
03U315	963.0	29-May-96	51 A	835.3
03U315	963.0	04-Sep-96	52 A	834.5
03U315	963.0	02-Dec-96	53 A	834.0
03U315	963.0	28-May-97	55 A	833.8
03U316	954.5	02-Sep-94	44 A	844.6
03U316	954.5	09-Mar-95	46 A	840.7
03U316	954.5	06-Sep-95	48 A	837.3
03U316	954.5	29-May-96	51 A	838.0
03U316	954.5	04-Sep-96	52 A	839.4
03U316	954.5	02-Dec-96	53 A	851.7
03U316	954.5	28-May-97	55 A	852.0
03U317	950.2	02-Sep-94	44 A	844.0
03U317	950.2	09-Mar-95	46 A	842.1
03U317	950.2	06-Sep-95	48 A	839.4
03U317	950.2	29-May-96	51 A	838.2
03U317	950.2	04-Sep-96	52 A	843.2
03U317	950.2	02-Dec-96	53 A	845.3
03U317	950.2	28-May-97	55 A	841.2
03U521	1004.6	08-Mar-95	46 F	857.2
03U521	1004.6	29-May-96	51 A	857.9
03U521	1004.6	28-May-97	55 A	856.4
03U647	961.3	02-Sep-94	44 A	853.0
03U647	961.3	09-Mar-95	46 A	852.7
03U647	961.3	06-Sep-95	48 A	851.9
03U647	961.3	29-May-96	51 A	853.2
03U647	961.3	04-Sep-96	52 A	851.9
03U647	961.3	02-Dec-96	53 A	851.3
03U647	961.3	28-May-97	55 A	851.8
03U648	959.8	02-Sep-94	44 A	852.9
03U648	959.8	09-Mar-95	46 A	853.0
03U648	959.8	06-Sep-95	48 A	852.1
03U648	959.8	29-May-96	51 A	853.4
03U648	959.8	04-Sep-96	52 A	852.1
03U648	959.8	02-Dec-96	53 A	851.6
03U648	959.8	28-May-97	55 A	852.0
03U658	963.0	02-Sep-94	44 A	853.7
03U658	963.0	09-Mar-95	46 A	853.7
03U658	963.0	06-Sep-95	48 A	852.9
03U658	963.0	29-May-96	51 A	854.1
03U658	963.0	04-Sep-96	52 A	852.9
03U658	963.0	02-Dec-96	53 A	852.4
03U658	963.0	28-May-97	55 A	852.7
03U659	956.5	02-Sep-94	44 A	851.4
03U659	956.5	09-Mar-95	46 A	851.3
03U659	956.5	06-Sep-95	48 A	850.5
03U659	956.5	29-May-96	51 A	851.9
03U659	956.5	04-Sep-96	52 A	850.8
03U659	956.5	02-Dec-96	53 A	850.0
03U659	956.5	28-May-97	55 A	850.5
03U671	930.4	02-Sep-94	44 A	848.5
03U671	930.4	09-Mar-95	46 A	848.2
03U671	930.4	06-Sep-95	48 A	847.9
03U671	930.4	29-May-96	51 A	849.0
03U671	930.4	04-Sep-96	52 A	848.0
03U671	930.4	02-Dec-96	53 A	847.2
03U671	930.4	28-May-97	55 A	847.9
03U672	923.1	02-Sep-94	44 A	850.5
03U672	923.1	09-Mar-95	46 A	850.6
03U672	923.1	06-Sep-95	48 A	850.0
03U672	923.1	29-May-96	51 A	851.0
03U672	923.1	04-Sep-96	52 A	850.0
03U672	923.1	02-Dec-96	53 A	849.5
03U672	923.1	29-May-97	55 A	849.7
03U673	897.2	19-Jul-94	44 A	844.9
03U673	897.2	02-Sep-94	44 A	843.9
03U673	897.2	10-Oct-94	45 A	843.0
03U673	897.2	10-Oct-94	45 A	843.0
03U673	897.2	27-Jan-95	46 A	843.4
03U673	897.2	06-Mar-95	46 A	843.3
03U673	897.2	09-Mar-95	46 A	843.3
03U673	897.2	21-Jun-95	47 A	843.6
03U673	897.2	05-Sep-95	48 A	842.5
03U673	897.2	06-Sep-95	48 A	842.6
03U673	897.2	14-Dec-95	49 A	843.3
03U673	897.2	05-Mar-96	50 A	843.3
03U673	897.2	28-May-96	51 A	843.8

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03U673	897.2	16-Sep-96	52 A	842.4
03U673	897.2	03-Dec-96	53 A	842.1
03U673	897.2	30-May-97	55 A	842.4
03U674	955.1	02-Sep-94	44 A	850.2
03U674	955.1	09-Mar-95	46 A	850.1
03U674	955.1	06-Sep-95	48 A	849.3
03U674	955.1	29-May-96	51 A	851.2
03U674	955.1	04-Sep-96	52 A	850.1
03U674	955.1	02-Dec-96	53 A	848.9
03U674	955.1	28-May-97	55 A	849.3
03U701	908.7	02-Sep-94	44 A	845.5
03U701	908.7	09-Mar-95	46 A	845.3
03U701	908.7	06-Sep-95	48 A	844.8
03U701	908.7	29-May-96	51 A	846.4
03U701	908.7	04-Sep-96	52 A	844.6
03U701	908.7	02-Dec-96	53 A	844.6
03U701	908.7	28-May-97	55 A	844.7
03U702	908.1	02-Sep-94	44 A	845.0
03U702	908.1	09-Mar-95	46 A	844.8
03U702	908.1	06-Sep-95	48 A	844.4
03U702	908.1	29-May-96	51 A	846.0
03U702	908.1	04-Sep-96	52 A	844.2
03U702	908.1	02-Dec-96	53 A	844.2
03U702	908.1	28-May-97	55 A	844.2
03U703	918.7	02-Sep-94	44 A	846.1
03U703	918.7	09-Mar-95	46 A	845.9
03U703	918.7	06-Sep-95	48 A	845.8
03U703	918.7	29-May-96	51 A	847.1
03U703	918.7	04-Sep-96	52 A	846.0
03U703	918.7	02-Dec-96	53 A	845.1
03U703	918.7	28-May-97	55 A	846.1
03U704	976.4	02-Sep-94	44 A	858.8
03U704	976.4	09-Mar-95	46 A	859.1
03U704	976.4	06-Sep-95	48 A	858.4
03U704	976.4	29-May-96	51 A	859.4
03U704	976.4	04-Sep-96	52 A	857.5
03U704	976.4	02-Dec-96	53 A	857.6
03U704	976.4	28-May-97	55 A	857.8
03U705	1047.2	02-Sep-94	44 A	859.3
03U705	1047.2	09-Mar-95	46 A	859.7
03U705	1047.2	06-Sep-95	48 A	858.8
03U705	1047.2	29-May-96	51 A	860.0
03U705	1047.2	04-Sep-96	52 A	857.8
03U705	1047.2	02-Dec-96	53 A	858.1
03U705	1047.2	28-May-97	55 A	858.3
03U706	918.3	02-Sep-94	44 A	858.9
03U706	918.3	09-Mar-95	46 A	859.3
03U706	918.3	06-Sep-95	48 A	858.4
03U706	918.3	29-May-96	51 A	859.5
03U706	918.3	04-Sep-96	52 A	857.4
03U706	918.3	02-Dec-96	53 A	858.0
03U706	918.3	29-May-97	55 A	858.0
03U707	916.1	02-Sep-94	44 A	859.4
03U707	916.1	09-Mar-95	46 A	859.9
03U707	916.1	06-Sep-95	48 A	858.9
03U707	916.1	29-May-96	51 A	860.1
03U707	916.1	04-Sep-96	52 A	857.8
03U707	916.1	02-Dec-96	53 A	858.5
03U707	916.1	29-May-97	55 A	858.5
03U708	919.8	02-Sep-94	44 A	847.8
03U708	919.8	09-Mar-95	46 A	847.6
03U708	919.8	06-Sep-95	48 A	847.3
03U708	919.8	29-May-96	51 A	848.3
03U708	919.8	04-Sep-96	52 A	847.2
03U708	919.8	02-Dec-96	53 A	846.6
03U708	919.8	28-May-97	55 A	847.2
03U709	910.1	02-Sep-94	44 A	846.7
03U709	910.1	09-Mar-95	46 A	846.6
03U709	910.1	06-Sep-95	48 A	846.1
03U709	910.1	29-May-96	51 A	847.4
03U709	910.1	04-Sep-96	52 A	846.0
03U709	910.1	02-Dec-96	53 A	845.8
03U709	910.1	28-May-97	55 A	846.1
03U710	944.7	02-Sep-94	44 A	848.1
03U710	944.7	09-Mar-95	46 A	847.9
03U710	944.7	06-Sep-95	48 A	847.6
03U710	944.7	29-May-96	51 A	848.6
03U710	944.7	04-Sep-96	52 A	847.7
03U710	944.7	02-Dec-96	53 A	846.8
03U710	944.7	28-May-97	55 A	847.5
03U711	906.9	02-Sep-94	44 A	846.0
03U711	906.9	09-Mar-95	46 A	846.0
03U711	906.9	06-Sep-95	48 A	845.4
03U711	906.9	29-May-96	51 A	846.6
03U711	906.9	04-Sep-96	52 A	845.2
03U711	906.9	02-Dec-96	53 A	845.2
03U711	906.9	28-May-97	55 A	845.3
03U715	961.0	02-Sep-94	44 A	853.9
03U715	961.0	09-Mar-95	46 A	853.9
03U715	961.0	06-Sep-95	48 A	853.1
03U715	961.0	29-May-96	51 A	854.3
03U715	961.0	04-Sep-96	52 A	853.0
03U715	961.0	02-Dec-96	53 A	852.6
03U715	961.0	28-May-97	55 A	853.0
03U716	950.1	02-Sep-94	44 A	852.5
03U716	950.1	09-Mar-95	46 A	652.6
03U716	950.1	06-Sep-95	48 A	851.9
03U716	950.1	29-May-96	51 A	852.9
03U716	950.1	04-Sep-96	52 A	851.6
03U716	950.1	02-Dec-96	53 A	851.5
03U716	950.1	28-May-97	55 A	851.9
03U801	912.2	02-Sep-94	44 A	846.6
03U801	912.2	09-Mar-95	46 A	846.6
03U801	912.2	06-Sep-95	48 A	846.0
03U801	912.2	29-May-96	51 A	847.3
03U801	912.2	04-Sep-96	52 A	846.0
03U801	912.2	07-Jul-97	56 A	846.5
03U803	898.1	02-Sep-94	44 A	845.5
03U803	898.1	12-Sep-94	44 F	845.5
03U803	898.1	09-Mar-95	46 A	845.7
03U803	898.1	06-Sep-95	48 A	845.1
03U803	898.1	29-May-96	51 A	846.1
03U803	898.1	04-Sep-96	52 A	845.0
03U803	898.1	05-Dec-96	53 A	884.9
03U803	898.1	29-May-97	55 A	844.9
03U804	910.1	02-Sep-94	44 A	846.1
03U804	910.1	09-Mar-95	46 A	846.1
03U804	910.1	06-Sep-95	48 A	845.4
03U804	910.1	29-May-96	51 A	846.7
03U804	910.1	04-Sep-96	52 A	845.3
03U804	910.1	02-Dec-96	53 A	845.2
03U804	910.1	29-May-97	55 A	845.3
03U805	905.3	02-Sep-94	44 A	844.4
03U805	905.3	09-Mar-95	46 A	844.5
03U805	905.3	06-Sep-95	48 A	843.8
03U805	905.3	29-May-96	51 A	845.2
03U805	905.3	04-Sep-96	52 A	843.5
03U805	905.3	02-Dec-96	53 A	843.7
03U805	905.3	29-May-97	55 A	843.6

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Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
03U806	909.6	02-Sep-94	44 A	844.8
03U806	909.6	09-Mar-95	46 A	844.7
03U806	909.6	06-Sep-95	48 A	844.1
03U806	909.6	29-May-96	51 A	845.6
03U806	909.6	04-Sep-96	52 A	843.9
03U811	908.2	23-Mar-95	46 F	843.0
03U811	908.2	29-May-96	51 A	843.6
03U811	908.2	06-Sep-96	52 A	841.9
03U811	908.2	03-Dec-96	53 A	842.5
03U811	908.2	29-May-97	55 A	842.1
03U815	872.6	23-Mar-95	46 F	836.8
03U815	872.6	29-May-96	51 A	838.2
03U815	872.6	06-Sep-96	52 A	835.2
03U815	872.6	03-Dec-96	53 A	836.4
03U815	872.6	29-May-97	55 A	835.4
03U821	878.0	15-Mar-95	46 F	835.2
03U821	878.0	29-May-96	51 A	835.6
03U821	878.0	06-Sep-96	52 A	833.2
03U821	878.0	03-Dec-96	53 A	834.3
03U821	878.0	29-May-97	55 A	833.1
03U822	876.7	15-Mar-95	46 F	835.6
03U824	879.9	15-Mar-95	46 F	834.5
03U824	879.9	29-May-96	51 A	835.3
03U824	879.9	06-Sep-96	52 A	832.9
03U824	879.9	03-Dec-96	53 A	834.0
03U824	879.9	29-May-97	55 A	832.8
03U831	888.6	16-Mar-95	46 F	833.8
03U831	888.6	29-May-96	51 A	835.2
03U831	888.6	06-Sep-96	52 A	832.8
03U831	888.6	03-Dec-96	53 A	833.9
03U831	888.6	29-May-97	55 A	832.5
03U832	884.8	19-Jul-94	44 A	833.5
03U832	884.8	10-Oct-94	45 A	832.7
03U832	884.8	27-Jan-95	46 A	833.4
03U832	884.8	06-Mar-95	46 A	833.2
03U832	884.8	21-Jun-95	47 A	833.0
03U832	884.8	05-Sep-95	48 A	832.6
03U832	884.8	14-Dec-95	49 A	833.3
03U832	884.8	05-Mar-96	50 A	833.6
03U832	884.8	28-May-96	51 A	834.3
03U832	884.8	16-Sep-96	52 A	831.3
03U832	884.8	03-Dec-96	53 A	832.3
03U832	884.8	30-May-97	55 A	831.4
03U841	911.5	02-Sep-94	44 A	841.3
04J077	912.3	02-Sep-94	44 A	841.7
04J077	912.3	09-Mar-95	46 A	841.4
04J077	912.3	06-Sep-95	48 A	840.7
04J077	912.3	29-May-96	51 A	841.7
04J077	912.3	04-Sep-96	52 A	840.1
04J077	912.3	02-Dec-96	53 A	840.1
04J077	912.3	28-May-97	55 A	840.2
04J702	908.3	02-Sep-94	44 A	843.9
04J702	908.3	09-Mar-95	46 A	843.6
04J702	908.3	06-Sep-95	48 A	843.1
04J702	908.3	29-May-96	51 A	844.4
04J702	908.3	04-Sep-96	52 A	842.7
04J702	908.3	02-Dec-96	53 A	842.7
04J702	908.3	28-May-97	55 A	842.9
04J708	919.2	02-Sep-94	44 A	845.3
04J708	919.2	09-Mar-95	46 A	845.1
04J708	919.2	06-Sep-95	48 A	844.5
04J708	919.2	29-May-96	51 A	845.8
04J708	919.2	04-Sep-96	52 A	844.2
04J708	919.2	02-Dec-96	53 A	844.0
04J708	919.2	28-May-97	55 A	844.2
04J713	895.9	02-Sep-94	44 A	844.2
04J713	895.9	09-Mar-95	46 A	842.9
04J713	895.9	06-Sep-95	48 A	842.7
04J713	895.9	29-May-96	51 A	844.3
04J713	895.9	04-Sep-96	52 A	842.4
04J713	895.9	02-Dec-96	53 A	843.7
04J713	895.9	28-May-97	55 A	843.8
04J714	891.6	02-Sep-94	44 A	845.0
04J714	891.6	09-Mar-95	46 A	844.5
04J714	891.6	06-Sep-95	48 A	844.2
04J714	891.6	29-May-96	51 A	845.8
04J714	891.6	04-Sep-96	52 A	843.7
04J714	891.6	02-Dec-96	53 A	845.0
04J714	891.6	28-May-97	55 A	844.9
04J834	946.1	12-Sep-94	44 F	800.6
04J834	946.1	27-Mar-95	46 F	807.5
04J834	946.1	11-Sep-95	48 F	800.9
04J834	946.1	29-May-96	51 A	810.9
04J834	946.1	06-Sep-96	52 A	797.9
04J834	946.1	03-Dec-96	53 A	807.8
04J834	946.1	29-May-97	55 A	804.7
04J835	940.4	12-Sep-94	44 F	798.4
04J835	940.4	27-Mar-95	46 F	805.6
04J835	940.4	12-Sep-95	48 F	796.9
04J864	906.2	19-Jul-94	44 A	825.9
04J864	906.2	10-Oct-94	45 A	825.0
04J864	906.2	27-Jan-95	46 A	826.8
04J864	906.2	06-Mar-95	46 A	826.9
04J864	906.2	21-Jun-95	47 A	824.2
04J864	906.2	05-Sep-95	48 A	824.8
04J864	906.2	14-Dec-95	49 A	827.2
04J864	906.2	05-Mar-96	50 A	827.5
04J864	906.2	28-May-96	51 A	826.5
04J864	906.2	16-Sep-96	52 A	823.6
04J864	906.2	03-Dec-96	53 A	826.0
04J864	906.2	30-May-97	55 A	825.1
04J866	908.5	19-Jul-94	44 A	826.7
04J866	908.5	10-Oct-94	45 A	825.7
04J866	908.5	27-Jan-95	46 A	827.5
04J866	908.5	06-Mar-95	46 A	827.6
04J866	908.5	21-Jun-95	47 A	825.1
04J866	908.5	05-Sep-95	48 A	825.6
04J866	908.5	14-Dec-95	49 A	827.8
04J866	908.5	05-Mar-96	50 A	828.1
04J866	908.5	28-May-96	51 A	827.2
04J866	908.5	16-Sep-96	52 A	824.8
04J866	908.5	03-Dec-96	53 A	826.5
04J866	908.5	30-May-97	55 A	825.8
04J882	884.8	12-Sep-94	44 F	745.4
04J882	884.8	27-Mar-95	46 F	772.1
04J882	884.8	11-Sep-95	48 F	770.0
04J882	884.8	29-May-96	51 A	775.6
04J882	884.8	06-Sep-96	52 A	762.0
04J882	884.8	03-Dec-96	53 A	772.8
04J882	884.8	29-May-97	55 A	769.3
04U001	888.8	02-Sep-94	44 A	845.6
04U001	888.8	09-Mar-95	46 A	845.2
04U001	888.8	06-Sep-95	48 A	844.8
04U001	888.8	29-May-96	51 A	846.4
04U001	888.8	04-Sep-96	52 A	844.2
04U001	888.8	02-Dec-96	53 A	845.2
04U001	888.8	28-May-97	55 A	845.0
04U002	920.4	02-Sep-94	44 A	845.7

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Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
04U002	920.4	09-Mar-95	46 A	845.5
04U002	920.4	06-Sep-95	48 A	844.9
04U002	920.4	29-May-96	51 A	846.1
04U002	920.4	04-Sep-96	52 A	844.7
04U002	920.4	02-Dec-96	53 A	844.4
04U002	920.4	28-May-97	55 A	844.6
04U003	943.2	02-Sep-94	44 A	846.9
04U003	943.2	09-Mar-95	46 A	847.0
04U003	943.2	06-Sep-95	48 A	846.5
04U003	943.2	29-May-96	51 A	847.7
04U003	943.2	04-Sep-96	52 A	846.3
04U003	943.2	02-Dec-96	53 A	845.9
04U003	943.2	28-May-97	55 A	846.2
04U007	903.1	02-Sep-94	44 A	856.8
04U007	903.1	09-Mar-95	46 A	857.5
04U007	903.1	06-Sep-95	48 A	857.1
04U007	903.1	08-Sep-95	48 F	856.4
04U007	903.1	29-May-96	51 A	857.6
04U007	903.1	04-Sep-96	52 A	855.6
04U007	903.1	02-Dec-96	53 A	855.7
04U007	903.1	28-May-97	55 A	855.7
04U012	880.2	02-Sep-94	44 A	858.4
04U012	880.2	09-Mar-95	46 A	859.0
04U012	880.2	06-Sep-95	48 A	857.8
04U012	880.2	29-May-96	51 A	859.4
04U012	880.2	04-Sep-96	52 A	856.0
04U012	880.2	02-Dec-96	53 A	857.8
04U012	880.2	28-May-97	55 A	857.3
04U020	954.8	02-Sep-94	44 A	851.6
04U020	954.8	09-Mar-95	46 A	851.6
04U020	954.8	06-Sep-95	48 A	850.8
04U020	954.8	29-May-96	51 A	852.2
04U020	954.8	04-Sep-96	52 A	850.7
04U020	954.8	02-Dec-96	53 A	850.6
04U020	954.8	28-May-97	55 A	850.9
04U027	967.2	02-Sep-94	44 A	850.6
04U027	967.2	09-Mar-95	46 A	850.5
04U027	967.2	06-Sep-95	48 A	849.7
04U027	967.2	29-May-96	51 A	851.1
04U027	967.2	04-Sep-96	52 A	849.7
04U027	967.2	02-Dec-96	53 A	849.4
04U027	967.2	28-May-97	55 A	849.6
04U077	912.1	02-Sep-94	44 A	844.3
04U077	912.1	09-Mar-95	46 A	844.1
04U077	912.1	06-Sep-95	48 A	843.6
04U077	912.1	29-May-96	51 A	845.0
04U077	912.1	04-Sep-96	52 A	843.4
04U077	912.1	02-Dec-96	53 A	843.3
04U077	912.1	28-May-97	55 A	843.4
04U510	911.0	02-Sep-94	44 A	864.0
04U510	911.0	09-Mar-95	46 A	865.0
04U510	911.0	06-Sep-95	48 A	864.4
04U510	911.0	29-May-96	51 A	865.9
04U510	911.0	04-Sep-96	52 A	861.7
04U510	911.0	02-Dec-96	53 A	863.8
04U510	911.0	28-May-97	55 A	863.3
04U673	897.8	19-Jul-94	44 A	843.9
04U673	897.8	02-Sep-94	44 A	842.0
04U673	897.8	10-Oct-94	45 A	842.4
04U673	897.8	10-Oct-94	45 A	842.4
04U673	897.8	27-Jan-95	46 A	842.9
04U673	897.8	06-Mar-95	46 A	842.7
04U673	897.8	09-Mar-95	46 A	842.2
04U673	897.8	21-Jun-95	47 A	843.5
04U673	897.8	05-Sep-95	48 A	842.0
04U673	897.8	06-Sep-95	48 A	841.5
04U673	897.8	14-Dec-95	49 A	842.8
04U673	897.8	05-Mar-96	50 A	842.9
04U673	897.8	28-May-96	51 A	843.5
04U673	897.8	16-Sep-96	52 A	841.6
04U673	897.8	03-Dec-96	53 A	841.6
04U673	897.8	30-May-97	55 A	841.7
04U701	908.7	02-Sep-94	44 A	843.6
04U701	908.7	09-Mar-95	46 A	843.3
04U701	908.7	06-Sep-95	48 A	842.8
04U701	908.7	29-May-96	51 A	844.1
04U701	908.7	04-Sep-96	52 A	842.4
04U701	908.7	02-Dec-96	53 A	842.4
04U701	908.7	28-May-97	55 A	842.5
04U702	907.9	02-Sep-94	44 A	844.4
04U702	907.9	09-Mar-95	46 A	844.1
04U702	907.9	06-Sep-95	48 A	843.6
04U702	907.9	29-May-96	51 A	845.1
04U702	907.9	04-Sep-96	52 A	843.4
04U702	907.9	02-Dec-96	53 A	843.4
04U702	907.9	28-May-97	55 A	843.5
04U708	919.3	02-Sep-94	44 A	846.1
04U708	919.3	09-Mar-95	46 A	845.9
04U708	919.3	06-Sep-95	48 A	845.5
04U708	919.3	29-May-96	51 A	846.8
04U708	919.3	04-Sep-96	52 A	845.2
04U708	919.3	02-Dec-96	53 A	845.0
04U708	919.3	28-May-97	55 A	845.3
04U709	910.0	02-Sep-94	44 A	844.9
04U709	910.0	09-Mar-95	46 A	844.6
04U709	910.0	06-Sep-95	48 A	844.2
04U709	910.0	29-May-96	51 A	845.5
04U709	910.0	04-Sep-96	52 A	843.9
04U709	910.0	02-Dec-96	53 A	843.7
04U709	910.0	28-May-97	55 A	843.9
04U711	906.6	02-Sep-94	44 A	844.5
04U711	906.6	09-Mar-95	46 A	844.6
04U711	906.6	06-Sep-95	48 A	844.0
04U711	906.6	29-May-96	51 A	845.3
04U711	906.6	04-Sep-96	52 A	843.7
04U711	906.6	02-Dec-96	53 A	843.8
04U711	906.6	28-May-97	55 A	843.7
04U713	895.5	02-Sep-94	44 A	846.8
04U713	895.5	09-Mar-95	46 A	846.4
04U713	895.5	06-Sep-95	48 A	845.9
04U713	895.5	29-May-96	51 A	847.3
04U713	895.5	04-Sep-96	52 A	845.6
04U713	895.5	02-Dec-96	53 A	845.6
04U713	895.5	28-May-97	55 A	845.8
04U714	891.5	02-Sep-94	44 A	845.2
04U714	891.5	09-Mar-95	46 A	844.6
04U714	891.5	06-Sep-95	48 A	844.3
04U714	891.5	29-May-96	51 A	845.9
04U714	891.5	04-Sep-96	52 A	843.9
04U714	891.5	02-Dec-96	53 A	845.0
04U714	891.5	28-May-97	55 A	844.8
04U802	903.0	02-Sep-94	44 A	846.4
04U802	903.0	09-Mar-95	46 A	846.7
04U802	903.0	06-Sep-95	48 A	846.0
04U802	903.0	29-May-96	51 A	847.3
04U802	903.0	04-Sep-96	52 A	845.8
04U802	903.0	07-Jul-97	56 A	846.0
04U806	909.6	02-Sep-94	44 A	843.8
04U806	909.6	09-Mar-95	46 A	843.8
04U806	909.6	06-Sep-95	48 A	843.1
04U806	909.6	29-May-96	51 A	844.5

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
04U806	909.6	04-Sep-96	52 A	842.8
04U806	909.6	02-Dec-96	53 A	843.1
04U806	909.6	29-May-97	55 A	842.9
04U821	877.6	12-Sep-94	44 F	834.1
04U821	877.6	15-Mar-95	46 F	834.9
04U821	877.6	12-Sep-95	48 F	834.0
04U832	883.8	19-Jul-94	44 A	833.1
04U832	883.8	10-Oct-94	45 A	832.4
04U832	883.8	27-Jan-95	46 A	833.1
04U832	883.8	06-Mar-95	46 A	833.1
04U832	883.8	21-Jun-95	47 A	832.6
04U832	883.8	05-Sep-95	48 A	832.3
04U832	883.8	14-Dec-95	49 A	833.0
04U832	883.8	05-Mar-96	50 A	833.3
04U832	883.8	28-May-96	51 A	833.9
04U832	883.8	16-Sep-96	52 A	830.9
04U832	883.8	03-Dec-96	53 A	832.0
04U832	883.8	30-May-97	55 A	831.1
04U833	908.3	02-Sep-94	44 A	843.6
04U833	908.3	09-Mar-95	46 A	843.4
04U833	908.3	06-Sep-95	48 A	842.7
04U833	908.3	29-May-96	51 A	844.3
04U833	908.3	04-Sep-96	52 A	842.5
04U833	908.3	02-Dec-96	53 A	842.9
04U833	908.3	29-May-97	55 A	842.7
04U834	945.7	27-Mar-95	46 F	810.7
04U834	945.7	11-Sep-95	48 F	805.0
04U834	945.7	29-May-96	51 A	803.4
04U834	945.7	06-Sep-96	52 A	802.4
04U834	945.7	03-Dec-96	53 A	811.0
04U834	945.7	29-May-97	55 A	809.0
04U841	911.5	19-Jul-94	44 A	843.6
04U841	911.5	10-Oct-94	45 A	841.7
04U841	911.5	27-Jan-95	46 A	842.3
04U841	911.5	06-Mar-95	46 A	842.2
04U841	911.5	09-Mar-95	46 A	842.8
04U841	911.5	21-Jun-95	47 A	842.9
04U841	911.5	05-Sep-95	48 A	841.4
04U841	911.5	06-Sep-95	48 A	842.0
04U841	911.5	14-Dec-95	49 A	842.3
04U841	911.5	05-Mar-96	50 A	842.3
04U841	911.5	28-May-96	51 A	843.0
04U841	911.5	29-May-96	51 A	843.6
04U841	911.5	16-Sep-96	52 A	841.0
04U841	911.5	03-Dec-96	53 A	841.2
04U841	911.5	30-May-97	55 A	841.1
04U843	886.1	15-Mar-95	46 F	834.9
04U843	886.1	29-May-96	51 A	835.3
04U843	886.1	06-Sep-96	52 A	833.1
04U843	886.1	03-Dec-96	53 A	834.1
04U843	886.1	29-May-97	55 A	833.0
04U844	884.5	19-Jul-94	44 A	833.2
04U844	884.5	10-Oct-94	45 A	832.3
04U844	884.5	27-Jan-95	46 A	833.1
04U844	884.5	06-Mar-95	46 A	833.2
04U844	884.5	21-Jun-95	47 A	832.6
04U844	884.5	05-Sep-95	48 A	832.3
04U844	884.5	14-Dec-95	49 A	833.1
04U844	884.5	05-Mar-96	50 A	833.3
04U844	884.5	28-May-96	51 A	833.8
04U844	884.5	16-Sep-96	52 A	831.0
04U844	884.5	03-Dec-96	53 A	832.1
04U844	884.5	30-May-97	55 A	831.3
04U845	894.5	19-Jul-94	44 A	835.3
04U845	894.5	10-Oct-94	45 A	834.2
04U845	894.5	27-Jan-95	46 A	835.0
04U845	894.5	06-Mar-95	46 A	835.0
04U845	894.5	21-Jun-95	47 A	834.7
04U845	894.5	05-Sep-95	48 A	834.1
04U845	894.5	14-Dec-95	49 A	834.9
04U845	894.5	05-Mar-96	50 A	835.1
04U845	894.5	28-May-96	51 A	835.7
04U845	894.5	16-Sep-96	52 A	833.0
04U845	894.5	03-Dec-96	53 A	834.0
04U845	894.5	30-May-97	55 A	833.3
04U846	888.4	19-Jul-94	44 A	829.7
04U846	888.4	10-Oct-94	45 A	829.4
04U846	888.4	27-Jan-95	46 A	830.1
04U846	888.4	06-Mar-95	46 A	830.2
04U846	888.4	21-Jun-95	47 A	829.4
04U846	888.4	05-Sep-95	48 A	829.2
04U846	888.4	14-Dec-95	49 A	829.7
04U846	888.4	05-Mar-96	50 A	835.1
04U846	888.4	28-May-96	51 A	830.2
04U846	888.4	16-Sep-96	52 A	827.7
04U846	888.4	03-Dec-96	53 A	828.5
04U846	888.4	30-May-97	55 A	827.6
04U847	914.9	02-Sep-94	44 A	842.2
04U847	914.9	12-Sep-94	44 F	841.8
04U847	914.9	09-Mar-95	46 A	842.4
04U847	914.9	05-Sep-95	48 F	840.2
04U847	914.9	06-Sep-95	48 A	841.6
04U848	902.6	19-Jul-94	44 A	843.0
04U848	902.6	10-Oct-94	45 A	841.3
04U848	902.6	27-Jan-95	46 A	842.3
04U848	902.6	06-Mar-95	46 A	842.2
04U848	902.6	21-Jun-95	47 A	842.7
04U848	902.6	05-Sep-95	48 A	841.4
04U848	902.6	14-Dec-95	49 A	842.3
04U848	902.6	28-May-96	51 A	842.9
04U848	902.6	16-Sep-96	52 A	841.0
04U848	902.6	03-Dec-96	53 A	841.2
04U848	902.6	30-May-97	55 A	841.1
04U849	873.0	23-Mar-95	46 F	829.8
04U850	916.8	24-Mar-95	46 F	829.2
04U850	916.8	29-May-96	51 A	830.6
04U850	916.8	06-Sep-96	52 A	827.6
04U850	916.8	03-Dec-96	53 A	828.7
04U850	916.8	03-Mar-97	54 A	827.5
04U850	916.8	29-May-97	55 A	826.8
04U850	916.8	03-Sep-97	56 A	826.7
04U851	913.4	19-Jul-94	44 A	829.0
04U851	913.4	10-Oct-94	45 A	828.9
04U851	913.4	27-Jan-95	46 A	829.7
04U851	913.4	06-Mar-95	46 A	829.9
04U851	913.4	21-Jun-95	47 A	828.6
04U851	913.4	05-Sep-95	48 A	828.5
04U851	913.4	14-Dec-95	49 A	829.5
04U851	913.4	05-Mar-96	50 A	829.9
04U851	913.4	28-May-96	51 A	829.9
04U851	913.4	16-Sep-96	52 A	827.3
04U851	913.4	03-Dec-96	53 A	828.5
04U851	913.4	30-May-97	55 A	828.0
04U852	902.9	19-Jul-94	44 A	826.6
04U852	902.9	10-Oct-94	45 A	826.8
04U852	902.9	27-Jan-95	46 A	827.9
04U852	902.9	06-Mar-95	46 A	828.1
04U852	902.9	21-Jun-95	47 A	826.1
04U852	902.9	05-Sep-95	48 A	826.0
04U852	902.9	14-Dec-95	49 A	827.7
04U852	902.9	05-Mar-96	50 A	828.2
04U852	902.9	28-May-96	51 A	827.8

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
04U854	889.8	19-Jul-94	44 A	833.6
04U854	889.8	10-Oct-94	45 A	832.8
04U854	889.8	27-Jan-95	46 A	833.5
04U854	889.8	06-Mar-95	46 A	833.5
04U854	889.8	21-Jun-95	47 A	833.0
04U854	889.8	05-Sep-95	48 A	832.7
04U854	889.8	14-Dec-95	49 A	833.5
04U854	889.8	05-Mar-96	50 A	833.7
04U854	889.8	28-May-96	51 A	834.4
04U854	889.8	16-Sep-96	52 A	831.4
04U854	889.8	03-Dec-96	53 A	832.6
04U854	889.8	30-May-97	55 A	831.7
04U855	896.1	23-Mar-95	46 F	833.0
04U855	896.1	29-May-96	51 A	833.7
04U855	896.1	06-Sep-96	52 A	831.6
04U855	896.1	03-Dec-96	53 A	832.4
04U855	896.1	29-May-97	55 A	831.6
04U859	901.0	19-Jul-94	44 A	842.6
04U859	901.0	10-Oct-94	45 A	840.8
04U859	901.0	27-Jan-95	46 A	841.0
04U859	901.0	06-Mar-95	46 A	840.9
04U859	901.0	21-Jun-95	47 A	841.4
04U859	901.0	05-Sep-95	48 A	840.1
04U859	901.0	14-Dec-95	49 A	841.0
04U859	901.0	05-Mar-96	50 A	841.0
04U859	901.0	28-May-96	51 A	841.6
04U859	901.0	16-Sep-96	52 A	839.5
04U859	901.0	03-Dec-96	53 A	839.8
04U859	901.0	30-May-97	55 A	839.8
04U860	893.9	19-Jul-94	44 A	833.4
04U860	893.9	10-Oct-94	45 A	832.8
04U860	893.9	27-Jan-95	46 A	833.4
04U860	893.9	06-Mar-95	46 A	833.4
04U860	893.9	21-Jun-95	47 A	833.0
04U860	893.9	05-Sep-95	48 A	832.6
04U860	893.9	14-Dec-95	49 A	833.4
04U860	893.9	05-Mar-96	50 A	833.6
04U860	893.9	28-May-96	51 A	834.3
04U860	893.9	16-Sep-96	52 A	831.4
04U860	893.9	03-Dec-96	53 A	832.5
04U860	893.9	30-May-97	55 A	831.4
04U861	888.8	19-Jul-94	44 A	833.8
04U861	888.8	10-Oct-94	45 A	833.0
04U861	888.8	27-Jan-95	46 A	833.6
04U861	888.8	06-Mar-95	46 A	833.7
04U861	888.8	21-Jun-95	47 A	833.2
04U861	888.8	05-Sep-95	48 A	832.8
04U861	888.8	14-Dec-95	49 A	833.6
04U861	888.8	05-Mar-96	50 A	833.8
04U861	888.8	28-May-96	51 A	834.5
04U861	888.8	16-Sep-96	52 A	831.6
04U861	888.8	03-Dec-96	53 A	832.7
04U861	888.8	30-May-97	55 A	831.8
04U863	893.1	19-Jul-94	44 A	832.8
04U863	893.1	10-Oct-94	45 A	832.2
04U863	893.1	27-Jan-95	46 A	832.9
04U863	893.1	06-Mar-95	46 A	833.0
04U863	893.1	21-Jun-95	47 A	832.4
04U863	893.1	05-Sep-95	48 A	832.1
04U863	893.1	14-Dec-95	49 A	832.8
04U863	893.1	05-Mar-96	50 A	833.1
04U863	893.1	28-May-96	51 A	833.8
04U863	893.1	16-Sep-96	52 A	830.9
04U863	893.1	03-Dec-96	53 A	831.9
04U863	893.1	30-May-97	55 A	830.9
04U864	906.4	19-Jul-94	44 A	829.6
04U864	906.4	10-Oct-94	45 A	829.1
04U864	906.4	27-Jan-95	46 A	829.7
04U864	906.4	06-Mar-95	46 A	829.9
04U864	906.4	21-Jun-95	47 A	829.1
04U864	906.4	05-Sep-95	48 A	829.0
04U864	906.4	14-Dec-95	49 A	829.5
04U864	906.4	05-Mar-96	50 A	830.0
04U864	906.4	28-May-96	51 A	830.2
04U864	906.4	16-Sep-96	52 A	827.6
04U864	906.4	03-Dec-96	53 A	828.6
04U864	906.4	30-May-97	55 A	828.7
04U865	913.0	19-Jul-94	44 A	830.0
04U865	913.0	10-Oct-94	45 A	829.5
04U865	913.0	27-Jan-95	46 A	830.1
04U865	913.0	06-Mar-95	46 A	830.2
04U865	913.0	21-Jun-95	47 A	829.5
04U865	913.0	05-Sep-95	48 A	829.3
04U865	913.0	14-Dec-95	49 A	829.7
04U865	913.0	05-Mar-96	50 A	830.4
04U865	913.0	28-May-96	51 A	830.6
04U865	913.0	16-Sep-96	52 A	827.8
04U865	913.0	03-Dec-96	53 A	879.0
04U865	913.0	30-May-97	55 A	829.1
04U866	908.4	19-Jul-94	44 A	828.7
04U866	908.4	10-Oct-94	45 A	828.3
04U866	908.4	27-Jan-95	46 A	829.0
04U866	908.4	06-Mar-95	46 A	829.2
04U866	908.4	21-Jun-95	47 A	828.2
04U866	908.4	05-Sep-95	48 A	828.1
04U866	908.4	14-Dec-95	49 A	828.4
04U866	908.4	05-Mar-96	50 A	829.1
04U866	908.4	28-May-96	51 A	829.1
04U866	908.4	16-Sep-96	52 A	826.7
04U866	908.4	03-Dec-96	53 A	827.4
04U866	908.4	30-May-97	55 A	826.2
04U871	957.1	20-Mar-95	46 F	819.2
04U871	957.1	29-May-96	51 A	818.5
04U871	957.1	06-Sep-96	52 A	816.2
04U871	957.1	03-Dec-96	53 A	818.9
04U871	957.1	03-Mar-97	54 A	819.4
04U871	957.1	29-May-97	55 A	818.9
04U871	957.1	03-Sep-97	56 A	817.7
04U872	952.2	24-Mar-95	46 F	817.1
04U872	952.2	29-May-96	51 A	816.4
04U872	952.2	06-Sep-96	52 A	814.3
04U872	952.2	03-Dec-96	53 A	817.7
04U872	952.2	29-May-97	55 A	817.4
04U875	1013.6	24-Mar-95	46 F	817.9
04U875	1013.6	29-May-96	51 A	818.5
04U875	1013.6	06-Sep-96	52 A	816.2
04U875	1013.6	03-Dec-96	53 A	818.0
04U875	1013.6	03-Mar-97	54 A	818.6
04U875	1013.6	29-May-97	55 A	818.5
04U875	1013.6	03-Sep-97	56 A	817.4
04U877	920.9	19-Jul-94	44 A	829.0
04U877	920.9	10-Oct-94	45 A	828.8
04U877	920.9	27-Jan-95	46 A	829.5
04U877	920.9	06-Mar-95	46 A	829.8
04U877	920.9	21-Jun-95	47 A	828.6
04U877	920.9	05-Sep-95	48 A	828.7
04U877	920.9	14-Dec-95	49 A	829.1
04U877	920.9	05-Mar-96	50 A	829.5
04U877	920.9	28-May-96	51 A	829.5
04U877	920.9	16-Sep-96	52 A	827.1
04U877	920.9	03-Dec-96	53 A	827.9
04U877	920.9	30-May-97	55 A	827.5
04U879	945.6	23-Mar-95	46 F	829.1
04U879	945.6	29-May-96	51 A	829.2
04U879	945.6	06-Sep-96	52 A	827.4

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
04U879	945.6	03-Dec-96	53 A	827.9
04U879	945.6	03-Mar-97	54 A	827.8
04U879	945.6	29-May-97	55 A	827.6
04U879	945.6	03-Sep-97	56 A	826.9
04U880	972.0	25-Mar-95	46 F	816.7
04U880	972.0	29-May-96	51 A	814.9
04U880	972.0	06-Sep-96	52 A	812.3
04U880	972.0	03-Dec-96	53 A	815.0
04U880	972.0	29-May-97	55 A	814.8
04U881	976.5	25-Mar-95	46 F	813.8
04U881	976.5	29-May-96	51 A	812.6
04U881	976.5	06-Sep-96	52 A	808.9
04U881	976.5	03-Dec-96	53 A	813.8
04U881	976.5	29-May-97	55 A	813.0
04U882	917.7	12-Sep-94	44 F	803.8
04U882	917.7	27-Mar-95	46 F	809.7
04U882	917.7	11-Sep-95	48 F	799.9
04U882	917.7	29-May-96	51 A	801.6
04U882	917.7	06-Sep-96	52 A	801.3
04U882	917.7	03-Dec-96	53 A	810.2
04U882	917.7	29-May-97	55 A	808.0
04U883	948.6	27-Mar-95	46 F	807.9
110485		02-Aug-95	48 F	-246.0
110485		02-Dec-96	53 A	-252.0
110485		02-Jun-97	55 A	-250.0
161432	919.0	02-Aug-95	48 F	655.9
161432	919.0	02-Jun-97	55 A	666.0
200524	946.5	29-May-96	51 A	777.5
200524	946.5	06-Sep-96	52 A	812.0
200524	946.5	02-Dec-96	53 A	777.5
200524	946.5	05-Jun-97	55 A	812.6
200803	1012.7	29-May-96	51 A	779.7
200803	1012.7	06-Sep-96	52 A	807.9
200803	1012.7	02-Dec-96	53 A	812.7
200803	1012.7	05-Jun-97	55 A	807.2
200804	1015	29-May-96	51 A	785.0
200804	1015	06-Sep-96	52 A	813.3
200804	1015	02-Dec-96	53 A	788.0
200804	1015	05-Jun-97	55 A	812.9
206791	920.0	02-Aug-95	48 F	814.1
206792	1000.8	08-Sep-95	48 F	814.8
206792	1000.8	29-May-96	51 A	819.1
206792	1000.8	06-Sep-96	52 A	815.1
206792	1000.8	03-Dec-96	53 A	815.1
206792	1000.8	03-Mar-97	54 A	815.1
206792	1000.8	02-Jun-97	55 A	816.1
206792	1000.8	03-Sep-97	56 A	816.1
206793	999	29-May-96	51 A	828.9
206793	999	06-Sep-96	52 A	818.9
206793	999	03-Dec-96	53 A	818.9
206793	999	03-Mar-97	54 A	818.9
206793	999	02-Jun-97	55 A	819.9
206793	999	03-Sep-97	56 A	818.9
206794	994.0	02-Aug-95	48 F	539.0
206794	994.0	02-Jun-97	55 A	615.0
206795	993.0	02-Aug-95	48 F	584.0
206795	993.0	02-Jun-97	55 A	666.3
206796	965.0	08-Sep-95	48 F	702.0
206796	965.0	29-May-96	51 A	717.0
206796	965.0	06-Sep-96	52 A	729.0
206796	965.0	03-Dec-96	53 A	755.0
206796	965.0	02-Jun-97	55 A	759.6
206797	1025.8	29-May-96	51 A	765.2
206797	1025.8	06-Sep-96	52 A	790.2
206797	1025.8	03-Dec-96	53 A	803.2
206797	1025.8	02-Jun-97	55 A	804.2
234546	880	29-May-96	51 A	778.4
234547	870	29-May-96	51 A	808.4
409546	867.0	19-Jul-94	44 A	831.8
409546	867.0	10-Oct-94	45 A	831.1
409546	867.0	27-Jan-95	46 A	831.9
409546	867.0	06-Mar-95	46 A	831.9
409546	867.0	21-Jun-95	47 A	831.4
409546	867.0	05-Sep-95	48 A	831.1
409546	867.0	14-Dec-95	49 A	831.6
409546	867.0	05-Mar-96	50 A	832.0
409546	867.0	28-May-96	51 A	832.6
409546	867.0	16-Sep-96	52 A	829.7
409546	867.0	03-Dec-96	53 A	830.6
409546	867.0	30-May-97	55 A	829.7
409547	896.2	19-Jul-94	44 A	835.0
409547	896.2	10-Oct-94	45 A	833.8
409547	896.0	27-Jan-95	46 A	834.5
409547	896.0	06-Mar-95	46 A	834.6
409547	896.0	21-Jun-95	47 A	834.3
409547	896.0	05-Sep-95	48 A	833.7
409547	896.0	14-Dec-95	49 A	834.5
409547	896.0	05-Mar-96	50 A	834.6
409547	896.0	28-May-96	51 A	835.2
409547	896.0	16-Sep-96	52 A	832.5
409547	896.0	03-Dec-96	53 A	833.5
409547	896.0	30-May-97	55 A	834.7
409548	867.0	19-Jul-94	44 A	830.7
409548	867.0	10-Oct-94	45 A	830.1
409548	867.0	27-Jan-95	46 A	830.9
409548	867.0	06-Mar-95	46 A	831.0
409548	867.0	21-Jun-95	47 A	830.3
409548	867.0	05-Sep-95	48 A	830.1
409548	867.0	14-Dec-95	49 A	830.6
409548	867.0	05-Mar-96	50 A	831.0
409548	867.0	28-May-96	51 A	831.4
409548	867.0	16-Sep-96	52 A	828.7
409548	867.0	03-Dec-96	53 A	829.5
409548	867.0	30-May-97	55 A	828.6
409549	921.3	29-May-96	51 A	829.4
409549	921.3	06-Sep-96	52 A	827.6
409549	921.3	03-Dec-96	53 A	828.2
409549	921.3	03-Mar-97	54 A	827.9
409549	921.3	29-May-97	55 A	827.5
409549	921.3	03-Sep-97	56 A	827.0
409550	912.0	02-Sep-94	44 A	843.2
409550	912.0	12-Sep-94	44 F	841.4
409550	912.0	09-Mar-95	46 A	843.2
409550	912.0	06-Sep-95	48 A	842.5
409550	912.0	29-May-96	51 A	844.1
409550	912.0	04-Sep-96	52 A	842.2
409550	912.0	03-Dec-96	53 A	842.4
409550	912.0	29-May-97	55 A	842.4
409555	923.0	25-Mar-95	46 F	821.5
409555	923.0	29-May-96	51 A	820.6
409555	923.0	06-Sep-96	52 A	818.1
409555	923.0	03-Dec-96	53 A	821.2
409555	923.0	03-Mar-97	54 A	821.3
409555	923.0	29-May-97	55 A	820.5

APPENDIX C.1
Groundwater Elevation Data (FY'95 - FY'97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
409555	923.0	03-Sep-97	56 A	819.6
409556	960.0	17-Mar-95	46 F	828.8
409556	960.0	29-May-96	51 A	827.9
409556	960.0	06-Sep-96	52 A	826.5
409556	960.0	03-Dec-96	53 A	826.6
409556	960.0	29-May-97	55 A	826.3
409557	896.3	19-Jul-94	44 A	837.7
409557	896.3	10-Oct-94	45 A	836.2
409557	896.0	27-Jan-95	46 A	836.3
409557	896.0	06-Mar-95	46 A	836.3
409557	896.0	21-Jun-95	47 A	836.1
409557	896.0	05-Sep-95	48 A	835.5
409557	896.0	14-Dec-95	49 A	836.3
409557	896.0	05-Mar-96	50 A	836.3
409557	896.0	28-May-96	51 A	837.0
409557	896.0	16-Sep-96	52 A	834.5
409557	896.0	03-Dec-96	53 A	835.0
409557	896.0	30-May-97	55 A	832.8
409596	880.4	20-Mar-95	46 F	834.0
409597	880.3	20-Mar-95	46 F	833.8
476837	909.6	19-Jul-94	44 A	833.1
476837	909.6	10-Oct-94	45 A	832.4
476837	909.6	27-Jan-95	46 A	833.1
476837	909.6	06-Mar-95	46 A	833.2
476837	909.6	21-Jun-95	47 A	832.9
476837	909.6	05-Sep-95	48 A	832.4
476837	909.6	14-Dec-95	49 A	833.0
476837	909.6	05-Mar-96	50 A	833.3
476837	909.6	28-May-96	51 A	834.1
476837	909.6	16-Sep-96	52 A	831.1
476837	909.6	03-Dec-96	53 A	832.1
476837	909.6	30-May-97	55 A	831.1
482083	885.7	06-Sep-94	44 A	879.5
482083	885.7	06-Mar-95	46 A	877.9
482083	885.7	05-Sep-95	48 A	880.3
482083	885.7	03-Jun-96	51 A	880.7
482083	885.7	03-Sep-96	52 A	879.3
482083	885.7	02-Dec-96	53 A	879.7
482083	885.7	02-Jun-97	55 A	879.6
482084	889.7	06-Sep-94	44 A	884.5
482084	889.7	06-Mar-95	46 A	883.9
482084	889.7	05-Sep-95	48 A	885.0
482084	889.7	03-Jun-96	51 A	885.9
482084	889.7	03-Sep-96	52 A	884.4
482084	889.7	02-Dec-96	53 A	886.3
482084	889.7	02-Jun-97	55 A	884.5
482085	889.3	06-Sep-94	44 A	886.3
482085	889.3	06-Mar-95	46 A	883.4
482085	889.3	05-Sep-95	48 A	886.3
482085	889.3	03-Jun-96	51 A	887.3
482085	889.3	03-Sep-96	52 A	886.2
482085	889.3	02-Dec-96	53 A	886.8
482085	889.3	02-Jun-97	55 A	886.8
482086	958.6	02-Sep-94	44 A	DRY
482086	958.6	09-Mar-95	46 A	DRY
482086	958.6	07-Sep-95	48 A	DRY
482086	958.6	28-May-96	51 A	949.8
482086	958.6	05-Sep-96	52 A	DRY
482086	958.6	02-Dec-96	53 A	949.6
482086	958.6	02-Jun-97	55 A	DRY
482087	958.7	02-Sep-94	44 A	DRY
482087	958.7	09-Mar-95	46 A	DRY
482087	958.7	07-Sep-95	48 A	944.3
482087	958.7	28-May-96	51 A	DRY
482087	958.7	05-Sep-96	52 A	DRY
482087	958.7	02-Dec-96	53 A	943.8
482087	958.7	02-Jun-97	55 A	943.7
482088	956.1	02-Sep-94	44 A	DRY
482088	956.1	09-Mar-95	46 A	DRY
482088	956.1	07-Sep-95	48 A	DRY
482088	956.1	28-May-96	51 A	DRY
482088	956.1	05-Sep-96	52 A	DRY
482088	956.1	02-Dec-96	53 A	DRY
482088	956.1	02-Jun-97	55 A	DRY
482089	955.9	02-Sep-94	44 A	DRY
482089	955.9	09-Mar-95	46 A	DRY
482089	955.9	07-Sep-95	48 A	DRY
482089	955.9	28-May-96	51 A	DRY
482089	955.9	05-Sep-96	52 A	DRY
482089	955.9	02-Dec-96	53 A	945.8
482089	955.9	02-Jun-97	55 A	DRY
482090	954.6	02-Sep-94	44 A	DRY
482090	954.6	09-Mar-95	46 A	DRY
482090	954.6	07-Sep-95	48 A	DRY
482090	954.6	28-May-96	51 A	945.4
482090	954.6	05-Sep-96	52 A	DRY
482090	954.6	02-Dec-96	53 A	947.1
482090	954.6	02-Jun-97	55 A	DRY
500691	891.3	19-Jul-94	44 A	832.4
500691	891.3	10-Oct-94	45 A	831.9
500691	891.3	27-Jan-95	46 A	832.6
500691	891.3	06-Mar-95	46 A	832.7
500691	891.2	21-Jun-95	47 A	831.9
500691	891.2	05-Sep-95	48 A	830.6
500691	891.2	14-Dec-95	49 A	832.3
500691	891.2	05-Mar-96	50 A	832.7
500691	891.2	28-May-96	51 A	833.2
500691	891.2	16-Sep-96	52 A	830.4
500691	891.2	03-Dec-96	53 A	831.5
500691	891.2	30-May-97	55 A	830.6
500691	891.2	02-Sep-97	56 A	830.2
509083	914.66	02-Aug-95	48 F	657.7
509083	914.66	02-Jun-97	55 A	620.7
512761	947	06-Sep-96	52 A	790.5
512761	947	29-May-97	55 A	799.6
519288	966.8	02-Sep-94	44 A	858.1
519288	966.8	09-Mar-95	46 A	858.4
519288	966.8	14-Mar-95	46 F	858.3
519288	966.8	06-Sep-95	48 A	857.7
519288	966.8	08-Sep-95	48 F	854.3
519288	966.8	29-May-96	51 A	858.8
519288	966.8	06-Sep-96	52 A	857.1
519288	966.8	03-Dec-96	53 A	856.4
519288	966.8	28-May-97	55 A	857.2
519289	978.7	02-Sep-94	44 A	857.9
519289	978.7	09-Mar-95	46 A	858.1
519289	978.7	14-Mar-95	46 F	858.0
519289	978.7	06-Sep-95	48 A	857.4
519289	978.7	08-Sep-95	48 F	854.5
519289	978.7	29-May-96	51 A	858.5
519289	978.7	06-Sep-96	52 A	856.7
519289	978.7	03-Dec-96	53 A	856.7
519289	978.7	28-May-97	55 A	856.9
519290	969.3	02-Sep-94	44 A	858.5
519290	969.3	09-Mar-95	46 A	858.8
519290	969.3	14-Mar-95	46 F	858.7
519290	969.3	06-Sep-95	48 A	858.1
519290	969.3	08-Sep-95	48 F	855.8
519290	969.3	29-May-96	51 A	859.1

APPENDIX C.1
Groundwater Elevation Data (FY95 - FY97)

Well	TOS (1) (ft)	Date	Qtr (2)	Groundwater Elev.(ft)
519290	969.3	06-Sep-96	52 A	857.2
519290	969.3	03-Dec-96	53 A	857.4
519290	969.3	28-May-97	55 A	857.5
519291	997.5	08-Sep-94	44 F	856.8
519291	997.5	17-Mar-95	46 F	856.9
519291	997.5	12-Sep-95	48 F	854.0
519291	997.5	29-May-96	51 A	857.3
519291	997.5	06-Sep-96	52 A	855.9
519291	997.5	03-Dec-96	53 A	855.6
519291	997.5	28-May-97	55 A	855.9
520931	910.8	19-Jul-94	44 A	817.8
520931	910.8	10-Oct-94	45 A	816.9
520931	910.8	27-Jan-95	46 A	819.7
520931	910.8	06-Mar-95	46 A	819.7
520931	910.8	21-Jun-95	47 A	819.7
520931	910.8	05-Sep-95	48 A	819.7
520931	910.8	14-Dec-95	49 A	816.1
520931	910.8	05-Mar-96	50 A	820.0
520931	910.8	28-May-96	51 A	819.7
520931	910.8	16-Sep-96	52 A	819.7
520931	910.8	03-Dec-96	53 A	818.3
520931	910.8	30-May-97	55 A	827.9
554216		02-Jun-97	55 A	-64.0
OW543U3	959.4	02-Sep-94	44 A	851.8
OW543U3	959.4	09-Mar-95	46 A	851.8
OW543U3	959.4	06-Sep-95	48 A	851.0
OW543U3	959.4	29-May-96	51 A	852.3
OW543U3	959.4	04-Sep-96	52 A	851.2
OW543U3	959.4	02-Dec-96	53 A	850.5
OW543U3	959.4	28-May-97	55 A	850.9
PJ#003	944.2	02-Sep-94	44 A	846.0
PJ#003	944.2	09-Mar-95	46 A	845.9
PJ#003	944.2	06-Sep-95	48 A	845.4
PJ#003	944.2	29-May-96	51 A	846.7
PJ#003	944.2	04-Sep-96	52 A	845.0
PJ#003	944.2	02-Dec-96	53 A	844.9
PJ#003	944.2	28-May-97	55 A	844.9
PJ#027	967.7	02-Sep-94	44 A	850.5
PJ#027	967.7	09-Mar-95	46 A	850.5
PJ#027	967.7	06-Sep-95	48 A	849.7
PJ#027	967.7	29-May-96	51 A	851.1
PJ#027	967.7	04-Sep-96	52 A	849.6
PJ#027	967.7	02-Dec-96	53 A	849.4
PJ#027	967.7	28-May-97	55 A	849.6
PJ#309	911.8	02-Sep-94	44 A	842.8
PJ#309	911.8	09-Mar-95	46 A	842.5
PJ#309	911.8	06-Sep-95	48 A	841.9
PJ#309	911.8	29-May-96	51 A	843.1
PJ#309	911.8	04-Sep-96	52 A	841.6
PJ#309	911.8	02-Dec-96	53 A	841.4
PJ#309	911.8	28-May-97	55 A	841.6
PJ#310	913.3	02-Sep-94	44 A	840.1
PJ#310	913.3	09-Mar-95	46 A	839.8
PJ#310	913.3	06-Sep-95	48 A	838.9
PJ#310	913.3	29-May-96	51 A	839.7
PJ#310	913.3	04-Sep-96	52 A	838.0
PJ#310	913.3	02-Dec-96	53 A	838.1
PJ#310	913.3	28-May-97	55 A	838.2
PJ#311	905.2	02-Sep-94	44 A	841.9
PJ#311	905.2	09-Mar-95	46 A	839.7
PJ#311	905.2	06-Sep-95	48 A	839.4
PJ#311	905.2	29-May-96	51 A	840.6
PJ#311	905.2	04-Sep-96	52 A	819.0
PJ#311	905.2	02-Dec-96	53 A	838.3
PJ#311	905.2	28-May-97	55 A	839.6
PJ#313	893.2	02-Sep-94	44 A	840.6
PJ#313	893.2	09-Mar-95	46 A	839.1
PJ#313	893.2	06-Sep-95	48 A	839.9
PJ#313	893.2	29-May-96	51 A	841.9
PJ#313	893.2	04-Sep-96	52 A	839.7
PJ#313	893.2	02-Dec-96	53 A	844.4
PJ#313	893.2	28-May-97	55 A	844.3
PJ#318	983.0	27-Mar-95	46 F	814.1
PJ#318	983.0	29-May-96	51 A	814.1
PJ#318	983.0	06-Sep-96	52 A	808.3
PJ#318	983.0	05-Dec-96	53 A	814.7
PJ#318	983.0	29-May-97	55 A	813.7
PJ#802	902.7	02-Sep-94	44 A	845.8
PJ#802	902.7	09-Mar-95	46 A	845.9
PJ#802	902.7	06-Sep-95	48 A	845.3
PJ#802	902.7	29-May-96	51 A	846.7
PJ#802	902.7	07-Jul-97	56 A	846.0
PJ#806	909.4	02-Sep-94	44 A	843.7
PJ#806	909.4	09-Mar-95	46 A	843.7
PJ#806	909.4	06-Sep-95	48 A	843.0
PJ#806	909.4	29-May-96	51 A	844.5
PJ#806	909.4	04-Sep-96	52 A	842.7
PJ#806	909.4	02-Dec-96	53 A	843.1
PJ#806	909.4	29-May-97	55 A	842.9
S.G. #1	860.4	02-Sep-94	44 A	852.2
S.G. #1		29-May-97	55 A	970.1
S.G. #1A	871.7	04-Sep-96	52 A	868.7
S.G. #1A	871.7	02-Dec-96	53 A	869.8
S.G. #1A	871.7	28-May-97	55 A	870.1
S.G. #2	862.8	02-Sep-94	44 A	856.8
S.G. #2		29-May-97	55 A	869.2
S.G. #2A	872.0	04-Sep-96	52 A	868.7
S.G. #2A	872.0	02-Dec-96	53 A	870.4
S.G. #2A	872.0	28-May-97	55 A	869.2
S.G. #3	865.3	02-Sep-94	44 A	NA
S.G. #3		29-May-97	55 A	869.9
S.G. #3A	871.7	04-Sep-96	52 A	868.7
S.G. #3A	871.7	28-May-97	55 A	869.9

C.2 Groundwater Quality Data (Organics)

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. Data is presented for the past three fiscal years, with the fiscal year being October 1 through September 30.

(3) Duplicate sample collected for QA/QC purposes.

(4) Field blanks collected at this location. See Appendix E.1 for FY 1997 field blank data.

(5) The relative percent difference of this value and its duplicate is greater than 25 percent and an evaluation of the data indicates that the value may not be valid. Therefore, this data should be considered an estimated value.

Under the Heading Trip Blank

NC Trip blank not collected.
NA Trip blank collected and not analyzed.

Flagging Codes

Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.

Data Qualifiers

Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

TCLEE	Tetrachloroethene
TRCLE	Trichloroethene
11DCE	1,1-Dichloroethene
12DCE	1,2-Dichloroethene
C12DCE	cis-1,2-Dichloroethene
T12DCE	trans 1,2-Dichloroethene
C2H3CL	Vinyl Chloride
111TCE	1,1,1-Trichloroethane
112TCE	1,1,2-Trichloroethane
11DCLE	1,1-Dichloroethane
12DCLE	1,2-Dichloroethane
CCL4	Carbon Tetrachloride
CHCL3	Chloroform
12DCLP	1,2-Dichloropropane
TCLTFE	1,1,2-Trichlorotrifluoroethane
CH2CL2	Methylene Chloride
C6H6	Benzene
MEC6H5	Toluene
TXYLEN	Total Xylenes
OXYLEN	ortho-Xylene
M&P XYL	meta- & para- Xylenes

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U036		08-Mar-95	F46	DRM 010	4998-01	<2.41	<1.04	<1.01		<0.89	1.39	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U036		18-Jun-96	A51	AXRI 010	96U01906	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U036		19-Jun-97	A55	BFLG 008	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U039		08-Mar-95	F46	DRM 005	4998-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U039		18-Jun-96	A51	AXQY 013	96U01906	<0.75	R <0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U039		19-Jun-97	A55	BFLD 017	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U064		24-Mar-95	A46	IZV 018	NC	<10.00	3.00	<10.00	160.00		2.10	<19.00	<10.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
01U064		13-Jun-96	A51	AXPY 005	NC	<0.75	1.96	<1.70	230.00			4.68	<0.76	<0.78	3.94	4.60	<0.99	<0.50	<1.00	<1.00	<7.40			
01U064	(3)	13-Jun-96	A51	AXPY 006	NC	<0.75	1.97	<1.70	240.00			4.26	<0.76	<0.78	3.53	4.34	<0.99	<0.50	<1.00	<1.00	<7.40			
01U064		30-Jun-97	A55	BFWH 003	97U03013	<1.00	1.60	1.20		192.00	16.00	18.00	<1.00	<1.00	3.70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U085		08-Mar-95	F46	DRM 012	4998-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U085		20-Jun-96	A51	AXRJ 012	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U085		19-Jun-97	A55	BFLG 009	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U098		08-Mar-95	F46	DRM 011	4998-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U098		09-Mar-95	F46	DRO 007	5015-01	<2.41	5.28	<1.01		<0.89	<1.06	<4.10	2.52	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U098		24-Jun-96	A51	AXUU 016	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U098		23-Jun-97	A55	BFRK 005	97U02831	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U102		22-Dec-94	F45	IZG 005	NC	5.06	0.54	<1.00	0.35			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U102		08-Mar-95	F46	DRM 009	4998-01	8.66	<1.04	<1.01		1.39	1.39	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U102		08-Mar-95	F46	DRN 014	4998-01																	<0.25	<0.25	<0.25
01U102		05-Jun-95	F47	EDR 003	NC	4.19	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U102		06-Sep-95	F48	EVG 014	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U102		15-Dec-95	A49	HWJ 024	360635	2.32	0.34	<1.00	0.70		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U102		11-Mar-96	A50	HWQ 007	42625	15.20	1.82	<1.00	4.65		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U102	(3)	11-Mar-96	A50	HWQ 008	42625	14.30	1.82	<1.00	4.63		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U102		18-Jun-96	A51	AXQY 020	96U01906	1.10	R <0.56	<1.70	1.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U102		18-Jun-96	A51	AXQZ 009	96U01906																	<1.05	<1.47	<1.36
01U102		12-Sep-96	A52	AZDV 022	96U03989	2.29	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U102		11-Dec-96	A53	BAVQ 023	96U05930	1.21	<0.56	<1.70	1.18			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U102		19-Jun-97	A55	BFRM 006	97U02820																	<1.05	<1.47	<1.36
01U102		19-Jun-97	A55	BFLG 012	97U02820	3.19	<0.56	<1.70	3.87			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U103		06-Mar-95	F46	DRK 009	4986-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U103		18-Jun-96	A51	AXRI 006	96U01906	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U103		18-Jun-97	A55	BFLC 016	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U103	(3)	18-Jun-97	A55	BFLC 017	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U106		06-Mar-95	F46	DRK 008	4986-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U106		18-Jun-96	A51	AXRI 009	96U01906	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U106		18-Jun-97	A55	BFLC 019	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U108		06-Mar-95	F46	DRK 015	4986-01(4)	27.50	5.12	<1.01		1.70	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U108	(3)	06-Mar-95	F46	DRK 016	4986-01(4)	26.10	5.01	<1.01		1.70	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U108		05-Sep-95	F48	EVG 003	NC	180.00	260.00	<1.01		88.00	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U108		14-Jun-96	A51	AXQX 005	NC	120.00	79.60	<1.70	24.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U108		12-Sep-96	A52	AZDW 005	96U03989	420.00	340.00	<1.70	116.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U108		11-Dec-96	A53	BAVQ 024	96U05930	470.00	270.00	<1.70	118.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U108		18-Jun-97	A55	BFLC 018	97U02799	400.00	143.00	<1.70	38.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U109		06-Mar-95	F46	DRN 010	4986-01																	<0.50	<0.31	<0.54
01U109		06-Mar-95	F46	DRK 013	4986-01	3.74	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U109		18-Jun-96	A51	AXRI 007	96U01906	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U109		18-Jun-97	A55	BFLC 014	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U110		06-Mar-95	F46	DRN 007	4986-01																	<0.50	<0.31	<0.54
01U110		06-Mar-95	F46	DRK 012	4986-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U110		18-Jun-96	A51	AXRI 008	96U01906	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U110		18-Jun-97	A55	BFLC 015	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U115		22-Dec-94	F45	IZG 007	NC	<1.00	1.21	<1.00	4.75			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U115		07-Mar-95	F46	DRL 011	4990-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U115		05-Jun-95	F47	EDR 004	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U115		05-Sep-95	F48	EVG 007	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U115		19-Jun-96	A51	AXRG 005	NC																	<1.05	<1.47	<1.36
01U115		19-Jun-96	A51	AXRH 005	NC	<0.75	0.92	<1.70	1.06			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U115		13-Sep-96	A52	AZDW 011	96U03989	(5) <0.75	<0.56	<1.70	1.28			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U115	(3)	13-Sep-96	A52	AZDW 012	96U03989	(5) 0.952	<0.56	<1.70	1.38			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U115		11-Dec-96	A53	BAVQ 014	96U05930	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U115		18-Jun-97	A55	BFLF 019	97U02799																	<1.05	<1.47	<1.36
01U115		18-Jun-97	A55	BFLD 013	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U116		22-Dec-94	F45	IZG 008	NC	<1.00	1.19	<1.00	0.90			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U116		07-Mar-95	F46	DRL 009	4990-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U116		05-Jun-95	F47	EDR 005	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U116		05-Sep-95	F48	EVG 006	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U116		19-Jun-96	A51	AXRI 017	NC	<0.75	1.00	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U116		13-Sep-96	A52	AZDW 013	96U03989	0.89	0.71	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U116		11-Dec-96	A53	BAVQ 015	96U05930(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U116		18-Jun-97	A55	BFLD 005	97U02799(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U117		27-Dec-94	F45	IZG 014	310522	1.75	3.71	<1.00	1.44			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	1.05	<1.00	<1.00	<3.20			
01U117		08-Mar-95	F46	DRM 007	4998-01	<2.41	4.00	<1.01		17.70	1.39	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	2.28	<3.94	<4.47	<1.41			
01U117		05-Jun-95	F47	EDR 006	NC	<2.41	4.76	<1.01		16.30	1.33	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	2.85	<3.94	<4.47	<1.41			
01U117		06-Sep-95	F48	EVG 013	NC	<2.41	3.17	<1.01		14.80	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U117		11-Mar-96	A50	HWR 004	42625	1.49	2.22	<1.00	7.08		0.39	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	0.41	<1.00	<1.00	<3.20			
01U117		18-Jun-96	A51	AXQY 017	96U01906	1.87	R 1.10	<1.70	12.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U117		18-Jun-96	A51	AXQZ 006	96U01906																	<1.05	<1.47	<1.36
01U117		12-Sep-96	A52	AZDW 007	96U03989	5.07	2.14	<1.70	26.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U117		11-Dec-96	A53	BAVQ 017	96U05930	5.93	2.09	<1.70	78.50			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U117		05-Mar-97	A54	BBXV 012	97U00565	3.44	1.57	<1.70	21.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	1.41	T <1.00	T <1.00	<7.40			
01U117		18-Jun-97	A55	BFLD 007	97U02799	6.15	0.76	<1.70	10.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U117		18-Jun-97	A55	BFLF 014	97U02799																	<1.05	<1.47	<1.36
01U118		06-Mar-95	F46	DRK 006	4986-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U118		06-Mar-95	F46	DRN 006	4986-01																	<0.50	<0.31	<0.54
01U118		19-Jun-96	A51	AXRJ 020	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U118		19-Jun-97	A55	BFLD 021	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U118	(3)	19-Jun-97	A55	BFLD 022	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U119		06-Mar-95	F46	DRK 011	4986-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U119		20-Jun-96	A51	AXRJ 007	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U119		19-Jun-97	A55	BFLD 024	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U120		07-Mar-95	F46	DRL 008	4990-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U120		20-Jun-96	A51	AXRJ 005	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U120	(3)	20-Jun-96	A51	AXRJ 006	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U120		19-Jun-97	A55	BFLG 006	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U122		18-Jun-96	A51	AXRI 012	96U01906	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U122	(3)	18-Jun-96	A51	AXRI 013	96U01906	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U125		27-Dec-94	F45	IZG 013	310522	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U125		07-Mar-95	F46	DRL 006	4990-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U125		05-Jun-95	F47	EDR 007	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U125		05-Sep-95	F48	EVG 005	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U125		18-Jun-96	A51	AXQY 010	96U01906	<0.75	R <0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U125		13-Sep-96	A52	AZDW 017	96U03989	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U125		11-Dec-96	A53	BAVQ 025	96U05930	1.54	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U125		18-Jun-97	A55	BFLD 014	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U125	(3)	18-Jun-97	A55	BFLD 015	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U126		18-Jun-96	A51	AXQY 016	96U01906	89.20	R <0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U126		19-Jun-97	A55	BFLG 011	97U02820	20.90	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U127		07-Mar-95	F46	DRL 007	4990-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U127		18-Jun-96	A51	AXQY 014	96U01906	<0.75	R <0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U127		19-Jun-97	A55	BFLD 018	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U128		07-Mar-95	A46	IZK 008	53961	<1.00	<0.50	<1.00	15.30		2.17	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U128		04-Jun-96	A51	AXNL 005	96U01587	<0.75	<0.56	<1.70	14.90			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U128		03-Jun-97	A55	BFJV 005	97U01819	<1.00	<1.00	<1.00		8.40	JP 0.95	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U135		08-Mar-95	F46	DRM 006	4998-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U135		20-Jun-96	A51	AXRJ 009	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U135		19-Jun-97	A55	BFLD 016	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U137		06-Mar-95	F46	DRK 007	4986-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U137		20-Jun-96	A51	AXRJ 011	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U137		19-Jun-97	A55	BFLD 019	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U138		22-Dec-94	F45	IZG 006	NC	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U138		07-Mar-95	F46	DRL 005	4990-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U138		05-Jun-95	F47	EDR 009	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U138		05-Sep-95	F48	EVG 004	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U138		20-Jun-96	A51	AXRJ 010	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U138		12-Sep-96	A52	AZDV 020	96U03989	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U138	(3)	12-Sep-96	A52	AZDV 021	96U03989	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U138		11-Dec-96	A53	BAVQ 018	96U05930	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U138	(3)	11-Dec-96	A53	BAVQ 019	96U05930	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U138		19-Jun-97	A55	BFLG 007	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U139		27-Dec-94	F45	IZG 009	NC	<1.00	1.29	<1.00	47.70			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U139	(3)	27-Dec-94	F45	IZG 010	NC	<1.00	1.17	<1.00	44.10			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U139		07-Mar-95	F46	DRN 011	4990-01																	<0.50	<0.31	<0.54
01U139		07-Mar-95	F46	DRL 014	4990-01	<2.41	<1.04	<1.01		13.30	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U139		06-Jun-95	F47	EDR 010	NC	<2.41	<1.04	<1.01		10.30	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U139		05-Sep-95	F48	EVG 011	NC	<2.41	<1.04	<1.01		16.20	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U139		11-Mar-96	A50	HWQ 009	42625	<1.00	0.47	<1.00	2.80		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U139		18-Jun-96	A51	AXQY 011	96U01906	<0.75	R <0.56	<1.70	2.66			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U139		12-Sep-96	A52	AZDV 018	96U03989	<0.75	1.21	<1.70	20.20			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U139		11-Dec-96	A53	BAVQ 020	96U05930	<0.75	<0.56	<1.70	2.04			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U139		05-Mar-97	A54	BBXV 011	97U00565	<0.75	<0.56	<1.70	0.84			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U139		18-Jun-97	A55	BFLC 022	97U02799	<0.75	<0.56	<1.70	4.30			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U140		22-Dec-94	F45	IZG 004	NC	<1.00	0.65	<1.00	20.40			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U140		07-Mar-95	F46	DRL 015	4990-01(4)	<2.41	<1.04	<1.01		(5) 9.32	1.46	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U140		07-Mar-95	F46	DRN 012	4990-01(4)																	1.16	<0.31	<0.54
01U140	(3)	07-Mar-95	F46	DRN 013	4990-01(4)																	1.13	<0.31	<0.54
01U140	(3)	07-Mar-95	F46	DRL 016	4990-01(4)	<2.41	<1.04	<1.01		(5) 7.27	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U140		06-Jun-95	F47	EDR 011	NC	<2.41	<1.04	<1.01		19.80	3.70	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U140		05-Sep-95	F48	EVG 012	NC	<2.41	<1.04	<1.01		6.98	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U140		18-Jun-96	A51	AXRI 005	96U01906	<0.75	<0.56	<1.70	(5) 14.20			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U140	(3)	18-Jun-96	A51	AXQY 009	96U01906	<0.75	R <0.56	<1.70	(5) 10.20			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U140		12-Sep-96	A52	AZDW 009	96U03989(4)	<0.75	<0.56	<1.70	11.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U140		12-Dec-96	A53	BAVQ 026	96U05930	<0.75	<0.56	<1.70	11.80			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U140		19-Jun-97	A55	BFLG 005	97U02820	<0.75	<0.56	<1.70	8.39			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U141		20-Jun-96	A51	AXRJ 013	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U141		19-Jun-97	A55	BFLD 023	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U157		27-Dec-94	F45	IZG 012	310522	<1.00	3.49	<1.00	32.90			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U157		07-Mar-95	F46	DRL 013	4990-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U157		06-Jun-95	F47	EDR 012	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U157		05-Sep-95	F48	EVG 010	NC	<2.41	1.69	<1.01		1.69	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U157		15-Dec-95	A49	HWJ 014	360635	(5) 1.09	(5) 1.49	<1.00	2.07		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U157	(3)	15-Dec-95	A49	HWJ 015	360635	(5) 1.57	(5) 1.88	<1.00	2.35		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U157		11-Mar-96	A50	HWR 015	42625	<1.00	1.02	<1.00	1.57		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U157		20-Jun-96	A51	AXRJ 016	96U01936	<0.75	<0.56	<1.70	2.17			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U157		13-Sep-96	A52	AZDW 018	96U03989	<0.75	0.80	<1.70	6.16			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U157		11-Dec-96	A53	BAVQ 021	96U05930	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U157		18-Jun-97	A55	BFLD 008	97U02799	<0.75	<0.56	<1.70	1.61			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U158		27-Dec-94	F45	IZG 011	310522	<1.00	0.78	<1.00	8.57			<1.90	0.79	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U158		07-Mar-95	F46	DRL 012	4990-01	<2.41	<1.04	<1.01		4.01	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U158		06-Jun-95	F47	EDR 013	NC	<2.41	<1.04	<1.01		2.06	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U158		05-Sep-95	F48	EVG 008	NC	<2.41	<1.04	<1.01		1.84	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U158		15-Dec-95	A49	HWJ 017	360635	<1.00	0.80	<1.00	5.68		2.16	<1.90	2.42	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U158		11-Mar-96	A50	HWR 005	42625	<1.00	0.71	<1.00	3.41		0.49	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U158		20-Jun-96	A51	AXRJ 017	96U01936	<0.75	<0.56	<1.70	3.55			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U158		12-Sep-96	A52	AZDW 008	96U03989	<0.75	<0.56	<1.70	5.77			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U158		12-Dec-96	A53	BAVQ 029	96U05930	<0.75	<0.56	<1.70	3.23			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U158		18-Jun-97	A55	BFLC 023	97U02799	<0.75	<0.56	<1.70	0.82			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U350		18-Jun-96	A51	AXQZ 005	96U01906																	<1.05	<1.47	<1.36
01U350		18-Jun-96	A51	AXQY 015	96U01906	390.00	R 178.00	<1.70	118.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U350		12-Sep-96	A52	AZDW 006	96U03989	530.00	340.00	<1.70	360.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U351		10-Oct-94	F45	IVY 004	237256	0.78	2.55	<1.00	7.56			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U351		08-Nov-94	F45	IZA 004		<1.00	1.54	<1.00	2.48			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U351		05-Dec-94	F45	IZC 008	285544	<1.00	1.26	<1.00	1.60			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U351		17-Jan-95	F46	IZI 009	10189	<1.00	1.07	<1.00	1.50			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U351		03-Mar-95	F46	DRJ 009	4979-01	<2.41	1.67	<1.01		1.47	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U351		03-Apr-95	F47	DSG 008	5170-01	<2.41	2.15	<1.01		2.11	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U351		08-May-95	F47	DYT 008	5405-01	<2.41	1.82	<1.01		1.90	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U351		11-Jul-95	F48	ENF 008	6038-01	<2.41	1.72	<1.01		1.60	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U351		08-Aug-95	F48	ESH 008	6304-01	<2.41	1.87	<1.01		2.06	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U351		07-Sep-95	F48	EWB 007	6479-01	<2.41	1.72	<1.01		2.09	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U351		15-Dec-95	A49	HWJ 006	360635	0.89	2.08	<1.00	1.39		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U351		11-Mar-96	A50	HWR 010	42625	1.09	2.05	<1.00	1.11		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U351		19-Jun-96	A51	AXRH 006	NC	0.87	1.20	<1.70	0.88			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U351		19-Jun-96	A51	AXRG 006	NC																	<1.05	<1.47	<1.36
01U351		12-Sep-96	A52	AZDV 009	96U03989	1.43	1.37	<1.70	1.10			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U351		11-Dec-96	A53	BAVQ 005	96U05930	1.87	1.98	<1.70	2.04			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U351		05-Mar-97	A54	BBXV 013	97U00565	<0.75	1.11	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U351		18-Jun-97	A55	BFLC 005	97U02799	<0.75	0.95	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U351		18-Jun-97	A55	BFLF 005	97U02799																	<1.05	<1.47	<1.36
01U351		03-Sep-97	A56	BGRK 005	97U03701	<0.75	1.03	<1.70	0.90			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U351	(3)	03-Sep-97	A56	BGRK 006	97U03701	<0.75	0.91	<1.70	0.83			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U352		10-Oct-94	F45	IVY 005	237256	<1.00	3.03	<1.00	36.60			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	0.48	<1.00	<1.00	<3.20			
01U352		08-Nov-94	F45	IZA 005		<1.00	3.57	<1.00	42.20			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U352		05-Dec-94	F45	IZC 009	285544	<1.00	4.20	<1.00	35.00			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U352		17-Jan-95	F46	IZI 010	10189	<1.00	3.81	<1.00	20.30			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U352		03-Mar-95	F46	DRJ 017	4979-01	<2.41	6.91	<1.01		30.50	3.88	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	2.85	<3.94	<4.47	<1.41			
01U352		11-Jul-95	F48	ENF 010	6038-01	<2.41	1.45	<1.01		9.43	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	1.76	<3.94	<4.47	<1.41			
01U352		08-Aug-95	F48	ESH 009	6304-01	<2.41	2.94	<1.01		18.10	1.87	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	1.35	<3.94	<4.47	<1.41			
01U352		07-Sep-95	F48	EWB 009	6479-01	<2.41	<1.04	<1.01		3.94	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	1.44	<3.94	<4.47	<1.41			
01U352		15-Dec-95	A49	HWJ 016	360635	<1.00	1.49	<1.00	7.23		2.29	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	0.83	<1.00	<1.00	<3.20			
01U352		11-Mar-96	A50	HWR 011	42625	1.05	5.21	<1.00	16.90		1.41	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U352	(3)	11-Mar-96	A50	HWR 012	42625	1.06	5.16	<1.00	16.70		1.44	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U352		19-Jun-96	A51	AXRH 007	NC	1.68	4.65	<1.70	30.20			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U352		19-Jun-96	A51	AXRG 007	NC																	<1.05	<1.47	<1.36
01U352		12-Sep-96	A52	AZDV 010	96U03989	2.13	5.36	<1.70	43.80			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U352		11-Dec-96	A53	BAVQ 006	96U05930	2.75	7.14	<1.70	51.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U352		05-Mar-97	A54	BBXV 014	97U00565	1.74	5.25	<1.70	22.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U352		18-Jun-97	A55	BFLC 006	97U02799	1.76	8.35	<1.70	17.20			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U352		18-Jun-97	A55	BFLF 006	97U02799																			
01U352		03-Sep-97	A56	BGRK 007	97U03701	2.64	6.08	<1.70	34.80			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40	<1.05	<1.47	<1.36
01U353		10-Oct-94	F45	IVY 006	237256	<2.00	11.00	<2.00 (5)	150.00			<3.80	<2.00	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
01U353	(3)	10-Oct-94	F45	IVY 007	237256	<2.00	9.40	<2.00 (5)	270.00			<3.80	<2.00	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
01U353		08-Nov-94	F45	IZB 004		0.80	10.20	<1.00	230.00			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U353		05-Dec-94	F45	IZD 006	285544	<1.00	9.94	<1.00	350.00			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U353		17-Jan-95	F46	IZI 004	10189	<10.00	2.90	<10.00	250.00			<19.00	<10.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
01U353		03-Mar-95	F46	DRJ 016	4979-01	<2.41	3.00	<1.01		67.00	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U353		03-Apr-95	F47	DTI 008	5170-01	<12.00	<5.20	<5.00		18.00	7.90	<21.00	<5.80	<7.60	<4.90	<20.00	<6.00	<5.40	<20.00	<22.00	<7.00			
01U353		08-May-95	F47	DYT 009	5405-01	<2.41	4.58	<1.01		210.00	9.10	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	2.47	<3.94	<4.47	<1.41			
01U353		11-Jul-95	F48	ENF 011	6038-01	<24.00	<10.00	<10.00		140.00	<11.00	<41.00	<12.00	<15.00	<9.70	<39.00	<12.00	<11.00	<39.00	<45.00	<14.00			
01U353		08-Aug-95	F48	ESH 010	6304-01	<12.00	<5.20	<5.00		210.00	<5.30	<21.00	<5.80	<7.60	<4.90	<20.00	<6.00	<5.40	<20.00	<22.00	<7.00			
01U353		07-Sep-95	F48	EWB 011	6479-01	<12.00	<5.20	<5.00		360.00	6.70	<21.00	<5.80	<7.60	<4.90	<20.00	<6.00	14.00	<20.00	<22.00	<7.00			
01U353		15-Dec-95	A49	HWJ 007	360635	<1.00	4.17	<1.00	110.00		4.05	<1.90	0.78	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U353		11-Mar-96	A50	HWR 008	42625	<1.00	0.93	<1.00	25.40		0.43	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U353		19-Jun-96	A51	AXRH 008	NC	<0.75	3.69	<1.70	143.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U353		19-Jun-96	A51	AXRG 008	NC																			
01U353		12-Sep-96	A52	AZDV 011	96U03989	<0.75	3.40	<1.70	132.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40	22.00	<1.47	<1.36
01U353		11-Dec-96	A53	BAVQ 007	96U05930	<0.75	3.52	<1.70	172.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U353	(3)	11-Dec-96	A53	BAVQ 008	96U05930	<0.75	3.41	<1.70	183.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U353		05-Mar-97	A54	BBXV 017	97U00565	<0.75	2.38	<1.70	100.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U353		18-Jun-97	A55	BFLC 007	97U02799	<0.75	1.76	<1.70	90.30			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U353		18-Jun-97	A55	BFLF 007	97U02799																			
01U353		03-Sep-97	A56	BGRK 008	97U03701	<0.75	1.66	<1.70	94.10			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40	5.82	<1.47	<1.36
01U354		10-Oct-94	F45	IVY 008	237256	<1.00	0.65	<1.00	23.10			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U354		08-Nov-94	F45	IZA 006		<1.00	0.52	<1.00	19.10			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U354		05-Dec-94	F45	IZD 004	285544	<1.00	0.61	<1.00	17.50			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U354	(3)	05-Dec-94	F45	IZC 010	285544	<1.00	0.59	<1.00	16.40			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U354		17-Jan-95	F46	IZI 016	10189	<1.00	0.74	<1.00	14.70			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U354		03-Mar-95	F46	DRJ 011	4979-01	<2.41	<1.04	<1.01		22.50	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U354		03-Apr-95	F47	DSG 010	5170-01	<2.41	1.37	<1.01		16.10	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U354		08-May-95	F47	DYT 011	5405-01	<2.41	<1.04	<1.01		9.17	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U354		11-Jul-95	F48	ENH 004	6038-01	<2.41	<1.04	<1.01		5.64	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U354		08-Aug-95	F48	ESI 004	6304-01	<2.41	<1.04	<1.01		3.71	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U354		07-Sep-95	F48	EWC 004	6479-01	<2.41	<1.04	<1.01		1.19	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U354		15-Dec-95	A49	HWJ 008	360635	<1.00	0.80	<1.00	3.31		0.31	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U354		11-Mar-96	A50	HWR 013	42625	<1.00	0.84	<1.00	3.03		0.25	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U354		19-Jun-96	A51	AXRH 009	NC	<0.75	<0.56	<1.70	2.98			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U354		19-Jun-96	A51	AXRG 009	NC																			
01U354		12-Sep-96	A52	AZDV 012	96U03989	<0.75	<0.56	<1.70	2.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40	<1.05	<1.47	<1.36
01U354	(3)	12-Sep-96	A52	AZDV 017	96U03989	<0.75	<0.56	<1.70	2.46			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U354		11-Dec-96	A53	BAVQ 009	96U05930	<0.75	<0.56	<1.70	3.98			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U354		05-Mar-97	A54	BBXV 018	97U00565	<0.75	<0.56	<1.70	1.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U354	(3)	05-Mar-97	A54	BBXV 019	97U00565	<0.75	<0.56	<1.70	1.59			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U354		18-Jun-97	A55	BFLC 008	97U02799	<0.75	<0.56	<1.70	1.05			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U354		18-Jun-97	A55	BFLF 008	97U02799																			
01U354		03-Sep-97	A56	BGRK 009	97U03701	<0.75	<0.56	<1.70	0.93			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40	<1.05	<1.47	<1.36
01U355		10-Oct-94	F45	IVY 009	237256	<5.00	2.00	<5.00	110.00			<9.50	<5.00	<5.00	<3.90	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
01U355		08-Nov-94	F45	IZB 005		<1.00	1.14	<1.00	72.00			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U355		05-Dec-94	F45	IZC 011	285544	<2.00	1.30	<2.00	61.00			<3.80	<2.00	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
01U355		17-Jan-95	F46	IZI 012	10189	<2.00	0.75	<2.00	68.00			<3.80	<2.00	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
01U355		03-Mar-95	F46	DRJ 015	4979-01	<2.41	<1.04	<1.01		53.00	3.90	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U355		03-Apr-95	F47	DTI 007	5170-01	<4.80	<2.10	<2.00		56.00	5.40	<8.20	<2.30	<3.00	<1.90	<7.90	<2.40	<2.20	<7.90	<8.90	<2.80			
01U355		08-May-95	F47	DYT 015	5405-01	<4.80	<2.10	<2.00		44.00	3.90	<8.20	<2.30	<3.00	<1.90	<7.90	<2.40	<2.20	<7.90	<8.90	<2.80			
01U355		11-Jul-95	F48	ENH 009	6038-01	<2.41	<1.04	<1.01		30.50	2.37	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	2.24	<3.94	<4.47	<1.41			
01U355		08-Aug-95	F48	ESI 009	6304-01	<2.41	<1.04	<1.01		27.60	2.01	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	2.30	<3.94	<4.47	<1.41			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U355		07-Sep-95	F48	EWC 009	6479-01	<2.41	<1.04	<1.01		30.00	1.82	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	1.98	<3.94	<4.47	<1.41			
01U355		15-Dec-95	A49	HWJ 009	360635	<1.00	1.06	<1.00	19.80		1.90	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	0.53	<1.00	<1.00	<3.20			
01U355	(3)	15-Dec-95	A49	HWJ 010	360635	<1.00	1.16	<1.00	19.90		1.94	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	0.51	<1.00	<1.00	<3.20			
01U355		11-Mar-96	A50	HWR 016	42625	<1.00	1.02	<1.00	16.90		1.09	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U355		19-Jun-96	A51	AXRG 010	NC																	<1.05	<1.47	<1.36
01U355		19-Jun-96	A51	AXRH 010	NC	<0.75	<0.56	<1.70	27.50			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U355		12-Sep-96	A52	AZDV 014	96U03989	<0.75	<0.56	<1.70	20.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U355		11-Dec-96	A53	BAVQ 010	96U05930	<0.75	0.66	<1.70	24.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U355		05-Mar-97	A54	BBXV 020	97U00565	<0.75	<0.56	<1.70	13.20			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U355		18-Jun-97	A55	BFLC 009	97U02799	<0.75	<0.56	<1.70	10.40			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U355		18-Jun-97	A55	BFLF 009	97U02799																	<1.05	<1.47	<1.36
01U355		03-Sep-97	A56	BGRK 012	97U03701	<0.75	<0.56	<1.70	10.30			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U356		10-Oct-94	F45	IVY 010	237256	<1.00	1.35	<1.00	<0.50			<1.90	<1.00	<1.00	78.00	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U356		08-Nov-94	F45	IZB 006		<1.00	0.99	<1.00	65.00			<1.90	0.76	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U356		05-Dec-94	F45	IZC 012	285544	<2.00	1.20	<2.00	59.00			<3.80	<2.00	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
01U356		03-Mar-95	F46	DRJ 014	4979-01	<4.80	<2.10	<2.00		51.00	5.60	<8.20	<2.30	<3.00	<1.90	<9.30	<2.40	<2.20	<7.90	<8.90	<2.80			
01U356		03-Apr-95	F47	DTI 004	5170-01	<4.80	<2.10	<2.00		46.00	6.80	<8.20	<2.30	<3.00	<1.90	<7.90	<2.40	<2.20	<7.90	<8.90	<2.80			
01U356		08-May-95	F47	DYT 016	5405-01	<4.80	<2.10	<2.00		32.00	4.40	<8.20	<2.30	<3.00	<1.90	<7.90	<2.40	<2.20	<7.90	<8.90	<2.80			
01U356		11-Jul-95	F48	ENH 006	6038-01	<2.41	<1.04	<1.01		24.20	3.26	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U356		08-Aug-95	F48	ESI 006	6304-01	<2.41	<1.04	<1.01		24.30	3.07	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U356		07-Sep-95	F48	EWC 006	6479-01	<2.41	<1.04	<1.01		20.50	2.38	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U356		15-Dec-95	A49	HWJ 011	360635	<1.00	0.72	<1.00	16.70		2.28	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U356		11-Mar-96	A50	HWR 020	42625	<1.00	0.71	<1.00	19.10		1.47	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U356		19-Jun-96	A51	AXRH 011	NC	<0.75	<0.56	<1.70	24.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U356		19-Jun-96	A51	AXRG 011	NC																	<1.05	<1.47	<1.36
01U356		12-Sep-96	A52	AZDV 015	96U03989	<0.75	<0.56	<1.70	16.30			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U356		11-Dec-96	A53	BAVQ 011	96U05930	<0.75	<0.56	<1.70	26.90			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U356		05-Mar-97	A54	BBXV 021	97U00565	<0.75	<0.56	<1.70	14.50			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U356		18-Jun-97	A55	BFLF 010	97U02799																	<1.05	<1.47	<1.36
01U356		18-Jun-97	A55	BFLC 010	97U02799	<0.75	<0.56	<1.70	10.10			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U356		03-Sep-97	A56	BGRK 013	97U03701	<0.75	<0.56	<1.70	9.30			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U357		10-Oct-94	F45	IVZ 005	237256	<1.00	0.66	<1.00	44.80			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U357		08-Nov-94	F45	IZA 007		<1.00	0.55	<1.00	51.40			<1.90	<1.00	<1.00	<0.78	0.32	<1.30	<0.72	<1.00	<1.00	<3.20			
01U357		05-Dec-94	F45	IZC 013	285544	<1.00	0.61	<1.00	37.90			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U357		17-Jan-95	F46	IZI 014	10189	<1.00	0.40	<1.00	33.10			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U357		03-Mar-95	F46	DRJ 018	4979-01	<2.41	<1.04	<1.01		50.40	6.22	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	2.34	<3.94	<4.47	<1.41			
01U357		03-Apr-95	F47	DTI 003	5170-01	<2.41	<1.04	<1.01		46.50	8.40	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U357		08-May-95	F47	DYT 017	5405-01	<2.41	<1.04	<1.01		40.30	6.16	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	1.89	<3.94	<4.47	<1.41			
01U357		11-Jul-95	F48	ENH 008	6038-01	<2.41	<1.04	<1.01		26.90	3.96	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	1.53	<3.94	<4.47	<1.41			
01U357		08-Aug-95	F48	ESI 008	6304-01	<2.41	<1.04	<1.01		26.00	3.50	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U357		07-Sep-95	F48	EWC 007	6479-01	<2.41	<1.04	<1.01		21.60	2.63	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	1.41	<3.94	<4.47	<1.41			
01U357		15-Dec-95	A49	HWJ 012	360635	<1.00	0.48	<1.00	19.10		4.54	<1.90	0.56	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U357		11-Mar-96	A50	HWR 018	42625	<1.00	0.53	<1.00	17.10		1.41	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U357		19-Jun-96	A51	AXRH 012	NC	<0.75	<0.56	<1.70	22.30			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	(5) <7.40			
01U357		19-Jun-96	A51	AXRG 012	NC																	<1.05	<1.47	<1.36
01U357	(3)	19-Jun-96	A51	AXRH 013	NC	<0.75	<0.56	<1.70	21.20			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	(5) 9.37			
01U357	(3)	19-Jun-96	A51	AXRG 013	NC																	<1.05	<1.47	<1.36
01U357		12-Sep-96	A52	AZDV 016	96U03989	<0.75	<0.56	<1.70	15.90			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U357		11-Dec-96	A53	BAVQ 012	96U05930	<0.75	<0.56	<1.70	24.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U357		05-Mar-97	A54	BBXV 022	97U00565	<0.75	<0.56	<1.70	12.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U357		18-Jun-97	A55	BFLF 011	97U02799																	<1.05	<1.47	<1.36
01U357		18-Jun-97	A55	BFLC 011	97U02799	<0.75	<0.56	<1.70	9.57			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U357		03-Sep-97	A56	BGRK 014	97U03701	<0.75	<0.56	<1.70	6.45			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U358		10-Oct-94	F45	IVZ 006	237256	<1.00	0.41	<1.00	28.80			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U358		08-Nov-94	F45	IZB 007		<1.00	0.40	<1.00	28.50			<1.90	<1.00	<1.00	<0.78	0.33	<1.30	<0.72	<1.00	<1.00	<3 20			
01U358	(3)	08-Nov-94	F45	IZB 008		<1.00	0.49	<1.00	29.30			<1.90	<1.00	<1.00	<0.78	0.35	<1.30	<0.72	<1.00	<1.00	<3.20			
01U358		05-Dec-94	F45	IZC 014	285544	<1.00	0.38	<1.00	26.60			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U358		17-Jan-95	F46	IZI 013	10189	<1.00	0.32	<1.00	28.40			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U358	(3)	17-Jan-95	F46	IZI 015	10189	<1.00	0.31	<1.00	29.00			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U358		03-Mar-95	F46	DRJ 012	4979-01	<2.41	<1.04	<1.01		28.40	3.43	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U358		03-Apr-95	F47	DSG 011	5170-01	<2.41	<1.04	<1.01		29.50	4.66	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U358		08-May-95	F47	DYT 012	5405-01	<2.41	<1.04	<1.01		20.20	2.55	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	3.44	<3.94	<4.47	<1.41			
01U358		11-Jul-95	F48	ENH 005	6038-01	<2.41	<1.04	<1.01		13.00	1.51	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U358		08-Aug-95	F48	ESI 005	6304-01	<2.41	<1.04	<1.01		10.10	1.54	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	1.75	<3.94	<4.47	<1.41			
01U358		07-Sep-95	F48	EWC 005	6479-01	<2.41	<1.04	<1.01		14.50	1.44	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U358		15-Dec-95	A49	HWJ 013	360635	<1.00	0.38	<1.00	10.10		2.59	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U358		11-Mar-96	A50	HWR 017	42625	<1.00	0.40	<1.00	10.20		0.80	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U358		19-Jun-96	A51	AXRH 014	NC	<0.75	<0.56	<1.70	11.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U358		19-Jun-96	A51	AXRG 014	NC																	<1.05	<1.47	<1.36
01U358		12-Sep-96	A52	AZDV 013	96U03989	<0.75	<0.56	<1.70	8.87			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U358		11-Dec-96	A53	BAVQ 013	96U05930	<0.75	<0.56	<1.70	14.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U358		05-Mar-97	A54	BBXV 023	97U00565(4)	<0.75	<0.56	<1.70	8.89			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U358		18-Jun-97	A55	BFLF 012	97U02799																	<1.05	<1.47	<1.36
01U358		18-Jun-97	A55	BFLC 012	97U02799	<0.75	<0.56	<1.70	5.16			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U358	(3)	18-Jun-97	A55	BFLF 013	97U02799																	<1.05	<1.47	<1.36
01U358	(3)	18-Jun-97	A55	BFLC 013	97U02799	<0.75	<0.56	<1.70	5.27			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U358		03-Sep-97	A56	BGRK 015	97U03701	<0.75	<0.56	<1.70	4.01			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U526		10-Mar-95	F46	DRO 015	5027-01(4)	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U604		07-Mar-95	A46	IZK 011	53961	<1.00	0.31	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U604		04-Jun-96	A51	AXNL 006	96U01587	<0.75	(5) 0.96	<1.70	(5) <0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U604	(3)	04-Jun-96	A51	AXNL 007	96U01587	<0.75	(5) 21.60	<1.70	(5) 1.99			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U604		03-Jun-97	A55	BFJV 010	97U01819	<1.00	1.70	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U611		07-Mar-95	A46	IZK 005	53961	<500.00	35000.00	<500.00	5100.00		<150.00	<950.00	<500.00	<500.00	<390.00	<250.00	<650.00	<360.00	<500.00	<500.00	<1600.00			
01U611		04-Jun-96	A51	AXNL 008	96U01587	2.90	45000.00	3.71	1820.00			9.23	<0.76	<0.78	<0.73	2.99	<0.99	<0.50	<1.00	<1.00	<7.40			
01U611		03-Jun-97	A55	BFJV 016	97U01819(4)	JP 0.63	B 41500.00	JP 30.50		B 16000.0	415.00	85.00	<1.00	<1.00	JP 0.39	<1.00	<1.00	<1.00	<1.00	<1.00	JP 0.38			
01U615		07-Mar-95	A46	IZK 004	53961	<250.00	12000.00	<250.00	1100.00		240.00	<480.00	<250.00	<250.00	<200.00	<130.00	<330.00	<180.00	<250.00	<250.00	<800.00			
01U615		04-Jun-96	A51	AXNL 009	96U01587	<0.75	5800.00	2.21	1400.00			12.80	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U615		03-Jun-97	A55	BFJV 008	97U01819	<1.00	B 2800.00	1.50		650.00	230.00	5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U617		07-Mar-95	A46	IZK 015	53961	<1.00	0.78	<1.00	2.42		0.37	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U617		05-Sep-95	A48	HWC 004	258830	<1.00	0.86	<1.00	2.97		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U617		04-Jun-96	A51	AXNL 010	96U01587	<0.75	1.02	<1.70	4.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U617		03-Sep-96	A52	AYZB 007	96U03540	<0.75	<0.56	<1.70	5.38			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U617		03-Dec-96	A53	BAOP 009	NC	<1.00	JP 0.65	<1.00		2.30	JP 0.29	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U617		03-Jun-97	A55	BFJV 013	97U01819	<1.00	JP 0.78	<1.00		2.30	JP 0.46	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U618		07-Mar-95	A46	IZK 014	53961	<1.00	3.36	<1.00	1.00		<0.30	<1.90	<1.00	<1.00	1.84	<0.50	<1.30	<0.72	<1.00	5.66	<3.20			
01U618		04-Jun-96	A51	AXNL 012	96U01587	<0.75	3.82	<1.70	1.32			<1.01	<0.76	<0.78	1.51	<1.10	<0.99	<0.50	<1.00	14.70	<7.40			
01U618		03-Jun-97	A55	BFJV 018	97U01819	<1.00	B 2.40	<1.00		BJP 0.84	<1.00	<1.00	<1.00	<1.00	JP 0.53	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U619		07-Mar-95	A46	IZL 007	53961	<1.00	2.48	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	0.55	<0.50	<1.30	<0.72	<1.00	380.00	<3.20			
01U619		04-Jun-96	A51	AXNL 013	96U01587	<0.75	2.16	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	143.00	<7.40			
01U619		03-Jun-97	A55	BFJV 006	97U01819	<1.00	JP 0.80	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	80.00	<1.00			
01U621		07-Mar-95	A46	IZK 013	53961	<1.00	<0.50	<1.00	9.64		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U621		05-Sep-95	A48	HWC 005	258830	<1.00	<0.50	<1.00	11.10		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U621	(3)	05-Sep-95	A48	HWC 006	258830	<1.00	<0.50	<1.00	11.70		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U621		04-Jun-96	A51	AXNL 014	96U01587	<0.75	0.95	<1.70	13.80			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U621		03-Sep-96	A52	AYZB 005	96U03540	<0.75	<0.56	<1.70	(5) 12.90			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U621	(3)	03-Sep-96	A52	AYZB 006	96U03540	<0.75	<0.56	<1.70	(5) <0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U621		03-Dec-96	A53	BAOP 011	NC	<1.00	<1.00	<1.00		6.80	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U621		03-Jun-97	A55	BFJV 011	97U01819	<1.00	(5)JP 0.50	<1.00		7.10	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U621	(3)	03-Jun-97	A55	BFJV 012	97U01819	<1.00	(5) <1.00	<1.00		5.90	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U636		13-Jun-96	A51	AXPY 007	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U640		13-Jun-96	A51	AXPY 008	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well	Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U640	30-Jun-97	A55	BFWH 004	97U03013	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U901	10-Oct-94	F45	IVZ 011	237256	<1.00	<0.50	<1.00	0.39			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U901	08-Nov-94	F45	IZB 011		<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U901	05-Dec-94	F45	IZC 007	285544	<1.00	<0.50	<1.00	1.25			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U901	17-Jan-95	F46	IZI 008	10189	<1.00	<0.50	<1.00	5.97			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U901	03-Mar-95	F46	DRJ 007	4979-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U901	03-Apr-95	F47	DSG 005	5170-01	<2.41	1.29	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U901	01-May-95	F47	DYT 005	5405-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U901	11-Jul-95	F48	ENF 004	6038-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U901	08-Aug-95	F48	ESH 004	6304-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U901	07-Sep-95	F48	EWB 004	6479-01	<2.41	1.33	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U901	15-Dec-95	A49	HWJ 023	360635	<1.00	<0.50	<1.00	0.69		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U901	11-Mar-96	A50	HWQ 004	42625	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U901	19-Jun-96	A51	AXRG 018	NC(4)																	<1.05	<1.47	<1.36
01U901	19-Jun-96	A51	AXRH 018	NC(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U901	13-Sep-96	A52	AZDW 022	96U03989	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U901	12-Dec-96	A53	BAVQ 030	96U05930	1.43	<0.56	<1.70	1.18			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U901	05-Mar-97	A54	BBXV 010	97U00565	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U901	18-Jun-97	A55	BFLF 015	97U02799																	<1.05	<1.47	<1.36
01U901	18-Jun-97	A55	BFLD 009	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U901	03-Sep-97	A56	BGRK 016	97U03701	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U902	10-Oct-94	F45	IVZ 010	237256	<1.00	1.41	<1.00	87.00			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U902	08-Nov-94	F45	IZB 013		<1.00	0.92	<1.00	65.00			<1.90	<1.00	<1.00	<0.78	0.28	<1.30	<0.72	<1.00	<1.00	<3.20			
01U902	05-Dec-94	F45	IZC 006	285544	<2.00	<1.00	<2.00	74.00			<3.80	<2.00	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
01U902	17-Jan-95	F46	IZI 006	10189	<1.00	1.13	<1.00	92.00			<1.90	0.91	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U902	03-Mar-95	F46	DRJ 004	4979-01	<2.41	<1.04	<1.01		58.00	2.90	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U902	03-Apr-95	F47	DTI 005	5170-01	<4.80	<2.10	<1.01		27.80	<1.06	<4.10	<2.30	<3.00	<0.97	<7.90	<2.40	<1.08	<7.90	<4.47	<1.41			
01U902	01-May-95	F47	DYT 014	5405-01	<4.80	<2.10	<2.00		44.00	<2.10	<8.20	<2.30	<3.00	<1.90	<7.90	<2.40	<2.20	<7.90	<8.90	<2.80			
01U902	11-Jul-95	F48	ENF 009	6038-01	<4.80	<2.10	<2.00		56.00	<2.10	<8.20	<2.30	<3.00	<1.90	<7.90	<2.40	<2.20	<7.90	<8.90	<2.80			
01U902	08-Aug-95	F48	ESH 011	6304-01	<2.41	<1.04	<1.01		43.00	1.95	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U902	07-Sep-95	F48	EWB 010	6479-01	<2.41	1.53	<1.01		56.00	2.67	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U902	15-Dec-95	A49	HWJ 020	360635	<1.00	1.23	<1.00	41.00		7.29	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U902	11-Mar-96	A50	HWR 006	42625	<1.00	1.24	<1.00	34.20		1.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U902	19-Jun-96	A51	AXRG 016	NC																	<1.05	<1.47	<1.36
01U902	19-Jun-96	A51	AXRH 016	NC	<0.75	<0.56	<1.70	45.70			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U902	13-Sep-96	A52	AZDW 020	96U03989	0.88	0.78	<1.70	57.10			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U902	12-Dec-96	A53	BAVQ 031	96U05930	<0.75	0.67	<1.70	48.40			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U902	05-Mar-97	A54	BBXV 008	97U00565	<0.75	<0.56	<1.70	23.90			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U902	18-Jun-97	A55	BFLD 011	97U02799	<0.75	<0.56	<1.70	19.40			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U902	18-Jun-97	A55	BFLF 017	97U02799																	<1.05	<1.47	<1.36
01U902	03-Sep-97	A56	BGRK 017	97U03701	<0.75	<0.56	<1.70	23.20			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U903	10-Oct-94	F45	IVZ 008	237256	<1.00	0.52	<1.00	0.73			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U903	08-Nov-94	F45	IZB 009		<1.00	0.41	<1.00	0.65			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U903	05-Dec-94	F45	IZC 004	285544	<1.00	0.38	<1.00	0.60			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U903	17-Jan-95	F46	IZI 005	10189	<1.00	<0.50	<1.00	<0.50			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U903	03-Mar-95	F46	DRJ 003	4979-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U903	03-Apr-95	F47	DSG 006	5170-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U903	01-May-95	F47	DYT 006	5405-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U903	11-Jul-95	F48	ENF 005	6038-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U903	08-Aug-95	F48	ESH 005	6304-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U903	07-Sep-95	F48	EWB 005	6479-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U903	15-Dec-95	A49	HWJ 018	360635(4)	<1.00	0.59	<1.00	1.10		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U903	11-Mar-96	A50	HWR 007	42625	<1.00	0.80	<1.00	0.99		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U903	19-Jun-96	A51	AXRG 015	NC																	<1.05	<1.47	<1.36
01U903	19-Jun-96	A51	AXRH 015	NC	<0.75	<0.56	<1.70	1.05			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U903	13-Sep-96	A52	AZDW 021	96U03989	1.01	<0.56	<1.70	0.94			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U903	13-Sep-96	A52	AZEB 006	96U03989																	<1.05	<1.47	<1.36
01U903	12-Dec-96	A53	BAVR 005	96U05930																	<1.05	<1.47	<1.36
01U903	12-Dec-96	A53	BAVS 005	96U05930	<0.75	<0.56	<1.70	1.29			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	C112CL2	C6H6	MEC6H5	TXYLEN
01U903		05-Mar-97	A54	BBXV 005	97U00565	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U903		18-Jun-97	A55	BFLF 018	97U02799																	<1.05	<1.47	<1.36
01U903		18-Jun-97	A55	BFLD 012	97U02799	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U903		03-Sep-97	A56	BGRK 018	97U03701	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U904		10-Oct-94	F45	IVZ 009	237256	<1.00	<0.50	<1.00	17.90			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U904		08-Nov-94	F45	IZB 010		<1.00	<0.50	<1.00	19.40			<1.90	<1.00	<1.00	<0.78	0.25	<1.30	<0.72	<1.00	<1.00	<3.20			
01U904		05-Dec-94	F45	IZC 005	285544	<1.00	<0.50	<1.00	10.20			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U904		17-Jan-95	F46	IZI 007	10189	<1.00	<0.50	<1.00	2.59			<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U904		03-Mar-95	F46	DRJ 008	4979-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
01U904		03-Apr-95	F47	DSG 007	5170-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U904		01-May-95	F47	DYT 007	5405-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U904		11-Jul-95	F48	ENF 006	6038-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U904		08-Aug-95	F48	ESH 006	6304-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U904		07-Sep-95	F48	EWB 006	6479-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
01U904		15-Dec-95	A49	HWJ 021	360635	<1.00	<0.50	<1.00	6.34		1.81	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U904		11-Mar-96	A50	HWR 009	42625	<1.00	<0.50	<1.00	0.88		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
01U904		19-Jun-96	A51	AXRG 017	NC																			
01U904		19-Jun-96	A51	AXRH 017	NC	<0.75	<0.56	<1.70	3.01			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40	<1.05	<1.47	<1.36
01U904		13-Sep-96	A52	AZDW 019	96U03989	<0.75	<0.56	<1.70	8.88			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
01U904		13-Sep-96	A52	AZEB 005	96U03989																			
01U904		12-Dec-96	A53	BAVS 006	96U05930	1.65	<0.56	<1.70	10.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40	<1.05	<1.47	<1.36
01U904		12-Dec-96	A53	BAVR 006	96U05930																			
01U904		05-Mar-97	A54	BBXV 006	97U00565	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40	<1.05	<1.47	<1.36
01U904	(3)	05-Mar-97	A54	BBXV 007	97U00565	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U904		18-Jun-97	A55	BFLF 016	97U02799																			
01U904		18-Jun-97	A55	BFLD 010	97U02799	<0.75	<0.56	<1.70	1.18			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40	<1.05	<1.47	<1.36
01U904		03-Sep-97	A56	BGRK 019	97U03701	<0.75	<0.56	<1.70	1.40			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F302		14-Mar-95	A46	IZP 006	59420	<10.00	400.00	<10.00	13.00		<3.00	<19.00	15.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03F302	(3)	14-Mar-95	A46	IZP 007	59420	<10.00	390.00	<10.00	14.00		<3.00	<19.00	15.00	<10.00	4.10	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03F302		11-Sep-95	A48	HWD 011	267619	<20.00	360.00	<20.00	8.90		<180.00	<38.00	19.00	<20.00	<16.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03F302	(3)	11-Sep-95	A48	HWD 012	267619	<20.00	360.00	<20.00	8.90		<180.00	<38.00	17.00	<20.00	<16.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03F302		06-Jun-96	A51	AXNV 016	96U01742	<0.75	320.00	<1.70	12.20			<1.01	13.70	<0.78	2.80	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F302		10-Sep-96	A52	AZAM 010	96U03825	1.75	380.00	3.85	19.10			<1.01	16.80	<0.78	3.71	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F302		11-Dec-96	A53	BAUY 014	96U05899	1.10	340.00	2.25	14.00			<1.01	17.20	<0.78	3.15	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F302		09-Jun-97	A55	BFFV 009	97U01967	1.76	260.00	2.70	10.60			<1.01	12.90	<0.78	3.03	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F303		14-Mar-95	A46	IZQ 005	59420	3.80	120.00	8.60	3.50		<1.50	<9.50	33.00	<5.00	5.20	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
03F303		11-Sep-95	A48	HWD 010	267619	5.00	140.00	8.10	3.20		<44.00	<9.50	36.00	<5.00	4.50	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
03F303		06-Jun-96	A51	AXNV 017	96U01742	2.08	106.00	6.87	2.42			<1.01	23.10	3.81	5.74	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F303		10-Sep-96	A52	AZAM 011	96U03825	4.75	135.00	12.60	6.57			<1.01	24.70	<0.78	7.24	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F303		11-Dec-96	A53	BAUY 015	96U05899	3.41	87.90	7.53	5.38			<1.01	16.10	4.53	5.28	<1.10	<0.99	0.77	T <1.00	T <1.00	<7.40			
03F303		09-Jun-97	A55	BFFV 010	97U01967	2.42	61.50	4.16	3.12			<1.01	9.57	<0.78	3.26	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F304		14-Mar-95	A46	IZQ 006	59420	<1.00	19.50	4.92	0.42		<0.30	<1.90	17.90	0.64	3.76	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03F304		11-Sep-95	A48	HWD 009	267619	<1.00	27.40	6.28	0.57		<8.82	<1.90	19.30	<1.00	4.06	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03F304		06-Jun-96	A51	AXNV 018	96U01742	<0.75	20.10	2.51	<0.76			<1.01	12.90	<0.78	3.27	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F304		10-Sep-96	A52	AZAM 012	96U03825	<0.75	27.10	5.85	1.44			<1.01	13.80	<0.78	4.09	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F304		11-Dec-96	A53	BAUY 016	96U05899	<0.75	22.00	3.60	<0.76			<1.01	12.90	1.16	2.92	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F304		09-Jun-97	A55	BFFV 011	97U01967	<0.75	18.70	4.04	1.08			<1.01	8.92	<0.78	2.92	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F305		14-Mar-95	A46	IZQ 010	59420	<50.00	1900.00	130.00	<25.00		<15.00	<95.00	620.00	<50.00	150.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			
03F305		11-Sep-95	A48	HWD 008	267619	<100.00	2300.00	110.00	62.00		<880.00	<190.00	590.00	<100.00	120.00	<50.00	<130.00	<72.00	<100.00	<100.00	<320.00			
03F305		06-Jun-96	A51	AXNV 019	96U01742	<0.75	1400.00	106.00	79.00			<1.01	340.00	<0.78	136.00	6.16	<0.99	7.31	<1.00	<1.00	<7.40			
03F305		10-Sep-96	A52	AZAM 013	96U03825	<0.75	2100.00	142.00	129.00			<1.01	400.00	<0.78	154.00	4.20	<0.99	<0.50	<1.00	<1.00	<7.40			
03F305		11-Dec-96	A53	BAUY 017	96U05899	<0.75	1800.00	124.00	118.00			<1.01	430.00	<0.78	146.00	3.90	<0.99	5.34	T <1.00	T <1.00	<7.40			
03F305		09-Jun-97	A55	BFFV 012	97U01967	1.65	1500.00	87.60	72.00			<1.01	330.00	<0.78	112.00	4.02	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F305	(3)	09-Jun-97	A55	BFFV 013	97U01967	1.65	1800.00	87.60	73.10			<1.01	350.00	<0.78	112.00	3.78	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F306		14-Mar-95	A46	IZQ 008	59420	<100.00	3400.00	130.00	<50.00		<30.00	<190.00	670.00	<100.00	57.00	<50.00	<130.00	<72.00	<100.00	<100.00	<320.00			
03F306		11-Sep-95	A48	HWE 005	267619	<50.00	4300.00	110.00	<25.00		<15.00	<95.00	620.00	<50.00	63.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03F306		06-Jun-96	A51	AXNV 020	96U01742	1.09	3100.00	98.20	13.80			<1.01	370.00	<0.78	78.30	1.41	<0.99	1.02	<1.00	7.25	<7.40			
03F306		10-Sep-96	A52	AZAM 016	96U03825	2.68	3700.00	137.00	22.50			<1.01	400.00	<0.78	95.40	1.93	<0.99	<0.50	<1.00	7.08	<7.40			
03F306		11-Dec-96	A53	BAUY 019	96U05899	2.20	JX 3100.00	108.00	17.20			<1.01	410.00	<0.78	88.80	2.32	<0.99	1.48	T <1.00	Z 7.10	<7.40			
03F306		09-Jun-97	A55	BFFV 014	97U01967	4.84	2400.00	62.90	10.40			<1.01	210.00	<0.78	69.70	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F307		14-Mar-95	A46	IZQ 013	59420	<20.00	770.00	30.00	<10.00		<6.00	<38.00	93.00	<20.00	30.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03F307		11-Sep-95	A48	HWD 006	267619	1.19	840.00	23.10	4.43		<8.82	<1.90	65.00	<1.00	26.70	0.78	<1.30	<0.72	<1.00	<1.00	<3.20			
03F307		06-Jun-96	A51	AXPR 015	96U01725	<0.75	670.00	20.20	8.13			<1.01	41.90	<0.78	26.20	<1.10	<0.99	<0.50	<1.00	1.21	<7.40			
03F307		10-Sep-96	A52	AZAN 005	96U03825	<0.75	640.00	24.40	8.33			<1.01	40.10	<0.78	28.40	<1.10	<0.99	<0.50	<1.00	1.28	<7.40			
03F307		11-Dec-96	A53	BAUY 021	96U05899	<0.75	600.00	20.20	6.13			<1.01	41.90	5.35	27.00	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F307		09-Jun-97	A55	BFFV 015	97U01967	<0.75	198.00	8.76	4.62			<1.01	32.30	<0.78	9.89	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F308		14-Mar-95	A46	IZQ 015	59420	<1.00	3.18	<1.00	<0.50		<0.30	<1.90	0.59	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03F308		11-Sep-95	A48	HWC 016	267619	<1.00	3.56	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03F308		06-Jun-96	A51	AXPR 016	96U01725	<0.75	3.04	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F308		10-Sep-96	A52	AZAN 008	96U03825	<0.75	2.93	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F308		11-Dec-96	A53	BAUY 024	96U05899	<0.75	1.87	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F308		09-Jun-97	A55	BFFV 016	97U01967	<0.75	1.32	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F312		14-Mar-95	A46	IZQ 004	59420	<1.00	8.20	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03F312		11-Sep-95	A48	HWD 004	267619	<1.00	9.46	<1.00	<0.50		<8.82	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03F312		06-Jun-96	A51	AXNV 014	96U01742	<0.75	4.05	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F312	(3)	06-Jun-96	A51	AXNV 015	96U01742	<0.75	3.96	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F312		10-Sep-96	A52	AZAN 006	96U03825	<0.75	7.47	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03F312		11-Dec-96	A53	BAUY 012	96U05899	<0.75	9.23	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F312	(3)	11-Dec-96	A53	BAUY 013	96U05899	<0.75	7.03	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F312		09-Jun-97	A55	BFFV 022	97U01967	<0.75	4.62	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L001		15-Mar-95	A46	IZT 004	NC	<1.00	0.46	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L001		13-Sep-95	A48	HWF 009	269743	<1.00	0.54	<1.00	<0.50		<0.30	<1.90	0.63	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L001		06-Jun-96	A51	AXNU 019	96U01742	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L001		11-Sep-96	A52	AZDH 010	96U03913	<0.75	2.37	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L001		10-Dec-96	A53	BASG 014	96U05762	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L001		06-Jun-97	A55	BFFT 021	97U01916	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L002		16-Mar-95	A46	IZT 019	NC	<10.00	250.00	9.30	<5.00		<3.00	<19.00	42.00	<10.00	6.70	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03L002		13-Jun-96	A51	AXPW 009	96U01824	<0.75	104.00	3.35	1.46			<1.01	11.50	<0.78	2.81	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L002		16-Jun-97	A55	BFLB 010	97U02755	<0.75	39.60	<1.70	<0.76			<1.01	2.80	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L005		24-Mar-95	F46	DSC 007	5121-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L005		24-Jun-96	A51	AXUU 010	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L007		21-Jun-96	A51	AXRK 015	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L007		20-Jun-97	A55	BFLG 018	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L017		13-Mar-95	A46	IZO 021	59420	<1.00	1.53	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L017		05-Jun-96	A51	AXNT 013	96U01742	<0.75	0.76	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L017		09-Jun-97	A55	BFFV 007	97U01967	<0.75	1.76	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L018		21-Mar-95	A46	IZV 015	NC	<1.00	1.33	<1.00	<0.50		<0.30	<1.90	0.96	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L018		10-Jun-96	A51	AXNW 012	NC	<0.75	R 2.97	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L018		10-Jun-97	A55	BFFW 022	97U01967	<0.75	33.00	<1.70	<0.76			<1.01	6.24	<0.78	0.98	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L020		05-Jun-96	A51	AXNT 006	96U01742	<0.75	210.00	<1.70	9.83			<1.01	9.81	<0.78	35.50	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L020		16-Jun-97	A55	BFLB 005	97U02755	<0.75	187.00	<1.70	10.40			<1.01	6.88	<0.78	34.80	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L021		14-Mar-95	A46	IZQ 022	59420	<1.00	34.00	1.09	0.85		<0.30	<1.90	1.05	<1.00	2.53	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L021		06-Jun-96	A51	AXNV 006	96U01742	<0.75	17.60	<1.70	<0.76			<1.01	<0.76	<0.78	1.22	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L021		10-Jun-97	A55	BFFW 017	97U01967	<0.75	15.40	<1.70	<0.76			<1.01	<0.76	<0.78	1.57	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L077		15-Mar-95	A46	IZS 004	NC	0.76	970.00	25.30	5.53		0.22	<1.90	160.00	10.50	8.45	1.02	<1.30	0.42	<1.00	<1.00	<3.20			
03L077		12-Jun-96	A51	AXPV 017	NC	<0.75	360.00	4.60	1.97			<1.01	41.60	<0.78	3.45	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03L077		10-Jun-97	A55	BFKF 006	97U02000	<0.75	750.00	58.40	16.10			<1.01	172.00	<0.78	58.40	1.59	<0.99	2.27	T <1.00	T <1.00	<7.40			
03L078		16-Mar-95	A46	IZT 016	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L078	(3)	16-Mar-95	A46	IZT 015	NC	<1.00	0.32	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L078		12-Jun-96	A51	AXPV 007	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L078		11-Jun-97	A55	BFKF 023	97U02000	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L079		16-Mar-95	A46	IZT 021	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L079		12-Jun-96	A51	AXPV 009	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L079		10-Jun-97	A55	BFFW 015	97U01967	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L080		13-Mar-95	A46	IZO 010	59420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L080		05-Jun-96	A51	AXNT 017	96U01742	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L081		22-Mar-95	F46	DSA 010	5107-01(4)	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L081		24-Jun-96	A51	AXUU 015	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L084		15-Mar-95	A46	IZS 022	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L084		11-Jun-96	A51	AXPU 014	NC	<0.75	0.68	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L084		10-Jun-97	A55	BFFW 011	97U01967	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L091		28-Mar-95	F46	DSF 008	5137-01	<2.41	8.20	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L091		26-Jun-96	A51	AXUW 019	96U02167	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L091		23-Jun-97	A55	BFRK 016	97U02831	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L113		22-Mar-95	F46	DSA 008	5107-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L113		24-Jun-96	A51	AXUU 019	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L138		22-Mar-95	F46	DSA 009	5107-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L138		26-Jun-96	A51	AXUW 018	96U02167	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L673		08-Dec-94	A45	IZF 010	288420	<20.00	1400.00	<20.00	28.00		<6.00	<38.00	<20.00	<20.00	<16.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03L673		15-Mar-95	A46	IZS 016	NC	<25.00	910.00	<25.00	30.00		<7.50	<48.00	<25.00	<25.00	<20.00	<13.00	<33.00	<18.00	<25.00	<25.00	<80.00			
03L673		12-Jun-96	A51	AXPU 018	NC	<0.75	650.00	2.30	31.60			<1.01	1.14	<0.78	2.31	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L673		12-Jun-97	A55	BFKW 006	97U02361	<0.75	240.00	<1.70	11.80			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L802		14-Mar-95	A46	IZR 006	59420	<1.00	17.80	<1.00	<0.50		<0.30	<1.90	0.65	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L802		12-Sep-95	A48	HWE 008	NC	<1.00	17.30	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L802		05-Jun-96	A51	AXNU 009	96U01742	<0.75	17.80	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L802		10-Sep-96	A52	AZAN 015	96U03825	<0.75	(5) 10.60	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L802	(3)	10-Sep-96	A52	AZAN 016	96U03825	<0.75	(5) 13.80	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L802		10-Dec-96	A53	BASG 018	96U05762	<0.75	12.10	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L802		16-Jun-97	A55	BFLB 012	97U02755(4)	<0.75	4.29	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L806		13-Mar-95	A46	IZO 019	59420	<5.00	80.00	7.00	2.10		<1.50	<9.50	35.00	<5.00	9.00	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
03L806		12-Sep-95	A48	HWF 005	NC	<2.00	120.00	15.00	3.00		<0.60	<3.80	51.00	5.40	20.00	0.57	<2.60	<1.40	<2.00	<2.00	<6.40			
03L806		06-Jun-96	A51	AXNU 013	96U01742	<0.75	142.00	40.20	18.30			<1.01	30.20	<0.78	67.60	2.41	<0.99	<0.50	<1.00	<1.00	<7.40			
03L806		10-Sep-96	A52	AZAN 012	96U03825	<0.75	260.00	68.30	12.00			<1.01	155.00	<0.78	51.10	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L806		25-Jun-97	A55	BFYX 013	NC		165.00	36.00		7.00	<1.00	<1.00	45.00	1.70	33.00	JP 0.61	<1.00	<1.00			<1.00			
03L809		13-Mar-95	A46	IZP 004	59420	<2.00	110.00	5.20	1.90		<0.60	<3.80	17.00	3.90	3.40	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
03L809		28-Mar-95	F46	DSF 006	5137-01	<2.41	69.00	5.09		1.14	<1.06	<4.10	10.90	2.47	3.30	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L809		19-Jun-96	A51	AXQY 007	96U01884	<0.75	R 81.50	3.52	1.54			<1.01	21.30	7.16	3.45	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L809		24-Jun-97	A55	BFRL 012	97U02926	<0.75	62.60	9.33	1.83			<1.01	41.90	6.98	5.96	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L809	(3)	24-Jun-97	A55	BFRL 013	97U02926	<0.75	56.00	8.20	1.83			<1.01	41.90	6.28	5.17	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L811		23-Mar-95	F46	DSB 010	5115-01	<2.41	<1.04	1.46		<0.89	<1.06	<4.10	<1.16	<1.52	8.16	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L811		19-Jun-96	A51	AXQY 006	96U01884	<0.75	R <0.56	<1.70	<0.76			<1.01	<0.76	<0.78	5.47	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L811		25-Jun-97	A55	BFYX 016	NC		JP 0.51	JP 0.93		<1.00	<1.00	<1.00	<1.00	<1.00	4.80	<1.00	<1.00	<1.00			<1.00			
03L822		15-Mar-95	F46	DRT 006	5054-01	<2.41	<1.04	40.30		4.00	<1.06	<4.10	21.50	<1.52	31.10	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L822		18-Jun-96	A51	AXQX 013	96U01884	<0.75	124.00	52.70	10.20			<1.01	71.00	<0.78	35.70	2.73	<0.99	<0.50	<1.00	2.03	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03L822		25-Jun-97	A55	BFYX 004	NC		130.00	41.00		5.00	<1.00	JP 0.92	30.00	JP 0.53	33.00	1.50	<1.00	JP 0.42			<1.00			
03L832		07-Dec-94	A45	ZZD 020	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L832		10-Mar-95	A46	IZN 005	NC	2.09	0.46	<1.00	<0.50		<0.30	<1.90	0.62	1.70	<0.78	0.49	<1.30	<0.72	<1.00	<1.00	<3.20			
03L832		03-Jun-96	A51	AXNJ 013	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L832		04-Jun-97	A55	BFKS 003	97U01860		<5.00	<5.00		<5.00	<5.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00			<5.00			
03L833		17-Mar-95	A46	IZV 005	63649	<1.00	62.00	<1.00	<0.50		<0.30	<1.90	0.92	<1.00	0.51	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L833		12-Sep-95	A48	HWE 009	NC	<2.00	69.00	<2.00	<1.00		<0.60	<3.80	1.50	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
03L833	(3)	12-Sep-95	A48	HWE 010	NC	<2.00	73.00	<2.00	<1.00		<0.60	<3.80	1.30	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
03L833		11-Jun-96	A51	AXPU 005	NC	<0.75	48.40	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L833		11-Sep-96	A52	AZDH 005	96U03913	<0.75	46.00	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L833		09-Dec-96	A53	BASG 005	96U05762	<0.75	37.40	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L833	(3)	09-Dec-96	A53	BASG 006	96U05762	<0.75	35.20	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L833		05-Jun-97	A55	BFFT 016	97U01916	<0.75	29.70	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L841		23-Mar-95	F46	DSB 005	5115-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L841		21-Jun-96	A51	AXUT 013	96U01981	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L841		24-Jun-97	A55	BFYM 013	NC(4)		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
03L846		20-Mar-95	F46	DRW 009	5087-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L846		20-Jun-96	A51	AXRK 005	96U01981	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L846		25-Jun-97	A55	BFYX 014	NC		JP 0.95	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
03L848		08-Dec-94	A45	IZF 006	288420	<1.00	22.00	<1.00	1.02		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L848		10-Mar-95	A46	IZN 012	NC	<1.00	16.60	<1.00	1.14		<0.30	<1.90	0.54	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L848		03-Jun-96	A51	AXNJ 017	NC	<0.75	11.30	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L848		05-Jun-97	A55	BFFQ 009	NC	<0.75	9.34	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L848	(3)	05-Jun-97	A55	BFFQ 010	NC	<0.75	8.57	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L853		16-Mar-95	F46	DRU 009	5072-01	<2.41	35.70	7.34		1.17	<1.06	<4.10	1.89	<1.52	8.20	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L853		18-Jun-96	A51	AXQX 008	96U01884	0.83	174.00	6.19	1.43			<1.01	31.60	<0.78	3.89	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L853	(3)	18-Jun-96	A51	AXQX 009	96U01884	0.82	175.00	6.27	1.41			<1.01	31.70	<0.78	3.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L853		25-Jun-97	A55	BFYX 011	NC		120.00	4.20		JP 0.60	<1.00	<1.00	16.00	<1.00	2.70	<1.00	<1.00	<1.00			<1.00			
03L854		16-Mar-95	F46	DRU 007	5072-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L854		20-Jun-96	A51	AXRK 008	96U01981	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L854		27-Jun-97	A55	BFRL 021	97U02964	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L856		23-Mar-95	F46	DSB 007	5115-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03L856		19-Jun-96	A51	AXQX 020	96U01884	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L856		25-Jun-97	A55	BFYX 008	NC		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
03L858		16-Mar-95	F46	DRU 011	5072-01(4)	<2.41	41.20	<1.01		2.00	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	6.55	8.95	<3.94	<4.47	<1.41			
03L858	(3)	16-Mar-95	F46	DRU 012	5072-01(4)	<2.41	39.20	<1.01		1.85	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	6.79	9.02	<3.94	<4.47	<1.41			
03L859		07-Dec-94	A45	IZE 010	288420	<1.00	4.75	<1.00	0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L859		10-Mar-95	A46	IZN 010	NC	<1.00	4.55	<1.00	0.58		<0.30	<1.90	1.06	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L859		03-Jun-96	A51	AXNJ 015	NC	<0.75	5.96	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L859		04-Jun-97	A55	BFFQ 005	NC	<0.75	2.86	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1 00	<7.40			
03L860		08-Dec-94	A45	IZF 004	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L860		10-Mar-95	A46	IZM 009	56391	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L860	(3)	10-Mar-95	A46	IZM 010	56391	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L860		04-Jun-96	A51	AXNJ 019	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L860		05-Jun-97	A55	BFKS 007	NC		<5.00	<5.00		<5.00	<5.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00			<5.00			
03L861		06-Dec-94	A45	ZZD 015	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L861		09-Mar-95	A46	IZL 018	56391	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	0.84	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03L861		04-Jun-96	A51	AXNK 007	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03L861		04-Jun-97	A55	BFFQ 007	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	C112CL2	C6116	MEC6115	TXYLEN
03M005		14-Mar-95	F46	DRQ 005		<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03M005		24-Jun-96	A51	AXUT 019	96U02093(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03M017		13-Mar-95	A46	IZO 006	59420	<2.00	49.00	1.60	<1.00		<0.60	<3.80	15.00	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
03M017		05-Jun-96	A51	AXNT 011	96U01742	<0.75	40.00	<1.70	<0.76			<1.01	5.23	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03M020		13-Mar-95	A46	IZO 013	59420(4)	<10.00	330.00	<10.00	4.00		<3.00	<19.00	31.00	<10.00	9.70	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03M020		05-Jun-96	A51	AXNT 009	96U01742	<0.75	159.00	<1.70	2.88			<1.01	3.90	<0.78	3.39	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03M020	(3)	05-Jun-96	A51	AXNT 010	96U01742	<0.75	146.00	<1.70	2.57			<1.01	3.75	<0.78	3.16	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03M713		14-Mar-95	A46	IZR 014	59420	<1.00	0.37	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03M713		05-Jun-96	A51	AXNU 005	96U01742	<0.75	1.06	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03M713		10-Jun-97	A55	BFKF 012	97U02000	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03M802		14-Mar-95	A46	IZR 010	59420	<1.00	46.10	<1.00	0.78		<0.30	<1.90	0.86	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03M802		05-Jun-96	A51	AXNU 008	96U01742	<0.75	44.10	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03M802		16-Jun-97	A55	BFLB 011	97U02755	<0.75	12.10	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03M806		13-Mar-95	A46	IZP 008	59420	<1.00	39.70	13.80	1.18		<0.30	<1.90	64.70	1.77	23.10	0.28	<1.30	0.38	<1.00	<1.00	<3.20			
03M806		11-Jun-96	A51	AXPU 012	NC	<0.75	55.50	16.60	5.19			<1.01	27.50	<0.78	24.80	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03M806		17-Jun-97	A55	BFLB 016	97U02755	<0.75	143.00	30.30	5.81			<1.01	28.00	9.07	49.40	<1.10	<0.99	1.14	T <1.00	T <1.00	<7.40			
03M843		15-Mar-95	F46	DRT 009	5054-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03M848		16-Mar-95	F46	DRU 010	5072-01	<2.41	59.00	9.34		6.49	<1.06	<4.10	<1.16	<1.52	11.80	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03M848		21-Jun-96	A51	AXUT 014	96U01981	<0.75	1400.00	8.62	76.80			<1.01	5.62	1.26	9.53	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03M848		26-Jun-97	A55	BFRL 016	97U02926	<0.75	510.00	6.18	49.50			<1.01	3.87	<0.78	8.88	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U003		14-Mar-95	A46	IZP 015	59420	<5.00	110.00	<5.00	2.30		<1.50	<9.50	15.00	<5.00	<3.90	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
03U003		06-Jun-95	A47	IZY 005	NC	<10.00	190.00	9.20	9.60		<3.00	<19.00	59.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U003		14-Sep-95	A48	HWF 013	NC	<2.00	130.00	3.20	3.70		<0.60	<3.80	17.00	<2.00	2.30	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
03U003		07-Mar-96	A50	HWP 010	37869	<1.00	31.00	0.86	1.60		<0.30	<1.90	7.80	<1.00	0.68	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U003		06-Jun-96	A51	AXNV 011	96U01742	<0.75	260.00	5.30	9.68			<1.01	52.50	<0.78	4.10	<1.10	<0.99	1.28	<1.00	<1.00	<7.40			
03U003		12-Sep-96	A52	AZDH 022	96U03913(4)	<0.75	157.00	5.99	10.80			<1.01	17.70	<0.78	4.26	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U003		10-Dec-96	A53	BASG 012	96U05762	<0.75	270.00	9.55	21.50			<1.01	38.70	<0.78	5.39	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U003		06-Jun-97	A55	BFFT 022	97U01916	<0.75	180.00	5.96	10.80			<1.01	34.40	<0.78	5.17	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U004		13-Mar-95	A46	IZO 008	59420	<1.00	0.86	<1.00	0.47		<0.30	<1.90	1.07	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U004		06-Jun-96	A51	AXNV 007	96U01742	<0.75	<0.56	<1.70	<0.76			3.91	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U005		13-Mar-95	F46	DRP 011	5036-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U005		24-Jun-96	A51	AXUU 005	96U02093	<0.75	<0.56	<1.70	3.46			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U007		21-Jun-96	A51	AXRK 012	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U007		20-Jun-97	A55	BFLG 013	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U007	(3)	20-Jun-97	A55	BFLG 014	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U009		08-Sep-95	F48	EWD 007	6484-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
03U009		21-Jun-96	A51	AXRK 019	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U009		20-Jun-97	A55	BFLG 020	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U014		21-Mar-95	A46	IZV 009	NC	<10.00	380.00	24.00	4.60		<3.00	<19.00	210.00	<10.00	4.40	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U014		11-Jun-96	A51	AXPR 008	NC	<0.75	3.88	<1.70	<0.76			<1.01	1.75	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U014		10-Jun-97	A55	BFFW 020	97U01967	<0.75	1.87	<1.70	<0.76			<1.01	0.97	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U015		09-Mar-95	F46	DRO 011	5015-01(4)	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U015	(3)	09-Mar-95	F46	DRO 012	5015-01(4)	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U015		24-Jun-96	A51	AXUU 006	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U015	(3)	24-Jun-96	A51	AXUU 007	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U015		20-Jun-97	A55	BFLG 021	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U016		09-Mar-95	F46	DRO 010	5015-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03U016		14-Jun-96	A51	AXQX 006	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U017		13-Mar-95	A46	IZO 004	59420	<1.00	10.20	<1.00	<0.50		<0.30	<1.90	2.43	<1.00	<0.78	(5) 0.45	<1.30	<0.72	<1.00	<1.00	<3.20			
03U017	(3)	13-Mar-95	A46	IZO 005	59420	<1.00	11.40	<1.00	<0.50		<0.30	<1.90	2.53	<1.00	<0.78	(5) 0.65	<1.30	<0.72	<1.00	<1.00	<3.20			
03U017		05-Jun-96	A51	AXNT 012	96U01742	<0.75	9.42	<1.70	<0.76			<1.01	1.28	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U017		09-Jun-97	A55	BFFV 005	97U01967	<0.75	4.18	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U018		21-Mar-95	A46	IZV 016	NC	<100.00	3800.00	72.00	<50.00		<30.00	<190.00	780.00	<100.00	46.00	<50.00	<130.00	<72.00	<100.00	<100.00	<320.00			
03U018		10-Jun-96	A51	AXNW 011	NC	<0.75	R 480.00	8.61	33.40			<1.01	85.70	<0.78	1.62	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U018		12-Jun-97	A55	BFKG 008	97U02001	<0.75	198.00	3.26	2.80			<1.01	28.00	<0.78	2.70	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U019		13-Mar-95	F46	DRP 005	5036-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U019		24-Jun-96	A51	AXUU 011	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U020		13-Mar-95	A46	IZO 012	59420	<50.00	1300.00	81.00	71.00		<15.00	<95.00	570.00	<50.00	58.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			
03U020		05-Jun-96	A51	AXNT 008	96U01742	<0.75	8800.00	90.00	33.40			<1.01	540.00	<0.78	42.00	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U020		16-Jun-97	A55	BFLB 007	97U02755(4)	<1.50	290.00	16.90	11.80			<1.01	118.00	<0.78	10.80	<1.10	<0.99	1.00	T <1.00	T <1.00	<7.40			
03U021		14-Mar-95	A46	IZR 007	59420	<20.00	910.00	65.00	74.00		<6.00	<38.00	350.00	<20.00	74.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03U021		06-Jun-96	A51	AXNT 018	96U01742	<0.75	2700.00	106.00	140.00			<1.01	482.00	<0.78	109.00	4.05	<0.99	<0.50	<1.00	<1.00	<7.40			
03U021		10-Jun-97	A55	BFFW 018	97U01967	<0.75	900.00	53.90	81.70			<1.01	270.00	<0.78	62.90	2.93	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U021	(3)	10-Jun-97	A55	BFFW 019	97U01967	<0.75	820.00	52.80	71.00			<1.01	230.00	<0.78	59.60	2.20	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U023		06-Mar-95	F46	DRK 005	4986-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U023		18-Jun-96	A51	AXRI 014	96U01906(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U026		13-Mar-95	F46	DRP 007	5036-01	<2.41	45.10	<1.01		1.04	<1.06	<4.10	7.67	<1.52	<0.97	<4.63	<1.20	37.80	<3.94	<4.47	<1.41			
03U026	(3)	13-Mar-95	F46	DRP 009	5036-01	<2.41	42.70	<1.01		1.09	<1.06	<4.10	7.40	<1.52	<0.97	<4.63	<1.20	36.90	<3.94	<4.47	<1.41			
03U026		25-Jun-96	A51	AXUV 015	96U02119	<0.75	(5) 42.00	<1.70	(5) 1.46			<1.01	(5) 3.48	<0.78	<0.73	<1.10	<0.99	(5) 33.00	<1.00	<1.00	<7.40			
03U026	(3)	25-Jun-96	A51	AXUV 016	96U02119	<0.75	(5) <0.56	<1.70	(5) <0.76			<1.01	(5) <0.76	<0.78	<0.73	<1.10	<0.99	(5) <0.50	<1.00	<1.00	<7.40			
03U027		15-Mar-95	A46	IZS 008	NC	<1.00	27.00	1.73	2.16		<0.30	<1.90	5.91	3.33	<0.78	<0.50	<1.30	0.68	<1.00	<1.00	<3.20			
03U027		10-Jun-96	A51	AXNW 017	NC	<0.75	R 21.10	<1.70	1.51			<1.01	3.51	3.65	<0.73	<1.10	<0.99	0.65	<1.00	<1.00	<7.40			
03U028		20-Mar-95	A46	IZV 013	NC	<1.00	64.00	0.88	9.88		<0.30	<1.90	4.13	0.66	0.43	<0.50	<1.30	0.90	<1.00	<1.00	<3.20			
03U028		10-Jun-96	A51	AXNW 018	NC	<0.75	R 175.00	3.12	32.30			<1.01	15.40	<0.78	1.21	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U028		12-Jun-97	A55	BFKG 017	97U02001	<0.75	98.90	1.91	(5) 14.00			<1.01	10.50	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U028	(3)	12-Jun-97	A55	BFKG 018	97U02001	<0.75	103.00	2.13	(5) 10.00			<1.01	12.90	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U029		21-Mar-95	A46	IZV 006	NC	<10.00	430.00	<10.00	66.00		<3.00	<19.00	43.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U029		10-Jun-96	A51	AXNW 019	NC	<0.75	R 396.00	4.30	67.00			<1.01	41.10	<0.78	0.93	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U030		20-Mar-95	A46	IZU 019	NC	<1.00	15.30	<1.00	0.41		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U030		10-Jun-96	A51	AXNW 020	NC	<0.75	R 5.85	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U030		12-Jun-97	A55	BFKG 015	97U02001	<0.75	2.31	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U031		13-Mar-95	A46	IZO 011	59420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U031		11-Jun-96	A51	AXPR 014	NC	<0.75	0.70	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U031		16-Sep-96	A52	AZET 017	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U032		17-Mar-95	F46	DRV 007		<2.41	3.86	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U032		26-Jun-96	A51	AXUV 005	96U02167	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U032		23-Jun-97	A55	BFRK 009	97U02831	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U075		15-Mar-95	A46	IZS 015	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U075		12-Jun-96	A51	AXPW 005	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U075		13-Jun-97	A55	BFKW 009	97U02361	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U077		15-Mar-95	A46	IZS 009	NC	<50.00	640.00	54.00	<25.00		<15.00	<95.00	290.00	<50.00	<39.00	<25.00	<65.00	<36.00	<50.00	<50.00	100.00			
03U077		12-Jun-96	A51	AXPV 014	NC	3.34	197.00	8.90	<0.76			<1.01	60.00	1.00	1.29	<1.10	<0.99	<0.50	<1.00	1.21	<7.40			
03U077		10-Jun-97	A55	BFFW 026	97U01967	2.20	220.00	9.78	1.29			<1.01	74.20	<0.78	2.25	<1.10	<0.99	<0.50	T <1.00	Z 1.50	<7.40			

APPENDIX C.2
***Groundwater* Quality Data (Organics) - ug/l (1)**

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03U078		16-Mar-95	A46	IZT 013	NC	13.00	190.00	25.00	3.00		<3.00	<19.00	79.00	<10.00	18.00	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U078		12-Jun-96	A51	AXPV 005	NC	7.88	(5) 59.60	(5) 5.47	1.11			<1.01	(5) 21.60	<0.78	(5) 3.84	<1.10	<0.99	(5) 1.30	<1.00	<1.00	<7.40			
03U078	(3)	12-Jun-96	A51	AXPV 006	NC	9.47	(5) 120.00	(5) 10.30	1.10			<1.01	(5) 32.50	<0.78	(5) 7.17	<1.10	<0.99	(5) 0.87	<1.00	<1.00	<7.40			
03U078		11-Jun-97	A55	BFKG 005	97U02000	5.27	48.40	2.13	<0.76			<1.01	10.80	<0.78	1.12	<1.10	<0.99	0.63	T <1.00	T <1.00	<7.40			
03U079		16-Mar-95	A46	IZT 020	NC	<50.00	860.00	<50.00	29.00		<15.00	<95.00	77.00	<50.00	<39.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			
03U079		12-Jun-96	A51	AXPV 008	NC	<0.75	300.00	4.66	10.30			<1.01	51.00	<0.78	2.99	<1.10	<0.99	1.47	<1.00	<1.00	<7.40			
03U079		10-Jun-97	A55	BFFW 016	97U01967	<0.75	240.00	5.73	14.00			<1.01	47.30	<0.78	3.71	<1.10	<0.99	0.64	T <1.00	T <1.00	<7.40			
03U083		10-Mar-95	F46	DRN 015	5027-01																	<0.25	<0.25	<0.25
03U083		10-Mar-95	F46	DRO 014	5027-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U083		20-Jun-96	A51	AXRH 020	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U083		20-Jun-96	A51	AXRG 020	NC																			
03U083		19-Jun-97	A55	BFRM 005	97U02820																	<1.05	<1.47	<1.36
03U083		19-Jun-97	A55	BFLG 010	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40	<1.05	<1.47	<1.36
03U084		15-Mar-95	A46	IZS 023	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U084		11-Jun-96	A51	AXPU 013	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U084		10-Jun-97	A55	BFFW 012	97U01967	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U087		22-Mar-95	F46	DSA 007	5107-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U087		26-Jun-96	A51	AXUV 006	96U02119	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U087		23-Jun-97	A55	BFRK 010	97U02831	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U089		10-Mar-95	F46	DRO 013	5027-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U089		20-Jun-96	A51	AXRJ 018	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U089	(3)	20-Jun-96	A51	AXRJ 019	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U090		13-Mar-95	F46	DRP 010	5036-01	<2.41	16.90	2.86		2.93	<1.06	<4.10	31.50	<1.52	<0.97	<4.63	<1.20	2.18	<3.94	<4.47	<1.41			
03U090		25-Jun-96	A51	AXUV 017	96U02119	<0.75	9.77	<1.70	1.11			<1.01	9.95	<0.78	<0.73	<1.10	<0.99	2.18	<1.00	<1.00	<7.40			
03U092		14-Mar-95	F46	DRQ 006		<2.41	59.00	<1.01		2.04	<1.06	<4.10	4.15	<1.52	<0.97	<4.63	<1.20	29.00	<3.94	<4.47	<1.41			
03U092		24-Jun-96	A51	AXUU 012	96U02093	<0.75	50.30	<1.70	1.65			<1.01	3.80	<0.78	<0.73	<1.10	<0.99	51.90	<1.00	<1.00	<7.40			
03U092		12-Jun-97	A55	BFKG 010	97U02001	<0.75	39.60	<1.70	1.51			<1.01	4.41	<0.78	<0.73	<1.10	<0.99	42.00	T <1.00	T <1.00	<7.40			
03U093		17-Mar-95	A46	IZU 010	63649	<20.00	280.00	<20.00	<10.00		<6.00	<38.00	89.00	<20.00	<16.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03U093	(3)	17-Mar-95	A46	IZU 011	63649	<10.00	290.00	14.00	<5.00		<3.00	<19.00	92.00	<10.00	5.40	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U093		14-Sep-95	A48	HWF 015	NC	<10.00	380.00	16.00	<5.00		<3.00	<19.00	110.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U093		10-Jun-96	A51	AXNW 015	NC	<0.75	R 360.00	6.09	3.84			<1.01	44.00	<0.78	6.22	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U093		12-Sep-96	A52	AZDH 015	96U03913	<0.75	260.00	8.00	4.40			<1.01	36.90	<0.78	10.60	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U093		10-Dec-96	A53	BASG 017	96U05762	<0.75	680.00	14.60	10.20			<1.01	26.90	<0.78	32.60	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U094		21-Mar-95	A46	IZV 012	NC	<20.00	640.00	61.00	<10.00		<6.00	<38.00	470.00	<20.00	<16.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03U094		11-Jun-96	A51	AXPR 007	NC	<0.75	1100.00	50.40	6.27			<1.01	750.00	<0.78	9.54	<1.10	<0.99	<0.50	2.86	<1.00	<7.40			
03U094		12-Jun-97	A55	BFKG 014	97U02001	<0.75	440.00	13.50	3.01			<1.01	200.00	<0.78	4.04	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U096		17-Mar-95	A46	IZU 012	63649(4)	<5.00	140.00	15.00	<2.50		<1.50	<9.50	93.00	<5.00	10.00	<2.50	<6.50	<3.60	<5.00	3.60	<16.00			
03U096		10-Jun-96	A51	AXNW 013	NC(4)	<0.75	R 66.30	4.55	<0.76			<1.01	28.40	<0.78	3.69	<1.10	<0.99	<0.50	<1.00	1.35	<7.40			
03U096		12-Jun-97	A55	BFKG 009	97U02001	<0.75	17.60	<1.70	<0.76			<1.01	8.60	<0.78	0.87	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U097		09-Mar-95	F46	DRO 008	5015-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U097		24-Jun-96	A51	AXUU 013	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U097		23-Jun-97	A55	BFRK 011	97U02831	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U099		25-Jun-96	A51	AXUV 018	96U02119	<0.75	12.60	<1.70	<0.76			<1.01	2.59	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U099	(3)	25-Jun-96	A51	AXUV 019	96U02119	<0.75	12.30	<1.70	<0.76			<1.01	2.56	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U099		23-Jun-97	A55	BFRK 007	97U02831(4)	<0.75	6.59	<1.70	<0.76			<1.01	0.93	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U112		14-Mar-95	F46	DRQ 008		<2.41	32.00	<1.01		<0.89	<1.06	<4.10	2.18	<1.52	<0.97	<4.63	<1.20	36.50	<3.94	<4.47	<1.41			
03U112		25-Jun-96	A51	AXUV 014	96U02119	<0.75	9.92	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	14.10	<1.00	<1.00	<7.40			
03U113		13-Mar-95	F46	DRP 012	5036-01(4)	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03U113		24-Jun-96	A51	AXUU 014	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U114		13-Mar-95	F46	DRP 006	5036-01	<2.41	24.20	4.41		8.76	<1.06	<4.10	33.70	<1.52	<0.97	<4.63	1.93	<1.08	<3.94	<4.47	<1.41			
03U114		25-Jun-96	A51	AXUU 020	96U02093	<0.75	13.50	2.42	<0.76			<1.01	20.30	<0.78	<0.73	<1.10	<0.99	4.18	<1.00	<1.00	<7.40			
03U114		12-Jun-97	A55	BFKG 011	97U02001	<0.75	7.47	<1.70	<0.76			<1.01	4.62	<0.78	<0.73	<1.10	<0.99	1.93	T <1.00	T <1.00	<7.40			
03U121		22-Mar-95	F46	DSA 006	5107-01	<2.41	8.89	<1.01		<0.89	<1.06	<4.10	2.20	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U121		25-Jun-96	A51	AXUV 013	96U02119	<0.75	0.80	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U124		17-Mar-95	F46	DRV 008		<2.41	2.66	<1.01		<0.89	<1.06	<4.10	4.37	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U124		26-Jun-96	A51	AXUV 007	96U02167(4)	<0.75	2.64	<1.70	<0.76			<1.01	4.08	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U301		14-Mar-95	A46	IZP 005	59420	<25.00	780.00	<25.00	65.00		<7.50	<48.00	26.00	<25.00	<20.00	<13.00	<33.00	<18.00	<25.00	<25.00	<80.00			
03U301		11-Sep-95	A48	HWD 015	267619	<50.00	1300.00	<50.00	71.00		<440.00	<95.00	<50.00	<50.00	<39.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			
03U301		12-Jun-96	A51	AXPV 011	NC	<0.75	1200.00	4.36	108.00			<1.01	45.70	<0.78	1.35	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U301		11-Dec-96	A53	BAUY 011	96U05899	1.54	1500.00	3.60	161.00			<1.01	41.90	1.40	1.80	<1.10	<0.99	8.41	T <1.00	T <1.00	<7.40			
03U301		09-Jun-97	A55	BFFV 024	97U01967	1.32	1100.00	3.26	74.20			<1.01	26.90	<0.78	1.57	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U301	(3)	09-Jun-97	A55	BFFW 005	97U01967	1.04	910.00	2.58	77.40			<1.01	26.90	<0.78	1.24	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U314		14-Mar-95	A46	IZQ 017	59420	<20.00	670.00	35.00	7.20		<6.00	<38.00	250.00	<20.00	27.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03U314		11-Sep-95	A48	HWD 014	267619	<20.00	600.00	37.00	<10.00		<180.00	<38.00	270.00	<20.00	13.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
03U314		06-Jun-96	A51	AXNW 006	96U01742	<0.75	R 500.00	21.10	5.84			<1.01	131.00	<0.78	16.90	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U314		10-Sep-96	A52	AZAM 008	96U03825	<0.75	470.00	32.40	(5) 6.52			<1.01	199.00	<0.78	13.30	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U314	(3)	10-Sep-96	A52	AZAM 009	96U03825	<0.75	470.00	32.80	(5) 4.63			<1.01	203.00	<0.78	12.50	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U314		11-Dec-96	A53	BAUY 007	96U05899	<0.75	440.00	22.50	8.28			<1.01	204.00	<0.78	12.40	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U314		09-Jun-97	A55	BFFW 006	97U01967	<0.75	240.00	11.20	3.87			<1.01	100.00	<0.78	9.21	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U315		14-Mar-95	A46	IZQ 018	59420	<1.00	41.60	2.52	<0.50		<0.30	<1.90	18.10	<1.00	1.12	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U315		11-Sep-95	A48	HWD 013	267619	<1.00	51.30	3.19	<0.50		<8.82	<1.90	21.20	<1.00	0.66	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U315		06-Jun-96	A51	AXNW 007	96U01742	<0.75	R 43.30	2.27	<0.76			<1.01	14.80	<0.78	<0.73	<1.10	<0.99	0.63	<1.00	<1.00	<7.40			
03U315		10-Sep-96	A52	AZAM 007	96U03825	<0.75	38.00	2.20	<0.76			<1.01	14.20	<0.78	<0.73	<1.10	<0.99	0.77	<1.00	<1.00	<7.40			
03U315		11-Dec-96	A53	BAUY 008	96U05899	<0.75	30.80	<1.70	<0.76			<1.01	11.80	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U315		09-Jun-97	A55	BFFW 007	97U01967	<0.75	20.90	<1.70	<0.76			<1.01	8.82	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U316		14-Mar-95	A46	IZQ 019	59420	<1.00	14.40	1.57	<0.50		<0.30	<1.90	7.64	<1.00	1.46	<0.50	<1.30	1.51	<1.00	<1.00	<3.20			
03U316	(3)	14-Mar-95	A46	IZQ 020	59420	<1.00	12.40	1.26	<0.50		<0.30	<1.90	6.91	<1.00	1.25	<0.50	<1.30	1.30	<1.00	<1.00	<3.20			
03U316		11-Sep-95	A48	HWE 004	267619	<1.00	19.40	1.92	0.29		<0.30	<1.90	9.92	<1.00	1.38	<0.50	<1.30	1.39	<1.00	<1.00	<3.20			
03U316		06-Jun-96	A51	AXNW 008	96U01742	<0.75	R 19.70	<1.70	<0.76			<1.01	6.52	<0.78	1.19	<1.10	<0.99	1.39	<1.00	<1.00	<7.40			
03U316	(3)	06-Jun-96	A51	AXNW 009	96U01742	<0.75	R 23.00	<1.70	<0.76			<1.01	6.67	<0.78	1.16	<1.10	<0.99	1.47	<1.00	<1.00	<7.40			
03U316		10-Sep-96	A52	AZAM 006	96U03825	<0.75	24.40	<1.70	<0.76			<1.01	7.71	<0.78	1.27	<1.10	<0.99	1.53	<1.00	<1.00	<7.40			
03U316		11-Dec-96	A53	BAUY 010	96U05899	<0.75	28.60	<1.70	<0.76			<1.01	4.09	<0.78	<0.73	<1.10	<0.99	0.63	T <1.00	T <1.00	<7.40			
03U316		09-Jun-97	A55	BFFW 008	97U01967	<0.75	24.20	<1.70	<0.76			<1.01	3.55	<0.78	0.90	<1.10	<0.99	0.63	T <1.00	T <1.00	<7.40			
03U317		14-Mar-95	A46	IZQ 021	59420	<200.00	6700.00	120.00	<100.00		<60.00	<380.00	2300.00	<200.00	<160.00	<100.00	<260.00	<140.00	<200.00	<200.00	<640.00			
03U317		11-Sep-95	A48	HWF 004	267619	25.00	8400.00	33.00	6.00		<3.00	<19.00	2800.00	<10.00	40.00	8.60	<13.00	<7.20	<10.00	26.00	<32.00			
03U317		06-Jun-96	A51	AXNW 010	96U01742	16.30	R 7400.00	94.90	6.02			<1.01	1800.00	<0.78	35.70	3.07	<0.99	1.45	<1.00	30.70	<7.40			
03U317		10-Sep-96	A52	AZAM 005	96U03825	15.50	8000.00	145.00	6.62			<1.01	2200.00	<0.78	39.30	2.55	<0.99	1.34	<1.00	35.80	<7.40			
03U317		11-Dec-96	A53	BAUY 009	96U05899	15.40	JX 6800.00	62.90	6.77			<1.01	2200.00	<0.78	38.20	5.49	<0.99	1.36	T <1.00	Z 40.00	<7.40			
03U317		09-Jun-97	A55	BFFW 009	97U01967(4)	9.34	4700.00	78.70	4.84			<1.01	1200.00	<0.78	28.10	<1.10	<0.99	<0.50	T <1.00	Z 15.00	<7.40			
03U658		13-Mar-95	A46	IZO 009	59420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U658		10-Jun-96	A51	AXNW 016	NC	<0.75	R <0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U658		12-Jun-97	A55	BFKG 020	97U02001	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U659		21-Mar-95	A46	IZV 007	NC	<10.00	340.00	<10.00	48.00		<3.00	<19.00	21.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U659	(3)	21-Mar-95	A46	IZV 008	NC	<10.00	340.00	<10.00	48.00		<3.00	<19.00	25.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U659		10-Jun-96	A51	AXPR 005	NC(4)	<0.75	143.00	<1.70	16.60			<1.01	7.72	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U659		12-Jun-97	A55	BFKG 019	97U02001	<0.75	X >300.00	3.48	53.80			<1.01	26.90	<0.78	2.70	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U671		15-Mar-95	A46	IZS 014	NC	<25.00	560.00	51.00	9.30		<7.50	<48.00	210.00	<25.00	37.00	<13.00	<33.00	<18.00	<25.00	<25.00	<80.00			
03U671		06-Jun-96	A51	AXNV 008	96U01742	(5) 1.12	169.00	11.90	2.95			<1.01	61.90	<0.78	10.30	<1.10	<0.99	1.44	<1.00	<1.00	<7.40			
03U671	(3)	06-Jun-96	A51	AXNV 009	96U01742	(5) <0.75	186.00	12.60	3.25			<1.01	69.20	<0.78	11.20	<1.10	<0.99	1.19	<1.00	<1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well	Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03U671	11-Jun-97	A55	BFKG 007	97U02000(4)	1.21	165.00	12.40	3.01			<1.01	55.90	<0.78	12.40	<1.10	<0.99	0.85	T <1.00	T <1.00	<7.40			
03U672	17-Mar-95	A46	IZU 007	63649	<1.00	0.39	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U672	12-Sep-95	A48	HWE 007	NC	<1.00	0.69	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U672	13-Jun-96	A51	AXPX 014	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U672	10-Sep-96	A52	AZAN 014	96U03825	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U672	09-Dec-96	A53	BASG 011	96U05762	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U672	17-Jun-97	A55	BFLB 018	97U02755	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U673	08-Dec-94	A45	IZF 009	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U673	15-Mar-95	A46	IZS 020	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U673	12-Sep-95	A48	HWD 016	NC	<1.00	<0.50	<1.00	<0.50		<8.82	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U673	12-Jun-96	A51	AXPU 015	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U673	12-Jun-97	A55	BFKW 008	97U02361	<0.75	0.78	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U701	17-Mar-95	A46	IZU 005	63649	<1.00	32.00	0.72	0.89		<0.30	<1.90	4.19	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U701	13-Jun-96	A51	AXPX 006	NC	<0.75	16.30	<1.70	<0.76			<1.01	1.38	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U701	18-Jun-97	A55	BFKW 014	97U02759	<0.75	7.91	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U702	13-Mar-95	A46	IZP 011	NC	<1.00	5.00	<1.00	<0.50		<0.30	<1.90	0.86	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U702	14-Jun-96	A51	AXPW 011	96U01824	<0.75	2.89	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U702	06-Jun-97	A55	BFFT 007	97U01916	<0.75	0.66	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U702 (3)	06-Jun-97	A55	BFFT 008	97U01916	<0.75	0.69	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U703	22-Mar-95	A46	IZV 011	NC	<5.00	200.00	4.40	6.00		<1.50	<9.50	25.00	<5.00	2.50	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
03U703	11-Jun-96	A51	AXPR 011	NC	1.00	138.00	2.26	3.53			<1.01	14.70	4.22	1.45	<1.10	<0.99	0.69	<1.00	<1.00	<7.40			
03U703	18-Jun-97	A55	BFKW 016	97U02759	10.20	69.20	<1.70	2.90			<1.01	8.71	5.00	<0.73	<1.10	<0.99	0.84	T <1.00	T <1.00	<7.40			
03U704	16-Mar-95	A46	IZT 010	NC	<1.00	0.33	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U704	12-Jun-96	A51	AXPV 019	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U705	16-Mar-95	A46	IZT 011	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705	14-Sep-95	A48	HWF 016	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705 (3)	14-Sep-95	A48	HWF 017	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U705	12-Jun-96	A51	AXPV 020	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U705	12-Sep-96	A52	AZDH 018	96U03913	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U705	06-Jun-97	A55	BFFT 009	97U01916	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U706	15-Mar-95	A46	IZS 012	NC	<1.00	0.32	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U706	14-Sep-95	A48	HWF 018	NC	<1.00	0.35	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U706	05-Jun-96	A51	AXNT 014	96U01742	<0.75	1.16	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U706	12-Sep-96	A52	AZDH 020	96U03913	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U706	06-Jun-97	A55	BFFT 010	97U01916	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U707	15-Mar-95	A46	IZS 013	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U707	05-Jun-96	A51	AXNT 016	96U01742	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U708	14-Mar-95	A46	IZS 007	59420(4)	9.47	880.00	86.00	32.00		<0.30	<1.90	380.00	<1.00	49.10	1.58	<1.30	2.04	<1.00	<1.00	1.56			
03U708	06-Jun-96	A51	AXNU 016	96U01742	8.16	1400.00	88.90	82.30			<1.01	410.00	<0.78	82.80	1.74	<0.99	<0.50	<1.00	<1.00	<7.40			
03U708	11-Jun-97	A55	BFKF 020	97U02000	2.64	110.00	6.63	5.48			<1.01	22.60	<0.78	7.75	<1.10	<0.99	1.48	T <1.00	T <1.00	<7.40			
03U709	15-Mar-95	A46	IZT 007	NC	<10.00	130.00	14.00	<5.00		<3.00	<19.00	33.00	<10.00	24.00	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U709	13-Jun-96	A51	AXPX 012	NC	<0.75	78.00	10.70	0.99			<1.01	12.50	<0.78	22.20	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U709	09-Jun-97	A55	BFFW 023	97U01967	<0.75	62.60	11.10	<0.76			<1.01	18.30	<0.78	23.60	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U710	22-Mar-95	A46	IZV 010	NC	<10.00	260.00	<10.00	7.60		<3.00	<19.00	35.00	<10.00	<7.80	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
03U710	11-Jun-96	A51	AXPR 012	NC	<0.75	380.00	9.76	11.70			<1.01	(5) 40.80	<0.78	9.36	<1.10	<0.99	2.24	<1.00	<1.00	<7.40			
03U710 (3)	11-Jun-96	A51	AXPR 013	NC	<0.75	430.00	10.60	13.10			<1.01	(5) 53.10	<0.78	9.51	<1.10	<0.99	1.92	<1.00	<1.00	<7.40			
03U710	09-Jun-97	A55	BFFV 008	97U01967	<0.75	290.00	2.58	10.40			<1.01	21.50	<0.78	1.91	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U711	16-Mar-95	A46	IZU 009	NC	<25.00	540.00	70.00	7.90		<7.50	<48.00	260.00	<25.00	45.00	<13.00	<33.00	<18.00	<25.00	<25.00	<80.00			
03U711	12-Sep-95	A48	HWE 013	NC	<20.00	470.00	41.00	<10.00		<6.00	<38.00	170.00	<20.00	30.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03U711		11-Jun-96	A51	AXPU 007	NC	5.46	210.00	23.40	4.09			<1.01	75.30	<0.78	21.90	<1.10	<0.99	1.48	<1.00	<1.00	<7.40			
03U711		11-Sep-96	A52	AZDH 008	96U03913(4)	6.91	260.00	30.40	5.22			<1.01	69.50	<0.78	23.10	<1.10	<0.99	1.72	<1.00	<1.00	<7.40			
03U711		09-Dec-96	A53	BASG 009	96U05762	6.70	230.00	34.80	5.38			<1.01	74.20	<0.78	24.70	<1.10	<0.99	2.05	T <1.00	T <1.00	<7.40			
03U711		13-Jun-97	A55	BFKW 010	97U02361	3.41	110.00	10.40	2.04			<1.01	31.20	<0.78	11.20	<1.10	<0.99	1.59	T <1.00	T <1.00	<7.40			
03U801		17-Mar-95	A46	IZU 004	63649	<25.00	990.00	<25.00	20.00		<7.50	<48.00	<25.00	<25.00	<20.00	<13.00	<33.00	<18.00	<25.00	<25.00	<80.00			
03U801		14-Jun-96	A51	AXPW 019	96U01824(4)	<0.75	590.00	<1.70	11.20			<1.01	2.17	<0.78	0.96	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U801		17-Jun-97	A55	BFLB 017	97U02755	<0.75	198.00	<1.70	3.66			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U803		25-Jun-97	A55	BFRL 014	97U02926(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U804		16-Mar-95	A46	IZT 022	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U804		12-Jun-96	A51	AXPU 020	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U804		12-Jun-97	A55	BFKW 005	97U02361	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U805		17-Mar-95	A46	IZV 004	63649	<1.00	<0.50	<1.00	1.27		<0.30	<1.90	0.75	<1.00	0.45	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
03U805		13-Jun-96	A51	AXPX 015	NC(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U805		13-Jun-97	A55	BFKW 012	97U02361	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U806		13-Mar-95	A46	IZO 020	59420	<50.00	1200.00	49.00	<25.00		<15.00	<95.00	110.00	<50.00	95.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			
03U806		13-Sep-95	A48	HWE 015	269743	<50.00	1100.00	39.00	<25.00		<15.00	<95.00	82.00	<50.00	63.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			
03U806		11-Jun-96	A51	AXPU 011	NC	2.64	1100.00	67.40	12.40			<1.01	44.10	<0.78	92.70	<1.10	<0.99	<0.50	<1.00	6.57	<7.40			
03U806		10-Sep-96	A52	AZAN 010	96U03825	2.51	830.00	62.80	10.60			<1.01	31.20	<0.78	82.20	<1.10	<0.99	<0.50	<1.00	6.36	<7.40			
03U811		23-Mar-95	F46	DSB 008	5115-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U811		19-Jun-96	A51	AXQY 005	96U01884	<0.75	R <0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U811		25-Jun-97	A55	BFYX 017	NC		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
03U815		21-Jun-96	A51	AXUT 011	96U01981(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U815		25-Jun-97	A55	BFYX 006	NC		JP 0.82	JP 0.37		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
03U821		15-Mar-95	F46	DRT 012	5054-01(4)	<2.41	17.20	3.47		1.68	<1.06	<4.10	4.29	<1.52	4.28	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U821	(3)	15-Mar-95	F46	DRT 013	5054-01(4)	<2.41	<1.04	<1.01		1.68	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U821		18-Jun-96	A51	AXQX 011	96U01884(4)	<0.75	65.60	2.31	1.11			<1.01	5.09	<0.78	3.19	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U821		26-Jun-97	A55	BFYY 009	NC		47.00	2.10		JP 0.54	<1.00	<1.00	4.70	<1.00	2.10	<1.00	<1.00	<1.00			<1.00			
03U822		15-Mar-95	F46	DRT 005	5054-01	<2.41	9.10	9.25		1.34	<1.06	<4.10	3.96	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U824		15-Mar-95	F46	DRT 010	5054-01	<2.41	19.70	5.89		3.40	<1.06	<4.10	4.78	<1.52	8.61	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U824		19-Jun-96	A51	AXQX 015	96U01884	<0.75	148.00	5.11	1.37			<1.01	23.90	<0.78	3.96	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U824	(3)	19-Jun-96	A51	AXQX 016	96U01884	<0.75	156.00	5.00	1.29			<1.01	23.90	<0.78	3.84	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U824		26-Jun-97	A55	BFYY 008	NC		85.00	3.70		JP 0.55	<1.00	<1.00	14.00	<1.00	2.60	<1.00	<1.00	<1.00			<1.00			
03U831		16-Mar-95	F46	DRU 005	5072-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U831		19-Jun-96	A51	AXQX 018	96U01884(4)	<0.75	148.00	5.33	<0.76			<1.01	28.40	<0.78	3.26	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U831		27-Jun-97	A55	BFSN 009	97U02964		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
03U832		16-Mar-95	F46	DRU 008	5072-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
03U832		21-Jun-96	A51	AXUT 012	96U01981	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
03U832		27-Jun-97	A55	BFRL 020	97U02964	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J077		15-Mar-95	A46	IZR 016	NC(4)	<100.00	1500.00	140.00	<50.00		<30.00	<190.00	500.00	<100.00	120.00	<50.00	<130.00	<72.00	<100.00	<100.00	<320.00			
04J077		12-Jun-96	A51	AXPV 018	NC	<0.75	410.00	20.30	5.34			<1.01	68.30	<0.78	23.60	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J077		10-Jun-97	A55	BFKF 007	97U02000	<0.75	300.00	7.64	1.61			<1.01	34.40	<0.78	2.92	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J702		13-Mar-95	A46	IZP 010	59420	<1.00	24.10	0.94	<0.50		<0.30	<1.90	4.12	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J702		14-Jun-96	A51	AXPW 015	96U01824	<0.75	62.00	2.06	<0.76			<1.01	9.44	<0.78	1.34	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J702		06-Jun-97	A55	BFFT 005	97U01916	<0.75	46.20	<1.70	<0.76			<1.01	7.63	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J708		14-Mar-95	A46	IZR 008	59420	<1.00	11.60	<1.00	0.36		<0.30	<1.90	(5) 1.24	<1.00	1.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J708	(3)	14-Mar-95	A46	IZR 009	59420	<1.00	10.60	<1.00	0.35		<0.30	<1.90	(5) 1.96	<1.00	1.69	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J708		06-Jun-96	A51	AXNU 018	96U01742	<0.75	6.93	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
04J708		11-Jun-97	A55	BFKF 021	97U02000	<0.75	4.84	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J713		14-Mar-95	A46	IZR 012	59420	<1.00	5.89	<1.00	<0.50		<0.30	<1.90	1.26	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J713		05-Jun-96	A51	AXNU 007	96U01742	<0.75	4.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J713		10-Jun-97	A55	BFKF 009	97U02000	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J714		16-Mar-95	A46	IZT 012	NC	<1.00	1.53	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J714		13-Sep-95	A48	HWF 008	269743	<1.00	2.17	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J714		14-Jun-96	A51	AXPW 017	96U01824	<0.75	1.87	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J714	(3)	14-Jun-96	A51	AXPW 018	96U01824	<0.75	1.81	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J714		12-Sep-96	A52	AZDH 013	96U03913	<0.75	2.15	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J714	(3)	12-Sep-96	A52	AZDH 014	96U03913	<0.75	2.03	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J714		11-Jun-97	A55	BFKF 016	97U02000(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J834		27-Mar-95	F46	DSE 011	5131-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	1.30	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04J834		11-Sep-95	F48	EWD 014	NC	<2.41	1.97	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
04J834		21-Jun-96	A51	AXUT 015	96U01981	<0.75	3.15	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J834		09-Sep-96	A52	AZAD 013	96U03776(4)	<0.75	6.43	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J834		13-Dec-96	A53	BAZT 003	96U06223		2.30	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			JP 0.46			
04J834	(3)	13-Dec-96	A53	BAZT 006	96U06223		2.20	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			JP 0.47			
04J834		24-Jun-97	A55	BFYM 016	NC		3.10	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04J835		27-Mar-95	F46	DSE 012	5131-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04J835		12-Sep-95	F48	EWD 015	6502-01(4)	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
04J864		06-Dec-94	A45	ZZD 011	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J864		08-Mar-95	A46	IZL 009	56391	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J864		09-Jun-95	A47	IZY 015	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J864		03-Jun-96	A51	AXNJ 005	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J864		16-Sep-96	A52	AZET 010	96U04021	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J864		05-Dec-96	A53	BAQE 021	96U05600	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J864		03-Jun-97	A55	BFFK 011	97U01860	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J866		08-Dec-94	A45	IZE 018	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	0.58	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	(5) 9.22			
04J866	(3)	08-Dec-94	A45	IZE 019	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	(5) 1.84			
04J866		09-Mar-95	A46	IZL 014	56391	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J866		07-Jun-95	A47	IZY 012	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04J866		03-Jun-96	A51	AXNJ 008	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J866		16-Sep-96	A52	AZET 005	96U04021	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J866		04-Dec-96	A53	BAQE 015	96U05600	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J866		02-Jun-97	A55	BFFK 006	97U01860	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04J882		27-Mar-95	F46	DSE 007	5130-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04J882		11-Sep-95	F48	EWD 011	NC	<2.41	24.00	<1.01		<0.89	<1.06	<4.10	2.49	<1.52	1.59	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
04J882		24-Jun-96	A51	AXUT 010	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J882		09-Sep-96	A52	AZAD 009	96U03776	<0.75	(5) <0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J882	(3)	09-Sep-96	A52	AZAD 010	96U03776	<0.75	(5) 1.24	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04J882		12-Dec-96	A53	BAYQ 004	96U05930		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04J882		24-Jun-97	A55	BFYM 009	NC		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U001		15-Mar-95	A46	IZS 021	NC	<1.00	2.56	<1.00	<0.50		<0.30	<1.90	0.66	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U001		13-Sep-95	A48	HWF 011	269743	<1.00	3.21	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U001		06-Jun-96	A51	AXNU 020	96U01742	<0.75	2.47	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U001		11-Sep-96	A52	AZDH 011	96U03913	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U001		06-Jun-97	A55	BFFT 019	97U01916	<0.75	0.92	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U001	(3)	06-Jun-97	A55	BFFT 020	97U01916	<0.75	0.92	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U002		16-Mar-95	A46	IZT 017	NC(4)	<1.00	16.30	0.97	<0.50		<0.30	<1.90	2.63	<1.00	1.45	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U002		13-Jun-96	A51	AXPW 010	96U01824	<0.75	14.70	<1.70	<0.76			<1.01	2.25	<0.78	1.13	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U002		16-Jun-97	A55	BFLB 009	97U02755	<0.75	5.16	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U003		14-Mar-95	A46	IZP 016	59420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	C1CL3	12DCLP	TCLTFE	C112CL2	C6H6	MEC6H5	TXYLEN
04U003		14-Sep-95	A48	HWF 014	NC	<1.00	0.37	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U003		06-Jun-96	A51	AXNV 012	96U01742	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U003		12-Sep-96	A52	AZDH 019	96U03913	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U003		10-Dec-96	A53	BASG 013	96U05762	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U003		06-Jun-97	A55	BFFT 025	97U01916(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U007		08-Sep-95	F48	EWD 006	6484-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
04U007		21-Jun-96	A51	AXRK 014	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U007		20-Jun-97	A55	BFLG 015	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U020		20-Mar-95	A46	IZU 016	NC	<1.00	9.32	<1.00	<0.50		<0.30	<1.90	0.68	<1.00	1.05	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U020		05-Jun-96	A51	AXNT 007	96U01742	<0.75	7.22	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U020		16-Jun-97	A55	BFLB 006	97U02755	<0.75	17.60	<1.70	1.08			<1.01	<0.76	<0.78	2.92	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U027		15-Mar-95	A46	IZS 010	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U027	(3)	15-Mar-95	A46	IZS 011	NC	<1.00	0.46	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U027		12-Jun-96	A51	AXPW 007	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U027	(3)	12-Jun-96	A51	AXPW 008	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U027		10-Jun-97	A55	BFFW 013	97U01967(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U077		15-Mar-95	A46	IZS 005	NC	<20.00	820.00	28.00	<10.00		<6.00	<38.00	140.00	<20.00	<16.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
04U077		12-Jun-96	A51	AXPV 015	NC(4)	<0.75	450.00	13.50	3.44			<1.01	64.00	<0.78	6.88	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U077		10-Jun-97	A55	BFKF 005	97U02000	<0.75	230.00	7.64	1.40			<1.01	31.20	<0.78	3.48	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U510		20-Jun-97	A55	BFLG 022	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U673		08-Dec-94	A45	IZF 011	288420	<2.00	190.00	<2.00	5.70		<0.60	<3.80	1.60	<2.00	<1.60	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
04U673		15-Mar-95	A46	IZS 018	NC	<5.00	160.00	<5.00	6.00		<1.50	<9.50	3.40	<5.00	<3.90	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
04U673	(3)	15-Mar-95	A46	IZS 019	NC	<5.00	140.00	<5.00	6.00		<1.50	<9.50	3.20	<5.00	<3.90	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
04U673		12-Sep-95	A48	HWD 017	NC	<5.00	260.00	<5.00	6.50		<44.00	<9.50	<5.00	<5.00	<3.90	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
04U673		12-Jun-96	A51	AXPU 019	NC	<0.75	125.00	<1.70	7.81			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U673		12-Jun-97	A55	BFKW 007	97U02361	<0.75	60.40	<1.70	2.15			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U701		17-Mar-95	A46	IZU 006	63649	<1.00	35.50	1.31	<0.50		<0.30	<1.90	5.70	<1.00	0.66	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U701		13-Jun-96	A51	AXPX 007	NC	<0.75	23.70	<1.70	<0.76			<1.01	2.54	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U701		18-Jun-97	A55	BFKW 015	97U02759	<0.75	6.92	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U702		13-Mar-95	A46	IZP 009	59420	<5.00	97.00	3.80	<2.50		<1.50	<9.50	18.00	<5.00	<3.90	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
04U702		14-Jun-96	A51	AXPW 012	96U01824	<0.75	21.30	<1.70	<0.76			<1.01	2.89	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U702		06-Jun-97	A55	BFFT 006	97U01916	<0.75	13.20	<1.70	<0.76			<1.01	1.51	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U708		14-Mar-95	A46	IZR 004	59420	<1.00	6.46	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	0.41	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U708		06-Jun-96	A51	AXNU 017	96U01742	<0.75	4.18	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U708		11-Jun-97	A55	BFKF 022	97U02000	<0.75	1.21	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U709		15-Mar-95	A46	IZT 008	NC	<2.00	73.00	2.00	0.54		<0.60	<3.80	7.00	<2.00	2.10	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
04U709		13-Jun-96	A51	AXPX 009	NC	<0.75	54.90	<1.70	0.87			<1.01	4.05	<0.78	2.17	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U709		09-Jun-97	A55	BFFW 024	97U01967	<0.75	26.40	<1.70	<0.76			<1.01	1.61	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U709	(3)	09-Jun-97	A55	BFFW 025	97U01967	<0.75	27.50	<1.70	<0.76			<1.01	1.51	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U711		16-Mar-95	A46	IZT 023	NC	<1.00	3.40	<1.00	<0.50		<0.30	<1.90	0.60	<1.00	1.16	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U711		12-Sep-95	A48	HWE 014	NC	<1.00	6.89	<1.00	<0.50		<0.30	<1.90	0.70	<1.00	0.60	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U711		11-Jun-96	A51	AXPU 008	NC	<0.75	5.57	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U711	(3)	11-Jun-96	A51	AXPU 009	NC	<0.75	5.18	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U711		11-Sep-96	A52	AZDH 006	96U03913	<0.75	4.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U711		09-Dec-96	A53	BASG 008	96U05762	<0.75	4.29	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U711		13-Jun-97	A55	BFKW 011	97U02361	<0.75	2.53	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U713		14-Mar-95	A46	IZR 013	59420	<1.00	1.78	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U713		05-Jun-96	A51	AXNU 006	96U01742	<0.75	1.85	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U713		10-Jun-97	A55	BFKF 011	97U02000(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
04U714		16-Mar-95	A46	IZT 009	NC	<1.00	5.03	<1.00	<0.50		<0.30	<1.90	0.61	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U714		13-Sep-95	A48	HWF 007	269743	<1.00	6.76	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U714		14-Jun-96	A51	AXPW 016	96U01824	<0.75	4.88	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U714		12-Sep-96	A52	AZDH 012	96U03913	<0.75	4.75	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U714		10-Dec-96	A53	BASG 015	96U05762	<0.75	4.40	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U714		11-Jun-97	A55	BFKF 013	97U02000	<0.75	(5) 1.65	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U714	(3)	11-Jun-97	A55	BFKF 014	97U02000	<0.75	(5) 2.75	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U802		14-Mar-95	A46	IZR 005	59420	<1.00	0.90	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U802		05-Jun-96	A51	AXNU 010	96U01742	<0.75	1.01	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U802	(3)	05-Jun-96	A51	AXNU 011	96U01742	<0.75	0.84	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U802		16-Jun-97	A55	BFLB 014	97U02755	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U806		13-Mar-95	A46	IZO 017	59420	<10.00	450.00	29.00	(5) 11.00		<3.00	<19.00	94.00	<10.00	(5) 45.00	2.60	<13.00	<7.20	<10.00	<10.00	<32.00			
04U806	(3)	13-Mar-95	A46	IZO 018	59420	<20.00	390.00	26.00	(5) 8.10		<6.00	<38.00	84.00	<20.00	(5) 34.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
04U806		12-Sep-95	A48	HWE 012	NC	<10.00	450.00	19.00	5.10		<3.00	<19.00	66.00	<10.00	15.00	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
04U806		06-Jun-96	A51	AXNU 014	96U01742	<0.75	230.00	14.40	6.41			<1.01	37.10	<0.78	10.90	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U806		10-Sep-96	A52	AZAN 013	96U03825	<0.75	176.00	12.80	6.73			<1.01	26.10	<0.78	12.00	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U806		11-Dec-96	A53	BAUY 005	96U05899(4)	<0.75	165.00	11.20	6.45			<1.01	36.60	9.19	13.50	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U806		05-Jun-97	A55	BFFT 013	97U01916	<0.75	165.00	(5) 24.70	8.92			<1.01	108.00	8.37	41.60	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U806	(3)	05-Jun-97	A55	BFFT 014	97U01916	<0.75	176.00	(5) 31.50	9.57			<1.01	108.00	9.77	42.70	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U821		15-Mar-95	F46	DRT 011	5054-01	<2.41	20.90	4.43		<0.89	<1.06	<4.10	8.96	<1.52	4.11	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U832		07-Dec-94	A45	IZE 005	288420	<1.00	43.30	1.63	0.27		<0.30	<1.90	6.21	<1.00	1.53	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U832	(3)	07-Dec-94	A45	IZE 006	288420	<1.00	47.10	1.97	0.29		<0.30	<1.90	6.65	<1.00	1.66	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U832		10-Mar-95	A46	IZN 004	NC	<2.00	56.00	3.00	<1.00		<0.60	<3.80	10.00	<2.00	2.50	<1.00	<2.60	<1.40	<2.00	<2.00	<6.40			
04U832		03-Jun-96	A51	AXNJ 012	NC	<0.75	41.00	2.22	<0.76			<1.01	4.20	<0.78	2.07	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U832		04-Jun-97	A55	BFFK 018	97U01860	<0.75	35.20	3.26	1.61			<1.01	8.49	<0.78	2.81	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U833		17-Mar-95	A46	IZU 014	63649	<5.00	120.00	<5.00	<2.50		<1.50	<9.50	7.70	<5.00	<3.90	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
04U833		12-Sep-95	A48	HWE 011	NC	<5.00	150.00	<5.00	<2.50		<1.50	<9.50	6.70	<5.00	<3.90	<2.50	<6.50	<3.60	<5.00	<5.00	<16.00			
04U833		11-Jun-96	A51	AXPU 010	NC	<0.75	51.50	<1.70	<0.76			<1.01	1.25	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U833		11-Sep-96	A52	AZDH 007	96U03913	<0.75	67.10	<1.70	<0.76			<1.01	1.27	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U833		09-Dec-96	A53	BASG 007	96U05762	<0.75	96.70	<1.70	<0.76			<1.01	1.61	<0.78	1.02	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U833		05-Jun-97	A55	BFFT 018	97U01916	<0.75	59.30	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U834		27-Mar-95	F46	DSE 010	5131-01	<2.41	12.40	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	3.18	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U834		11-Sep-95	F48	EWD 013	NC	<2.41	8.15	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
04U834		21-Jun-96	A51	AXUT 016	96U01981	<0.75	95.20	4.51	0.99			<1.01	9.32	<0.78	3.94	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U834		09-Sep-96	A52	AZAD 011	96U03776	<0.75	120.00	6.36	1.70			<1.01	11.70	<0.78	4.26	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U834		12-Dec-96	A53	BAYQ 007	96U05930		95.00	5.70		JP 0.76	<1.00	<1.00	11.00	<1.00	4.10	<1.00	<1.00	<1.00			<1.00			
04U834		24-Jun-97	A55	BFYM 015	NC		94.00	5.00		JP 0.62	<1.00	<1.00	9.50	<1.00	3.40	<1.00	<1.00	<1.00			<1.00			
04U841		23-Mar-95	F46	DSB 006	5115-01	<2.41	8.07	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U841		18-Jun-96	A51	AXQX 012	96U01884	<0.75	12.00	2.21	<0.76			<1.01	9.39	<0.78	1.76	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U841		24-Jun-97	A55	BFYX 003	NC		18.00	4.40		JP 0.65	<1.00	<1.00	15.00	<1.00	2.60	<1.00	<1.00	<1.00			<1.00			
04U843		15-Mar-95	F46	DRT 007	5054-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U843		19-Jun-96	A51	AXQX 019	96U01884	<0.75	12.10	3.69	<0.76			<1.01	6.26	<0.78	3.12	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U843		25-Jun-97	A55	BFYX 005	NC		3.50	1.20		<1.00	<1.00	<1.00	1.70	<1.00	JP 1.00	<1.00	<1.00	<1.00			<1.00			
04U844		20-Jun-96	A51	AXUT 017	96U01981	1.01	690.00	38.20	5.14			<1.01	111.00	<0.78	21.80	<1.10	<0.99	<0.50	<1.00	2.04	<7.40			
04U844		27-Jun-97	A55	BFSN 010	97U02964		525.00	28.00		2.70	<1.00	<1.00	78.00	JP 0.85	14.00	<1.00	<1.00	JP 0.49			<1.00			
04U845		07-Dec-94	A45	IZE 004	288420	<1.00	54.00	<1.00	2.53		<0.30	<1.90	0.71	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U845		10-Mar-95	A46	IZN 006	NC	<1.00	39.50	<1.00	2.11		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U845		04-Jun-96	A51	AXNK 005	NC	<0.75	51.20	<1.70	2.89			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U845		05-Jun-97	A55	BFFQ 020	NC	<0.75	30.80	<1.70	1.29			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U846		20-Mar-95	F46	DRW 008	5087-01	<2.41	7.60	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U846		20-Jun-96	A51	AXRK 007	96U01981	<0.75	3.74	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
04U846		25-Jun-97	A55	BFYX 015	NC		75.00	3.90		JP 0.44	<1.00	<1.00	9.50	<1.00	3.40	<1.00	<1.00	<1.00			<1.00			
04U847		28-Mar-95	F46	DSF 005	5137-01	<2.41	140.00	160.00		5.68	<1.06	<4.10	170.00	<1.52	84.00	<4.63	<1.20	1.70	<3.94	<4.47	<1.41			
04U847		06-Sep-95	F48	EVG 015	NC	<2.41	68.00	100.00		5.33	<1.06	<4.10	28.10	<1.52	84.00	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
04U848		08-Dec-94	A45	IZF 007	288420	<1.00	15.60	<1.00	0.61		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U848		10-Mar-95	A46	IZN 011	NC	<1.00	9.94	<1.00	0.61		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U848		03-Jun-96	A51	AXNJ 018	NC	<0.75	6.15	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U848		05-Jun-97	A55	BFFQ 018	NC	<0.75	3.30	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U849		23-Mar-95	F46	DSB 011	5115-01	<2.41	46.60	3.04		<0.89	<1.06	<4.10	8.32	<1.52	1.64	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U850		24-Mar-95	F46	DSC 008	5121-01	<2.41	340.00	24.40		2.34	<1.06	<4.10	38.10	<1.52	15.70	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U851		06-Dec-94	A45	ZZD 014	288420	<1.00	0.83	<1.00	<0.50		<0.30	<1.90	0.64	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U851		08-Mar-95	A46	IZL 010	56391	<1.00	0.75	<1.00	<0.50		<0.30	<1.90	1.16	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U851		04-Jun-96	A51	AXNK 015	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U851		04-Jun-97	A55	BFFK 016	97U01860	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U852		28-Mar-95	F46	DSF 010	5137-01(4)	<2.41	1.29	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U852		25-Jun-96	A51	AXUV 011	96U01981	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U852		24-Jun-97	A55	BFYM 010	NC		(5) <1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U852	(3)	24-Jun-97	A55	BFYM 011	NC		(5)JP 0.48	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U854		07-Dec-94	A45	ZZD 018	288420	<1.00	32.00	<1.00	1.49		<0.30	<1.90	0.53	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U854		09-Mar-95	A46	IZM 005	56391	<1.00	25.00	<1.00	1.56		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U854		04-Jun-96	A51	AXNK 008	NC	<0.75	26.70	<1.70	2.96			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U854		05-Jun-97	A55	BFFQ 014	NC	<0.75	16.50	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U854	(3)	05-Jun-97	A55	BFFQ 015	NC	<0.75	17.60	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U855		23-Mar-95	F46	DSB 012	5115-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U855		20-Jun-96	A51	AXRK 006	96U01981	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U855		26-Jun-97	A55	BFYX 020	NC		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U859		07-Dec-94	A45	IZE 011	288420	<1.00	52.50	4.66	1.78		<0.30	<1.90	14.70	<1.00	4.79	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U859		10-Mar-95	A46	IZN 008	NC	<1.00	43.80	4.09	2.07		<0.30	<1.90	14.90	<1.00	5.38	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U859		03-Jun-96	A51	AXNJ 016	NC	<0.75	50.80	7.72	4.11			<1.01	22.30	<0.78	6.31	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U859		04-Jun-97	A55	BFFQ 006	NC	<0.75	31.90	2.47	3.33			<1.01	9.57	<0.78	2.81	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U860		08-Dec-94	A45	IZF 005	288420	<1.00	0.64	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U860		10-Mar-95	A46	IZM 011	56391	<1.00	0.59	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U860		04-Jun-96	A51	AXNJ 020	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U860		05-Jun-97	A55	BFFQ 011	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U861		06-Dec-94	A45	ZZD 016	288420	<1.00	12.00	0.60	0.43		<0.30	<1.90	1.63	<1.00	0.77	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U861		09-Mar-95	A46	IZM 004	56391	<1.00	6.42	<1.00	0.49		<0.30	<1.90	1.80	<1.00	0.71	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U861		04-Jun-96	A51	AXNK 006	NC	<0.75	6.99	<1.70	2.08			<1.01	1.25	<0.78	0.90	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U861		04-Jun-97	A55	BFFQ 008	NC	<0.75	7.91	<1.70	5.05			<1.01	2.26	<0.78	1.12	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U863		07-Dec-94	A45	IZE 007	288420	<1.00	8.05	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U863		09-Mar-95	A46	IZL 015	56391	<1.00	7.05	<1.00	0.32		<0.30	<1.90	1.41	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U863		12-Jun-95	A47	IZY 016	NC	<1.00	5.04	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U863		04-Jun-96	A51	AXNK 013	NC	<0.75	4.59	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U863		16-Sep-96	A52	AZET 009	96U04021	<0.75	1.84	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U863		04-Dec-96	A53	BAQE 017	96U05600	<0.75	4.73	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U863		03-Jun-97	A55	BFFK 008	97U01860	<0.75	1.54	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U864		06-Dec-94	A45	ZZD 010	288420	<1.00	1.20	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U864		08-Mar-95	A46	IZL 008	56391	<1.00	1.13	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U864		09-Jun-95	A47	IZY 014	NC	<1.00	0.99	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U864		03-Jun-96	A51	AXNJ 006	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U864		17-Sep-96	A52	AZET 013	96U04021	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			

APPENDIX C.2
***Groundwater* Quality Data (Organics) - ug/l (1)**

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
04U864		05-Dec-96	A53	BAQE 020	96U05600	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U864		03-Jun-97	A55	BFFK 010	97U01860	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U865		08-Dec-94	A45	IZE 016	288420	<1.00	9.83	<1.00	0.30		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U865		09-Mar-95	A46	IZL 011	56391	<1.00	8.91	<1.00	0.44		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U865		12-Jun-95	A47	IZY 017	NC	<1.00	7.82	<1.00	0.36		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U865		03-Jun-96	A51	AXNJ 011	NC	<0.75	1.77	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U865		17-Sep-96	A52	AZET 014	96U04021	<0.75	4.09	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U865		04-Dec-96	A53	BAQE 016	96U05600	<0.75	5.60	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U865		03-Jun-97	A55	BFFK 009	97U01860	<0.75	0.81	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U866		08-Dec-94	A45	IZE 017	288420	<1.00	7.74	<1.00	<0.50		<0.30	<1.90	0.54	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U866		09-Mar-95	A46	IZL 012	56391	<1.00	15.30	0.70	0.53		<0.30	<1.90	0.82	<1.00	1.15	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U866	(3)	09-Mar-95	A46	IZL 013	56391	<1.00	15.60	0.60	0.52		<0.30	<1.90	1.06	<1.00	1.12	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U866		07-Jun-95	A47	IZY 011	NC	<1.00	14.90	0.64	0.50		<0.30	<1.90	<1.00	<1.00	0.82	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
04U866		03-Jun-96	A51	AXNJ 007	NC	<0.75	1.18	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U866		16-Sep-96	A52	AZET 007	96U04021	<0.75	9.85	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U866		04-Dec-96	A53	BAQE 014	96U05600	<0.75	14.30	<1.70	0.86			<1.01	<0.76	<0.78	0.83	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U866		02-Jun-97	A55	BFFK 007	97U01860	<0.75	3.19	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U871		20-Mar-95	F46	DRW 010	5087-01(4)	<2.41	8.71	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U871	(3)	20-Mar-95	F46	DRW 011	5087-01(4)	<2.41	8.83	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U871		26-Jun-96	A51	AXUW 005	NC	<0.75	175.00	11.00	2.54			<1.01	20.20	<0.78	8.30	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U871		10-Sep-96	A52	AZAD 016	96U03776	<0.75	225.00	13.60	3.47			<1.01	21.80	<0.78	9.90	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U871		13-Dec-96	A53	BAZT 009	96U06223(4)		145.00	12.00		1.40	<1.00	<1.00	23.00	<1.00	8.90	<1.00	<1.00	<1.00			<1.00			
04U871		25-Jun-97	A55	BFYX 012	NC		150.00	6.30		1.20	<1.00	<1.00	14.00	<1.00	6.70	<1.00	<1.00	<1.00			<1.00			
04U872		24-Mar-95	F46	DSC 012	5121-01(4)	<2.41	20.90	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U872		26-Jun-96	A51	AXUW 007	NC	<0.75	116.00	6.84	1.67			<1.01	11.40	<0.78	5.57	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U872		11-Sep-96	A52	AZDV 005	96U03917	<0.75	168.00	10.70	3.11			<1.01	16.80	<0.78	8.17	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U872		13-Dec-96	A53	BAZT 007	96U06223		47.50	4.50		JP 0.63	<1.00	<1.00	6.80	<1.00	3.90	<1.00	<1.00	<1.00			<1.00			
04U872		19-Jun-97	A55	BFSN 003	97U02799		120.00	6.80		JP 0.86	<1.00	<1.00	11.00	<1.00	4.80	<1.00	<1.00	<1.00			<1.00			
04U875		24-Mar-95	F46	DSC 011	5121-01	<2.41	16.40	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U875		28-Jun-96	A51	AXVC 012	NC	<0.75	12.10	<1.70	<0.76			<1.01	1.78	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U875		09-Sep-96	A52	AZAD 005	96U03776	<0.75	14.80	<1.70	<0.76			<1.01	2.11	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U875		16-Dec-96	A53	BAZT 015	96U06223		9.50	JP 0.40		<1.00	<1.00	<1.00	1.60	<1.00	JP 0.58	<1.00	<1.00	<1.00			<1.00			
04U875		26-Jun-97	A55	BFSN 006	97U02964		12.00	JP 0.74		<1.00	<1.00	<1.00	2.00	<1.00	JP 0.61	<1.00	<1.00	<1.00			<1.00			
04U877		24-Mar-95	F46	DSC 009	5121-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U877		26-Jun-96	A51	AXUW 009	NC	<0.75	171.00	12.00	0.96			<1.01	18.90	<0.78	8.45	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U877		23-Jun-97	A55	BFRL 005	97U02926	<0.75	30.80	3.03	<0.76			<1.01	5.27	<0.78	3.15	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U879		23-Mar-95	F46	DSB 013	5115-01(4)	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U879	(3)	23-Mar-95	F46	DSB 014	5115-01(4)	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U879		25-Jun-96	A51	AXUV 009	96U01981(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U879		25-Jun-97	A55	BFYX 018	NC		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U880		25-Mar-95	F46	DSC 015	5123-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U880		27-Jun-96	A51	AXUW 012	NC(4)	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U880		11-Sep-96	A52	AZDV 007	96U03917	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U880		16-Dec-96	A53	BAZT 011	96U06223		(5)JP 0.37	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			(5)JP 0.37			
04U880	(3)	16-Dec-96	A53	BAZT 012	96U06223		(5) <1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			(5) <1.00			
04U880		26-Jun-97	A55	BFSN 007	97U02964(4)		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U881		25-Mar-95	F46	DSC 016	5123-01(4)	<2.41	2.40	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U881		28-Jun-96	A51	AXVC 010	NC	<0.75	1.15	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U881	(3)	28-Jun-96	A51	AXVC 011	NC	<0.75	1.03	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U881		11-Sep-96	A52	AZDV 006	96U03917	<0.75	0.78	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U881		16-Dec-96	A53	BAZT 013	96U06223(4)		1.60	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U881		24-Jun-97	A55	BFYM 012	NC		JP 1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
04U882		27-Mar-95	F46	DSE 009	5130-01	<2.41	20.70	1.82		<0.89	<1.06	<4.10	3.69	<1.52	3.18	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
04U882		11-Sep-95	F48	EWD 012	NC	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
04U882		24-Jun-96	A51	AXUT 009	96U02093	<0.75	25.50	<1.70	<0.76			<1.01	2.47	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
04U882		09-Sep-96	A52	AZAD 006	96U03776	9.38	32.00	<1.70	<0.76			8.26	2.91	<0.78	1.00	<1.10	<0.99	9.47	<1.00	<1.00	<7.40			
04U882		12-Dec-96	A53	BAYQ 003	96U05930		26.00	1.40		<1.00	<1.00	<1.00	3.10	<1.00	JP 0.94	<1.00	<1.00	<1.00			<1.00			
04U882		24-Jun-97	A55	BFYM 007	NC		19.00	1.10		<1.00	<1.00	<1.00	2.20	<1.00	JP 0.74	<1.00	<1.00	<1.00			<1.00			
04U883		27-Mar-95	F46	DSE 013	5131-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
110485		21-Mar-95	F46	DRX 012	5093-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
110485		24-Jun-97	A55	BFRL 009	97U02926	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
161432		24-Jun-97	A55	BFRL 006	97U02926	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
161432	(3)	24-Jun-97	A55	BFRL 007	97U02926	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
200076		21-Mar-95	F46	DRX 014	5093-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
200154		27-Jun-96	A51	AXVC 009	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
200154		27-Jun-97	A55	BFSN 014	97U02964		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
200524		10-Apr-95	S47				17.00	0.10		0.20	<0.20		1.00		0.60									
200524		28-Jun-96	A51	AXVC 020	NC	<0.75	29.50	<1.70	<0.76			<1.01	2.12	<0.78	1.02	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
200524		27-Jun-97	A55	BFSN 013	97U02964		28.00	1.20		<1.00	<1.00	<1.00	2.20	<1.00	1.30	<1.00	<1.00	<1.00			<1.00			
200803		10-Apr-95	S47				24.00	2.10		0.20	<0.20		1.00		0.80									
200803		28-Jun-96	A51	AXVC 019	NC	<0.75	23.30	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
200804		28-Jun-96	A51	AXVC 018	NC	<0.75	32.20	<1.70	<0.76			<1.01	2.35	<0.78	1.20	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
200804		27-Jun-97	A55	BFSN 012	97U02964		55.00	2.80		JP 0.42	<1.00	<1.00	4.30	<1.00	2.00	<1.00	<1.00	<1.00			<1.00			
200812		11-Sep-95	F48	EWD 008	NC	<2.41	56.30	2.14		<0.89	<1.06	<4.10	7.43	<1.52	<0.97	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
200812		27-Jun-96	A51	AXVC 007	NC	<0.75	96.90	5.07	<0.76			<1.01	10.10	<0.78	3.49	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
200812		24-Jun-97	A55	BFYM 017	NC		50.00	2.60		<1.00	<1.00	<1.00	5.40	<1.00	1.70	<1.00	<1.00	<1.00			<1.00			
206688		03-Jul-96	A52	AXWS 007	NC	<0.75	9.27	<1.70	<0.76			<1.01	1.56	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
206791		21-Mar-95	F46	DRX 013	5093-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
206792		21-Mar-95	F46	DRX 007	5093-01	<2.41	310.00	21.60		1.89	<1.06	<4.10	41.00	<1.52	11.50	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
206792		17-Dec-96	A53	BAWV 005	96U06272	<0.75	JX 275.00	22.50	1.08			<1.01	38.70	<0.78	10.30	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
206792		07-Mar-97	A54	BBXV 025	97U00565	<0.75	158.00	9.52	1.48			<1.01	21.00	<0.78	6.37	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
206792		24-Jun-97	A55	BFRL 010	97U02926	<0.75	87.90	7.64	<0.76			<1.01	10.80	<0.78	5.06	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
206792		02-Sep-97	A56	BGQT 006	97U03668	<0.75	77.90	4.90	<0.76			<1.01	9.25	<0.78	3.17	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
206793		21-Mar-95	F46	DRX 008	5093-01	<2.41	220.00	16.70		1.41	<1.06	<4.10	34.30	<1.52	8.88	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
206793		17-Dec-96	A53	BAZX 003	96U06272		90.00	9.50		JP 0.78	<1.00	<1.00	21.00	<1.00	5.60	<1.00	<1.00	<1.00			<1.00			
206793		07-Mar-97	A54	BBYW 015	97U00565		75.00	3.80		JP 0.31	<1.00	<1.00	8.30	<1.00	2.60	<1.00	<1.00	<1.00			<1.00			
206793		24-Jun-97	A55	BFYN 005	NC		33.00	2.20		<1.00	<1.00	<1.00	4.90	<1.00	1.40	<1.00	<1.00	<1.00			<1.00			
206793		02-Sep-97	A56	BGVW 008	97U03668		29.00	1.70		<1.00	<1.00	<1.00	3.80	<1.00	1.10	<1.00	<1.00	<1.00			<1.00			
206795		21-Mar-95	F46	DRX 006	5093-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
206796		21-Mar-95	F46	DRX 009	5093-01	<2.41	130.00	8.04		<0.89	<1.06	<4.10	17.90	<1.52	4.59	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
206796		28-Jun-96	A51	AXVC 014	NC	<0.75	130.00	7.25	1.09			<1.01	13.50	<0.78	4.71	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
206796		24-Jun-97	A55	BFYN 008	NC		110.00	6.60		JP 0.70	<1.00	<1.00	14.00	<1.00	4.60	<1.00	<1.00	<1.00			<1.00			
206797		21-Mar-95	F46	DRX 011	5093-01	<2.41	110.00	7.69		<0.89	<1.06	<4.10	18.40	<1.52	3.21	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
206797		28-Jun-96	A51	AXVC 015	NC	<0.75	101.00	5.36	<0.76			<1.01	12.90	<0.78	3.30	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
206797		24-Jun-97	A55	BFYN 009	NC		67.00	4.30		JP 0.44	<1.00	<1.00	11.00	<1.00	2.60	<1.00	<1.00	<1.00			<1.00			
234352		27-Jun-96	A51	AXUW 016	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	6.55	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
234352		24-Jun-97	A55	BFYN 010	NC		(5)JP 0.46	2.50		(5)JP 0.37	<1.00	<1.00	(5)JP 0.40	<1.00	7.90	<1.00	<1.00	<1.00			<1.00			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
234352	(3)	24-Jun-97	A55	BFYN 011	NC		(5) <1.00	2.20		(5) <1.00	<1.00	<1.00	(5) <1.00	<1.00	7.20	<1.00	<1.00	<1.00			<1.00			
234356		27-Jun-96	A51	AXUW 014	NC	<0.75	<0.56	<1.70	<0.76			<1.01	2.02	<0.78	0.84	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
234356	(3)	27-Jun-96	A51	AXUW 015	NC	<0.75	<0.56	<1.70	<0.76			<1.01	2.00	<0.78	0.83	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
234356		24-Jun-97	A55	BFYN 012	NC		<1.00	<1.00		<1.00	<1.00	<1.00	2.40	<1.00	1.10	<1.00	<1.00	<1.00			<1.00			
234546		21-Mar-95	F46	DRX 016	5093-01(4)	<2.41	(5) 32.70	1.42		<0.89	<1.06	<4.10	3.06	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
234546	(3)	21-Mar-95	F46	DRX 017	5093-01(4)	<2.41	(5) 8.02	1.42		<0.89	<1.06	<4.10	3.06	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
234546		27-Jun-96	A51	AXVC 006	NC	<0.75	44.60	<1.70	<0.76			<1.01	3.65	<0.78	1.58	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
234546		24-Jun-97	A55	BFYM 019	NC		55.00	2.80		JP 0.37	<1.00	<1.00	4.30	<1.00	2.00	<1.00	<1.00	<1.00			<1.00			
234547		21-Mar-95	F46	DRX 015	5093-01	<2.41	7.29	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
234547		27-Jun-96	A51	AXVC 005	NC	<0.75	1.96	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
234547		24-Jun-97	A55	BFYN 003	NC		9.50	JP 0.56		JP 0.39	<1.00	<1.00	JP 0.84	<1.00	JP 0.63	<1.00	<1.00	<1.00			<1.00			
234549		28-Jun-96	A51	AXVC 013	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
234549		27-Jun-97	A55	BFSN 011	97U02964		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
409546		17-Mar-95	F46	DRV 010		<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	3.14	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
409546		26-Jun-96	A51	AXUW 008	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	1.79	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
409546		26-Jun-97	A55	BFYY 004	NC		<1.00	JP 0.54		<1.00	<1.00	<1.00	<1.00	<1.00	2.20	<1.00	<1.00	<1.00			<1.00			
409546	(3)	26-Jun-97	A55	BFYY 005	NC		<1.00	JP 0.54		<1.00	<1.00	<1.00	<1.00	<1.00	2.30	<1.00	<1.00	<1.00			<1.00			
409547		07-Dec-94	A45	IZE 012	288420	<1.00	9.58	1.00	0.35		<0.30	<1.90	6.71	<1.00	1.43	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
409547		10-Mar-95	A46	IZM 006	56391	<1.00	7.80	1.63	0.36		<0.30	<1.90	5.71	<1.00	1.66	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
409547		04-Jun-96	A51	AXNK 009	NC	<0.75	13.60	2.00	<0.76			<1.01	7.71	<0.78	2.49	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
409547		05-Jun-97	A55	BFFQ 017	NC	<0.75	8.35	<1.70	1.51			<1.01	9.57	<0.78	3.37	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
409548		09-Dec-94	A45	IZF 012	288420	<1.00	22.70	<1.00	<0.50		<0.30	<1.90	0.63	<1.00	1.52	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
409548		10-Mar-95	A46	IZM 015	NC	<1.00	2.03	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	1.71	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
409548		04-Jun-96	A51	AXNK 017	NC	<0.75	2.84	<1.70	<0.76			<1.01	<0.76	<0.78	2.15	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
409548		04-Jun-97	A55	BFKS 006	NC		JP 2.70	JP 0.87		<5.00	<5.00	<10.00	<5.00	<5.00	JP 1.70	<5.00	<5.00	<5.00			<5.00			
409549		28-Mar-95	F46	DSF 009	5137-01	<2.41	46.00	3.07		<0.89	<1.06	<4.10	7.76	<1.52	3.39	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
409549		24-Jun-96	A51	AXUT 007	96U02093	<0.75	48.10	2.80	<0.76			<1.01	9.41	<0.78	2.44	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
409549	(3)	24-Jun-96	A51	AXUT 008	96U02093	<0.75	45.70	2.54	<0.76			<1.01	8.54	<0.78	2.25	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
409549		23-Jun-97	A55	BFYM 006	NC		23.00	1.80		<1.00	<1.00	<1.00	1.90	<1.00	2.90	<1.00	<1.00	<1.00			<1.00			
409550		05-Apr-95	A47	IZW 006	NC	<50.00	1700.00	140.00	<25.00		<15.00	<95.00	510.00	<50.00	30.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			
409550		13-Sep-95	A48	HWE 016	269743	<50.00	2000.00	65.00	<25.00		<15.00	<95.00	480.00	<50.00	<39.00	<25.00	<65.00	<36.00	<50.00	<50.00	<160.00			
409550		13-Jun-96	A51	AXPX 017	NC	15.80	1600.00	65.50	10.50			<1.01	201.00	7.98	47.40	<1.10	<0.99	1.12	<1.00	6.59	<7.40			
409550		10-Sep-96	A52	AZAN 017	96U03825(4)	18.90	1100.00	66.10	11.80			<1.01	213.00	<0.78	37.60	<1.10	<0.99	<0.50	<1.00	4.92	<7.40			
409550		24-Jun-97	A55	BFYY 011	NC		650.00	33.00		4.40	<1.00	<1.00	115.00	<1.00	21.00	<1.00	JP 0.51	JP 0.51			<1.00			
409555		25-Mar-95	F46	DSC 013	5123-01	<2.41	2.66	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
409555	(3)	25-Mar-95	F46	DSC 014	5123-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
409555		25-Jun-96	A51	AXUV 008	96U01981	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
409555		26-Jun-97	A55	BFYX 019	NC		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
409556		17-Mar-95	F46	DRV 009		<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
409556		24-Jun-96	A51	AXUT 006	96U02093	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
409556		23-Jun-97	A55	BFYM 003	NC		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
409557		07-Dec-94	A45	IZE 008	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	1.24	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
409557		10-Mar-95	A46	IZM 008	56391	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	0.81	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
409557		04-Jun-96	A51	AXNK 010	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
409557		05-Jun-97	A55	BFKS 008	NC		<5.00	<5.00		<5.00	<5.00	<10.00	JP 0.41	<5.00	JP 0.48	<5.00	<5.00	<5.00			<5.00			
409596		20-Mar-95	F46	DRW 005	5087-01	<2.41	7.26	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	1.66	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
409597		20-Mar-95	F46	DRW 006	5087-01	<2.41	150.00	15.10		1.62	<1.06	<4.10	26.40	<1.52	12.20	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
476837		08-Dec-94	A45	IZE 013	288420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
476837		10-Mar-95	A46	IZN 007	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
476837		09-Jun-95	A47	IZY 013	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
476837		04-Jun-96	A51	AXNK 014	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
476837		17-Sep-96	A52	AZET 015	96U04021	0.86	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
476837		04-Dec-96	A53	BAQE 011	96U05600	1.54	<0.56	<1.70	0.95			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
476837		04-Jun-97	A55	BFFK 012	97U01860	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
482083		07-Mar-95	A46	IZK 010	56391	<1.00	9.56	<1.00	1.25		<0.30	<1.90	<1.00	<1.00	4.39	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
482083		04-Jun-96	A51	AXNL 015	96U01587	<0.75	7.01	<1.70	<0.76			<1.01	<0.76	<0.78	(5) 0.94	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
482083	(3)	04-Jun-96	A51	AXNL 017	96U01587	<0.75	6.82	<1.70	<0.76			<1.01	<0.76	<0.78	(5) 1.25	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
482083		03-Jun-97	A55	BFJV 009	97U01819	<1.00	5.50	<1.00		JP 0.37	<1.00	<1.00	<1.00	<1.00	<1.00	JP 0.89	<1.00	<1.00	<1.00	<1.00	<1.00			
500691		06-Dec-94	A45	ZZD 017	288420	<1.00	0.78	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
500691		09-Mar-95	A46	IZL 017	56391	<1.00	1.35	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
500691		12-Jun-95	A47	IZY 019	NC	<1.00	0.64	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50		<0.72	<1.00	<1.00	<3.20			
500691		03-Jun-96	A51	AXNJ 009	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
500691	(3)	03-Jun-96	A51	AXNJ 010	NC	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
500691		16-Sep-96	A52	AZET 008	96U04021	<0.75	0.69	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
500691		05-Dec-96	A53	BAQE 019	96U05600	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
500691		03-Jun-97	A55	BFFK 019	97U01860	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
509083		21-Mar-95	F46	DRX 005	5093-01	<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
509083		24-Jun-97	A55	BFRL 008	97U02926	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
512761		11-Sep-95	F48	EWD 010	NC	<2.41	74.00	3.96		<0.89	<1.06	<4.10	11.10	<1.52	1.92	<3.94	<1.20	<1.08	<3.94	<4.47	<1.41			
512761		27-Jun-96	A51	AXVC 008	NC	<0.75	134.00	7.11	1.12			<1.01	12.70	<0.78	4.99	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
512761		24-Jun-97	A55	BFYM 018	NC		70.00	3.60		JP 0.42	<1.00	<1.00	7.70	<1.00	2.20	<1.00	<1.00	<1.00			<1.00			
519288		14-Mar-95	F46	DRQ 009		<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
519288		21-Jun-96	A51	AXRK 017	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
519288		20-Jun-97	A55	BFLG 023	97U02820	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
519289		14-Mar-95	F46	DRQ 010		<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
519289		21-Jun-96	A51	AXRK 016	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
519290		14-Mar-95	F46	DRQ 011		<2.41	<1.04	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
519290		21-Jun-96	A51	AXRK 018	96U01936	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
519290		23-Jun-97	A55	BFRK 014	97U02831	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
519291		17-Mar-95	F46	DRV 006		<2.41	14.30	<1.01		1.77	<1.06	<4.10	4.40	<1.52	1.17	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
519291		24-Jun-96	A51	AXUU 008	96U02093	<0.75	56.50	<1.70	2.78			<1.01	21.30	<0.78	<0.73	<1.10	<0.99	0.80	<1.00	<1.00	<7.40			
520931		04-Oct-94	A45	ZVY 007	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		01-Nov-94	A45	ZZA 006	NC	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931	(3)	01-Nov-94	A45	ZZA 007	NC	<1.00	15.20	<1.00	0.89		<0.30	<1.90	0.68	<1.00	0.41	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		06-Dec-94	A45	ZZD 007	288420	<1.00	12.30	<1.00	0.32		<0.30	<1.90	0.65	<1.00	0.42	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931	(3)	06-Dec-94	A45	ZZD 008	288420	<1.00	13.80	<1.00	<0.50		<0.30	<1.90	0.56	<1.00	0.46	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		03-Jan-95	A46	YZG 004	418	<1.00	13.40	<1.00	0.37		<0.30	<1.90	0.92	1.03	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931	(3)	03-Jan-95	A46	YZG 005	418	<1.00	13.40	<1.00	0.33		<0.30	<1.90	1.10	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		10-Feb-95	A46	IZJ 009	NC	<1.00	9.13	<1.00	0.30		<0.30	<1.90	0.65	<1.00	<0.78	1.01	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		07-Mar-95	A46	IZL 004	56391	<1.00	11.70	<1.00	0.39		<0.30	<1.90	0.79	<1.00	0.47	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931	(3)	07-Mar-95	A46	IZL 005	56391	<1.00	11.80	<1.00	0.39		<0.30	<1.90	0.64	<1.00	0.44	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		04-Apr-95	A47	IZW 004	NC	<1.00	11.20	<1.00	0.40		<0.30	<1.90	0.76	<1.00	0.60	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		02-May-95	A47	IZX 007	119970	<1.00	10.70	<1.00	0.42		<0.30	<1.90	0.61	<1.00	0.55	<0.50	<1.30	<0.72	<1.00	<1.00	1.83			
520931	(3)	02-May-95	A47	IZX 008	119970	<1.00	10.90	<1.00	0.45		<0.30	<1.90	0.57	<1.00	0.55	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		06-Jun-95	A47	IZY 010	NC	<1.00	11.90	<1.00	0.40		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931	(3)	06-Jun-95	A47	IZY 009	NC	<1.00	12.40	<1.00	0.40		<0.30	<1.90	<1.00	<1.00	0.43	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		06-Jul-95	A48	IZZ 004	194379	<1.00	13.10	<1.00	0.40		<0.30	<1.90	<1.00	<1.00	0.50	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		01-Aug-95	A48	HWB 006	224944	<1.00	16.50	0.61	0.46		<0.30	<1.90	0.62	<1.00	0.69	0.59	<1.30	<0.72	<1.00	<1.00	<3.20			
520931		05-Sep-95	A48	HWC 008	258830	<1.00	17.90	0.68	0.35		<0.30	<1.90	1.25	<1.00	0.59	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
520931	(3)	05-Sep-95	A48	HWC 009	258830	<1.00	18.00	0.58	0.35		<0.30	<1.90	1.23	<1.00	0.64	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well		Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
520931		01-Oct-96	A53	AZNF 005	NC	V <0.75	V 7.23	V <1.70	V <0.76			V <1.01	V <0.76	V <0.78	V <0.73	V <1.10	V <0.99	V <0.50	VT <1.00	VT <1.00	V <7.40			
520931		11-Nov-96	A53	BAHN 005	96U05145	<0.75	7.69	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931	(3)	11-Nov-96	A53	BAHN 006	96U05145	<0.75	6.81	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931		03-Dec-96	A53	BAQE 010	96U05600	<0.75	7.14	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931		07-Jan-97	A54	BBCH 006	97U00069	<0.75	6.04	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931		04-Feb-97	A54	BBNC 006	NC	<0.75	4.07	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931	(3)	04-Feb-97	A54	BBNC 007	NC	<0.75	4.29	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931		03-Mar-97	A54	BBSF 005	NC	<0.75	3.15	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931	(3)	03-Mar-97	A54	BBSF 006	NC	<0.75	3.01	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931		01-Apr-97	A55	BCPN 005	97U00958	<0.75	3.62	<1.70	<0.76			(P) <1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931		06-May-97	A55	BDKM 005	NC	V <0.75	V 2.96	V <1.70	V <0.76			V <1.01	V <0.76	V <0.78	V <0.73	V <1.10	V <0.99	V <0.50	TV <1.00	TV <1.00	V <7.40			
520931		04-Jun-97	A55	BFFK 014	97U01860	<0.75	2.09	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931	(3)	04-Jun-97	A55	BFFK 015	97U01860	<0.75	2.09	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931		01-Jul-97	A56	BFXL 005	NC	<0.75	1.87	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931		02-Sep-97	A56	BGQT 010	97U03668	<0.75	1.08	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
554216		31-Dec-96	A53	BBDX 003	97U00002		V 275.00	V 16.00		V 1.80	V <1.00	V <1.00	V 29.00	JPV 0.47	V 13.00	JPV 0.50	V <1.00	JPV 0.41			V <1.00			
554216		17-Mar-97	A54	BCRQ 003	NC		220.00	14.00		B 1.60	<1.00	<1.00	29.00	<1.00	10.00	JP 0.38	<1.00	<1.00			<1.00			
554216		24-Jun-97	A55	BFYN 004	NC		198.00	13.00		1.40	<1.00	<1.00	26.00	<1.00	9.70	<1.00	<1.00	<1.00			<1.00			
554216		12-Sep-97	A56	BGZT 003	97U03731		120.00	12.00		1.40	<1.00	<1.00	23.00	<1.00	8.70	<1.00	<1.00	<1.00			<1.00			
PJ#003		14-Mar-95	A46	IZP 017	59420	<1.00	<0.50	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#003		06-Jun-96	A51	AXNV 010	96U01742	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#003		11-Jun-97	A55	BFKF 024	97U02000	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#309		14-Mar-95	A46	IZQ 007	59420	<1.00	49.00	2.09	0.70		<0.30	<1.90	7.17	<1.00	2.93	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#309		11-Sep-95	A48	HWF 006	267619	<1.00	56.00	1.90	0.66		<0.30	<1.90	6.44	<1.00	2.47	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#309		06-Jun-96	A51	AXPR 017	96U01725	<0.75	43.40	<1.70	<0.76			<1.01	4.56	<0.78	1.96	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#309		10-Sep-96	A52	AZAM 014	96U03825	<0.75	49.80	1.94	1.13			<1.01	4.45	<0.78	2.42	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#309	(3)	10-Sep-96	A52	AZAM 015	96U03825	<0.75	49.60	<1.70	0.90			<1.01	4.22	<0.78	2.28	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#309		11-Dec-96	A53	BAUY 018	96U05899	<0.75	42.90	<1.70	<0.76			<1.01	3.76	<0.78	1.24	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#309		09-Jun-97	A55	BFFV 017	97U01967	<0.75	27.50	<1.70	<0.76			<1.01	3.12	<0.78	1.06	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#310		14-Mar-95	A46	IZQ 009	59420	<10.00	330.00	18.00	3.60		<3.00	<19.00	77.00	<10.00	15.00	<5.00	<13.00	<7.20	<10.00	<10.00	<32.00			
PJ#310		11-Sep-95	A48	HWD 007	267619	<20.00	340.00	16.00	<10.00		<180.00	<38.00	78.00	<20.00	<16.00	<10.00	<26.00	<14.00	<20.00	<20.00	<64.00			
PJ#310		06-Jun-96	A51	AXPR 018	96U01725	<0.75	290.00	11.00	3.51			<1.01	41.00	<0.78	9.27	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#310		10-Sep-96	A52	AZAM 019	96U03825	<0.75	290.00	17.20	4.73			<1.01	44.50	<0.78	10.70	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#310		11-Dec-96	A53	BAUY 020	96U05899	<0.75	240.00	11.20	5.59			<1.01	44.10	4.65	10.40	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#310		09-Jun-97	A55	BFFV 018	97U01967	<0.75	190.00	13.50	6.77			<1.01	24.70	<0.78	21.30	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#311		14-Mar-95	A46	IZQ 014	59420	<1.00	13.70	<1.00	<0.50		<0.30	<1.90	2.29	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#311		11-Sep-95	A48	HWC 017	267619	<1.00	14.70	<1.00	<0.50		<0.30	<1.90	2.99	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#311		06-Jun-96	A51	AXPR 019	96U01725	<0.75	10.90	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#311		10-Sep-96	A52	AZAN 007	96U03825	<0.75	14.60	<1.70	<0.76			<1.01	1.41	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#311		11-Dec-96	A53	BAUY 022	96U05899	<0.75	14.30	<1.70	<0.76			<1.01	0.98	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#311	(3)	11-Dec-96	A53	BAUY 023	96U05899	<0.75	14.30	<1.70	<0.76			<1.01	0.96	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#311		09-Jun-97	A55	BFFV 019	97U01967	<0.75	7.80	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#313		14-Mar-95	A46	IZQ 016	59420	<1.00	2.51	<1.00	<0.50		<0.30	<1.90	0.53	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#313		11-Sep-95	A48	HWC 014	267619	<1.00	2.61	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#313	(3)	11-Sep-95	A48	HWC 015	267619	<1.00	2.61	<1.00	<0.50		<0.30	<1.90	<1.00	<1.00	<0.78	<0.50	<1.30	<0.72	<1.00	<1.00	<3.20			
PJ#313		06-Jun-96	A51	AXNW 005	96U01742	<0.75	R 2.70	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#313		10-Sep-96	A52	AZAN 009	96U03825	<0.75	2.25	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#313		11-Dec-96	A53	BAUY 027	96U05899	<0.75	0.87	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#313		09-Jun-97	A55	BFFV 023	97U01967	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#318		27-Mar-95	F46	DSE 014	5131-01(4)	<2.41	4.48	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
PJ#318	(3)	27-Mar-95	F46	DSE 015	5131-01(4)	<2.41	4.60	<1.01		<0.89	<1.06	<4.10	<1.16	<1.52	<0.97	<4.63	<1.20	<1.08	<3.94	<4.47	<1.41			
PJ#318		01-Jul-96	A52	AXWS 005	96U02275	<0.75	10.40	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#318		10-Sep-96	A52	AZAD 015	96U03776	<0.75	23.20	<1.70	<0.76			<1.01	1.35	<0.78	1.13	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#318		17-Dec-96	A53	BAZX 006	96U06272		16.00	JP 0.93		<1.00	<1.00	<1.00	1.20	<1.00	JP 0.91	<1.00	<1.00	<1.00			<1.00			
PJ#318		26-Jun-97	A55	BFYX 021	NC		12.00	JP 0.75		<1.00	<1.00	<1.00	JP 0.88	<1.00	JP 0.84	<1.00	<1.00	<1.00			<1.00			

APPENDIX C.2
Groundwater Quality Data (Organics) - ug/l (1)

Well	Date	Qtr (2)	IRDMIS Lot #	Trip Blank Lab #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
PJ#806	13-Mar-95	A46	IZO 016	59420	<25.00	910.00	68.00	19.00		<7.50	<48.00	240.00	<25.00	90.00	8.20	<33.00	<18.00	<25.00	<25.00	<80.00			
PJ#806	06-Jun-96	A51	AXNU 015	96U01742	<0.75	580.00	32.50	7.85			<1.01	70.60	<0.78	31.10	<1.10	<0.99	<0.50	<1.00	<1.00	<7.40			
PJ#806	05-Jun-97	A55	BFFT 015	97U01916	<0.75	310.00	27.00	8.49			<1.01	61.30	<0.78	31.50	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			

C.3 Groundwater Quality Data (Inorganics)

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. Data is presented for the past three fiscal years, with the fiscal year being October 1 through September 30.

(3) Duplicate sample collected for QA/QC purposes.

(4) Field blank collected at this location. See Appendix E.2 for FY 1997 field blank data.

(5) These entries are the lot and sample numbers for the corresponding data points.

NC Trip blank not collected.

Flagging Codes

Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.

Data Qualifiers

Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

APPENDIX C.3
Groundwater Quality Data (Inorganics) - (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)	Zinc ZN (ug/l)
01U045	08-Mar-95	F46																		26.10	
01U045 (5)	08-Mar-95																			DSD 004	
01U045	19-Jun-96	A51															<5.00	44.70	<50.00	2000.00	
01U045 (5)	19-Jun-96																AXSG 005	AXXB 005	AXUA 002	AXSA 006	
01U351	10-Oct-94	F45	<12.50	<62.90	63.50	<2.50	<5.00	<15.00	<20.00	325.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					87.50
01U351 (5)	10-Oct-94		IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IQU 004	IJX 004					IQU 004
01U351	08-Nov-94	F45	<12.50	<62.90	63.50	<2.50	<5.00	<15.00	<20.00	340.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 75.30
01U351 (5)	08-Nov-94		IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IQV 005	IJY 005					IQV 005
01U351	05-Dec-94	F45	<62.90	<2.50	56.90	<5.00	<15.00	<120.00	<1250.00	273.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					74.10
01U351 (5)	05-Dec-94		IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IQW 005	IJZ 005					IQW 005
01U351	17-Jan-95	F46	<12.50	<62.90	53.40	<2.50	<5.00	<15.00	<20.00	218.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 48.80
01U351 (5)	17-Jan-95		IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	IQX 005	JDA 004					IQX 005
01U351	08-Feb-95	F46	<1.93				<0.10	<2.18	15.20		<5.94	<2.65				<0.70					<29.40
01U351 (5)	08-Feb-95		DPY 013				DPS 014	DPT 014	DPU 016		DPW 014	DPV 007				DQC 008					DQA 014
01U351	03-Mar-95	F46								347.00					<2.70	<0.70					48.10
01U351 (5)	03-Mar-95									DRC 004					DRA 004	DRD 006					DRB 004
01U351	03-Apr-95	F47	<1.93	<4.81	100.00	<1.47	<0.10	<2.18	8.57	380.00	17.50	<2.65	<10.00	<3.06	<2.70	<0.70					51.10
01U351 (5)	03-Apr-95		DSR 004	DSI 004	DSJ 004	DSK 004	DSL 004	DSM 004	DSN 004	DSU 004	DSP 004	DSO 004	DSH 004	DSQ 004	DSS 004	DSV 006					DST 004
01U351	08-May-95	F47	<1.93	<4.81	85.40	<1.47	0.10	5.23	7.63	385.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					43.10
01U351 (5)	08-May-95		DYK 004	DYB 004	DYC 004	DYD 004	DYE 004	DYF 022	DYG 020	DYN 004	DYI 020	DYH 020	DYA 013	DYJ 004	DYL 004	DYO 006					DYM 020
01U351	01-Jun-95	F47	<1.93	<4.81	71.50	<1.47	<0.10	<2.18	4.48	425.00	8.79	3.57	<10.00	<3.06	<2.70	<0.70					65.10
01U351 (5)	01-Jun-95		ECV 014	ECM 004	ECN 014	ECO 004	ECP 004	ECQ 009	ECR 004	ECY 004	ECT 004	ECS 004	ECL 009	ECU 014	ECW 014	ECZ 011					ECX 004
01U351	11-Jul-95	F48	<1.93	<4.81	111.00	<1.47	0.26	<2.18	4.80	445.00	<5.94	5.06	<10.00	<3.06	<2.70	<0.70					160.00
01U351 (5)	11-Jul-95		EMW 004	EMN 004	EMO 004	EMP 004	EMQ 021	EMR 021	EMS 004	EMZ 004	EMU 021	EMT 004	EMM 021	EMV 004	EMX 004	ENA 011					EMY 004
01U351	08-Aug-95	F48	<1.93	<4.81	85.30	<1.47	0.71	<2.18	2.94	460.00	8.69	6.33	<10.00	<3.06	<2.70	L <0.70					143.00
01U351 (5)	08-Aug-95		ERY 004	ERP 004	ERQ 013	ERR 018	ERS 022	ERT 022	ERU 022	ESB 004	ERW 022	ERV 052	ERO 022	ERX 004	ERZ 004	ESC 022					ESA 018
01U351	07-Sep-95	F48	<1.93	<4.81	82.40	<15.00	0.50	<2.18	6.73	419.00	R <5.94	R 6.43	<10.00	R <3.06	<2.70	<0.70					R 156.00
01U351 (5)	07-Sep-95		EVR 045	EVI 017	EVJ 041	EVK 114	EVL 017	EVM 006	EVN 140	EVU 004	EVP 055	EVO 041	EVH 012	EVQ 004	EVS 004	EVV 006					EVT 027
01U351	15-Dec-95	A49	<12.50	<62.90	72.60	<2.50	<5.00	<15.00	<20.00	397.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					815.00
01U351 (5)	15-Dec-95		IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	IRM 005	JDQ 007					IRM 005
01U351	11-Mar-96	A50	<12.50	<62.90	70.60	<2.50	<5.00	<15.00	<20.00	462.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					468.00
01U351 (5)	11-Mar-96		IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	IRP 005	JDW 004					IRP 005
01U351	19-Jun-96	A51	<10.00	<2.35	73.70	<1.12	<6.78	<16.80	20.60	534.00	<32.10	19.50	<10.00	<2.53	<10.00	<0.10					572.00
01U351 (5)	19-Jun-96		AXQC 005	AXQD 005	AXQC 005	AXQC 005	AXQC 005	AXQC 005	AXQC 005	AXQC 005	AXQC 005	AXQE 005	AXQH 003	AXQF 005	AXQG 003	AXRX 005					AXQC 005
01U351	12-Sep-96	A52	<10.00	2.70	107.00	<1.12	<6.78	<16.80	112.00	606.00	<32.10	33.60	<6.00	<2.53	<5.00	<0.10					90.10.00
01U351 (5)	12-Sep-96		AYZZ 016	AZAA 016	AYZZ 016	AYZZ 016	AYZZ 016	AYZZ 016	AYZZ 016	AYZZ 016	AYZZ 016	AZAB 016	AZAF 027	AZAC 016	AZAE 027	AZBJ 005					AYZZ 016
01U351	11-Dec-96		<10.00	<2.35	84.10	<1.12	<6.78	<16.80	36.20	541.00	<32.10	27.40	<6.00	3.69	JI <5.00	<0.10					1060.00
01U351 (5)	11-Dec-96	A53	BAXO 005	BAXQ 005	BAXO 005	BAXO 005	BAXO 005	BAXO 005	BAXO 005	BAXO 005	BAXO 005	BAXR 005	BAWH 003	BAXS 005	BAWI 003	BAYF 005					BAXO 005
01U351	18-Jun-97		<10.00	<2.35	79.20	<1.12	<6.78	<16.80	<18.80	586.00	<32.10	11.30	<6.00	<2.53	<5.00	<0.10					I 337.00
01U351 (5)	18-Jun-97	A55	BFQG 005	BFQJ 005	BFQG 005	BFQG 005	BFQG 005	BFQG 005	BFQG 005	BFQG 005	BFQG 005	BFQL 005	BFQH 003	BFQM 005	BFQN 003	BFPH 005					BFQG 005
01U352	10-Oct-94	F45	<12.50	<62.90	80.60	<2.50	<5.00	<15.00	<20.00	241.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					84.40
01U352 (5)	10-Oct-94		IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IQU 005	IJX 005					IQU 005
01U352	08-Nov-94	F45	<12.50	<62.90	114.00	<2.50	<5.00	<15.00	<20.00	450.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 62.10

APPENDIX C.3
Groundwater Quality Data (Inorganics) - (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)	Zinc ZN (ug/l)
01U352 (5)	08-Nov-94		IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IQV 006	IJY 006					IQV 006
01U352	05-Dec-94	F45	<62.90	<2.50	114.00	<5.00	<15.00	<120.00	<1250.00	440.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					51.10
01U352 (5)	05-Dec-94		IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IQW 008	IJZ 006					IQW 008
01U352	17-Jan-95	F46	<12.50	<62.90	87.70	<2.50	<5.00	<15.00	<20.00	57.20	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 138.00
01U352 (5)	17-Jan-95		IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	IQX 008	JDA 005					IQX 008
01U352	03-Mar-95	F46								482.00					<2.70	<0.70					58.10
01U352 (5)	03-Mar-95									DRC 005					DRA 005	DRD 007					DRB 005
01U352	01-Jun-95	F47	<1.93	<4.81	148.00	<1.47	<0.10	3.59	4.56	411.00	24.10	<2.65	<10.00	<3.06	<2.70	<0.70					53.10
01U352 (5)	01-Jun-95		ECV 015	ECM 005	ECN 015	ECO 005	ECP 005	ECQ 010	ECR 005	ECY 005	ECT 005	ECS 005	ECL 010	ECU 015	ECW 015	ECZ 012					ECX 005
01U352	11-Jul-95	F48	<1.93	<4.81	68.10	<1.47	0.34	<2.18	17.00	117.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					135.00
01U352 (5)	11-Jul-95		EMW 005	EMN 005	EMO 005	EMP 005	EMQ 022	EMR 022	EMS 005	EMZ 005	EMU 022	EMT 005	EMM 022	EMV 005	EMX 005	ENA 012					EMY 005
01U352	08-Aug-95	F48	<1.93	<4.81	125.00	<1.47	0.68	<2.18	18.30	152.00	6.74	<2.65	<10.00	<3.06	<2.70	L <0.70					230.00
01U352 (5)	08-Aug-95		ERY 005	ERP 005	ERQ 015	ERR 019	ERS 023	ERT 023	ERU 023	ESB 005	ERW 023	ERV 054	ERO 023	ERX 005	ERZ 005	ESC 023					ESA 019
01U352	07-Sep-95	F48	<1.93	<4.81	78.40	<15.00	0.22	<2.18	32.00	37.50	R 9.01	R <2.65	<10.00	R <3.06	<2.70	<0.70					R 153.00
01U352 (5)	07-Sep-95		EVR 047	EVI 020	EVJ 043	EVK 116	EVL 019	EVM 007	EVN 143	EVU 005	EVP 058	EVO 043	EVH 014	EVQ 005	EVS 005	EVV 007					EVT 029
01U352	15-Dec-95	A49	<12.50	<62.90	137.00	<2.50	<5.00	23.40	298.00	94.40	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					7090.00
01U352 (5)	15-Dec-95		IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	IRM 006	JDQ 008					IRM 006
01U352	11-Mar-96	A50	<12.50	<62.90	333.00	<2.50	<5.00	<15.00	47.20	482.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					1120.00
01U352 (5)	11-Mar-96		IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	IRP 006	JDW 007					IRP 006
01U352 (3)	11-Mar-96	A50	<12.50	<62.90	313.00	<2.50	<5.00	<15.00	22.10	472.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					519.00
01U352 (5)	11-Mar-96		IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	IRP 009	JDW 008					IRP 009
01U352	19-Jun-96	A51	<10.00	<2.35	150.00	<1.12	<6.78	<16.80	<18.80	478.00	<32.10	<4.47	<10.00	3.31	<10.00	<0.10					312.00
01U352 (5)	19-Jun-96		AXQC 006	AXQD 006	AXQC 006	AXQC 006	AXQC 006	AXQC 006	AXQC 006	AXQC 006	AXQC 006	AXQE 006	AXQH 004	AXQF 006	AXQG 006	AXRX 006					AXQC 006
01U352	12-Sep-96	A52	<10.00	<2.35	164.00	<1.12	<6.78	<16.80	<18.80	566.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					183.00
01U352 (5)	12-Sep-96		AYZZ 017	AZAA 017	AYZZ 017	AYZZ 017	AYZZ 017	AYZZ 017	AYZZ 017	AYZZ 017	AYZZ 017	AZAB 017	AZAF 028	AZAC 017	AZAE 028	AZBJ 006					AYZZ 017
01U352	11-Dec-96		<10.00	<2.35	156.00	<1.12	<6.78	<16.80	<18.80	615.00	<32.10	<4.47	<6.00	2.71	<5.00	<0.10					102.00
01U352 (5)	11-Dec-96	A53	BAXO 006	BAXQ 006	BAXO 006	BAXO 006	BAXO 006	BAXO 006	BAXO 006	BAXO 006	BAXO 006	BAXR 006	BAWH 006	BAXS 006	BAWI 006	BAYF 006					BAXO 006
01U352	18-Jun-97		<10.00	3.23	228.00	<1.12	<6.78	<16.80	<18.80	555.00	<32.10	16.20	<6.00	3.06	<5.00	<0.10					I 1390.00
01U352 (5)	18-Jun-97	A55	BFQG 006	BFQJ 006	BFQG 006	BFQG 006	BFQG 006	BFQG 006	BFQG 006	BFQG 006	BFQG 006	BFQL 006	BFQH 006	BFQM 006	BFQN 006	BFPH 006					BFQG 006
01U353	10-Oct-94	F45	<12.50	<62.90	107.00	<2.50	<5.00	<15.00	<20.00	637.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					108.00
01U353 (5)	10-Oct-94		IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IQU 006	IJX 006					IQU 006
01U353 (3)	10-Oct-94	F45	<12.50	<62.90	106.00	<2.50	<5.00	<15.00	<20.00	657.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					105.00
01U353 (5)	10-Oct-94		IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IQU 009	IJX 007					IQU 009
01U353	08-Nov-94	F45	<12.50	<62.90	114.00	<2.50	<5.00	<15.00	<20.00	651.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 77.30
01U353 (5)	08-Nov-94		IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IQV 007	IJY 007					IQV 007
01U353	05-Dec-94	F45	<62.90	<2.50	98.00	<5.00	<15.00	<120.00	<1250.00	614.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					74.10
01U353 (5)	05-Dec-94		IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IQW 009	IJZ 007					IQW 009
01U353	17-Jan-95	F46	<12.50	<62.90	113.00	<2.50	<5.00	<15.00	<20.00	689.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 80.40
01U353 (5)	17-Jan-95		IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	IQX 009	JDA 006					IQX 009
01U353	08-Feb-95	F46	<1.93				<0.10	<2.18	28.00		<5.94	2.73				<0.70					113.00
01U353 (5)	08-Feb-95		DPY 014				DPS 015	DPT 015	DPU 017		DPW 015	DPV 008				DQC 009					DQA 015
01U353	03-Mar-95	F46								755.00					<2.70	<0.70					<29.40
01U353 (5)	03-Mar-95									DRC 006					DRA 006	DRD 008					DRB 006
01U353	03-Apr-95	F47	<1.93	<4.81	169.00	<1.47	<0.10	<2.18	4.60	691.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					41.10

APPENDIX C.3
Groundwater Quality Data (Inorganics) - (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)	Zinc ZN (ug/l)
01U353 (5)	03-Apr-95		DSR 005	DSI 005	DSJ 005	DSK 005	DSL 005	DSM 005	DSN 005	DSU 005	DSP 005	DSO 005	DSH 005	DSQ 005	DSS 005	DSV 007					DST 005
01U353	08-May-95	F47	<1.93	<4.81	128.00	<1.47	<0.10	2.80	10.60	583.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					38.10
01U353 (5)	08-May-95		DYK 005	DYB 005	DYC 005	DYD 005	DYE 005	DYF 023	DYG 021	DYN 005	DYI 021	DYH 021	DYA 014	DYJ 005	DYL 005	DYO 007					DYM 021
01U353	01-Jun-95	F47	<1.93	<4.81	122.00	<1.47	<0.10	<2.18	5.49	569.00	19.50	3.23	<10.00	<3.06	<2.70	<0.70					107.00
01U353 (5)	01-Jun-95		ECV 016	ECM 006	ECN 016	ECO 006	ECP 006	ECQ 011	ECR 006	ECY 006	ECT 006	ECS 006	ECL 011	ECU 016	ECW 016	ECZ 015					ECX 006
01U353	11-Jul-95	F48	<1.93	<4.81	153.00	<1.47	0.25	<2.18	10.30	608.00	9.83	5.39	<10.00	<3.06	<2.70	<0.70					116.00
01U353 (5)	11-Jul-95		EMW 006	EMN 006	EMO 006	EMP 006	EMQ 023	EMR 023	EMS 006	EMZ 006	EMU 023	EMT 006	EMM 023	EMV 006	EMX 006	ENA 015					EMY 006
01U353	08-Aug-95	F48	<1.93	<4.81	61.80	<1.47	0.49	<2.18	4.81	176.00	<5.94	8.37	<10.00	<3.06	<2.70	L <0.70					191.00
01U353 (5)	08-Aug-95		ERY 006	ERP 006	ERQ 017	ERR 020	ERS 024	ERT 024	ERU 024	ESB 006	ERW 024	ERV 056	ERO 024	ERX 006	ERZ 006	ESC 024					ESA 020
01U353	07-Sep-95	F48	<1.93	<4.81	88.20	<15.00	0.40	<2.18	1.98	546.00	R <5.94	R <2.65	<10.00	R <3.06	<2.70	<0.70					R 202.00
01U353 (5)	07-Sep-95		EVR 051	EVI 021	EVJ 120	EVK 118	EVL 021	EVM 008	EVN 145	EVU 006	EVP 059	EVO 045	EVH 016	EVQ 006	EVS 006	EVV 008					EVT 030
01U353	15-Dec-95	A49	<12.50	<62.90	192.00	<2.50	<5.00	<15.00	71.30	660.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					3300.00
01U353 (5)	15-Dec-95		IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	IRM 007	JDQ 009					IRM 007
01U353	11-Mar-96	A50	<12.50	<62.90	565.00	<2.50	<5.00	<15.00	34.10	653.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					1630.00
01U353 (5)	11-Mar-96		IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	IRP 010	JDW 009					IRP 010
01U353	19-Jun-96	A51	<10.00	3.52	199.00	<1.12	<6.78	<16.80	42.80	568.00	<32.10	17.30	<10.00	<2.53	<10.00	0.11					734.00
01U353 (5)	19-Jun-96		AXQC 007	AXQD 007	AXQC 007	AXQC 007	AXQC 007	AXQC 007	AXQC 007	AXQC 007	AXQC 007	AXQE 007	AXQH 007	AXQF 007	AXQG 007	AXRX 007					AXQC 007
01U353	12-Sep-96	A52	<10.00	<2.35	107.00	<1.12	<6.78	<16.80	<18.80	514.00	<32.10	<4.47	<6.00	3.81	<5.00	<0.10					53.80
01U353 (5)	12-Sep-96		AYZZ 018	AZAA 018	AYZZ 018	AYZZ 018	AYZZ 018	AYZZ 018	AYZZ 018	AYZZ 018	AYZZ 018	AZAB 018	AZAF 029	AZAC 018	AZAE 029	AZBJ 007					AYZZ 018
01U353	11-Dec-96		<10.00	<2.35	122.00	<1.12	<6.78	<16.80	<18.80	488.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					214.00
01U353 (5)	11-Dec-96	A53	BAXO 007	BAXQ 007	BAXO 007	BAXO 007	BAXO 007	BAXO 007	BAXO 007	BAXO 007	BAXO 007	BAXR 007	BAWH 007	BAXS 007	BAWI 007	BAYF 007					BAXO 007
01U353 (3)	11-Dec-96		<10.00	<2.35	111.00	<1.12	<6.78	<16.80	<18.80	502.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					94.20
01U353 (5)	11-Dec-96	A53	BAXO 008	BAXQ 008	BAXO 008	BAXO 008	BAXO 008	BAXO 008	BAXO 008	BAXO 008	BAXO 008	BAXR 008	BAWH 008	BAXS 008	BAWI 008	BAYF 008					BAXO 008
01U353	18-Jun-97		<10.00	3.36	108.00	<1.12	<6.78	<16.80	<18.80	531.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					I 288.00
01U353 (5)	18-Jun-97	A55	BFQG 007	BFQJ 007	BFQG 007	BFQG 007	BFQG 007	BFQG 007	BFQG 007	BFQG 007	BFQG 007	BFQL 007	BFQH 007	BFQM 007	BFQN 007	BFPH 007					BFQG 007
01U354	10-Oct-94	F45	<12.50	<62.90	40.30	<2.50	<5.00	<15.00	<20.00	245.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					47.80
01U354 (5)	10-Oct-94		IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IQU 010	IJX 010					IQU 010
01U354	08-Nov-94	F45	<12.50	<62.90	42.30	<2.50	<5.00	<15.00	<20.00	264.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 43.70
01U354 (5)	08-Nov-94		IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IQV 008	IJY 008					IQV 008
01U354	05-Dec-94	F45	<62.90	<2.50	36.30	<5.00	<15.00	<120.00	<1250.00	247.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					37.00
01U354 (5)	05-Dec-94		IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IQW 010	IJZ 010					IQW 010
01U354 (3)	05-Dec-94	F45	<62.90	<2.50	37.30	<5.00	<15.00	<120.00	<1250.00	244.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					31.00
01U354 (5)	05-Dec-94		IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IQW 011	IJZ 011					IQW 011
01U354	17-Jan-95	F46	<12.50	<62.90	42.30	<2.50	<5.00	<15.00	<20.00	256.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 47.80
01U354 (5)	17-Jan-95		IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	IQX 010	JDA 007					IQX 010
01U354	08-Feb-95	F46	<1.93				<0.10	<2.18	25.00		<5.94	<2.65				<0.70					<29.40
01U354 (5)	08-Feb-95		DPY 015				DPS 016	DPT 016	DPU 018		DPW 016	DPV 009				DQC 010					DQA 016
01U354	03-Mar-95	F46								295.00					<2.70	<0.70					<29.40
01U354 (5)	03-Mar-95									DRC 007					DRA 007	DRD 009					DRB 007
01U354	03-Apr-95	F47	<1.93	<4.81	69.70	<1.47	<0.10	<2.18	12.60	266.00	<5.94	4.67	<10.00	<3.06	<2.70	<0.70					31.10
01U354 (5)	03-Apr-95		DSR 006	DSI 006	DSJ 006	DSK 006	DSL 006	DSM 006	DSN 006	DSU 006	DSP 006	DSO 006	DSH 006	DSQ 006	DSS 006	DSV 008					DST 006
01U354	08-May-95	F47	<1.93	<4.81	53.00	<1.47	<0.10	<2.18	4.06	267.00	<5.94	5.64	<10.00	<3.06	<2.70	<0.70					<29.40
01U354 (5)	08-May-95		DYK 006	DYB 006	DYC 006	DYD 006	DYE 006	DYF 024	DYG 022	DYN 006	DYI 022	DYH 022	DYA 015	DYJ 006	DYL 006	DYO 008					DYM 022
01U354	01-Jun-95	F47	<1.93	<4.81	51.30	<1.47	<0.10	<2.18	4.05	228.00	6.57	7.04	<10.00	<3.06	<2.70	<0.70					78.20

APPENDIX C.3
Groundwater Quality Data (Inorganics) - (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)	Zinc ZN (ug/l)
01U354 (5)	01-Jun-95		ECV 017	ECM 007	ECN 017	ECO 007	ECP 007	ECQ 012	ECR 007	ECY 007	ECT 007	ECS 007	ECL 012	ECU 017	ECW 017	ECZ 016					ECX 007
01U354	11-Jul-95	F48	<1.93	<4.81	68.10	<1.47	0.55	<2.18	2.49	236.00	<5.94	9.76	<10.00	<3.06	<2.70	<0.70					150.00
01U354 (5)	11-Jul-95		EMW 007	EMN 007	EMO 007	EMP 007	EMQ 024	EMR 024	EMS 007	EMZ 007	EMU 024	EMT 007	EMM 024	EMV 007	EMX 007	ENA 016					EMY 007
01U354	08-Aug-95	F48	<1.93	<4.81	118.00	<1.47	0.69	<2.18	0.89	582.00	<5.94	<2.65	<10.00	<3.06	<2.70	L <0.70					118.00
01U354 (5)	08-Aug-95		ERY 007	ERP 007	ERQ 019	ERR 021	ERS 025	ERT 025	ERU 025	ESB 007	ERW 025	ERV 060	ERO 025	ERX 007	ERZ 007	ESC 027					ESA 021
01U354	07-Sep-95	F48	<1.93	<4.81	38.20	<15.00	<0.10	<2.18	61.00	53.30	R 6.63	R 3.98	<10.00	R <3.06	<2.70	<0.70					R 267.00
01U354 (5)	07-Sep-95		EVR 053	EVI 022	EVJ 122	EVK 122	EVL 023	EVM 009	EVN 148	EVU 007	EVP 060	EVO 047	EVH 020	EVQ 007	EVS 007	EVV 009					EVT 031
01U354	15-Dec-95	A49	<12.50	<62.90	41.30	<2.50	<5.00	<15.00	<20.00	235.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					227.00
01U354 (5)	15-Dec-95		IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	IRM 008	JDQ 010					IRM 008
01U354	11-Mar-96	A50	<12.50	102.00	373.00	<2.50	<5.00	<15.00	331.00	592.00	<63.10	245.00	<37.10	<75.00	<100.00	<0.74					16300.00
01U354 (5)	11-Mar-96		IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	IRP 011	JDW 010					IRP 011
01U354	19-Jun-96	A51	<10.00	9.55	70.20	<1.12	<6.78	<16.80	22.30	281.00	<32.10	69.60	<10.00	<2.53	<10.00	<0.10					432.00
01U354 (5)	19-Jun-96		AXQC 008	AXQD 008	AXQC 008	AXQC 008	AXQC 008	AXQC 008	AXQC 008	AXQC 008	AXQC 008	AXQE 008	AXQH 008	AXQF 008	AXQG 008	AXRX 008					AXQC 008
01U354	12-Sep-96	A52	<10.00	4.11	42.60	<1.12	<6.78	<16.80	<18.80	235.00	<32.10	7.84	<6.00	<2.53	<5.00	<0.10					64.40
01U354 (5)	12-Sep-96		AYZZ 019	AZAA 019	AYZZ 019	AYZZ 019	AYZZ 019	AYZZ 019	AYZZ 019	AYZZ 019	AYZZ 019	AZAB 019	AZAF 030	AZAC 019	AZAE 030	AZBJ 008					AYZZ 019
01U354 (3)	12-Sep-96	A52	<10.00	3.68	42.80	<1.12	<6.78	<16.80	<18.80	248.00	<32.10	6.12	<6.00	<2.53	<5.00	<0.10					56.10
01U354 (5)	12-Sep-96		AYZZ 024	AZAA 024	AYZZ 024	AYZZ 024	AYZZ 024	AYZZ 024	AYZZ 024	AYZZ 024	AYZZ 024	AZAB 024	AZAF 035	AZAC 024	AZAE 035	AZBJ 013					AYZZ 024
01U354	11-Dec-96		<10.00	4.73	44.30	<1.12	<6.78	<16.80	<18.80	230.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					29.10
01U354 (5)	11-Dec-96	A53	BAXO 009	BAXQ 009	BAXO 009	BAXO 009	BAXO 009	BAXO 009	BAXO 009	BAXO 009	BAXO 009	BAXR 009	BAWH 009	BAXS 009	BAWI 009	BAYF 009					BAXO 009
01U354	18-Jun-97		<10.00	5.49	47.40	<1.12	<6.78	<16.80	<18.80	229.00	<32.10	28.50	<6.00	<2.53	<5.00	<0.10					I 165.00
01U354 (5)	18-Jun-97	A55	BFQG 008	BFQJ 008	BFQG 008	BFQG 008	BFQG 008	BFQG 008	BFQG 008	BFQG 008	BFQG 008	BFQL 008	BFQH 008	BFQM 008	BFQN 008	BFPH 008					BFQG 008
01U355	10-Oct-94	F45	<12.50	<62.90	67.50	<2.50	<5.00	<15.00	<20.00	514.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					53.90
01U355 (5)	10-Oct-94		IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IQU 011	IJX 011					IQU 011
01U355	08-Nov-94	F45	<12.50	<62.90	77.60	<2.50	<5.00	<15.00	<20.00	537.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 45.80
01U355 (5)	08-Nov-94		IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IQV 009	IJY 011					IQV 009
01U355	05-Dec-94	F45	<62.90	<2.50	70.60	<5.00	<15.00	<120.00	<1250.00	525.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					23.00
01U355 (5)	05-Dec-94		IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IQW 012	IJZ 012					IQW 012
01U355	17-Jan-95	F46	<12.50	<62.90	72.60	<2.50	<5.00	<15.00	<20.00	534.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 33.60
01U355 (5)	17-Jan-95		IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	IQX 011	JDA 008					IQX 011
01U355	08-Feb-95	F46	<1.93				<0.10	<2.18	12.50		<5.94	<2.65				<0.70					<29.40
01U355 (5)	08-Feb-95		DPY 017				DPS 018	DPT 018	DPU 020		DPW 018	DPV 011				DQC 012					DQA 018
01U355	03-Mar-95	F46								521.00					<2.70	<0.70					<29.40
01U355 (5)	03-Mar-95									DRC 008					DRA 008	DRD 010					DRB 008
01U355	03-Apr-95	F47	<1.93	<4.81	109.00	<1.47	<0.10	<2.18	15.20	527.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					41.10
01U355 (5)	03-Apr-95		DSR 008	DSI 008	DSJ 008	DSK 008	DSL 008	DSM 008	DSN 008	DSU 008	DSP 008	DSO 008	DSH 008	DSQ 008	DSS 008	DSV 010					DST 008
01U355	08-May-95	F47	<1.93	<4.81	95.50	<1.47	<0.10	<2.18	4.82	523.00	<5.94	3.80	<10.00	<3.06	<2.70	<0.70					52.10
01U355 (5)	08-May-95		DYK 008	DYB 008	DYC 008	DYD 008	DYE 008	DYF 026	DYG 024	DYN 008	DYI 024	DYH 024	DYA 017	DYJ 008	DYL 008	DYO 010					DYM 024
01U355	01-Jun-95	F47	<1.93	<4.81	97.60	<1.47	<0.10	<2.18	2.31	497.00	9.13	<2.65	<10.00	<3.06	<2.70	<0.70					<29.40
01U355 (5)	01-Jun-95		ECV 018	ECM 008	ECN 018	ECO 008	ECP 008	ECQ 013	ECR 008	ECY 008	ECT 008	ECS 008	ECL 013	ECU 018	ECW 018	ECZ 017					ECX 008
01U355	11-Jul-95	F48	<1.93	<4.81	104.00	<1.47	0.17	<2.18	3.83	468.00	8.17	<2.65	<10.00	<3.06	<2.70	<0.70					63.10
01U355 (5)	11-Jul-95		EMW 008	EMN 008	EMO 008	EMP 008	EMQ 025	EMR 025	EMS 008	EMZ 008	EMU 025	EMT 008	EMM 025	EMV 008	EMX 008	ENA 017					EMY 008
01U355	08-Aug-95	F48	<1.93	<4.81	77.50	<1.47	0.50	<2.18	3.46	407.00	<5.94	<2.65	<10.00	<3.06	<2.70	L <0.70					63.10
01U355 (5)	08-Aug-95		ERY 008	ERP 008	ERQ 023	ERR 022	ERS 026	ERT 026	ERU 026	ESB 008	ERW 026	ERV 062	ERO 026	ERX 008	ERZ 008	ESC 028					ESA 022
01U355	07-Sep-95	F48	<1.93	<4.81	63.70	<15.00	<0.10	<2.18	12.90	130.00	R 11.40	R 7.65	<10.00	R <3.06	<2.70	<0.70					R 180.00

APPENDIX C.3
Groundwater Quality Data (Inorganics) - (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)	Zinc ZN (ug/l)
01U355 (5)	07-Sep-95		EVR 055	EVI 023	EVJ 124	EVK 124	EVL 126	EVM 010	EVN 152	EVU 008	EVP 061	EVO 049	EVH 022	EVQ 008	EVS 008	EVV 010					EVT 032
01U355	15-Dec-95	A49	<12.50	<62.90	87.70	<2.50	<5.00	<15.00	<20.00	538.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					39.70
01U355 (5)	15-Dec-95		IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	IRM 009	JDQ 011					IRM 009
01U355 (3)	15-Dec-95	A49	<12.50	<62.90	88.70	<2.50	<5.00	<15.00	<20.00	543.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					35.60
01U355 (5)	15-Dec-95		IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	IRM 010	JDQ 012					IRM 010
01U355	11-Mar-96	A50	<12.50	<62.90	91.70	<2.50	<5.00	<15.00	<20.00	532.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					122.00
01U355 (5)	11-Mar-96		IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	IRP 012	JDW 011					IRP 012
01U355	19-Jun-96	A51	<10.00	4.74	102.00	<1.12	<6.78	<16.80	<18.80	561.00	<32.10	<4.47	<10.00	<2.53	<10.00	<0.10					48.30
01U355 (5)	19-Jun-96		AXQC 009	AXQD 009	AXQC 009	AXQC 009	AXQC 009	AXQC 009	AXQC 009	AXQC 009	AXQC 009	AXQE 009	AXQH 009	AXQF 009	AXQG 009	AXRX 009					AXQC 009
01U355	12-Sep-96	A52	<10.00	3.80	96.20	<1.12	<6.78	<16.80	<18.80	554.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					49.30
01U355 (5)	12-Sep-96		AYZZ 021	AZAA 021	AYZZ 021	AYZZ 021	AYZZ 021	AYZZ 021	AYZZ 021	AYZZ 021	AYZZ 021	AZAB 021	AZAF 032	AZAC 021	AZAE 032	AZBJ 010					AYZZ 021
01U355	11-Dec-96		<10.00	4.56	90.80	<1.12	<6.78	<16.80	<18.80	493.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					76.20
01U355 (5)	11-Dec-96	A53	BAXO 010	BAXQ 010	BAXO 010	BAXO 010	BAXO 010	BAXO 010	BAXO 010	BAXO 010	BAXO 010	BAXR 010	BAWH 010	BAXS 010	BAWI 010	BAYF 010					BAXO 010
01U355	18-Jun-97		<10.00	4.80	89.40	<1.12	<6.78	<16.80	<18.80	482.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					I 20.70
01U355 (5)	18-Jun-97	A55	BFQG 009	BFQJ 009	BFQG 009	BFQG 009	BFQG 009	BFQG 009	BFQG 009	BFQG 009	BFQG 009	BFQL 009	BFQH 009	BFQM 009	BFQN 009	BFPH 009					BFQG 009
01U356	10-Oct-94	F45	<12.50	<62.90	58.50	<2.50	<5.00	<15.00	<20.00	439.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					49.80
01U356 (5)	10-Oct-94		IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IQU 012	IJX 012					IQU 012
01U356	08-Nov-94	F45	<12.50	<62.90	60.50	<2.50	<5.00	<15.00	<20.00	430.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 49.80
01U356 (5)	08-Nov-94		IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IQV 010	IJY 012					IQV 010
01U356	05-Dec-94	F45	<62.90	<2.50	54.90	<5.00	<15.00	<120.00	<1250.00	381.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					211.00
01U356 (5)	05-Dec-94		IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IQW 013	IJZ 013					IQW 013
01U356	08-Feb-95	F46	<1.93				<0.10	<2.18	11.90		<5.94	<2.65				<0.70					<29.40
01U356 (5)	08-Feb-95		DPY 018				DPS 019	DPT 019	DPU 021		DPW 019	DPV 012				DQC 015					DQA 019
01U356	03-Mar-95	F46								429.00					<2.70	<0.70					<29.40
01U356 (5)	03-Mar-95									DRC 009					DRA 009	DRD 011					DRB 009
01U356	03-Apr-95	F47	<1.93	<4.81	93.60	<1.47	0.16	<2.18	14.80	396.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					46.10
01U356 (5)	03-Apr-95		DSR 009	DSI 009	DSJ 009	DSK 009	DSL 009	DSM 009	DSN 009	DSU 009	DSP 009	DSO 009	DSH 009	DSQ 009	DSS 009	DSV 011					DST 009
01U356	08-May-95	F47	<1.93	<4.81	83.30	<1.47	0.25	<2.18	6.60	374.00	8.98	<2.65	<10.00	<3.06	<2.70	<0.70					49.10
01U356 (5)	08-May-95		DYK 009	DYB 009	DYC 009	DYD 009	DYE 009	DYF 027	DYG 025	DYN 009	DYI 025	DYH 025	DYA 018	DYJ 009	DYL 009	DYO 011					DYM 025
01U356	01-Jun-95	F47	<1.93	<4.81	69.50	<1.47	<0.10	<2.18	4.29	358.00	9.46	<2.65	<10.00	<3.06	<2.70	<0.70					178.00
01U356 (5)	01-Jun-95		ECV 019	ECM 009	ECN 019	ECO 009	ECP 009	ECQ 014	ECR 009	ECY 009	ECT 009	ECS 009	ECL 014	ECU 019	ECW 019	ECZ 018					ECX 009
01U356	11-Jul-95	F48	<1.93	<4.81	97.70	<1.47	0.16	<2.18	1.17	372.00	7.16	7.64	<10.00	<3.06	<2.70	<0.70					116.00
01U356 (5)	11-Jul-95		EMW 009	EMN 009	EMO 009	EMP 009	EMQ 026	EMR 026	EMS 009	EMZ 009	EMU 026	EMT 009	EMM 026	EMV 009	EMX 009	ENA 018					EMY 009
01U356	08-Aug-95	F48	<1.93	<4.81	82.40	<1.47	0.72	<2.18	1.49	331.00	8.08	4.29	<10.00	<3.06	<2.70	L <0.70					149.00
01U356 (5)	08-Aug-95		ERY 009	ERP 009	ERQ 025	ERR 023	ERS 027	ERT 027	ERU 027	ESB 009	ERW 027	ERV 064	ERO 027	ERX 009	ERZ 009	ESC 029					ESA 023
01U356	07-Sep-95	F48	<1.93	<4.81	58.80	<15.00	0.18	<2.18	6.83	250.00	R <5.94	R <2.65	<10.00	R <3.06	<2.70	<0.70					R 93.20
01U356 (5)	07-Sep-95		EVR 057	EVI 024	EVJ 126	EVK 126	EVL 029	EVM 011	EVN 154	EVU 009	EVP 062	EVO 073	EVH 024	EVQ 009	EVS 009	EVV 011					EVT 033
01U356	15-Dec-95	A49	<12.50	<62.90	70.60	<2.50	<5.00	<15.00	<20.00	302.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					394.00
01U356 (5)	15-Dec-95		IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	IRM 011	JDQ 013					IRM 011
01U356	11-Mar-96	A50	<12.50	<62.90	69.60	<2.50	<5.00	<15.00	<20.00	301.00	<63.10	<100.00	40.30	<75.00	<100.00	<0.74					94.60
01U356 (5)	11-Mar-96		IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	IRP 015	JDW 014					IRP 015
01U356	19-Jun-96	A51	<10.00	<2.35	71.20	<1.12	<6.78	<16.80	<18.80	352.00	<32.10	27.50	<10.00	<2.53	<10.00	<0.10					25.50
01U356 (5)	19-Jun-96		AXQC 010	AXQD 010	AXQC 010	AXQC 010	AXQC 010	AXQC 010	AXQC 010	AXQC 010	AXQC 010	AXQE 010	AXQH 010	AXQF 010	AXQG 010	AXRX 010					AXQC 010
01U356	12-Sep-96	A52	<10.00	<2.35	73.10	<1.12	<6.78	<16.80	<18.80	350.00	<32.10	8.33	<6.00	<2.53	<5.00	<0.10					27.30

APPENDIX C.3
Groundwater Quality Data (Inorganics) - (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)	Zinc ZN (ug/l)
01U356 (5)	12-Sep-96		AYZZ 022	AZAA 022	AYZZ 022	AYZZ 022	AYZZ 022	AYZZ 022	AYZZ 022	AYZZ 022	AYZZ 022	AZAB 022	AZAF 033	AZAC 022	AZAE 033	AZBJ 011					AYZZ 022
01U356	11-Dec-96		<10.00	2.46	70.30	<1.12	<6.78	<16.80	<18.80	343.00	<32.10	10.30	<6.00	<2.53	<5.00	<0.10					32.10
01U356 (5)	11-Dec-96	A53	BAXO 011	BAXQ 011	BAXO 011	BAXO 011	BAXO 011	BAXO 011	BAXO 011	BAXO 011	BAXO 011	BAXR 011	BAWH 011	BAXS 011	BAWI 011	BAYF 011					BAXO 011
01U356	18-Jun-97		<10.00	3.93	73.00	<1.12	<6.78	<16.80	<18.80	332.00	<32.10	32.40	<6.00	<2.53	<5.00	<0.10					I 32.90
01U356 (5)	18-Jun-97	A55	BFQG 010	BFQJ 010	BFQG 010	BFQG 010	BFQG 010	BFQG 010	BFQG 010	BFQG 010	BFQG 010	BFQL 010	BFQH 010	BFQM 010	BFQN 010	BFPH 010					BFQG 010
01U357	10-Oct-94	F45	<12.50	<62.90	43.30	<2.50	<5.00	<15.00	<20.00	179.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					40.70
01U357 (5)	10-Oct-94		IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IQU 013	IJX 013					IQU 013
01U357	08-Nov-94	F45	<12.50	<62.90	47.40	<2.50	<5.00	<15.00	<20.00	242.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 50.90
01U357 (5)	08-Nov-94		IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IQV 011	IJY 013					IQV 011
01U357	05-Dec-94	F45	<62.90	<2.50	39.20	<5.00	<15.00	<120.00	<1250.00	211.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					17.00
01U357 (5)	05-Dec-94		IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IQW 014	IJZ 014					IQW 014
01U357	17-Jan-95	F46	<12.50	<62.90	48.40	<2.50	<5.00	<15.00	<20.00	274.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 34.60
01U357 (5)	17-Jan-95		IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	IQX 012	JDA 011					IQX 012
01U357	03-Mar-95	F46								265.00					<2.70	<0.70					<29.40
01U357 (5)	03-Mar-95									DRC 010					DRA 010	DRD 012					DRB 010
01U357	03-Apr-95	F47	<1.93	<4.81	70.10	<1.47	<0.10	<2.18	9.09	238.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					34.10
01U357 (5)	03-Apr-95		DSR 010	DSI 010	DSJ 010	DSK 010	DSL 010	DSM 010	DSN 010	DSU 010	DSP 010	DSO 010	DSH 010	DSQ 010	DSS 010	DSV 012					DST 010
01U357	08-May-95	F47	<1.93	<4.81	57.60	<1.47	<0.10	<2.18	10.70	238.00	7.56	2.91	<10.00	<3.06	<2.70	<0.70					47.10
01U357 (5)	08-May-95		DYK 010	DYB 010	DYC 010	DYD 010	DYE 010	DYF 028	DYG 026	DYN 010	DYI 026	DYH 026	DYA 019	DYJ 010	DYL 010	DYO 012					DYM 026
01U357	01-Jun-95	F47	<1.93	<4.81	56.10	<1.47	0.42	<2.18	4.78	213.00	15.30	3.23	<10.00	<3.06	<2.70	<0.70					44.10
01U357 (5)	01-Jun-95		ECV 020	ECM 010	ECN 020	ECO 010	ECP 010	ECQ 015	ECR 010	ECY 010	ECT 010	ECS 010	ECL 015	ECU 020	ECW 020	ECZ 019					ECX 010
01U357	11-Jul-95	F48	<1.93	<4.81	69.60	<1.47	0.38	<2.18	5.12	222.00	<5.94	4.54	<10.00	<3.06	<2.70	<0.70					62.10
01U357 (5)	11-Jul-95		EMW 010	EMN 010	EMO 010	EMP 010	EMQ 027	EMR 027	EMS 010	EMZ 010	EMU 027	EMT 010	EMM 027	EMV 010	EMX 010	ENA 019					EMY 010
01U357	08-Aug-95	F48	<1.93	<4.81	63.70	<1.47	0.53	<2.18	3.24	190.00	6.30	<2.65	<10.00	<3.06	<2.70	L <0.70					84.20
01U357 (5)	08-Aug-95		ERY 010	ERP 010	ERQ 027	ERR 024	ERS 028	ERT 028	ERU 028	ESB 010	ERW 028	ERV 066	ERO 028	ERX 010	ERZ 010	ESC 030					ESA 024
01U357	07-Sep-95	F48	<1.93	<4.81	52.90	<15.00	0.32	<2.18	9.60	173.00	R 6.31	R <2.65	<10.00	R <3.06	<2.70	<0.70					R 88.20
01U357 (5)	07-Sep-95		EVR 059	EVI 027	EVJ 128	EVK 128	EVL 031	EVM 012	EVN 156	EVU 010	EVP 065	EVO 075	EVH 026	EVQ 010	EVS 010	EVV 012					EVT 034
01U357	15-Dec-95	A49	<12.50	<62.90	48.40	<2.50	<5.00	<15.00	32.10	219.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					31.50
01U357 (5)	15-Dec-95		IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	IRM 012	JDQ 014					IRM 012
01U357	11-Mar-96	A50	<12.50	<62.90	56.50	<2.50	<5.00	<15.00	<20.00	251.00	<63.10	<100.00	60.00	<75.00	<100.00	<0.74					21.40
01U357 (5)	11-Mar-96		IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	IRP 014	JDW 013					IRP 014
01U357	19-Jun-96	A51	<10.00	4.32	71.40	<1.12	<6.78	<16.80	<18.80	261.00	<32.10	6.03	<10.00	<2.53	<10.00	<0.10					<18.00
01U357 (5)	19-Jun-96		AXQC 011	AXQD 011	AXQC 011	AXQC 011	AXQC 011	AXQC 011	AXQC 011	AXQC 011	AXQC 011	AXQE 011	AXQH 011	AXQF 011	AXQG 011	AXRX 011					AXQC 011
01U357 (3)	19-Jun-96	A51	<10.00	3.91	67.50	<1.12	<6.78	<16.80	<18.80	253.00	<32.10	5.44	<10.00	<2.53	<10.00	<0.10					<18.00
01U357 (5)	19-Jun-96		AXQC 012	AXQD 012	AXQC 012	AXQC 012	AXQC 012	AXQC 012	AXQC 012	AXQC 012	AXQC 012	AXQE 012	AXQH 012	AXQF 012	AXQG 012	AXRX 012					AXQC 012
01U357	12-Sep-96	A52	<10.00	3.96	73.80	<1.12	<6.78	<16.80	37.90	269.00	<32.10	8.38	<6.00	<2.53	<5.00	<0.10					29.60
01U357 (5)	12-Sep-96		AYZZ 023	AZAA 023	AYZZ 023	AYZZ 023	AYZZ 023	AYZZ 023	AYZZ 023	AYZZ 023	AYZZ 023	AZAB 023	AZAF 034	AZAC 023	AZAE 034	AZBJ 012					AYZZ 023
01U357	11-Dec-96		<10.00	2.86	64.60	<1.12	<6.78	<16.80	<18.80	269.00	<32.10	11.70	<6.00	<2.53	<5.00	<0.10					83.90
01U357 (5)	11-Dec-96	A53	BAXO 012	BAXQ 012	BAXO 012	BAXO 012	BAXO 012	BAXO 012	BAXO 012	BAXO 012	BAXO 012	BAXR 012	BAWH 012	BAXS 012	BAWI 012	BAYF 012					BAXO 012
01U357	18-Jun-97		<10.00	2.69	59.00	<1.12	<6.78	<16.80	47.00	270.00	<32.10	5.60	<6.00	<2.53	<5.00	<0.10					I 22.30
01U357 (5)	18-Jun-97	A55	BFQG 011	BFQJ 011	BFQG 011	BFQG 011	BFQG 011	BFQG 011	BFQG 011	BFQG 011	BFQG 011	BFQL 011	BFQH 011	BFQM 011	BFQN 011	BFPH 011					BFQG 011
01U358	10-Oct-94	F45	<12.50	<62.90	37.30	<2.50	<5.00	<15.00	<20.00	155.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					54.90
01U358 (5)	10-Oct-94		IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IQU 014	IJX 014					IQU 014

APPENDIX C.3
Groundwater Quality Data (Inorganics) - (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)	Zinc ZN (ug/l)
01U358	08-Nov-94	F45	<12.50	<62.90	43.30	<2.50	<5.00	<15.00	<20.00	190.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 52.90
01U358 (5)	08-Nov-94		IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IQV 012	IJY 014					IQV 012
01U358 (3)	08-Nov-94	F45	<12.50	<62.90	44.40	<2.50	<5.00	<15.00	<20.00	187.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 38.7
01U358 (5)	08-Nov-94		IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IQV 013	IJY 015					IQV 013
01U358	05-Dec-94	F45	<62.90	<2.50	91.20	<5.00	<15.00	<120.00	<1250.00	168.00	<37.10	<75.00	<100.00	<20.00	<13.00	<0.74					13.00
01U358 (5)	05-Dec-94		IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IQW 015	IJZ 015					IQW 015
01U358	17-Jan-95	F46	<12.50	<62.90	44.40	<2.50	<5.00	<15.00	<20.00	170.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 30.50
01U358 (5)	17-Jan-95		IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	IQX 013	JDA 012					IQX 013
01U358 (3)	17-Jan-95	F46	<12.50	<62.90	44.40	<2.50	<5.00	<15.00	<20.00	175.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					B 34.6
01U358 (5)	17-Jan-95		IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	IQX 014	JDA 013					IQX 014
01U358	08-Feb-95	F46	<1.93				<0.10	<2.18	30.00		<5.94	<2.65				<0.70					<29.40
01U358 (5)	08-Feb-95		DPY 016				DPS 017	DPT 017	DPU 019		DPW 017	DPV 010				DQC 011					DQA 017
01U358	03-Mar-95	F46								183.00					<2.70	<0.70					<29.40
01U358 (5)	03-Mar-95									DRC 011					DRA 011	DRD 015					DRB 011
01U358	03-Apr-95	F47	<1.93	<4.81	63.30	<1.47	<0.10	<2.18	39.00	161.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					52.10
01U358 (5)	03-Apr-95		DSR 007	DSI 007	DSJ 007	DSK 007	DSL 007	DSM 007	DSN 007	DSU 007	DSP 007	DSO 007	DSH 007	DSQ 007	DSS 007	DSV 009					DST 007
01U358	08-May-95	F47	<1.93	<4.81	57.70	<1.47	<0.10	<2.18	8.82	181.00	23.40	<2.65	<10.00	<3.06	<2.70	<0.70					35.10
01U358 (5)	08-May-95		DYK 007	DYB 007	DYC 007	DYD 007	DYE 007	DYF 025	DYG 023	DYN 007	DYI 023	DYH 023	DYA 016	DYJ 007	DYL 007	DYO 009					DYM 023
01U358	01-Jun-95	F47	<1.93	<4.81	52.70	<1.47	0.13	<2.18	8.97	175.00	11.90	3.80	<10.00	<3.06	<2.70	<0.70					<29.40
01U358 (5)	01-Jun-95		ECV 021	ECM 011	ECN 021	ECO 011	ECP 011	ECQ 016	ECR 011	ECY 011	ECT 011	ECS 011	ECL 016	ECU 021	ECW 021	ECZ 020					ECX 011
01U358	11-Jul-95	F48	<1.93	<4.81	68.80	<1.47	0.31	<2.18	8.16	193.00	<5.94	<2.65	<10.00	<3.06	<2.70	<0.70					70.10
01U358 (5)	11-Jul-95		EMW 011	EMN 011	EMO 011	EMP 011	EMQ 028	EMR 028	EMS 011	EMZ 011	EMU 028	EMT 011	EMM 028	EMV 011	EMX 011	ENA 020					EMY 011
01U358	08-Aug-95	F48	<1.93	<4.81	59.80	<1.47	0.32	<2.18	7.89	153.00	<5.94	4.29	<10.00	<3.06	<2.70	L <0.70					100.00
01U358 (5)	08-Aug-95		ERY 011	ERP 011	ERQ 029	ERR 025	ERS 029	ERT 029	ERU 029	ESB 011	ERW 029	ERV 068	ERO 029	ERX 011	ERZ 011	ESC 031					ESA 025
01U358	07-Sep-95	F48	<1.93	<4.81	52.00	<15.00	0.35	<2.18	34.00	157.00	R 6.73	R 3.78	<10.00	R <3.06	<2.70	<0.70					R 127.00
01U358 (5)	07-Sep-95		EVR 139	EVI 028	EVJ 132	EVK 130	EVL 033	EVM 013	EVN 159	EVU 011	EVP 066	EVO 077	EVH 028	EVQ 011	EVS 011	EVV 015					EVT 035
01U358	15-Dec-95	A49	<12.50	<62.90	51.40	<2.50	<5.00	<15.00	<20.00	164.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					91.60
01U358 (5)	15-Dec-95		IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	IRM 013	JDQ 015					IRM 013
01U358	11-Mar-96	A50	<12.50	<62.90	52.40	<2.50	<5.00	<15.00	<20.00	161.00	<63.10	<100.00	<37.10	<75.00	<100.00	<0.74					42.70
01U358 (5)	11-Mar-96		IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	IRP 013	JDW 012					IRP 013
01U358	19-Jun-96	A51	<10.00	4.00	81.10	<1.12	<6.78	<16.80	90.40	221.00	<32.10	53.80	<10.00	<2.53	<10.00	<0.10					140.00
01U358 (5)	19-Jun-96		AXQC 013	AXQD 013	AXQC 013	AXQC 013	AXQC 013	AXQC 013	AXQC 013	AXQC 013	AXQC 013	AXQE 013	AXQH 013	AXQF 013	AXQG 013	AXRX 013					AXQC 013
01U358	12-Sep-96	A52	<10.00	<2.35	51.80	<1.12	<6.78	<16.80	<18.80	183.00	<32.10	14.90	<6.00	<2.53	<5.00	<0.10					50.70
01U358 (5)	12-Sep-96		AYZZ 020	AZAA 020	AYZZ 020	AYZZ 020	AYZZ 020	AYZZ 020	AYZZ 020	AYZZ 020	AYZZ 020	AZAB 020	AZAF 031	AZAC 020	AZAE 031	AZBJ 009					AYZZ 020
01U358	11-Dec-96		<10.00	<2.35	52.10	<1.12	<6.78	<16.80	<18.80	176.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					24.70
01U358 (5)	11-Dec-96	A53	BAXO 013	BAXQ 013	BAXO 013	BAXO 013	BAXO 013	BAXO 013	BAXO 013	BAXO 013	BAXO 013	BAXR 013	BAWH 013	BAXS 013	BAWI 013	BAYF 013					BAXO 013
01U358	18-Jun-97		<10.00	<2.35	56.80	<1.12	<6.78	<16.80	<18.80	177.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					I 21.70
01U358 (5)	18-Jun-97	A55	BFQG 012	BFQJ 012	BFQG 012	BFQG 012	BFQG 012	BFQG 012	BFQG 012	BFQG 012	BFQG 012	BFQL 012	BFQH 012	BFQM 012	BFQN 012	BFPH 012					BFQG 012
01U358 (3)	18-Jun-97		<10.00	<2.35	56.00	<1.12	<6.78	<16.80	<18.80	174.00	<32.10	<4.47	<6.00	<2.53	<5.00	<0.10					I 24.30
01U358 (5)	18-Jun-97	A55	BFQG 013	BFQJ 013	BFQG 013	BFQG 013	BFQG 013	BFQG 013	BFQG 013	BFQG 013	BFQG 013	BFQL 013	BFQH 013	BFQM 013	BFQN 013	BFPH 013					BFQG 013
03U087	22-Mar-95	F46																3.86	<12.10	15.10	
03U087 (5)	22-Mar-95																	DRZ 012	DRY 012	DSD 009	
03U087	26-Jun-96	A51															<5.00	1400.00	<50.00	12.20	
03U087 (5)	26-Jun-96																AYAI 005	AXXB 008	AXSQ 002	AXSA 009	

APPENDIX C.3
Groundwater Quality Data (Inorganics) - (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)	Zinc ZN (ug/l)
03U087	23-Jun-97																<5.00	1100.00	F <200.00	28.60	
03U087 (5)	23-Jun-97	A55															BFPG 005	BFTG 023	BFMM 002	BFNH 005	
03U112	14-Mar-95	F46																18.50	<12.10	22.10	
03U112 (5)	14-Mar-95																	DRS 009	DRR 013	DSD 006	
03U112	25-Jun-96	A51															<5.00	2600.00	<50.00	24.30	
03U112 (5)	25-Jun-96																AXSG 007	AXXB 007	AXSU 003	AXSA 008	
03U121	22-Mar-95	F46																3.36	<12.10	26.10	
03U121 (5)	22-Mar-95																	DRZ 009	DRY 009	DSD 008	
03U121	25-Jun-96	A51															<5.00	550.00	<50.00	27.50	
03U121 (5)	25-Jun-96																AXSG 006	AXXB 006	AXSU 002	AXSA 007	
520931	06-Dec-94	A45		<3.00																	
520931 (5)	06-Dec-94			ESY 002																	
520931	07-Mar-95	A46		<4.00																	
520931 (5)	07-Mar-95			EZC 005																	

C.4 Groundwater Quality Data (PCBs)

Notes:

(1) Qtr = Quarter. Under this heading, A = Alliant Techsystems Inc. Data is presented for the past three fiscal years, with the fiscal year being October 1 through September 30.

Flagging Codes
Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.

Data Qualifiers
Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

APPENDIX C.4
Groundwater Quality Data (PCBs) - ug/l

Location (1)	Sample Lab #	Field Blank Lab #	Date			Qtr (2)	Lot #	PCB016	PCB242	PCB248	PCB254	PCB260
01U636	96U01811		13-Jun-96	CR	UB	A51	AXOF 003	<0.39	<0.39	<0.39	<0.18	<0.18
01U640	96U01812		13-Jun-96	CR	UB	A51	AXOF 004	<0.39	<0.39	<0.39	<0.18	<0.18
01U640	97U03012		30-Jun-97	CR	UB	A55	BFYQ 003	N <0.39	(T) <0.10	(T) <0.10	(T) <0.10	N <0.18

APPENDIX D

Appendix D

IRDMIS Information

D.1 Chemical Analysis Categories

USAEC 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-Trichlorethane	112TCE
1,1,2-Trichlorotrifluoroethane	TCLTFE
1,2-Dichloroethylene	12DCE
1,2-Dichloroethane	12DCLE
1,2-Dichloropropane	12DCLP

For Sites I and K, 1,2-Dichloroethylene (12DCE) is replaced by cis-1,2-Dichloroethylene (C12DCE) and trans-1,2-Dichloroethylene (T12DCE)

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

USAEC CHEMICAL ANALYSIS CATEGORIES
(continued)

CATEGORY 4	
Cyanide	CYN
Nitrate/Nitrite	NIT
Orthophosphate	PO4ORT
Total Phosphates	TPO4
CATEGORY 5	
Dibutylchlorenadate	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
CATEGORY 10	
Miscellaneous, Non-Specific	

D.2 Flagging Codes

ELEMENT IS USED IN THE FOLLOWING IR RECORDS AND DATA BASE TABLES:

IRDMIS Record		IRDMIS Data Base	
Record Type	Column(s)	DB Table(s)	DB Column
*	132	chem/cqc	flag_codes
	133		
	134		
	135		
	136		
	137		
	138		
	139		
		flag_quals_desc	f_q_code

* Any valid chemical or radiological record type

ELEMENT SIZE AND CHARACTERISTICS:

IRDMIS Record: 1 upper-case alphabetical character, full field (as many as 8 per record)
IRDMIS Data Base: chem/cqc: as many as 8 Flagging Codes per record
flag_quals_desc: 1 Flagging Code per record

ELEMENT DESCRIPTION:

Code assigned by the **Laboratory** to indicate other-than-usual analytical conditions or results.

ACCEPTABLE CRITERIA:

NOTE: **Flagging Codes marked with * were changed effective 1 February 1993! Flagging Codes marked with ** were changed effective with the introduction of Version 5.2 of the IRDMIS Data Entry and Validation Subsystem (PC IRDMIS) software!**

* A Analyte found in trip blank as well as in field samples . The analyte was detected in the field sample and the trip blank for the same cooler. To be used for volatiles only.

B Analyte found in the method blank or QC blank as well as the sample. This Code is to be used when an analyte was detected and quantitated at higher than normal background levels. For metals in soil, the following rules must be followed:

(1) If the analyte is detected in the method blank, both the field and QC samples are to be flagged.

(2) If the analyte is detected in the QC blank, only the QC samples are to be flagged.

C Analysis was confirmed. This Code is to be used when a confirmation analysis bears out the reported result (if it is above the CRL or MDL). The confirmation analysis must use a different column or analytical technique.

D Duplicate analysis. This Code is used to distinguish analytical results when duplicate analyses are required. Flag only the second (duplicate) sample.

ACCEPTABLE CRITERIA: (CONT.)

	E	**No longer in use.**
	F	Sample filtered prior to analysis. This Code is to be used when results of filtered samples are to be differentiated from non-filtered samples. This Code is also to be used when filtering of samples (as a first step in the sample preparation) is a deviation from the approved method SOP. This Code may be used to indicate both field and laboratory filtering. It is not to be used when filtering the extract is the normal procedure.
*	G	Analyte found in rinse blank as well as field sample. The analyte was detected in the field sample as well as that day's rinse blank for the same equipment type.
**	H	**No longer in use after introduction of Version 5.2 of PC IRDMIS.**
*	I	Interferences in sample cause the quantitation and/or identification to be suspect. This Code is to be used when matrix interferences may mask detection of the target analyte. Must always be used with Flagging Code J.
* **	J	Value is estimated because of one of the following conditions: Interferences in the sample (use Flagging Codes J and I) **or** The value is below the method detection level but above the instrumental detection level (use Flagging Codes J and P) **or** The value is above the upper reporting level of the method (use Flagging Codes J and X). This Code must always be used with Flagging Code I, P, or X. Both the J and I and the J and X combinations may be used both for methods demonstrated under the 1990 QA Program and for methods validated under the 1993 QA Guidelines. The J and P combination is only to be used for methods validated under the 1993 QA Guidelines.
*	K	Reported results affected by interferences or high background. This Code is to be used when analyte levels at or near the CRL or MDL cannot be accurately quantified down to the CRL/MDL due to interferences. This Code will allow a laboratory to input a higher CRL/MDL, rather than defaulting to the Methods data base. **(Formerly Flagging Code G)**
* **	L	**No longer in use after introduction of Version 5.2 of PC IRDMIS.**
**	M	**No longer in use after introduction of Version 5.2 of PC IRDMIS.**
*	N	Tentatively identified compound (result of a GC/MS library search) with a match greater than 70%. To be used when specified in the contract/task order.

ACCEPTABLE CRITERIA: (CONT.)

*	O	**No longer in use.**
*	P	Value is less than the method reporting level but greater than the instrumental detection limit. This Code must always be used with J. This Code is only to be used for methods validated under the 1993 QA Guidelines.
*	Q	Confirmatory analysis was performed; however, sample interference obscured the area where the peak of interest would have appeared. To be used when the peak of interest fell within the retention-time window on the primary column, but the retention-time window on the secondary column was masked by interferences.
	R	Non-target compound analyzed for but not detected (must be used with a Boolean of ND). This Code is used only for those analytes (in GC/MS methods) which were not performance demonstrated or validated. To be used when specified in the contract/task order.
	S	Non target compound analyzed for and detected. This Code is used only for those analytes (in GC/MS methods) which were not performance demonstrated or validated. Also used to report tentatively identified compounds which are quantitated against an internal standard. To be used when specified in the contract/task order.
	T	Non-target compound analyzed for but not detected (must be used with a Boolean of ND). This Code is used only for those analytes (in non-GC/MS methods) which were not performance demonstrated or validated.
	U	Analysis is unconfirmed. This Code is to be used when a confirmatory analysis was performed but does not verify the analytical results from the initial analysis.
	V	Sample was subjected to unusual storage/preservation condition. To be used when samples are received at the laboratory at greater than 4° C, or were not correctly preserved in the field.
	W	Single analyte required from a multi-analyte method. This Code is to be used when field samples are to be analyzed for a subset of the demonstrated/validated analytes.
**	X	Analyte concentration is above the upper reporting level. This Flagging Code is to be used when analyte concentrations exceed the upper reporting level and the laboratory feels that additional dilutions are not warranted. This Code is also to be used when no sample or extract remains to make additional dilutions. It must also be used whenever a Boolean of GT is used.
*	Y	Tentatively identified compound (result of a GC/MS library search) with a match of less than 70%, but peak area is greater than 35% of the internal standard. To be used when specified in the contract/task order.

ACCEPTABLE CRITERIA: (CONT.)

*	Z	Non-target compound analyzed for and detected. This Code is used only for those analytes (in non-GC/MS methods) which were not performance demonstrated or validated.
*	1	Result less than the CRL but greater than the Criteria of Detection (COD). Can only be used for methods which were performance demonstrated under the 1990 QA Program.
*	2	Ending calibration not within acceptable limits. This Code is to be used for an analyte for which the ending calibration is still unacceptable after multiple attempts.
*	3	Internal standard(s) nor within acceptable limits.
* **	4	Analyte quantitated on the secondary column, when this is not the normal practice.
* **	7	**No longer in use after introduction of Version 5.2 of PC IRDMIS.**
**	8	Analyte recovery outside of certified range but within acceptable limits. This Flagging Code is to be used when analyte recoveries exceed the upper limit of the certified range by less than 15% and the laboratory feels a dilution is not warranted. **No longer in use after introduction of Version 5.2 of PC IRDMIS (formerly Flagging Code X).**
**	9	Non-demonstrated/validated method performed for USAEC. This Code is to be used to identify Method 00 or NTAM data which was produced under contract to USAEC.

ACCEPTABLE ENTRIES:

A	Analyte found in trip blank as well as in field samples.
B	Analyte found in the method blank or QC blank as well as the sample.
C	Analysis was confirmed.
D	Duplicate analysis.
F	Sample filtered prior to analysis.
G	Analyte found in rinse blank as well as field sample.
I	Interferences in sample make quantitation and/or identification to be suspect.
J	Value is estimated.
K	Reported results are affected by interferences or high background.
N	Tentatively identified compound (match greater than 70%).
P	Results less than reporting level but greater than instrumental detection limit.
Q	Sample interference obscured peak of interest.
R	Non-target compound analyzed for but not detected (GC/MS methods).
S	Non-target compound analyzed for and detected (GC/MS methods).
T	Non-target compound analyzed for but not detected (non-GC/MS methods).
U	Analysis is unconfirmed.
V	Sample subjected to unusual storage/preservation conditions.

ACCEPTABLE ENTRIES: (CONT.)

W	Single analyte required from a multi-analyte method.
X	Analyte concentration is above the upper reporting level.
Y	Tentatively identified compound (match less than 70%).
Z	Non-target compound analyzed for and detected (non-GC/MS methods).
1	Result less than CRL but greater than COD.
2	Ending calibration not within acceptable limits.
3	Internal standard(s) not within acceptable limits.
4	Analyte quantitated on the secondary column.
9	Non-demonstrated/validated method performed for USAEC.

D.3 Data Qualifiers

ELEMENT IS USED IN THE FOLLOWING IR RECORDS AND DATA BASE TABLES:

IRDMIS Record		IRDMIS Data Base	
Record Type	Column(s)	DB Table(s)	DB Column
*	140	chem/cqc	data_quals
	141		
	142		
	143		
	144		
	145		
	146		
	147		
		flag_quals_desc	f_q_code

* Any valid chemical or radiological record type

ELEMENT SIZE AND CHARACTERISTICS:

IRDMIS Record: 1 upper-case alphabetical character, full field (as many as 8 per record)
IRDMIS Data Base: chem/cqc: as many as 8 Data Qualifiers per record
flag_quals_desc: 1 Data Qualifier per record

ELEMENT DESCRIPTION:

Code assigned only by the USAEC Chemist to indicate data acceptance or rejection based on other-than-usual analytical conditions or results.

ACCEPTABLE CRITERIA:

? Control chart either not received or not yet approved by USAEC. This Qualifier is automatically set when a lot file has been loaded but the corresponding control chart has not been approved.

I The low-spike recovery is high. To be used for the single low spike in Class 1 methods and the duplicate low spikes in Class 1P.

J The low-spike recovery is low. To be used for the single low spike in Class 1 methods and the duplicate low spikes in Class 1P.

K Missed holding times for extraction and preparation (Hold Time 1). This Qualifier is automatically set when the extraction/preparation holding time is exceeded. **(Formerly Flagging Code K)**

L Missed holding time for sample analysis (Hold Time or Hold Time 2). This Qualifier is automatically set when the analytical holding time is exceeded. **(Formerly Flagging Code L)**

M The high-spike recovery is high. To be used for the duplicate high spikes in Class 1 and 1P methods. Also to be used for the single spike in Class 1A and 1B methods and for the duplicate spikes in Class 1M methods.

ACCEPTABLE CRITERIA: (CONT.)

N The high-spike recovery is low. To be used for the duplicate high spikes in Class 1 and 1P methods. Also to be used for the single spike in Class 1A and 1B methods and for the duplicate spikes in Class 1M methods.

O Low spike recoveries excessively different. To be used only for the duplicate low spikes in Class 1P methods.

P High spike recoveries excessively different. To be used for the duplicate high spikes in Class 1 and 1P methods. Also to be used for the duplicate spikes in Class 1M methods.

Q Surrogate(s) in field sample outside of acceptable limits as specified by EPA CLP. To be followed by number of surrogates failing criteria (1 - 9). To be used only for field samples. **(Formerly Flagging Code Q)**

R Data is rejected and is not usable.

ACCEPTABLE ENTRIES:

?	Control chart not yet approved by USAEC.
1-9	Number of surrogates failing EPA CLP criteria (used with Data Qualifier Q)
I	The low-spike recovery is high.
J	The low-spike recovery is low.
K	Missed holding time for extraction and preparation.
L	Missed holding time for sample analysis.
M	The high-spike recovery is high.
N	The high-spike recovery is low.
O	Low spike recoveries excessively different.
P	High spike recoveries excessively different.
Q	Surrogate recovery outside of acceptable CLP limits (field samples only).
R	Data is rejected.

APPENDIX E

Appendix E

FY 1997 Groundwater and Surface Water QA/QC Data

E.1 Organics QA/QC Data

Notes:

(1) For complete spelling of chemical abbreviations, refer to Appendix D.1.

(2) Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.
Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

(3) Under QC Type

F	=	Field Blank
N	=	Natural-Matrix Spike
R	=	Rinse Blank
T	=	Trip Blank
D	=	Duplicate

APPENDIX E.1
Organics QA/QC (ug/l)

Site ID	QC Type	Lab	IRDMIS Lot #	Lab #	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE	C6H6	MEC6H5	XYLEN	OILGR	TOC
20100	F	UB	AZPR 009	96U04416	02-Oct-96 Data																				<100.00	
20100	F	UB	AZPR 009	96U04416	02-Oct-96 Spike																				0.00	
20700	F	UB	BAFB 009	96U05116	06-Nov-96 Data																					
20700	F	UB	BAFB 009	96U05116	06-Nov-96 Spike																				<100.00	
																									0.00	
20700	F	UB	BAQK 010	96U05559	05-Dec-96 Data																					
20700	F	UB	BAQK 010	96U05559	05-Dec-96 Spike																				<100.00	
																									0.00	
20700	F	UB	BATE 018	96U05559	05-Dec-96 Data	<1.00		<1.00	<1.00							(JP) 0.39					<1.00					
20700	F	UB	BATE 018	96U05559	05-Dec-96 Spike	0.00		0.00	0.00							0.00					0.00					
20700	F	UB	BATG 010	96U05559	05-Dec-96 Data																					
20700	F	UB	BATG 010	96U05559	05-Dec-96 Spike																					(JP) 300.00
																										0.00
04U806	F	UB	BAUY 006	96U05879	11-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
04U806	F	UB	BAUY 006	96U05879	11-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
01U116	F	UB	BAVQ 016	96U05911	11-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
01U116	F	UB	BAVQ 016	96U05911	11-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
04U871	F	UB	BAZT 010	96U06216	13-Dec-96 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	(JP) 0.40	<1.00	<1.00			(JP) 0.53					
04U871	F	UB	BAZT 010	96U06216	13-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					
04U881	F	UB	BAZT 014	96U06220	16-Dec-96 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00					
04U881	F	UB	BAZT 014	96U06220	16-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					
20700	F	UB	BBCY 008	97U00080	08-Jan-97 Data																					
20700	F	UB	BBCY 008	97U00080	08-Jan-97 Spike																				<100.00	
																									0.00	
20100	F	UB	BBMF 008	97U00331	06-Feb-97 Data																					
20100	F	UB	BBMF 008	97U00331	06-Feb-97 Spike																				<100.00	
																									0.00	
21000	F	UB	BBVY 009	97U00410	04-Mar-97 Data																					
21000	F	UB	BBVY 009	97U00410	04-Mar-97 Spike																					<1000.00
																										0.00
21000	F	UB	BCDZ 009	97U00410	04-Mar-97 Data																					
21000	F	UB	BCDZ 009	97U00410	04-Mar-97 Spike																				<100.00	
																									0.00	
01U358	F	UB	BBXV 024	97U00538	05-Mar-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
01U358	F	UB	BBXV 024	97U00538	05-Mar-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
21000	F	UB	BBZG 003	97U00607	07-Mar-97 Data	<1.00		<1.00	<1.00							<1.00										
21000	F	UB	BBZG 003	97U00607	07-Mar-97 Spike	0.00		0.00	0.00							0.00										
20100	F	UB	BCYN 010	97U01009	03-Apr-97 Data																					
20100	F	UB	BCYN 010	97U01009	03-Apr-97 Spike																				(JP) <100.00	
																									0.00	
20700	F	UB	BDQW 009	97U01426	07-May-97 Data																					
20700	F	UB	BDQW 009	97U01426	07-May-97 Spike																				(V) <100.00	
																									0.00	
01U611	F	UB	BFJV 017	97U01817	03-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00					
01U611	F	UB	BFJV 017	97U01817	03-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
20700	F	UB	BFFL 013	97U01872	05-Jun-97 Data																					
20700	F	UB	BFFL 013	97U01872	05-Jun-97 Spike																				<100.00	
																									0.00	
20700	F	UB	BFHT 013	97U01872	05-Jun-97 Data																					
20700	F	UB	BFHT 013	97U01872	05-Jun-97 Spike																					(JP) 956.00
																										0.00
20700	F	UB	BFHV 016	97U01872	05-Jun-97 Data	<1.00		<1.00	<1.00							<1.00					<1.00					
20700	F	UB	BFHV 016	97U01872	05-Jun-97 Spike	0.00		0.00	0.00							0.00					0.00					
04U003	F	UB	BFFT 026	97U01916	06-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
04U003	F	UB	BFFT 026	97U01916	06-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
03U317	F	UB	BFFW 010	97U01950	09-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
03U317	F	UB	BFFW 010	97U01950	09-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
04U027	F	UB	BFFW 014	97U01954	10-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
04U027	F	UB	BFFW 014	97U01954	10-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
04U713	F	UB	BFKF 010	97U01973	10-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
04U713	F	UB	BFKF 010	97U01973	10-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
04J714	F	UB	BFKF 015	97U01978	11-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
04J714	F	UB	BFKF 015	97U01978	11-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
03U671	F	UB	BFKG 006	97U01987	11-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
03U671	F	UB	BFKG 006	97U01987	11-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					

APPENDIX E.1
Organics QA/QC (ug/l)

Site ID	QC Type	Lab	IRDMIS Lot #	Lab #	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE	C6H6 MEC6H5 XYLEN	OIL.GR	TOC
03U020	F	UB	BFLB 008	97U02744	16-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62			
03U020	F	UB	BFLB 008	97U02744	16-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			
03L802	F	UB	BFLB 013	97U02749	16-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62			
03L802	F	UB	BFLB 013	97U02749	16-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			
01U116	F	UB	BFLD 006	97U02779	18-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62			
01U116	F	UB	BFLD 006	97U02779	18-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			
03U099	F	UB	BFRK 008	97U02824	23-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62			
03U099	F	UB	BFRK 008	97U02824	23-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			
03L841	F	UB	BFYM 014	97U02842	24-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
03L841	F	UB	BFYM 014	97U02842	24-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
03U803	F	UB	BFRL 015	97U02924	25-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62			
03U803	F	UB	BFRL 015	97U02924	25-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			
04U880	F	UB	BFSN 008	97U02957	26-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U880	F	UB	BFSN 008	97U02957	26-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
20100	F	UB	BFWN 010	97U03090	02-Jul-97 Data																		743.00	
20100	F	UB	BFWN 010	97U03090	02-Jul-97 Spike																		0.00	
20100	F	UB	BGJH 009	97U03370	06-Aug-97 Data																			
20100	F	UB	BGJH 009	97U03370	06-Aug-97 Spike																		660.00	
20900	F	UB	BGQX 013	97U03680	04-Sep-97 Data																		0.00	
20900	F	UB	BGQX 013	97U03680	04-Sep-97 Spike																		404.00	
20900	F	UB	BGRR 013	97U03680	04-Sep-97 Data																		0.00	
20900	F	UB	BGRR 013	97U03680	04-Sep-97 Spike																			(JP) 385.00
20900	F	UB	BGVW 018	97U03680	04-Sep-97 Data	<1.00	<1.00	<1.00	<1.00							<1.00					<1.00			0.00
20900	F	UB	BGVW 018	97U03680	04-Sep-97 Spike	0.00	0.00	0.00	0.00							0.00					0.00			
MW151I	D N	UB	BAQE 013	96U5591M	04-Dec-96 Data	7.80	<0.78	8.70	<0.73	<0.76	<1.10	(T) <1.00		9.80	<0.99	<7.40	8.00		9.50	(T) <1.00	9.00			
MW151I	D N	UB	BAQE 013	96U5591M	04-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
MW151I	N	UB	BAQE 012	96U5591S	04-Dec-96 Data	8.10	<0.78	9.00	<0.73	<0.76	<1.10	(T) <1.00		9.00	<0.99	<7.40	8.30		9.60	(T) <1.00	9.10			
MW151I	N	UB	BAQE 012	96U5591S	04-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03L802	D N	UB	BASG 020	96U5761M	10-Dec-96 Data	7.30	<0.78	8.50	<0.73	<0.76	<1.10	(T) <1.00		8.90	<0.99	<7.40	7.60		8.10	(T) <1.00	20.00			
03L802	D N	UB	BASG 020	96U5761M	10-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03L802	N	UB	BASG 019	96U5761S	10-Dec-96 Data	7.50	<0.78	8.70	<0.73	<0.76	<1.10	(T) <1.00		9.50	<0.99	<7.40	7.70		8.20	(T) <1.00	20.00			
03L802	N	UB	BASG 019	96U5761S	10-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03F308	D N	UB	BAUY 026	96U5897M	11-Dec-96 Data	8.00	<0.78	7.00	<0.73	<0.76	<1.10	(T) <1.00		8.00	<0.99	<7.40	6.50		7.60	(T) <1.00	9.10			
03F308	D N	UB	BAUY 026	96U5897M	11-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03F308	N	UB	BAUY 025	96U5897S	11-Dec-96 Data	8.90	<0.78	6.70	<0.73	<0.76	<1.10	(T) <1.00		7.50	<0.99	<7.40	7.20		8.20	(T) <1.00	10.00			
03F308	N	UB	BAUY 025	96U5897S	11-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
01U140	D N	UB	BAVQ 028	96U5921M	12-Dec-96 Data	8.30	<0.78	8.40	<0.73	7.80	<1.10	(T) <1.00		7.30	<0.99	<7.40	9.20		8.00	(T) <1.00	8.80			
01U140	D N	UB	BAVQ 028	96U5921M	12-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
01U140	N	UB	BAVQ 027	96U5921S	12-Dec-96 Data	8.50	<0.78	8.60	<0.73	7.70	<1.10	(T) <1.00		8.10	<0.99	<7.40	9.30		8.20	(T) <1.00	9.10			
01U140	N	UB	BAVQ 027	96U5921S	12-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
04J882	D N	UB	BAYQ 006	96U5928M	12-Dec-96 Data	<1.00	<1.00	8.70	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			9.50			
04J882	D N	UB	BAYQ 006	96U5928M	12-Dec-96 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
04J882	N	UB	BAYQ 005	96U5928S	12-Dec-96 Data	<1.00	<1.00	9.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			9.60			
04J882	N	UB	BAYQ 005	96U5928S	12-Dec-96 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
04J834	D N	UB	BAZT 005	96U6211M	13-Dec-96 Data	<1.00	<1.00	9.60	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			12.00			
04J834	D N	UB	BAZT 005	96U6211M	13-Dec-96 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
04J834	N	UB	BAZT 004	96U6211S	13-Dec-96 Data	<1.00	<1.00	9.50	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			12.00			
04J834	N	UB	BAZT 004	96U6211S	13-Dec-96 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
206793	D N	UB	BAZX 005	96U6269M	17-Dec-96 Data	<1.00	<1.00	19.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			(XJ) 130.00			
206793	D N	UB	BAZX 005	96U6269M	17-Dec-96 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
206793	N	UB	BAZX 004	96U6269S	17-Dec-96 Data	<1.00	<1.00	18.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			(XJ) 120.00			
206793	N	UB	BAZX 004	96U6269S	17-Dec-96 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
206792	D N	UB	BAWV 007	96U6270M	17-Dec-96 Data	41.00	<0.78	28.00	8.30	<0.76	<1.10	(T) <1.00		8.00	<0.99	<7.40	7.10		7.60	(T) <1.00	(XJ) 240.00			
206792	D N	UB	BAWV 007	96U6270M	17-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			

APPENDIX E.1
Organics QA/QC (ug/l)

Site ID	QC Type	Lab	IRDMIS Lot #	Lab #	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE	C6H6 MEC6H5 XYLEN	OILGR	TOC
206792	N	UB	BAWV 006	96U6270S	17-Dec-96 Data	41.00	<0.78	29.00	8.30	<0.76	<1.10	(T) <1.00		8.40	<0.99	<7.40	7.30		8.00	(T) <1.00	(JX) 230.00			
206792	N	UB	BAWV 006	96U6270S	17-Dec-96 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
554216 D	N	UB	BBDX 005	97U0001M	31-Dec-96 Data	(V) <1.00	(V) <1.00	(V) 24.00	(V) <1.00		(V) <1.00		(V) <1.00	(V) <1.00	(V) <1.00	(V) <1.00	(V) <1.00	(V) <1.00			(XJV) 250.00			
554216 D	N	UB	BBDX 005	97U0001M	31-Dec-96 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
554216	N	UB	BBDX 004	97U0001S	31-Dec-96 Data	(V) <1.00	(V) <1.00	(V) 24.00	(V) <1.00		(V) <1.00		(V) <1.00	(V) <1.00	(V) <1.00	(V) <1.00	(V) <1.00	(V) <1.00			(XJV) 250.00			
554216	N	UB	BBDX 004	97U0001S	31-Dec-96 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
01U352 D	N	UB	BBXV 016	97U0530M	05-Mar-97 Data	6.99	<0.78	6.33	<0.73	20.90	<1.10	(T) <1.00		5.83	<0.99	<7.40	8.56		9.37	(T) <1.00	13.30			
01U352 D	N	UB	BBXV 016	97U0530M	05-Mar-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
01U352	N	UB	BBXV 015	97U0530S	05-Mar-97 Data	6.67	<0.78	5.99	<0.73	19.60	<1.10	(T) <1.00		6.24	<0.99	<7.40	7.15		8.98	(T) <1.00	12.10			
01U352	N	UB	BBXV 015	97U0530S	05-Mar-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
554216 D	N	UB	BCRQ 005	97U0643M	17-Mar-97 Data	<1.00	<1.00	25.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			(XJ) 220.00			
554216 D	N	UB	BCRQ 005	97U0643M	17-Mar-97 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
554216	N	UB	BCRQ 004	97U0643S	17-Mar-97 Data	<1.00	<1.00	26.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			(XJ) 210.00			
554216	N	UB	BCRQ 004	97U0643S	17-Mar-97 Spike	10.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00			
01U617 D	N	UB	BFJV 015	97U1815M	03-Jun-97 Data	<1.00	<1.00	9.90	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	9.90			
01U617 D	N	UB	BFJV 015	97U1815M	03-Jun-97 Spike	0.00	0.00	10.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00			
01U617	N	UB	BFJV 014	97U1815S	03-Jun-97 Data	<1.00	<1.00	10.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	10.00			
01U617	N	UB	BFJV 014	97U1815S	03-Jun-97 Spike	0.00	0.00	10.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00			
03L832 D	N	UB	BFKS 005	97U1861M	04-Jun-97 Data	<5.00	<5.00	9.10	<5.00		<5.00		<5.00	<10.00	<5.00	<5.00	<5.00	<5.00			8.70			
03L832 D	N	UB	BFKS 005	97U1861M	04-Jun-97 Spike	0.00	0.00	50.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			50.00			
03L832	N	UB	BFKS 004	97U1861S	04-Jun-97 Data	<5.00	<5.00	10.00	<5.00		<5.00		<5.00	<10.00	<5.00	<5.00	<5.00	<5.00			9.80			
03L832	N	UB	BFKS 004	97U1861S	04-Jun-97 Spike	0.00	0.00	50.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			50.00			
21000 D	N	UB	BFHV 005	97U1861M	05-Jun-97 Data	<1.00		9.90	<1.00							<1.00					10.00			
21000 D	N	UB	BFHV 005	97U1861M	05-Jun-97 Spike	0.00		10.00	0.00							0.00					10.00			
21000	N	UB	BFHV 004	97U1861S	05-Jun-97 Data	<1.00		10.00	<1.00							<1.00					9.60			
21000	N	UB	BFHV 004	97U1861S	05-Jun-97 Spike	0.00		10.00	0.00							0.00					10.00			
04U860 D	N	UB	BFFQ 013	97U1884M	05-Jun-97 Data	7.70	<0.78	8.40	<0.73	<0.76	<1.10	(T) <1.00		7.70	<0.99	<7.40	7.40		7.00	(T) <1.00	7.10			
04U860 D	N	UB	BFFQ 013	97U1884M	05-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
04U860	N	UB	BFFQ 012	97U1884S	05-Jun-97 Data	7.90	<0.78	8.10	<0.73	<0.76	<1.10	(T) <1.00		7.30	<0.99	<7.40	7.60		6.90	(T) <1.00	7.00			
04U860	N	UB	BFFQ 012	97U1884S	05-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03U706 D	N	UB	BFFT 012	97U1904M	06-Jun-97 Data	8.70	<0.78	9.50	<0.73	<0.76	<1.10	(T) <1.00		7.80	<0.99	<7.40	8.30		8.40	(T) <1.00	8.40			
03U706 D	N	UB	BFFT 012	97U1904M	06-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03U706	N	UB	BFFT 011	97U1904S	06-Jun-97 Data	7.40	<0.78	8.80	<0.73	<0.76	<1.10	(T) <1.00		7.80	<0.99	<7.40	7.20		7.60	(T) <1.00	7.40			
03U706	N	UB	BFFT 011	97U1904S	06-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03U003 D	N	UB	BFFT 024	97U1914M	06-Jun-97 Data	39.00	<0.78	13.00	4.80	10.00	<1.10	(T) <1.00		9.70	<0.99	<7.40	10.00		9.40	(T) <1.00	190.00			
03U003 D	N	UB	BFFT 024	97U1914M	06-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03U003	N	UB	BFFT 023	97U1914S	06-Jun-97 Data	40.00	<0.78	12.00	4.90	9.90	<1.10	(T) <1.00		9.40	<0.99	<7.40	9.90		9.40	(T) <1.00	190.00			
03U003	N	UB	BFFT 023	97U1914S	06-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
PJ#311 D	N	UB	BFFV 021	97U1941M	09-Jun-97 Data	9.90	<0.78	7.00	<0.73	<0.76	<1.10	(T) <1.00		8.70	<0.99	<7.40	8.00		7.60	(T) <1.00	15.00			
PJ#311 D	N	UB	BFFV 021	97U1941M	09-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
PJ#311	N	UB	BFFV 020	97U1941S	09-Jun-97 Data	9.30	<0.78	7.10	<0.73	<0.76	<1.10	(T) <1.00		8.30	<0.99	<7.40	8.10		8.00	(T) <1.00	16.00			
PJ#311	N	UB	BFFV 020	97U1941S	09-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
04J714 D	N	UB	BFKF 018	97U1979M	11-Jun-97 Data	8.10	<0.78	6.80	<0.73	<0.76	<1.10	(T) <1.00		7.40	<0.99	<7.40	7.40		7.50	(T) <1.00	7.90			
04J714 D	N	UB	BFKF 018	97U1979M	11-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
04J714	N	UB	BFKF 017	97U1979S	11-Jun-97 Data	8.10	<0.78	9.30	<0.73	<0.76	<1.10	(T) <1.00		7.10	<0.99	<7.40	8.00		7.70	(T) <1.00	8.00			
04J714	N	UB	BFKF 017	97U1979S	11-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03U114 D	N	UB	BFKG 013	97U1992M	12-Jun-97 Data	12.00	<0.78	9.00	<0.73	<0.76	<1.10	(T) <1.00		7.10	<0.99	<7.40	9.20		8.40	(T) <1.00	14.00			
03U114 D	N	UB	BFKG 013	97U1992M	12-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
03U114	N	UB	BFKG 012	97U1992S	12-Jun-97 Data	11.00	<0.78	9.20	<0.73	<0.76	<1.10	(T) <1.00		6.90	<0.99	<7.40	9.90		8.10	(T) <1.00	13.00			
03U114	N	UB	BFKG 012	97U1992S	12-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
01U106 D	N	UB	BFLC 021	97U2774M	18-Jun-97 Data	7.80	<0.78	8.00	<0.73	<0.76	<1.10	(T) <1.00		7.50	<0.99	<7.40	7.30		6.90	(T) <1.00	6.50			
01U106 D	N	UB	BFLC 021	97U2774M	18-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			
01U106	N	UB	BFLC 020	97U2774S	18-Jun-97 Data	7.40	<0.78	7.40	<0.73	<0.76	<1.10	(T) <1.00		6.10	<0.99	<7.40	6.70		6.30	(T) <1.00	6.30			
01U106	N	UB	BFLC 020	97U2774S	18-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00			

APPENDIX E.1
Organics QA/QC (ug/l)

Site ID	QC Type	Lab	IRDMIS Lot #	Lab #	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTTE	TRCLE	C6H6 MEC6H5	XYLEN	OILGR	TOC
04U872	D N	UB	BFSN 005	97U2798M	19-Jun-97 Data	11.00	<1.00	16.00	4.80		<1.00		(JP) 0.89	<1.00	<1.00	<1.00	<1.00	<1.00			(X) >40.00				
04U872	D N	UB	BFSN 005	97U2798M	19-Jun-97 Spike	0.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			10.00				
04U872	N	UB	BFSN 004	97U2798S	19-Jun-97 Data	11.00	<1.00	16.00	4.60		<1.00		(JP) 0.84	<1.00	<1.00	<1.00	<1.00	<1.00			(X) >40.00				
04U872	N	UB	BFSN 004	97U2798S	19-Jun-97 Spike	0.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			10.00				
04U007	D N	UB	BFLG 017	97U2813M	20-Jun-97 Data	7.60	<0.78	8.30	<0.73	<0.76	<1.10	(T) <1.00		6.10	<0.99	<7.40	7.50		7.90	(T) <1.00	7.50				
04U007	D N	UB	BFLG 017	97U2813M	20-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00				
04U007	N	UB	BFLG 016	97U2813S	20-Jun-97 Data	7.80	<0.78	7.60	<0.73	<0.76	<1.10	(T) <1.00		5.30	<0.99	<7.40	7.60		7.50	(T) <1.00	7.00				
04U007	N	UB	BFLG 016	97U2813S	20-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00				
03U097	D N	UB	BFRK 013	97U2827M	23-Jun-97 Data	7.50	<0.78	9.70	<0.73	<0.76	<1.10	(T) <1.00		8.40	<0.99	<7.40	7.00		7.40	(T) <1.00	7.00				
03U097	D N	UB	BFRK 013	97U2827M	23-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00				
03U097	N	UB	BFRK 012	97U2827S	23-Jun-97 Data	7.50	<0.78	8.80	<0.73	<0.76	<1.10	(T) <1.00		8.20	<0.99	<7.40	6.90		7.30	(T) <1.00	7.00				
03U097	N	UB	BFRK 012	97U2827S	23-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00				
206793	D N	UB	BFYN 007	97U2850M	24-Jun-97 Data	4.70	<1.00	12.00	1.40		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			(XJ) 42.00				
206793	D N	UB	BFYN 007	97U2850M	24-Jun-97 Spike	0.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			10.00				
206793	N	UB	BFYN 006	97U2850S	24-Jun-97 Data	4.70	<1.00	12.00	1.40		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			(XJ) 42.00				
206793	N	UB	BFYN 006	97U2850S	24-Jun-97 Spike	0.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			10.00				
03L856	D N	UB	BFYX 010	97U2902M	25-Jun-97 Data	<1.00	<1.00	8.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			7.70				
03L856	D N	UB	BFYX 010	97U2902M	25-Jun-97 Spike	0.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			10.00				
03L856	N	UB	BFYX 009	97U2902S	25-Jun-97 Data	<1.00	<1.00	9.30	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			9.30				
03L856	N	UB	BFYX 009	97U2902S	25-Jun-97 Spike	0.00	0.00	10.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			10.00				
03M848	D N	UB	BFRL 018	97U2925M	26-Jun-97 Data	10.00	<0.78	13.00	6.10	53.00	<1.10	(T) <1.00		<1.01	<0.99	<7.40	9.60		7.10	(T) <1.00	540.00				
03M848	D N	UB	BFRL 018	97U2925M	26-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00				
03M848	N	UB	BFRL 017	97U2925S	26-Jun-97 Data	10.00	<0.78	12.00	6.20	53.00	<1.10	(T) <1.00		<1.01	<0.99	<7.40	11.00		6.60	(T) <1.00	540.00				
03M848	N	UB	BFRL 017	97U2925S	26-Jun-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00				
01U354	D N	UB	BGRK 011	97U3691M	03-Sep-97 Data	7.54	<0.78	8.01	<0.73	0.95	<1.10	(T) <1.00		7.08	<0.99	<7.40	6.90		6.45	(T) <1.00	6.58				
01U354	D N	UB	BGRK 011	97U3691M	03-Sep-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00				
01U354	N	UB	BGRK 010	97U3691S	03-Sep-97 Data	7.77	<0.78	8.12	<0.73	0.98	<1.10	(T) <1.00		6.84	<0.99	<7.40	7.29		6.63	(T) <1.00	6.92				
01U354	N	UB	BGRK 010	97U3691S	03-Sep-97 Spike	8.00	0.00	8.00	0.00	0.00	0.00	0.00		8.00	0.00	0.00	8.00		8.00	0.00	8.00				
01U617	R	UB	BAOP 010	96U05545	03-Dec-96 Data	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00				
01U617	R	UB	BAOP 010	96U05545	03-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
04U863	R	UB	BAQE 018	96U05596	04-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
04U863	R	UB	BAQE 018	96U05596	04-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				
03U672	R	UB	BASG 010	96U05753	09-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
03U672	R	UB	BASG 010	96U05753	09-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				
04U714	R	UB	BASG 016	96U05759	10-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
04U714	R	UB	BASG 016	96U05759	10-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				
01U157	R	UB	BAVQ 022	96U05917	11-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
01U157	R	UB	BAVQ 022	96U05917	11-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				
04U872	R	UB	BAZT 008	96U06214	13-Dec-96 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00				
04U872	R	UB	BAZT 008	96U06214	13-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00				
04U875	R	UB	BAZT 016	96U06222	16-Dec-96 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00				
04U875	R	UB	BAZT 016	96U06222	16-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00				
01U901	R	UB	BBXV 009	97U00525	05-Mar-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
01U901	R	UB	BBXV 009	97U00525	05-Mar-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				
01U619	R	UB	BFJV 007	97U01809	03-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00				
01U619	R	UB	BFJV 007	97U01809	03-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
04U832	R	UB	BFFK 017	97U01857	04-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
04U832	R	UB	BFFK 017	97U01857	04-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				
409547	R	UB	BFFQ 016	97U01887	05-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
409547	R	UB	BFFQ 016	97U01887	05-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				
04U845	R	UB	BFFQ 019	97U01890	05-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
04U845	R	UB	BFFQ 019	97U01890	05-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				
03L833	R	UB	BFFT 017	97U01909	05-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62				
03L833	R	UB	BFFT 017	97U01909	05-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00				

APPENDIX E.1
Organics QA/QC (ug/l)

Site ID	QC Type	Lab	IRDMIS Lot #	Lab #	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2H3CL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE	C6H6	MEC6H5	XYLEN	OILGR	TOC
03U017	R	UB	BFFV 006	97U01928	09-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
03U017	R	UB	BFFV 006	97U01928	09-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
03U014	R	UB	BFFW 021	97U01961	10-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	0.76					
03U014	R	UB	BFFW 021	97U01961	10-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
04J713	R	UB	BFKF 008	97U01971	10-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
04J713	R	UB	BFKF 008	97U01971	10-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
03U708	R	UB	BFKF 019	97U01980	11-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
03U708	R	UB	BFKF 019	97U01980	11-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
03U030	R	UB	BFKG 016	97U01995	12-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
03U030	R	UB	BFKG 016	97U01995	12-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
04U802	R	UB	BFLB 015	97U02751	16-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
04U802	R	UB	BFLB 015	97U02751	16-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
01U158	R	UB	BFLC 024	97U02777	18-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
01U158	R	UB	BFLC 024	97U02777	18-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
01U137	R	UB	BFLD 020	97U02793	19-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
01U137	R	UB	BFLD 020	97U02793	19-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
03L007	R	UB	BFLG 019	97U02815	20-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
03L007	R	UB	BFLG 019	97U02815	20-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
01U098	R	UB	BFRK 006	97U02822	23-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
01U098	R	UB	BFRK 006	97U02822	23-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
EI03MW	R	UB	BFRK 015	97U02829	23-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
EI03MW	R	UB	BFRK 015	97U02829	23-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
04U882	R	UB	BFYM 008	97U02836	24-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00					
04U882	R	UB	BFYM 008	97U02836	24-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					
409550	R	UB	BFYY 012	97U02922	24-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			2.50					
409550	R	UB	BFYY 012	97U02922	24-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					
03U815	R	UB	BFYX 007	97U02901	25-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00					
03U815	R	UB	BFYX 007	97U02901	25-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					
03U821	R	UB	BFYY 010	97U02918	26-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00					
03U821	R	UB	BFYY 010	97U02918	26-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					
01U904	R	UB	BGRK 020	97U03700	03-Sep-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
01U904	R	UB	BGRK 020	97U03700	03-Sep-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	AZTA 008	96U04524	11-Oct-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
	T	UB	AZTA 008	96U04524	11-Oct-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	BAHM 006	96U05141	11-Nov-96 Data					<0.82									<0.82		<0.62					
	T	UB	BAHM 006	96U05141	11-Nov-96 Spike					0.00									0.00		0.00					
	T	UB	BAIN 008	96U05145	11-Nov-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
	T	UB	BAIN 008	96U05145	11-Nov-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	BAIN 012	96U05149	11-Nov-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	0.62					
	T	UB	BAIN 012	96U05149	11-Nov-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	BAQF 006	96U05587	03-Dec-96 Data					<0.82									<0.82		<0.62					
	T	UB	BAQF 006	96U05587	03-Dec-96 Spike					0.00									0.00		0.00					
	T	UB	BATE 020	96U05566	05-Dec-96 Data	<1.00		<1.00	<1.00							1.70					<1.00					
	T	UB	BATE 020	96U05566	05-Dec-96 Spike	0.00		0.00	0.00							0.00					0.00					
	T	UB	BAQE 022	96U05600	05-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
	T	UB	BAQE 022	96U05600	05-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	BASG 021	96U05762	10-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
	T	UB	BASG 021	96U05762	10-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	BAUY 028	96U05899	11-Dec-96 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
	T	UB	BAUY 028	96U05899	11-Dec-96 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	BAYQ 008	96U05930	12-Dec-96 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	(JP) 0.99	<1.00	<1.00			(JP) 0.60					
	T	UB	BAYQ 008	96U05930	12-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					
	T	UB	BAZT 017	96U06223	16-Dec-96 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	3.60	<1.00	<1.00			<1.00					
	T	UB	BAZT 017	96U06223	16-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					

APPENDIX E.1
Organics QA/QC (ug/l)

Site ID	QC Type	Lab	IRDMIS Lot #	Lab #	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2HCL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE	C6H6	MECH5	XYLEN	OIL/GR	TOC
	T	UB	BAZX 007	96U06272	17-Dec-96 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	1.20	<1.00	<1.00			<1.00					
	T	UB	BAZX 007	96U06272	17-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0 00			0.00					
	T	UB	BBDX 006	97U00002	31-Dec-96 Data	(V) <1.00	(V) <1.00	(V) <1.00	(V) <1.00		(V) <1.00		(V) <1.00	(V) <1.00	(V) <1.00	(V) <1.00	(JPV) 1.00	(V) <1.00	(V) <1.00			(V) <1.00					
	T	UB	BBDX 006	97U00002	31-Dec-96 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00					
	T	UB	BBDR 009	97U00007	07-Jan-97 Data	<1.00		<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	1.30	<1.00	<1.00	<1.00			<1.00					
	T	UB	BBDR 009	97U00007	07-Jan-97 Spike	0.00		0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00					
	T	UB	BBCG 006	97U00066	07-Jan-97 Data					<0.82									<0.82			<0.62					
	T	UB	BBCG 006	97U00066	07-Jan-97 Spike					0.00									0.00			0.00					
	T	UB	BBCH 007	97U00069	07-Jan-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BBCH 007	97U00069	07-Jan-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BBCI 008	97U00073	07-Jan-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BBCI 008	97U00073	07-Jan-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BBND 008	97U00293	04-Feb-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BBND 008	97U00293	04-Feb-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BBXV 026	97U00565	07-Mar-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BBXV 026	97U00565	07-Mar-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BCPN 007	97U00958	01-Apr-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		P <0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BCPN 007	97U00958	01-Apr-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BCPP 008	97U00962	01-Apr-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BCPP 008	97U00962	01-Apr-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BCVN 006	97U01016	03-Apr-97 Data					<0.82									<0.82			<0.62					
	T	UB	BCVN 006	97U01016	03-Apr-97 Spike					0.00									0.00			0.00					
	T	UB	BFJV 019	97U01819	03-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	(BJP) 0.67	<1.00	<1.00	1.90	<1.00	<1.00	<1.00	<1.00	(BJP) 0.49					
	T	UB	BFJV 019	97U01819	03-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	T	UB	BFCT 004	97U01823	03-Jun-97 Data	<0.98	<0.93	<1.10	<1.10	<5.10	<1.00	<1.10		<14.00	<0.92	2.30	1.10		<0.93			<1.00	<0.78	<1.00	<2.00		
	T	UB	BFCT 004	97U01823	03-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00		
	T	UB	BFFK 020	97U01860	04-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFFK 020	97U01860	04-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFHV 021	97U01877	05-Jun-97 Data	<1.00		<1.00	<1.00							<1.00						<1.00					
	T	UB	BFHV 021	97U01877	05-Jun-97 Spike	0.00		0.00	0.00							0.00						0.00					
	T	UB	BFFT 027	97U01917	06-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFFT 027	97U01917	06-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFFW 027	97U01967	10-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFFW 027	97U01967	10-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFKG 021	97U02000	12-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFKG 021	97U02000	12-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFKG 022	97U02001	12-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFKG 022	97U02001	12-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFKW 013	97U02361	13-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFKW 013	97U02361	13-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFLB 019	97U02755	17-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFLB 019	97U02755	17-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFKW 017	97U02759	18-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFKW 017	97U02759	18-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFLC 025	97U02799	19-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFLC 025	97U02799	19-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFLG 024	97U02820	20-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFLG 024	97U02820	20-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFRK 017	97U02831	23-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	11.00	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFRK 017	97U02831	23-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFRL 011	97U02863	24-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFRL 011	97U02863	24-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					
	T	UB	BFRL 019	97U02926	26-Jun-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00		<0.62					
	T	UB	BFRL 019	97U02926	26-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00					

APPENDIX E.1
Organics QA/QC (ug/l)

Site ID	QC Type	Lab	IRDMS Lot #	Lab #	Sample Date	111TCE	112TCE	11DCE	11DCLE	12DCE	12DCLE	12DCLP	C12DCE	C2HDCL	CCL4	CH2CL2	CHCL3	T12DCE	TCLEE	TCLTFE	TRCLE	C6H6	MEC6H5	XYLEN	OILGR	TOC
	T	UB	BFSN 015	97U02964	27-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	7.90	<1.00	<1.00			<1.00					
	T	UB	BFSN 015	97U02964	27-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					
	T	UB	BFWH 005	97U03013	30-Jun-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	9.50	<1.00	<1.00	<1.00	<1.00	<1.00					
	T	UB	BFWH 005	97U03013	30-Jun-97 Spike	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	T	UB	BFXL 011	97U03077	01-Jul-97 Data					<0.82									<0.82		<0.62					
	T	UB	BFXL 011	97U03077	01-Jul-97 Spike					0.00									0.00		0.00					
	T	UB	BGQT 012	97U03668	02-Sep-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
	T	UB	BGQT 012	97U03668	02-Sep-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	BGVW 019	97U03685	04-Sep-97 Data	<1.00	<1.00	<1.00	<1.00							<1.00					<1.00					
	T	UB	BGVW 019	97U03685	04-Sep-97 Spike	0.00	0.00	0.00	0.00							0.00					0.00					
	T	UB	BGRK 021	97U03701	04-Sep-97 Data	<0.82	<0.91	<1.91	<0.82	<0.82	<1.34	(T) <1.00		<0.86	<1.09	<8.31	<0.57		<0.82	(T) <1.00	<0.62					
	T	UB	BGRK 021	97U03701	04-Sep-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00					
	T	UB	BGZT 006	97U03731	12-Sep-97 Data	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00					
	T	UB	BGZT 006	97U03731	12-Sep-97 Spike	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00			0.00					

E.2 Inorganics QA/QC Data

Notes:

(1) Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.
Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

(2) Under QC Type

F	=	Field Blank
N	=	Natural-Matrix Spike
S	=	Spike Blank
D	=	Duplicate

APPENDIX E.2
Inorganics QA/QC Data

Site ID	QC Typ	Lab	Sample Date	Lab Analysis Number		AG (ug/l)	CD (ug/l)	CR (ug/l)	CU (ug/l)	NI (ug/l)	PB (ug/l)	SB (ug/l)	TL (ug/l)	ZN (ug/l)	HG (ug/l)	CL (ug/l)	CYN (ug/l)
20100	F	UB	02-Oct-96	96U04416	Data											<100.00	
20100	F	UB	02-Oct-96	96U04416	Spike											0	
20100	F	UB	02-Oct-96	96U04416	Lot											AZIZ 009	
20700	F	UB	06-Nov-96	96U05116	Data											<200.00	
20700	F	UB	06-Nov-96	96U05116	Spike											0	
20700	F	UB	06-Nov-96	96U05116	Lot											BAAX 009	
20700	F	UB	05-Dec-96	96U05559	Data	<10.00	<5.00	<10.00	<20.00	<40.00				<20.00	<0.20 (F)	<100.00	<10.00
20700	F	UB	05-Dec-96	96U05559	Spike	0	0	0	0	0				0	0	0	0
20700	F	UB	05-Dec-96	96U05559	Lot	BAOE 008	BAOE 008	BAOE 008	BAOE 008	BAOE 008				BAOE 008	BARM 010	BANJ 010	BANU 010
20700	F	IP	05-Dec-96	8725-09	Data												
20700	F	IP	05-Dec-96	8725-09	Spike												
20700	F	IP	05-Dec-96	8725-09	Lot												
20700	F	UB	08-Jan-97	97U00080	Data											<200.00	
20700	F	UB	08-Jan-97	97U00080	Spike											0	
20700	F	UB	08-Jan-97	97U00080	Lot											BBAN 008	
20100	F	UB	06-Feb-97	97U00331	Data											<100.00	
20100	F	UB	06-Feb-97	97U00331	Spike											0	
20100	F	UB	06-Feb-97	97U00331	Lot											BBJX 008	
21000	F	UB	04-Mar-97	97U00410	Data	<10.00	<5.00	<10.00	<20.00	<40.00				<20.00		<100.00	<10.00
21000	F	UB	04-Mar-97	97U00410	Spike	0	0	0	0	0				0		0	0
21000	F	UB	04-Mar-97	97U00410	Lot	BBTT 013	BBTT 013	BBTT 013	BBTT 013	BBTT 013				BBTT 013		BBSD 009	BBXM 017
21000	F	IP	04-Mar-97	9103-08	Data												
21000	F	IP	04-Mar-97	9103-08	Spike												
21000	F	IP	04-Mar-97	9103-08	Lot												
20100	F	UB	03-Apr-97	97U01009	Data											<100.00	
20100	F	UB	03-Apr-97	97U01009	Spike											0	
20100	F	UB	03-Apr-97	97U01009	Lot											BCPG 010	
20700	F	UB	07-May-97	97U01426	Data											(V) <100.00	
20700	F	UB	07-May-97	97U01426	Spike											0	
20700	F	UB	07-May-97	97U01426	Lot											BDNH 009	
20700	F	UB	05-Jun-97	97U01872	Data	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00			<20.00	<0.10	<100.00	<10.00
20700	F	UB	05-Jun-97	97U01872	Spike	0	0	0	0	0	0			0	0	0	0
20700	F	UB	05-Jun-97	97U01872	Lot	BFDD 017	BFDD 017	BFDD 017	BFDD 017	BFDD 017	BFDD 017			BFDD 017	BFFC 016	BDYZ 013	BFDP 013
20700	F	IP	05-Jun-97	9567-12	Data												
20700	F	IP	05-Jun-97	9567-12	Spike												

APPENDIX E.2
Inorganics QA/QC Data

Site ID	QC Typ	Lab	Sample Date	Lab Analysis Number		NH3N2 (ug/l)	COD (ug/l)	BOD (ug/l)	COLI CPML	TSS (ug/l)	TPO4 (ug/l)	PO4ORT (ug/l)	ALPHAG pC/l	BETAG pC/l	CS137 pC/l	RA226 pC/l	U235 pC/l
20100	F	UB	02-Oct-96	96U04416	Data					<4000.00	13.10	<500.00					
20100	F	UB	02-Oct-96	96U04416	Spike					0	0	0					
20100	F	UB	02-Oct-96	96U04416	Lot					AZJG 009	AZOA 010	AZIY 009					
20700	F	UB	06-Nov-96	96U05116	Data					<4000.00	<10.00	<500.00					
20700	F	UB	06-Nov-96	96U05116	Spike					0	0	0					
20700	F	UB	06-Nov-96	96U05116	Lot					BACW 009	BAIC 011	BAAL 009					
20700	F	UB	05-Dec-96	96U05559	Data	<50.00	<10000.00			<4000.00	<10.00	(F) <500.00					
20700	F	UB	05-Dec-96	96U05559	Spike	0	0			0	0	0					
20700	F	UB	05-Dec-96	96U05559	Lot	BAWG 010	BASA 010			BAQI 010	BARD 012	BAML 010					
20700	F	IP	05-Dec-96	8725-09	Data			<6000.00	<10.00								
20700	F	IP	05-Dec-96	8725-09	Spike			0	0								
20700	F	IP	05-Dec-96	8725-09	Lot			EXX 010	EXW 010								
20700	F	UB	08-Jan-97	97U00080	Data					<4000.00	<10.00	<500.00					
20700	F	UB	08-Jan-97	97U00080	Spike					0	0	0					
20700	F	UB	08-Jan-97	97U00080	Lot					BBBU 008	BBBW 010	BBAM 008					
20100	F	UB	06-Feb-97	97U00331	Data					<4000.00	<10.00	<100.00					
20100	F	UB	06-Feb-97	97U00331	Spike					0	0	0					
20100	F	UB	06-Feb-97	97U00331	Lot					BBMW 008	BBQF 010	BBJW 008					
21000	F	UB	04-Mar-97	97U00410	Data	<50.00	<10000.00			<4000.00	14.70	<100.00					
21000	F	UB	04-Mar-97	97U00410	Spike	0	0			0	0	0					
21000	F	UB	04-Mar-97	97U00410	Lot	BCLR 007	BBXZ 007			BBVF 009	BCJC 007	BBRW 009					
21000	F	IP	04-Mar-97	9103-08	Data			<6000.00	<1.00								
21000	F	IP	04-Mar-97	9103-08	Spike			0	0								
21000	F	IP	04-Mar-97	9103-08	Lot			EYJ 009	EYI 009								
20100	F	UB	03-Apr-97	97U01009	Data					<4000.00	<10.00	<200.00					
20100	F	UB	03-Apr-97	97U01009	Spike					0	0	0					
20100	F	UB	03-Apr-97	97U01009	Lot					BCSW 010	BCYF 010	BCPF 010					
20700	F	UB	07-May-97	97U01426	Data					(V) <4000.00	(V) <10.00	V) <500.00					
20700	F	UB	07-May-97	97U01426	Spike					0	0	0					
20700	F	UB	07-May-97	97U01426	Lot					BDHS 009	BDKB 009	BDHG 009					
20700	F	UB	05-Jun-97	97U01872	Data	<50.00	<10000.00			<4000.00	<100.00	<500.00	0.08	0.23	3.98	152.00	260.00
20700	F	UB	05-Jun-97	97U01872	Spike	0	0			0	0	0	0	0	0	0	0
20700	F	UB	05-Jun-97	97U01872	Lot	BFKH 013	BFGS 013			BFHQ 014	BFKC 013	BDYY 013	BFNL 016	BFNL 016	BFCB 015	BFCB 015	BFCB 015
20700	F	IP	05-Jun-97	9567-12	Data			<6000.00	<1.00								
20700	F	IP	05-Jun-97	9567-12	Spike			0	0								

Site ID	QC Typ	Lab	Sample Date	Lab Analysis Number		AG (ug/l)	CD (ug/l)	CR (ug/l)	CU (ug/l)	NI (ug/l)	PB (ug/l)	SB (ug/l)	TL (ug/l)	ZN (ug/l)	HG (ug/l)	CL (ug/l)	CYN (ug/l)
20700	F	IP	05-Jun-97	9567-12	Lot												
20100	F	UB	02-Jul-97	97U03090	Data											112.00	
20100	F	UB	02-Jul-97	97U03090	Spike											0	
20100	F	UB	02-Jul-97	97U03090	Lot											BGBC 010	
20100	F	UB	06-Aug-97	97U03370	Data											<100.00	
20100	F	UB	06-Aug-97	97U03370	Spike											0	
20100	F	UB	06-Aug-97	97U03370	Lot											BGHJ 010	
20900	F	UB	04-Sep-97	97U03680	Data	<4.47	<5.00	<10.00	<20.00	<40.00	<30.80			<20.00	<0.10	<100.00	<5.00
20900	F	UB	04-Sep-97	97U03680	Spike	0	0	0	0	0	0			0	0	0	0
20900	F	UB	04-Sep-97	97U03680	Lot	BGQY 017	BGQY 017	BGQY 017	BGQY 017	BGQY 017	BGQY 017			BGQY 017	BGSF 012	BGPV 013	BGQF 013
20900	F	IP	04-Sep-97	9995-12	Data												
20900	F	IP	04-Sep-97	9995-12	Spike												
20900	F	IP	04-Sep-97	9995-12	Lot												
Effluent-A	N	UB	01-Oct-96	96U4419M	Data										(V) 0.91		
Effluent-A	N	UB	01-Oct-96	96U4419M	Spike										1		
Effluent-A	N	UB	01-Oct-96	96U4419M	Lot										AZJN 004		
Effluent-A D	N	UB	01-Oct-96	96U4419M	Data										(V) 0.99		
Effluent-A D	N	UB	01-Oct-96	96U4419M	Spike										1		
Effluent-A D	N	UB	01-Oct-96	96U4419M	Lot										AZJN 005		
20800	N	UB	06-Nov-96	96U05109	Data												
20800	N	UB	06-Nov-96	96U05109	Spike												
20800	N	UB	06-Nov-96	96U05109	Lot												
Effluent-A D	N	UB	11-Nov-96	96U5140M	Data										0.95		
Effluent-A D	N	UB	11-Nov-96	96U5140M	Spike										1		
Effluent-A D	N	UB	11-Nov-96	96U5140M	Lot										BAES 005		
Effluent-A	N	UB	11-Nov-96	96U5140S	Data										1.00		
Effluent-A	N	UB	11-Nov-96	96U5140S	Spike										1		
Effluent-A	N	UB	11-Nov-96	96U5140S	Lot										BAES 004		
Effluent-A D	N	UB	03-Dec-96	96U5586M	Data										1.02		
Effluent-A D	N	UB	03-Dec-96	96U5586M	Spike										1		
Effluent-A D	N	UB	03-Dec-96	96U5586M	Lot										BANR 005		
Effluent-A	N	UB	03-Dec-96	96U5586S	Data										1.06		
Effluent-A	N	UB	03-Dec-96	96U5586S	Spike										1		
Effluent-A	N	UB	03-Dec-96	96U5586S	Lot										BANR 004		

APPENDIX E.2
Inorganics QA/QC Data

Site ID	QC Typ	Lab	Sample Date	Lab Analysis Number		NH3N2 (ug/l)	COD (ug/l)	BOD (ug/l)	COLI CPML	TSS (ug/l)	TPO4 (ug/l)	PO4ORT (ug/l)	ALPHAG pC/l	BETAG pC/l	CS137 pC/l	RA226 pC/l	U235 pC/l
20700	F	IP	05-Jun-97	9567-12	Lot			EYL 013	EYK 013								
20100	F	UB	02-Jul-97	97U03090	Data					<4000.00	<10.00	<200.00					
20100	F	UB	02-Jul-97	97U03090	Spike					0	0	0					
20100	F	UB	02-Jul-97	97U03090	Lot					BGBY 010	BGBX 010	BFSG 010					
20100	F	UB	06-Aug-97	97U03370	Data					<4000.00	<10.00	<500.00					
20100	F	UB	06-Aug-97	97U03370	Spike					0	0	0					
20100	F	UB	06-Aug-97	97U03370	Lot					BGKV 010	BGLR 011	BGHH 010					
20900	F	UB	04-Sep-97	97U03680	Data	<50.00	<10000.00			<4000.00	<10.00	<500.00					
20900	F	UB	04-Sep-97	97U03680	Spike	0	0			0	0	0					
20900	F	UB	04-Sep-97	97U03680	Lot	BGRQ 013	BGRS 013			BGSX 013	BGVR 018	BGPT 013					
20900	F	IP	04-Sep-97	9995-12	Data			<6000.00	<10.00								
20900	F	IP	04-Sep-97	9995-12	Spike			0	0								
20900	F	IP	04-Sep-97	9995-12	Lot			EYN 014	EYM 013								
Effluent-A	N	UB	01-Oct-96	96U4419M	Data												
Effluent-A	N	UB	01-Oct-96	96U4419M	Spike												
Effluent-A	N	UB	01-Oct-96	96U4419M	Lot												
Effluent-A D	N	UB	01-Oct-96	96U4419M	Data												
Effluent-A D	N	UB	01-Oct-96	96U4419M	Spike												
Effluent-A D	N	UB	01-Oct-96	96U4419M	Lot												
20800	N	UB	06-Nov-96	96U05109	Data						213.00						
20800	N	UB	06-Nov-96	96U05109	Spike						100						
20800	N	UB	06-Nov-96	96U05109	Lot						BAIC 003						
Effluent-A D	N	UB	11-Nov-96	96U5140M	Data												
Effluent-A D	N	UB	11-Nov-96	96U5140M	Spike												
Effluent-A D	N	UB	11-Nov-96	96U5140M	Lot												
Effluent-A	N	UB	11-Nov-96	96U5140S	Data												
Effluent-A	N	UB	11-Nov-96	96U5140S	Spike												
Effluent-A	N	UB	11-Nov-96	96U5140S	Lot												
Effluent-A D	N	UB	03-Dec-96	96U5586M	Data												
Effluent-A D	N	UB	03-Dec-96	96U5586M	Spike												
Effluent-A D	N	UB	03-Dec-96	96U5586M	Lot												
Effluent-A	N	UB	03-Dec-96	96U5586S	Data												
Effluent-A	N	UB	03-Dec-96	96U5586S	Spike												
Effluent-A	N	UB	03-Dec-96	96U5586S	Lot												

APPENDIX E.2
Inorganics QA/QC Data

Site ID	QC Typ	Lab	Sample Date	Lab Analysis Number		AG (ug/l)	CD (ug/l)	CR (ug/l)	CU (ug/l)	NI (ug/l)	PB (ug/l)	SB (ug/l)	TL (ug/l)	ZN (ug/l)	HG (ug/l)	CL (ug/l)	CYN (ug/l)
21600	D N	UB	05-Dec-96	96U5564M	Data			193.00	249.00		483.00						
21600	D N	UB	05-Dec-96	96U5564M	Spike			0	0		0						
21600	D N	UB	05-Dec-96	96U5564M	Lot			BAOE 020	BAOE 020		BAOE 020						
21600	N	UB	05-Dec-96	96U5564S	Data			191.00	243.00		499.00						
21600	N	UB	05-Dec-96	96U5564S	Spike			0	0		0						
21600	N	UB	05-Dec-96	96U5564S	Lot			BAOE 019	BAOE 019		BAOE 019						
20800	D N	UB	05-Dec-96	96U5551M	Data										1.07		
20800	D N	UB	05-Dec-96	96U5551M	Spike										1		
20800	D N	UB	05-Dec-96	96U5551M	Lot										BARM 005		
20800	N	UB	05-Dec-96	96U5551S	Data										1.10		
20800	N	UB	05-Dec-96	96U5551S	Spike										1		
20800	N	UB	05-Dec-96	96U5551S	Lot										BARM 004		
01U351	N	UB	11-Dec-96	96U5900M	Data							56.60	(JI) 5.32				
01U351	D N	UB	11-Dec-96	96U5900M	Spike							0	5				
01U351	D N	UB	11-Dec-96	96U5900M	Lot							BAWH 004	BAWI 005				
01U351	N	UB	11-Dec-96	96U5900M	Data							57.50					
01U351	D N	UB	11-Dec-96	96U5900M	Spike							0					
01U351	D N	UB	11-Dec-96	96U5900M	Lot							BAWH 005					
01U351	N	UB	11-Dec-96	96U5900S	Data								(JI) 5.74				
01U351	N	UB	11-Dec-96	96U5900S	Spike								5				
01U351	N	UB	11-Dec-96	96U5900S	Lot								BAWI 004				
20800	N	UB	08-Jan-97	97U0074S	Data												
20800	N	UB	08-Jan-97	97U0074S	Spike												
20800	N	UB	08-Jan-97	97U0074S	Lot												
20400	N	UB	06-Feb-97	97U0326S	Data												
20400	N	UB	06-Feb-97	97U0326S	Spike												
20400	N	UB	06-Feb-97	97U0326S	Lot												
20800	D N	UB	04-Mar-97	97U0403M	Data	43.70	52.90	214.00	263.00	554.00				536.00	0.98		
20800	D N	UB	04-Mar-97	97U0403M	Spike	0	0	0	0	0				0	1		
20800	D N	UB	04-Mar-97	97U0403M	Lot	BBTT 006	BBTT 006	BBTT 006	BBTT 006	BBTT 006				BBTT 006	BBZD 005		
20800	N	UB	04-Mar-97	97U0403S	Data	44.90	48.60	210.00	248.00	556.00				514.00	0.96		
20800	N	UB	04-Mar-97	97U0403S	Spike	0	0	0	0	0				0	1		
20800	N	UB	04-Mar-97	97U0403S	Lot	BBTT 005	BBTT 005	BBTT 005	BBTT 005	BBTT 005				BBTT 005	BBZD 004		
20100	D N	UB	07-Mar-97	97U0544M	Data						500.00						
20100	D N	UB	07-Mar-97	97U0544M	Spike						0						

APPENDIX E.2
Inorganics QA/QC Data

Site ID		QC Typ	Lab	Sample Date	Lab Analysis Number		NH3N2 (ug/l)	COD (ug/l)	BOD (ug/l)	COLI CPML	TSS (ug/l)	TPO4 (ug/l)	PO4ORT (ug/l)	ALPHAG pC/l	BETAG pC/l	CS137 pC/l	RA226 pC/l	U235 pC/l
21600	D	N	UB	05-Dec-96	96U5564M	Data												
21600	D	N	UB	05-Dec-96	96U5564M	Spike												
21600	D	N	UB	05-Dec-96	96U5564M	Lot												
21600		N	UB	05-Dec-96	96U5564S	Data												
21600		N	UB	05-Dec-96	96U5564S	Spike												
21600		N	UB	05-Dec-96	96U5564S	Lot												
20800	D	N	UB	05-Dec-96	96U5551M	Data												
20800	D	N	UB	05-Dec-96	96U5551M	Spike												
20800	D	N	UB	05-Dec-96	96U5551M	Lot												
20800		N	UB	05-Dec-96	96U5551S	Data						414.00						
20800		N	UB	05-Dec-96	96U5551S	Spike						0						
20800		N	UB	05-Dec-96	96U5551S	Lot						BARD 004						
01U351		N	UB	11-Dec-96	96U5900M	Data												
01U351	D	N	UB	11-Dec-96	96U5900M	Spike												
01U351	D	N	UB	11-Dec-96	96U5900M	Lot												
01U351		N	UB	11-Dec-96	96U5900M	Data												
01U351	D	N	UB	11-Dec-96	96U5900M	Spike												
01U351	D	N	UB	11-Dec-96	96U5900M	Lot												
01U351		N	UB	11-Dec-96	96U5900S	Data												
01U351		N	UB	11-Dec-96	96U5900S	Spike												
01U351		N	UB	11-Dec-96	96U5900S	Lot												
20800		N	UB	08-Jan-97	97U0074S	Data						168.00						
20800		N	UB	08-Jan-97	97U0074S	Spike						0						
20800		N	UB	08-Jan-97	97U0074S	Lot						BBBW 004						
20400		N	UB	06-Feb-97	97U0326S	Data						143.00						
20400		N	UB	06-Feb-97	97U0326S	Spike						0						
20400		N	UB	06-Feb-97	97U0326S	Lot						BBQF 005						
20800	D	N	UB	04-Mar-97	97U0403M	Data												
20800	D	N	UB	04-Mar-97	97U0403M	Spike												
20800	D	N	UB	04-Mar-97	97U0403M	Lot												
20800		N	UB	04-Mar-97	97U0403S	Data												
20800		N	UB	04-Mar-97	97U0403S	Spike												
20800		N	UB	04-Mar-97	97U0403S	Lot												
20100	D	N	UB	07-Mar-97	97U0544M	Data												
20100	D	N	UB	07-Mar-97	97U0544M	Spike												

APPENDIX E.2
Inorganics QA/QC Data

Site ID		QC Typ	Lab	Sample Date	Lab Analysis Number		AG (ug/l)	CD (ug/l)	CR (ug/l)	CU (ug/l)	NI (ug/l)	PB (ug/l)	SB (ug/l)	TL (ug/l)	ZN (ug/l)	HG (ug/l)	CL (ug/l)	CYN (ug/l)
20100	D	N	UB	07-Mar-97	97U0544M	Lot						BCKP 006						
20100		N	UB	07-Mar-97	97U0544S	Data						505.00						
20100		N	UB	07-Mar-97	97U0544S	Spike						0						
20100		N	UB	07-Mar-97	97U0544S	Lot						BCKP 005						
21600	D	N	UB	10-Mar-97	97U0608M	Data	43.30		227.00	273.00		521.00			591.00			
21600	D	N	UB	10-Mar-97	97U0608M	Spike	0		0	0		0			0			
21600	D	N	UB	10-Mar-97	97U0608M	Lot	BCDX 006		BCDX 006	BCDX 006		BCDX 006			BCDX 006			
21600		N	UB	10-Mar-97	97U0608S	Data	45.70		225.00	273.00		502.00			584.00			
21600		N	UB	10-Mar-97	97U0608S	Spike	0		0	0		0			0			
21600		N	UB	10-Mar-97	97U0608S	Lot	BCDX 005		BCDX 005	BCDX 005		BCDX 005			BCDX 005			
21000	D	N	UB	05-Jun-97	97U1861M	Data										1.01		
21000	D	N	UB	05-Jun-97	97U1861M	Spike										1		
21000	D	N	UB	05-Jun-97	97U1861M	Lot										BFFC 005		
21000		N	UB	05-Jun-97	97U1861S	Data										1.03		
21000		N	UB	05-Jun-97	97U1861S	Spike										1		
21000		N	UB	05-Jun-97	97U1861S	Lot										BFFC 004		
20300	D	S	UB	06-Aug-97	97U03366	Data												
20300	D	S	UB	06-Aug-97	97U03366	Spike												
20300	D	S	UB	06-Aug-97	97U03366	Lot												

APPENDIX E.2
Inorganics QA/QC Data

Site ID		QC Typ	Lab	Sample Date	Lab Analysis Number		NH3N2 (ug/l)	COD (ug/l)	BOD (ug/l)	COLI CPML	TSS (ug/l)	TPO4 (ug/l)	PO4ORT (ug/l)	ALPHAG pC/l	BETAG pC/l	CS137 pC/l	RA226 pC/l	U235 pC/l
20100	D	N	UB	07-Mar-97	97U0544M	Lot												
20100		N	UB	07-Mar-97	97U0544S	Data												
20100		N	UB	07-Mar-97	97U0544S	Spike												
20100		N	UB	07-Mar-97	97U0544S	Lot												
21600	D	N	UB	10-Mar-97	97U0608M	Data												
21600	D	N	UB	10-Mar-97	97U0608M	Spike												
21600	D	N	UB	10-Mar-97	97U0608M	Lot												
21600		N	UB	10-Mar-97	97U0608S	Data												
21600		N	UB	10-Mar-97	97U0608S	Spike												
21600		N	UB	10-Mar-97	97U0608S	Lot												
21000	D	N	UB	05-Jun-97	97U1861M	Data												
21000	D	N	UB	05-Jun-97	97U1861M	Spike												
21000	D	N	UB	05-Jun-97	97U1861M	Lot												
21000		N	UB	05-Jun-97	97U1861S	Data												
21000		N	UB	05-Jun-97	97U1861S	Spike												
21000		N	UB	05-Jun-97	97U1861S	Lot												
20300	D	S	UB	06-Aug-97	97U03366	Data						102.00						
20300	D	S	UB	06-Aug-97	97U03366	Spike						0						
20300	D	S	UB	06-Aug-97	97U03366	Lot						BGLR 007						

E.3 PCB QA/QC Data

Notes:

(1) Under QC Type

F	=	Field Blank
N	=	Natural-Matrix Spike
D	=	Duplicate

APPENDIX E.3
PCBs QA/QC Data - (ug/l)

Site ID	QC Type	Lot #	Sample Date	PCB016	PCB221	PCB232	PCB242	PCB248	PCB254	PCB260
20700	F	BDZW 016	05-Jun-97 Data	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20700	F	BDZW 016	05-Jun-97 Spike	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21000	N	BDZW 004	05-Jun-97 Data	5.50	<2.00	<1.00	<1.00	<1.00	<1.00	4.54
21000	N	BDZW 004	05-Jun-97 Spike	5.00	0.00	0.00	0.00	0.00	0.00	5.00
21000	D N	BDZW 005	05-Jun-97 Data	5.22	<2.00	<1.00	<1.00	<1.00	<1.00	4.60
21000	D N	BDZW 005	05-Jun-97 Spike	5.00	0.00	0.00	0.00	0.00	0.00	5.00

E.4 Relative Percent Difference (RPD) Data for Groundwater

Notes:

(1) Data and duplicate data [denoted by a (3)] are shown in pairs. Below each pair is the RPD. RPDs greater than 25 percent are shaded.

(2) Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.
Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

APPENDIX E.4
Relative Percent Difference (RPD) Data

Well	Date	Qtr (2)	IRDMIS Lot #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
01U103	18-Jun-97	A55	BFLC 016	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U103 (3)	18-Jun-97	A55	BFLC 017	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U118	19-Jun-97	A55	BFLD 021	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U118 (3)	19-Jun-97	A55	BFLD 022	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U125	18-Jun-97	A55	BFLD 014	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U125 (3)	18-Jun-97	A55	BFLD 015	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U138	11-Dec-96	A53	BAVQ 018	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U138 (3)	11-Dec-96	A53	BAVQ 019	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U351	03-Sep-97	A56	BGRK 005	<0.75	1.03	<1.70	0.90			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U351 (3)	03-Sep-97	A56	BGRK 006	<0.75	0.91	<1.70	0.83			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	11.94	0.00	8.21			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U353	11-Dec-96	A53	BAVQ 007	<0.75	3.52	<1.70	172.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U353 (3)	11-Dec-96	A53	BAVQ 008	<0.75	3.41	<1.70	183.00			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	3.12	0.00	-6.40			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U354	05-Mar-97	A54	BBXV 018	<0.75	<0.56	<1.70	1.60			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U354 (3)	05-Mar-97	A54	BBXV 019	<0.75	<0.56	<1.70	1.59			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.62			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U358	18-Jun-97	A55	BFLF 012																	<1.05	<1.47	<1.36
01U358 (3)	18-Jun-97	A55	BFLF 013																	<1.05	<1.47	<1.36
																				0.00	0.00	0.00
01U358	18-Jun-97	A55	BFLC 012	<0.75	<0.56	<1.70	5.16			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U358 (3)	18-Jun-97	A55	BFLC 013	<0.75	<0.56	<1.70	5.27			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	-2.13			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U621	03-Jun-97	A55	BFJV 011	<1.00	JP 0.50	<1.00		7.10	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
01U621 (3)	03-Jun-97	A55	BFJV 012	<1.00	<1.00	<1.00		5.90	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
				0.00	-100.00	0.00		16.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
01U904	05-Mar-97	A54	BBXV 006	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
01U904 (3)	05-Mar-97	A54	BBXV 007	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
03F305	09-Jun-97	A55	BFFV 012	1.65	1500.00	87.60	72.00			<1.01	330.00	<0.78	112.00	4.02	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F305 (3)	09-Jun-97	A55	BFFV 013	1.65	1800.00	87.60	73.10			<1.01	350.00	<0.78	112.00	3.78	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	-20.00	0.00	-1.53			0.00	-6.06	0.00	0.00	5.97	0.00	0.00	0.00	0.00	0.00			
03F312	11-Dec-96	A53	BAUY 012	<0.75	9.23	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03F312 (3)	11-Dec-96	A53	BAUY 013	<0.75	7.03	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	23.84	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
03L809	24-Jun-97	A55	BFRL 012	<0.75	62.60	9.33	1.83			<1.01	41.90	6.98	5.96	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L809 (3)	24-Jun-97	A55	BFRL 013	<0.75	56.00	8.20	1.83			<1.01	41.90	6.28	5.17	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	10.54	12.11	0.00			0.00	0.00	10.03	13.26	0.00	0.00	0.00	0.00	0.00	0.00			
03L833	09-Dec-96	A53	BASG 005	<0.75	37.40	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L833 (3)	09-Dec-96	A53	BASG 006	<0.75	35.20	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	5.88	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

APPENDIX E.4
Relative Percent Difference (RPD) Data

Well	Date	Qtr (2)	IRDMIS Lot #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
03L848	05-Jun-97	A55	BFFQ 009	<0.75	9.34	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03L848 (3)	05-Jun-97	A55	BFFQ 010	<0.75	8.57	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	8.24	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
03U007	20-Jun-97	A55	BFLG 013	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U007 (3)	20-Jun-97	A55	BFLG 014	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
03U021	10-Jun-97	A55	BFFW 018	<0.75	900.00	53.90	81.70			<1.01	270.00	<0.78	62.90	2.93	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U021 (3)	10-Jun-97	A55	BFFW 019	<0.75	820.00	52.80	71.00			<1.01	230.00	<0.78	59.60	2.20	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	8.89	2.04	13.10			0.00	14.81	0.00	5.25	24.91	0.00	0.00	0.00	0.00	0.00			
03U028	12-Jun-97	A55	BFKG 017	<0.75	98.90	1.91	14.00			<1.01	10.50	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U028 (3)	12-Jun-97	A55	BFKG 018	<0.75	103.00	2.13	10.00			<1.01	12.90	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	-4.15	-11.52	28.57			0.00	-22.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
03U301	09-Jun-97	A55	BFFV 024	1.32	1100.00	3.26	74.20			<1.01	26.90	<0.78	1.57	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U301 (3)	09-Jun-97	A55	BFFW 005	1.04	910.00	2.58	77.40			<1.01	26.90	<0.78	1.24	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				21.21	17.27	20.86	-4.31			0.00	0.00	0.00	21.02	0.00	0.00	0.00	0.00	0.00	0.00			
03U702	06-Jun-97	A55	BFFT 007	<0.75	0.66	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
03U702 (3)	06-Jun-97	A55	BFFT 008	<0.75	0.69	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	-5.01	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
04J834	13-Dec-96	A53	BAZT 003		2.30	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			JP 0.46			
04J834 (3)	13-Dec-96	A53	BAZT 006		2.20	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			JP 0.47			
					4.35	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			-2.17			
04U001	06-Jun-97	A55	BFFT 019	<0.75	0.92	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U001 (3)	06-Jun-97	A55	BFFT 020	<0.75	0.92	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
04U709	09-Jun-97	A55	BFFW 024	<0.75	26.40	<1.70	<0.76			<1.01	1.61	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U709 (3)	09-Jun-97	A55	BFFW 025	<0.75	27.50	<1.70	<0.76			<1.01	1.51	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	-4.17	0.00	0.00			0.00	6.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
04U714	11-Jun-97	A55	BFKF 013	<0.75	1.65	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U714 (3)	11-Jun-97	A55	BFKF 014	<0.75	2.75	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	-66.67	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
04U806	05-Jun-97	A55	BFFT 013	<0.75	165.00	24.70	8.92			<1.01	108.00	8.37	41.60	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U806 (3)	05-Jun-97	A55	BFFT 014	<0.75	176.00	31.50	9.57			<1.01	108.00	9.77	42.70	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	-6.67	-27.53	-7.29			0.00	0.00	-16.73	-2.64	0.00	0.00	0.00	0.00	0.00	0.00			
04U852	24-Jun-97	A55	BFYM 010		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
04U852 (3)	24-Jun-97	A55	BFYM 011		JP 0.48	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
					52.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00			
04U854	05-Jun-97	A55	BFFQ 014	<0.75	16.50	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
04U854 (3)	05-Jun-97	A55	BFFQ 015	<0.75	17.60	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	-6.67	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
04U880	16-Dec-96	A53	BAZT 011		JP 0.37	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			JP 0.37			
04U880 (3)	16-Dec-96	A53	BAZT 012		<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			<1.00			
					-170.27	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			-170.27			
161432	24-Jun-97	A55	BFRL 006	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
161432 (3)	24-Jun-97	A55	BFRL 007	<0.75	<0.56	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
				0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

APPENDIX E.4
Relative Percent Difference (RPD) Data

Well		Date	Qtr (2)	IRDMIS Lot #	TCLEE	TRCLE	11DCE	12DCE	C12DCE	T12DCE	C2H3CL	111TCE	112TCE	11DCLE	12DCLE	CCL4	CHCL3	12DCLP	TCLTFE	CH2CL2	C6H6	MEC6H5	TXYLEN
234352		24-Jun-97	A55	BFYN 010		JP 0.46	2.50		JP 0.37	<1.00	<1.00	JP 0.40	<1.00	7.90	<1.00	<1.00	<1.00			<1.00			
234352	(3)	24-Jun-97	A55	BFYN 011		<1.00	2.20		<1.00	<1.00	<1.00	<1.00	<1.00	7.20	<1.00	<1.00	<1.00			<1.00			
						-117.39	12.00		-170.27	0.00	0.00	-150.00	0.00	8.86	0.00	0.00	0.00			0.00			
409546		26-Jun-97	A55	BFYY 004		<1.00	JP 0.54		<1.00	<1.00	<1.00	<1.00	<1.00	2.20	<1.00	<1.00	<1.00			<1.00			
409546	(3)	26-Jun-97	A55	BFYY 005		<1.00	JP 0.54		<1.00	<1.00	<1.00	<1.00	<1.00	2.30	<1.00	<1.00	<1.00			<1.00			
						0.00	0.00		0.00	0.00	0.00	0.00	0.00	-4.55	0.00	0.00	0.00			0.00			
520931		11-Nov-96	A53	BAHN 005	<0.75	7.69	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931	(3)	11-Nov-96	A53	BAHN 006	<0.75	6.81	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
					0.00	11.44	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
520931		04-Feb-97	A54	BBNC 006	<0.75	4.07	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931	(3)	04-Feb-97	A54	BBNC 007	<0.75	4.29	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
					0.00	-5.41	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
520931		03-Mar-97	A54	BBSF 005	<0.75	3.15	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931	(3)	03-Mar-97	A54	BBSF 006	<0.75	3.01	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
					0.00	4.44	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
520931		04-Jun-97	A55	BFFK 014	<0.75	2.09	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
520931	(3)	04-Jun-97	A55	BFFK 015	<0.75	2.09	<1.70	<0.76			<1.01	<0.76	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
					0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
PJ#311		11-Dec-96	A53	BAUY 022	<0.75	14.30	<1.70	<0.76			<1.01	0.98	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
PJ#311	(3)	11-Dec-96	A53	BAUY 023	<0.75	14.30	<1.70	<0.76			<1.01	0.96	<0.78	<0.73	<1.10	<0.99	<0.50	T <1.00	T <1.00	<7.40			
					0.00	0.00	0.00	0.00			0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

APPENDIX F

Appendix F

Surface Water Databases

F.1 Surface Water Quality Data (PCBs)

Notes:

(1) Sites refer to monitoring locations illustrated on Figure VI.A-1 of this report.

(2) Qtr = Quarter. Under this heading, F = FCC and A = Alliant Techsystems Inc.

(3) Duplicate sample collected for QA/QC purposes.

(4) Field blank collected at this location. See Appendix E.3 for FY 1997 field blank data.

APPENDIX F.1
Surface Water Quality Data (PCBs) - ug/l

Location (1)	Sample Lab #	Date	Qtr (2)	Lot #	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260
20100	5413-02	02-May-95	F47	DWO 008	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
20100	96U02293	28-Jun-96	A51	AXVY 012	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20100	97U01866	05-Jun-97	A55	BDZW 010	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20200	5413-04	02-May-95	F47	DWO 010	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
20200 (4)	96U02288	28-Jun-96	A51	AXVY 007	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20200 (3,4)	96U02289	28-Jun-96	A51	AXVY 008	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20200	97U01874	05-Jun-97	A55	BDZW 018	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20200 (3)	97U01875	05-Jun-97	A55	BDZW 019	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20300	5413-03	02-May-95	F47	DWO 009	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
20300	96U02287	28-Jun-96	A51	AXVY 006	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20300	97U01876	05-Jun-97	A55	BDZW 020	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20400	5413-14	03-May-95	F47	DXN 011	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
20400	96U02285	28-Jun-96	A51	AXVY 004	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20400	97U01864	05-Jun-97	A55	BDZW 008	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20500	5413-12	03-May-95	F47	DXN 009	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
20500	96U02286	28-Jun-96	A51	AXVY 005	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20500	97U01865	05-Jun-97	A55	BDZW 009	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20700	5413-01	02-May-95	F47	DWO 007	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
20700	96U02292	28-Jun-96	A51	AXVY 011	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20700	97U01871	05-Jun-97	A55	BDZW 015	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20800	5413-13	03-May-95	F47	DXN 010	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
20800	96U02284	28-Jun-96	A51	AXVY 003	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20800	97U01863	05-Jun-97	A55	BDZW 007	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00

APPENDIX F.1
Surface Water Quality Data (PCBs) - ug/l

Location (1)	Sample Lab #	Date	Qtr (2)	Lot #	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260
20900	5413-10	03-May-95	F47	DXN 007	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
20900	96U02299	28-Jun-96	A51	AXVY 018	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
20900	97U01862	05-Jun-97	A55	BDZW 006	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21000	5413-15	03-May-95	F47	DXN 012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
21000	96U02298	28-Jun-96	A51	AXVY 017	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21000	97U01861	05-Jun-97	A55	BDZW 003	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21100	5413-05	02-May-95	F47	DWO 011	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
21100	96U02291	28-Jun-96	A51	AXVY 010	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21100	97U01873	05-Jun-97	A55	BDZW 017	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21200	5413-06	02-May-95	F47	DWO 012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
21200	96U02294	28-Jun-96	A51	AXVY 013	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21200	97U01867	05-Jun-97	A55	BDZW 011	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21300	5413-07	02-May-95	F47	DWO 013	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
21300	96U02295	28-Jun-96	A51	AXVY 014	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21300	97U01868	05-Jun-97	A55	BDZW 012	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21400	5413-08	02-May-95	F47	DWO 014	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
21400	96U02296	28-Jun-96	A51	AXVY 015	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21400	97U01869	05-Jun-97	A55	BDZW 013	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21600	5413-11	03-May-95	F47	DXN 008	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
21600	96U02297	28-Jun-96	A51	AXVY 016	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
21600	97U01870	05-Jun-97	A55	BDZW 014	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00

F.2 Surface Water Quality Data (Organics)

Notes:

(1) Sites refer to monitoring locations illustrated on Figure VI.A-1 of this report.

(2) Qtr = Quarter. Under this heading, F = FCC and A = Alliant Techsystems Inc.

(3) TCAAP SW Action Criteria = surface water action criteria set forth in Table 3.7B of the Federal Facilities Agreement.

(4) Duplicate sample collected for QA/QC purposes.

(5) Field blank collected at this location. See Appendix E.1 for FY 1997 field blank data.

NC Trip blank not collected.

Flagging Codes
Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.

Data Qualifiers
Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

Shading denotes FY 1997 exceedances or potential exceedances of TCAAP action criteria. Exceedances are concentrations greater than the TCAAP action criteria. Potential exceedances are values reported as "less than the method detection limit," where the method detection limit is greater than the TCAAP action criteria.

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20100	4106-04		NC	07-Oct-94	F45	DKO 006						3000.00	
20100	4343-01		NC	09-Nov-94	F45	DNA 010	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	13000.00
20100	4532-04		NC	08-Dec-94	F45	DOE 006						<1000.00	
20100	4724-04		NC	17-Jan-95	F46	DOM 006						<1000.00	
20100	4819-07		4819-01	01-Feb-95	F46	DPJ 011	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	12200.00
20100	4973-02		NC	02-Mar-95	F46	DQL 004						<1000.00	
20100	5180-04		NC	04-Apr-95	F47	DTE 006						5000.00	
20100	5413-02		5413-09	02-May-95	F47	DWN 004	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	10600.00
20100	5717-04		NC	08-Jun-95	F47	EEG 006						<1000.00	
20100	6048-04		NC	12-Jul-95	F48	ENS 006						2000.00	
20100	6350-07		6350-01	14-Aug-95	F48	ETI 008						<1000.00	23000.00
20100	6563-01		NC	19-Sep-95	F48	EWI 003						<1000.00	
20100	6675-01		NC	10-Oct-95	A49	EWQ 003						<1000.00	
20100	354392		355216	28-Nov-95	A49	KGF 011						<5000.00	
20100	354392		355216	28-Nov-95	A49	KJD 011							10000.00
20100	372498		NC	14-Dec-95	A49	KJB 008						<5000.00	
20100	6971	(5)	NC	12-Jan-96	A50	KIL 007						<5000.00	
20100	28614		NC	20-Feb-96	A50	KGL 001						<5000.00	
20100	28614		NC	20-Feb-96	A50	KGM 001							12200.00
20100	43001		NC	12-Mar-96	A50	KGP 007						<5000.00	
20100	61387	(5)	NC	12-Apr-96	A50	KGR 006						<5000.00	
20100	81833	(5)	NC	13-May-96	A51	KGV 001						<5000.00	
20100	96U02293		NC	28-Jun-96	A51	AXWZ 011						334.00	
20100	96U02293		NC	28-Jun-96	A51	AXYN 005							16200.00
20100	96U02293		NC	28-Jun-96	A51	AXZI 014	<1.00	<1.00	<1.00	<1.00	<1.00		
20100	96U02539		NC	25-Jul-96	A52	AYGA 006						182.00	
20100	96U02793		NC	12-Aug-96	A52	AYJM 009						620.00	
20100	96U03597		96U03641	04-Sep-96	A52	AZFZ 011							21600.00
20100	96U03762		96U03641	06-Sep-96	A52	AYZY 011						593.00	
20100	96U05559		96U05566	05-Dec-96	A53	BAQK 011						135.00	
20100	96U05559		96U05566	05-Dec-96	A53	BATG 011							15600.00

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20100	97U00081		NC	08-Jan-97	A54	BBCY 009						101.00	
20100	97U00330	(5)	NC	06-Feb-97	A54	BBMF 007						<100.00	
20100	97U00408		NC	04-Mar-97	A54	BBVY 007							17800.00
20100	97U00408		NC	04-Mar-97	A54	BCDZ 007						<100.00	
20100	97U01008	(5)	NC	03-Apr-97	A55	BCYN 009						(JP) <100.00	
20100	97U01424		NC	07-May-97	A55	BDQW 007						(V) <100.00	
20100	97U01425	(4)	NC	07-May-97	A55	BDQW 008						(V) 114.00	
20100	97U01866		97U01877	05-Jun-97	A55	BFHV 010	<1.00	<1.00	<1.00	<1.00	<1.00	153.00	17800.00
20100	97U03089	(5)	NC	02-Jul-97	A56	BFWN 009						817.00	
20100	97U03369	(5)	NC	06-Aug-97	A56	BGJH 008						2840.00	
20100	97U03678		97U03685	04-Sep-97	A56	BGRR 011							10700.00
20100	97U03678		97U03685	04-Sep-97	A56	BGQX 011						<100.00	
20200	4106-05		NC	07-Oct-94	F45	DKO 007						3000.00	
20200	4343-04		NC	09-Nov-94	F45	DNA 013	5.88	<1.01	<1.16	<0.97	<1.41	1400.00	<5000.00
20200	4532-05		NC	08-Dec-94	F45	DOE 007						<1000.00	
20200	4724-05		NC	17-Jan-95	F46	DOM 007						2000.00	
20200	4819-09		4819-01	01-Feb-95	F46	DPJ 013	7.16	<1.01	<1.16	<0.97	<1.41	1000.00	1900.00
20200	4973-03		NC	02-Mar-95	F46	DQL 005						<1000.00	
20200	5180-05		NC	04-Apr-95	F47	DTE 007						2000.00	
20200	5413-04		5413-09	02-May-95	F47	DWN 006	6.56	<1.01	<1.16	<0.97	<1.41	<1000.00	<5000.00
20200	5717-06		NC	08-Jun-95	F47	EEG 008						<1000.00	
20200	6048-06		NC	12-Jul-95	F48	ENS 008						<1000.00	
20200	6350-10		6350-01	14-Aug-95	F48	ETX 011	3.30	<1.01	<1.16	<0.97	<1.41	5000.00	4000.00
20200	6563-03		NC	19-Sep-95	F48	EWI 005						<1000.00	
20200	6675-03		NC	10-Oct-95	A49	EWQ 005						<1000.00	
20200	354244		355216	28-Nov-95	A49	HWI 007	2.32	<1.00	<1.00	<0.78	<3.20		
20200	354244		355216	28-Nov-95	A49	KGF 001						<5000.00	
20200	354244		355216	28-Nov-95	A49	KJD 001							4550.00
20200	372463	(5)	NC	14-Dec-95	A49	KJB 005						<5000.00	
20200	6955		NC	12-Jan-96	A50	KIL 005						<5000.00	

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20200	28622		NC	20-Feb-96	A50	HWO 004	0.82	<1.00	<1.00	<0.78	<3.20		
20200	28622		NC	20-Feb-96	A50	KGL 002						<5000.00	
20200	28622		NC	20-Feb-96	A50	KGM 002							7010.00
20200	42960		NC	12-Mar-96	A50	KGP 003						6000.00	
20200	42978	(4)	NC	12-Mar-96	A50	KGP 004						6000.00	
20200	61352		NC	12-Apr-96	A50	KGR 003						6000.00	
20200	61360	(4)	NC	12-Apr-96	A50	KGR 004						<5000.00	
20200	81868		NC	13-May-96	A51	KGV 004						<5000.00	
20200	81876	(4)	NC	13-May-96	A51	KGV 005						<5000.00	
20200	96U02288	(5)	NC	28-Jun-96	A51	AXWZ 006						<100.00	
20200	96U02288	(5)	NC	28-Jun-96	A51	AXYM 006							3830.00
20200	96U02288	(5)	NC	28-Jun-96	A51	AXZI 009	1.90	<1.00	<1.00	<1.00	<1.00		
20200	96U02289	(4,5)	NC	28-Jun-96	A51	AXWZ 007						<100.00	
20200	96U02289	(4,5)	NC	28-Jun-96	A51	AXYM 007							3840.00
20200	96U02289	(4,5)	NC	28-Jun-96	A51	AXZI 010	1.80	<1.00	<1.00	<1.00	<1.00		
20200	96U02538		NC	25-Jul-96	A52	AYGA 005						<100.00	
20200	96U02790		NC	12-Aug-96	A52	AYJM 006						<100.00	
20200	96U02791	(4)	NC	12-Aug-96	A52	AYJM 007						<100.00	
20200	96U03588		96U03641	04-Sep-96	A52	AYZY 002						<100.00	
20200	96U03588		96U03641	04-Sep-96	A52	AZBH 002	3.50	<1.00	<1.00	<1.00	<1.00		
20200	96U03588		96U03641	04-Sep-96	A52	AZFZ 002							3280.00
20200	96U03589	(4)	96U03641	04-Sep-96	A52	AYZY 003						<100.00	
20200	96U03589	(4)	96U03641	04-Sep-96	A52	AZBH 003	3.20	<1.00	<1.00	<1.00	<1.00		
20200	96U03589	(4)	96U03641	04-Sep-96	A52	AZFZ 003							3430.00
20200	96U05555		96U05566	05-Dec-96	A53	BATE 015	2.10	<1.00	<1.00	<1.00	<1.00	502.00	3440.00
20200	96U05556	(4)	96U05566	05-Dec-96	A53	BATE 014	3.4	<1.00	<1.00	<1.00	<1.00	189	3600
20200	97U00077		NC	08-Jan-97	A54	BBCY 005						<100.00	
20200	97U00078		NC	08-Jan-97	A54	BBCY 006						<100.00	
20200	97U00327		NC	06-Feb-97	A54	BBMF 004						<100.00	
20200	97U00541		NC	04-Mar-97	A54	BBYW 016	8.00	<1.00	<1.00	<1.00	<1.00	<100.00	2880.00
20200	97U00406	(4)	NC	04-Mar-97	A54	BBYW 011	6.3	<1.00	<1.00	<1.00	<1.00	<100.00	3050

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20200	97U01005		NC	03-Apr-97	A55	BCYN 006						(JP) <100.00	
20200	97U01422		NC	07-May-97	A55	BDQW 005						(V) <100.00	
20200	97U01874		97U01877	05-Jun-97	A55	BFHV 018	7.40	<1.00	<1.00	<1.00	<1.00	<100.00	3930.00
20200	97U01874		97U01877	05-Jun-97	A55	BFHV 018							3960.00
20200	97U01875	(4)	97U01877	05-Jun-97	A55	BFHV 019	8.1	<1.00	<1.00	<1.00	<1.00	<100.00	
20200	97U03087		NC	02-Jul-97	A56	BFWN 007						789.00	
20200	97U03367		NC	06-Aug-97	A56	BGJH 006						<100.00	
20200	97U03673		97U03685	04-Sep-97	A56	BGVW 012	4.50	<1.00	<1.00	<1.00	<1.00	155.00	3170.00
20200	97U03674	(4)	97U03685	04-Sep-97	A56	BGVW 013	4.6	<1.00	<1.00	<1.00	<1.00	172	3220
20300	4106-06	(5)	NC	07-Oct-94	F45	DKO 008						3000.00	
20300	4343-05	(5)	NC	09-Nov-94	F45	DNA 014	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	<5000.00
20300	4532-06	(5)	NC	08-Dec-94	F45	DOE 008						<1000.00	
20300	4724-06		NC	17-Jan-95	F46	DOM 008						<1000.00	
20300	4819-10	(5)	4819-01	01-Feb-95	F46	DPJ 014	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	4600.00
20300	4973-04		NC	02-Mar-95	F46	DQL 006						<1000.00	
20300	5180-06	(5)	NC	04-Apr-95	F47	DTE 008						1000.00	
20300	5413-03		5413-09	02-May-95	F47	DWN 005	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	<5000.00
20300	5717-07	(5)	NC	08-Jun-95	F47	EEG 009						<1000.00	
20300	6048-07	(5)	NC	12-Jul-95	F48	ENS 009						<1000.00	
20300	6350-11		6350-01	14-Aug-95	F48	ETX 012	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	4000.00
20300	6563-04		NC	19-Sep-95	F48	EWI 006						1000.00	
20300	6675-04		NC	10-Oct-95	A49	EWQ 006						<1000.00	
20300	354252		355216	28-Nov-95	A49	HWI 009	<0.50	<1.00	<1.00	<0.78	<3.20		
20300	354252		355216	28-Nov-95	A49	KGF 002						<5000.00	
20300	354252		355216	28-Nov-95	A49	KJD 002							3550.00
20300	354325	(4,5)	355216	28-Nov-95	A49	HWI 012	<0.50	<1.00	<1.00	<0.78	<3.20		
20300	354325	(4,5)	355216	28-Nov-95	A49	KGF 009						<5000.00	
20300	354325	(4,5)	355216	28-Nov-95	A49	KJD 009							3700.00
20300	372447		NC	14-Dec-95	A49	KJB 003						<5000.00	
20300	372455	(4)	NC	14-Dec-95	A49	KJB 004						<5000.00	

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20300	81884		NC	13-May-96	A51	KGV 006						<5000.00	
20300	96U02287		NC	28-Jun-96	A51	AXWZ 005						<100.00	
20300	96U02287		NC	28-Jun-96	A51	AXYM 005							3080.00
20300	96U02287		NC	28-Jun-96	A51	AXZI 008	<1.00	<1.00	<1.00	<1.00	<1.00		
20300	96U02580		NC	29-Jul-96	A52	AYGA 009						140.00	
20300	96U02789		NC	12-Aug-96	A52	AYJM 005						<100.00	
20300	96U03590		96U03641	04-Sep-96	A52	AYZY 004						<100.00	
20300	96U03590		96U03641	04-Sep-96	A52	AZBH 004	<1.00	<1.00	<1.00	<1.00	<1.00		
20300	96U03590		96U03641	04-Sep-96	A52	AZFZ 004							2300.00
20300	96U05554		96U05566	05-Dec-96	A53	BATE 013	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	2920.00
20300	97U00076		NC	08-Jan-97	A54	BBCY 004						<100.00	
20300	97U01004		NC	03-Apr-97	A55	BCYN 005						(JP) <100.00	
20300	97U01421		NC	07-May-97	A55	BDQW 004						(V) <100.00	
20300	97U01876		97U01877	05-Jun-97	A55	BFHV 020	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	
20300	97U01876	(4)	97U01877	05-Jun-97	A55	BFHT 017							3340
20300	97U03085		NC	02-Jul-97	A56	BFWN 005						163.00	
20300	97U03086	(4)	NC	02-Jul-97	A56	BFWN 006						941	
20300	97U03365		NC	06-Aug-97	A56	BGJH 004						<100.00	
20300	97U03366	(4)	NC	06-Aug-97	A56	BGJH 005						<100.00	
20300	97U03675		97U03685	04-Sep-97	A56	BGVW 014	<1.00	<1.00	<1.00	<1.00	<1.00	353.00	3320.00
20400	4106-02		NC	07-Oct-94	F45	DKO 004						4000.00	
20400	4332-06		4332-01	08-Nov-94	F45	DNA 008	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	<5000.00
20400	4532-02		NC	08-Dec-94	F45	DOE 004						<1000.00	
20400	4724-02		NC	17-Jan-95	F46	DOM 004						2000.00	
20400	4819-06		4819-01	01-Feb-95	F46	DPJ 010	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	5200.00
20400	4973-05		NC	02-Mar-95	F46	DQL 007						<1000.00	
20400	5180-02		NC	04-Apr-95	F47	DTE 004						1000.00	
20400	5413-14		5413-09	03-May-95	F47	DXT 009	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	<5000.00
20400	5717-02		NC	08-Jun-95	F47	EEG 004						<1000.00	
20400	6048-02		NC	12-Jul-95	F48	ENS 004						<1000.00	

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20400	6350-06		6350-01	14-Aug-95	F48	ETX 007	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	7000.00
20400	6563-05		NC	19-Sep-95	F48	EWI 007						<1000.00	
20400	6675-06		NC	10-Oct-95	A49	EWQ 008						<1000.00	
20400	354260		355216	28-Nov-95	A49	HWI 005	<0.50	<1.00	<1.00	<0.78	<3.20		
20400	354260		355216	28-Nov-95	A49	KGF 003						<5000.00	
20400	354260		355216	28-Nov-95	A49	KJD 003							5700.00
20400	372439		NC	14-Dec-95	A49	KJB 002						<5000.00	
20400	6947		NC	12-Jan-96	A50	KIL 004						<5000.00	
20400	28630		NC	20-Feb-96	A50	HWO 005	<0.50	<1.00	<1.00	<0.78	<3.20		
20400	28630		NC	20-Feb-96	A50	KGL 003						<5000.00	
20400	28630		NC	20-Feb-96	A50	KGM 003							5170.00
20400	42951		NC	12-Mar-96	A50	KGP 002						<5000.00	
20400	61344		NC	12-Apr-96	A50	KGR 002						<5000.00	
20400	81906		NC	13-May-96	A51	KGV 008						<5000.00	
20400	96U02285		NC	28-Jun-96	A51	AXWZ 003						<100.00	
20400	96U02285		NC	28-Jun-96	A51	AXYM 003							4840.00
20400	96U02285		NC	28-Jun-96	A51	AXZI 006	<1.00	<1.00	<1.00	<1.00	<1.00		
20400	96U02533	(5)	NC	25-Jul-96	A52	AYGA 003						<100.00	
20400	96U02787		NC	12-Aug-96	A52	AYJM 003						<100.00	
20400	96U03591		96U03641	04-Sep-96	A52	AZBH 005	<1.00	<1.00	<1.00	<1.00	<1.00		
20400	96U03591		96U03641	04-Sep-96	A52	AZFZ 005							4930.00
20400	96U03760		96U03641	06-Sep-96	A52	AYZY 009						<100.00	
20400	96U05552		96U05566	05-Dec-96	A53	BATE 011	<1.00	<1.00	<1.00	<1.00	<1.00	163.00	5100.00
20400	97U00075		NC	08-Jan-97	A54	BBCY 003						<100.00	
20400	97U00326		NC	06-Feb-97	A54	BBMF 003						236.00	
20400	97U00404		NC	04-Mar-97	A54	BBYW 010	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	4890.00
20400	97U01003		NC	03-Apr-97	A55	BCYN 004						(JP) <100.00	
20400	97U01453		NC	08-May-97	A55	BDQW 010						(V) <100.00	
20400	97U01864		97U01877	05-Jun-97	A55	BFHV 008	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	4830.00
20400	97U03084		NC	02-Jul-97	A56	BFWN 004						424.00	
20400	97U03672		97U03685	04-Sep-97	A56	BGVW 011	<1.00	<1.00	<1.00	<1.00	<1.00	191.00	4460.00

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20500	4106-03		NC	07-Oct-94	F45	DKO 005						2000.00	
20500	4332-03		4332-01	08-Nov-94	F45	DNA 005	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	<5000.00
20500	4532-03		NC	08-Dec-94	F45	DOE 005						<1000.00	
20500	4724-03		NC	17-Jan-95	F46	DOM 005						2000.00	
20500	4819-03		4819-01	01-Feb-95	F46	DPJ 006	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	4000.00
20500	5180-03		NC	04-Apr-95	F47	DTE 005						1000.00	
20500	5413-12		5413-09	03-May-95	F47	DXT 006	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	<5000.00
20500	5717-03		NC	08-Jun-95	F47	EEG 005						<1000.00	
20500	6048-03		NC	12-Jul-95	F48	ENS 005						1000.00	
20500	6350-03		6350-01	14-Aug-95	F48	ETI 004						<1000.00	7000.00
20500	6563-07	(5)	NC	19-Sep-95	F48	EWI 009						<1000.00	
20500	6675-07	(5)	NC	10-Oct-95	A49	EWQ 009						<1000.00	
20500	354406		355216	28-Nov-95	A49	KGF 012						<5000.00	
20500	354406		355216	28-Nov-95	A49	KJD 012							6700.00
20500	81892		NC	13-May-96	A51	KGV 007						<5000.00	
20500	96U02286		NC	28-Jun-96	A51	AXWZ 004						191.00	
20500	96U02286		NC	28-Jun-96	A51	AXYM 004							4840.00
20500	96U02286		NC	28-Jun-96	A51	AXZI 007	<1.00	<1.00	<1.00	<1.00	<1.00		
20500	96U02578		NC	29-Jul-96	A52	AYGA 007						335.00	
20500	96U02579	(4)	NC	29-Jul-96	A52	AYGA 008						279.00	
20500	96U02788		NC	12-Aug-96	A52	AYJM 004						281.00	
20500	97U01002		NC	03-Apr-97	A55	BCYN 003						(JP) <100.00	
20500	97U01420		NC	07-May-97	A55	BDQW 003						(V) <100.00	
20500	97U01865		97U01877	05-Jun-97	A55	BFHV 009	<1.00	<1.00	<1.00	<1.00	<1.00	168.00	4810.00
20500	97U03082		NC	02-Jul-97	A56	BFWN 002						268.00	
20500	97U03362		NC	06-Aug-97	A56	BGJH 002						617.00	
20500	97U03670		97U03685	04-Sep-97	A56	BGQX 003						144.00	
20500	97U03670		97U03685	04-Sep-97	A56	BGRR 003							5950.00
20700	4343-02		NC	09-Nov-94	F45	DNA 011	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	17000.00

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20700	4724-07		NC	17-Jan-95	F46	DOM 009						1000.00	
20700	4819-08		4819-01	01-Feb-95	F46	DPJ 012	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	18400.00
20700	4973-01		NC	02-Mar-95	F46	DQL 003						<1000.00	
20700	5180-07		NC	04-Apr-95	F47	DTE 009						1000.00	
20700	5413-01		5413-09	02-May-95	F47	DWN 003	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	15100.00
20700	5717-05		NC	08-Jun-95	F47	EEG 007						<1000.00	
20700	6048-05		NC	12-Jul-95	F48	ENS 007						2000.00	
20700	6350-08		6350-01	14-Aug-95	F48	ETX 009	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	25000.00
20700	6563-02		NC	19-Sep-95	F48	EWI 004						<1000.00	
20700	6675-02		NC	10-Oct-95	A49	EWQ 004						<1000.00	
20700	354279		355216	28-Nov-95	A49	HWI 006	<0.50	<1.00	<1.00	<0.78	<3.20		
20700	354279		355216	28-Nov-95	A49	KGF 004						<5000.00	
20700	354279		355216	28-Nov-95	A49	KJD 004							17000.00
20700	372480		NC	14-Dec-95	A49	KJB 007						<5000.00	
20700	6963		NC	12-Jan-96	A50	KIL 006						<5000.00	
20700	28649		NC	20-Feb-96	A50	HWO 006	<0.50	<1.00	0.55	<0.78	<3.20		
20700	28649		NC	20-Feb-96	A50	KGL 004						<5000.00	
20700	28649		NC	20-Feb-96	A50	KGM 004							16200.00
20700	42986	(5)	NC	12-Mar-96	A50	KGP 005						<5000.00	
20700	61379		NC	12-Apr-96	A50	KGR 005						<5000.00	
20700	81850		NC	13-May-96	A51	KGV 003						<5000.00	
20700	96U02292		NC	28-Jun-96	A51	AXWZ 010						261.00	
20700	96U02292		NC	28-Jun-96	A51	AXYN 004							14400.00
20700	96U02292		NC	28-Jun-96	A51	AXZI 013	<1.00	<1.00	<1.00	<1.00	<1.00		
20700	96U02583		NC	29-Jul-96	A52	AYGA 010						212.00	
20700	96U02792		NC	12-Aug-96	A52	AYJM 008						389.00	
20700	96U03592		96U03641	04-Sep-96	A52	AYZY 005						218.00	
20700	96U03592		96U03641	04-Sep-96	A52	AZBH 006	<1.00	<1.00	<1.00	<1.00	<1.00		
20700	96U03592		96U03641	04-Sep-96	A52	AZFZ 006							17200.00
20700	96U05558	(5)	96U05566	05-Dec-96	A53	BATE 017	<1.00	<1.00	<1.00	<1.00	(JP) 0.39	<100.00	12300.00
20700	97U00079	(5)	NC	08-Jan-97	A54	BBCY 007						<100.00	

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20700	97U00328		NC	06-Feb-97	A54	BBMF 005						281.00	
20700	97U00329	(4)	NC	06-Feb-97	A54	BBMF 006						<100.00	
20700	97U00407		NC	04-Mar-97	A54	BBYW 012	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	13600.00
20700	97U01006		NC	03-Apr-97	A55	BCYN 007						(JP) <100.00	
20700	97U01007	(4)	NC	03-Apr-97	A55	BCYN 008						(JP) <100.00	
20700	97U01423	(5)	NC	07-May-97	A55	BDQW 006						(V) 143.00	
20700	97U01871	(5)	97U01877	05-Jun-97	A55	BFHV 015	<1.00	<1.00	<1.00	<1.00	<1.00	104.00	15900.00
20700	97U03088		NC	02-Jul-97	A56	BFWN 008						660.00	
20700	97U03368		NC	06-Aug-97	A56	BGJH 007						<100.00	
20700	97U03677		97U03685	04-Sep-97	A56	BGVW 016	<1.00	<1.00	<1.00	<1.00	<1.00	1100.00	17700.00
20800	4106-01		NC	07-Oct-94	F45	DKO 003						<1000.00	
20800	4332-05		4332-01	08-Nov-94	F45	DNA 007	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	18000.00
20800	4532-01		NC	08-Dec-94	F45	DOE 003						<1000.00	
20800	4724-01		NC	17-Jan-95	F46	DOM 003						1000.00	
20800	4819-05		4819-01	01-Feb-95	F46	DPJ 008	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	17900.00
20800	4973-06		NC	02-Mar-95	F46	DQL 008						<1000.00	
20800	5180-01		NC	04-Apr-95	F47	DTE 003						13000.00	
20800	5413-13		5413-09	03-May-95	F47	DXT 008	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	14400.00
20800	5717-01		NC	08-Jun-95	F47	EEG 003						<1000.00	
20800	6048-01		NC	12-Jul-95	F48	ENS 003						<1000.00	
20800	6350-05		6350-01	14-Aug-95	F48	ETX 006	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	24000.00
20800	6563-06		NC	19-Sep-95	F48	EWI 008						<1000.00	
20800	6675-05		NC	10-Oct-95	A49	EWQ 007						<1000.00	
20800	354287		355216	28-Nov-95	A49	HWI 004	<0.50	<1.00	<1.00	<0.78	<3.20		
20800	354287		355216	28-Nov-95	A49	KGF 005						<5000.00	
20800	354287		355216	28-Nov-95	A49	KJD 005							17000.00
20800	372420		NC	14-Dec-95	A49	KJB 001						<5000.00	
20800	6920		NC	12-Jan-96	A50	KIL 002						<5000.00	
20800	6939	(4)	NC	12-Jan-96	A50	KIL 003						<5000.00	
20800	28657		NC	20-Feb-96	A50	HWO 007	<0.50	<1.00	<1.00	<0.78	<3.20		

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #	Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)						15	0.33	18000	9.4			
20800	28657	NC	20-Feb-96	A50	KGL 005						<5000.00	
20800	28657	NC	20-Feb-96	A50	KGM 005							18400.00
20800	42943	NC	12-Mar-96	A50	KGP 001						<5000.00	
20800	61336	NC	12-Apr-96	A50	KGR 001						<5000.00	
20800	81914	NC	13-May-96	A51	KGV 009						<5000.00	
20800	96U02284	NC	28-Jun-96	A51	AXWZ 002						156.00	
20800	96U02284	NC	28-Jun-96	A51	AXYM 002							13000.00
20800	96U02284	NC	28-Jun-96	A51	AXZI 003	<1.00	<1.00	<1.00	<1.00	<1.00		
20800	96U02532	NC	25-Jul-96	A52	AYGA 002						196.00	
20800	96U02786	NC	12-Aug-96	A52	AYJM 002						326.00	
20800	96U03593	96U03641	04-Sep-96	A52	AYZY 006						160.00	
20800	96U03593	96U03641	04-Sep-96	A52	AZBH 007	<1.00	<1.00	<1.00	<1.00	<1.00		
20800	96U03593	96U03641	04-Sep-96	A52	AZFZ 007							16100.00
20800	96U05551	96U05566	05-Dec-96	A53	BATE 010	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	12600.00
20800	97U00074	NC	08-Jan-97	A54	BBCY 002						<100.00	
20800	97U00325	NC	06-Feb-97	A54	BBMF 002						152.00	
20800	97U00403	NC	04-Mar-97	A54	BBYW 009	<1.00	<1.00	<1.00	<1.00	<1.00	104.00	12800.00
20800	97U01001	NC	03-Apr-97	A55	BCYN 002						104.00	
20800	97U01419	NC	07-May-97	A55	BDQW 002						(V) 129.00	
20800	97U01863	97U01877	05-Jun-97	A55	BFHV 007	<1.00	<1.00	<1.00	<1.00	<1.00	158.00	13900.00
20800	97U03083	NC	02-Jul-97	A56	BFWN 003						509.00	
20800	97U03363	NC	06-Aug-97	A56	BGJH 003						665.00	
20800	97U03671	97U03685	04-Sep-97	A56	BGVW 010	<1.00	<1.00	<1.00	<1.00	<1.00	238.00	15100.00
20900	4332-02	4332-01	08-Nov-94	F45	DNA 004	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	18000.00
20900	4819-02	4819-01	01-Feb-95	F46	DPJ 005	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	19400.00
20900	5413-10	5413-09	02-May-95	F47	DXT 004	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	
20900	5413-10	5413-09	03-May-95	F47	DWI 012							14600.00
20900	6350-02	6350-01	14-Aug-95	F48	ETX 004	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	27000.00
20900	354295	355216	28-Nov-95	A49	HWI 008	<0.50	<1.00	<1.00	<0.78	<3.20		
20900	354295	355216	28-Nov-95	A49	KGF 006						<5000.00	

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #		Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)							15	0.33	18000	9.4			
20900	354295		355216	28-Nov-95	A49	KJD 006							17000.00
20900	28665		NC	20-Feb-96	A50	HWO 008	<0.50	<1.00	<1.00	<0.78	<3.20		
20900	28665		NC	20-Feb-96	A50	KGL 006						<5000.00	
20900	28665		NC	20-Feb-96	A50	KGM 006							19400.00
20900	96U02299		NC	28-Jun-96	A51	AXWZ 017						265.00	
20900	96U02299		NC	28-Jun-96	A51	AXYO 003							13800.00
20900	96U02299		NC	28-Jun-96	A51	AXZI 020	<1.00	<1.00	<1.00	<1.00	<1.00		
20900	96U03594		96U03641	04-Sep-96	A52	AYZY 007						357.00	
20900	96U03594		96U03641	04-Sep-96	A52	AZBH 008	<1.00	<1.00	<1.00	<1.00	<1.00		
20900	96U03594		96U03641	04-Sep-96	A52	AZFZ 008							20600.00
20900	96U05561		96U05566	05-Dec-96	A53	BATE 019	<1.00	<1.00	<1.00	<1.00	<1.00	123.00	12700.00
20900	97U00411		NC	04-Mar-97	A54	BBYW 014	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	15200.00
20900	97U01862		97U01877	05-Jun-97	A55	BFHV 006	<1.00	<1.00	<1.00	<1.00	<1.00	196.00	14300.00
20900	97U03679	(5)	97U03685	04-Sep-97	A56	BGVW 017	<1.00	<1.00	<1.00	<1.00	<1.00	790.00	15100.00
21000	4332-04		4332-01	08-Nov-94	F45	DNA 006	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	17000.00
21000	4819-04		4819-01	01-Feb-95	F46	DPJ 007	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	17500.00
21000	5413-15		5413-09	03-May-95	F47	DXT 010	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	13600.00
21000	6350-04		6350-01	14-Aug-95	F48	ETX 005	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	24000.00
21000	354309		355216	28-Nov-95	A49	HWI 010	<0.50	<1.00	<1.00	<0.78	<3.20		
21000	354309		355216	28-Nov-95	A49	KGF 007						<5000.00	
21000	354309		355216	28-Nov-95	A49	KJD 007							17500.00
21000	28673	(5)	NC	20-Feb-96	A50	HWO 009	<0.50	<1.00	<1.00	<0.78	<3.20		
21000	28673	(5)	NC	20-Feb-96	A50	KGL 007						<5000.00	
21000	28673	(5)	NC	20-Feb-96	A50	KGM 007							18400.00
21000	96U02298		NC	28-Jun-96	A51	AXWZ 016						160.00	
21000	96U02298		NC	28-Jun-96	A51	AXYO 002							13400.00
21000	96U02298		NC	28-Jun-96	A51	AXZI 019	<1.00	<1.00	<1.00	<1.00	<1.00		
21000	96U03595	(5)	96U03641	04-Sep-96	A52	AYZY 008						171.00	
21000	96U03595	(5)	96U03641	04-Sep-96	A52	AZBH 009	<1.00	<1.00	<1.00	<1.00	<1.00		
21000	96U03595	(5)	96U03641	04-Sep-96	A52	AZFZ 009							15100.00

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #	Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)						15	0.33	18000	9.4			
21000	96U05553	96U05566	05-Dec-96	A53	BATE 012	<1.00	<1.00	<1.00	<1.00	<1.00	172.00	12900.00
21000	97U00409 (5)	NC	04-Mar-97	A54	BBYW 013	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	13400.00
21000	97U01861	97U01877	05-Jun-97	A55	BFHV 003	<1.00	<1.00	<1.00	<1.00	<1.00	134.00	12500.00
21000	97U03669	97U03685	04-Sep-97	A56	BGVW 009	<1.00	<1.00	<1.00	<1.00	<1.00	1980.00	15100.00
21100	4343-03	NC	09-Nov-94	F45	DNA 012	<1.04	<1.01	<1.16	<0.97	2.90	1200.00	7000.00
21100	5413-05	5413-09	02-May-95	F47	DWN 008	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	8300.00
21100	6350-09	6350-01	14-Aug-95	F48	ETX 010	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	11000.00
21100	354317	355216	28-Nov-95	A49	HWI 011	<0.50	<1.00	0.75	<0.78	<3.20		
21100	354317	355216	28-Nov-95	A49	KGF 008						<5000.00	
21100	354317	355216	28-Nov-95	A49	KJD 008							9550.00
21100	96U02291	NC	28-Jun-96	A51	AXWZ 009						105.00	
21100	96U02291	NC	28-Jun-96	A51	AXYN 003							15300.00
21100	96U02291	NC	28-Jun-96	A51	AXZI 012	<1.00	<1.00	<1.00	<1.00	<1.00		
21100	96U05557	96U05566	05-Dec-96	A53	BATE 016	<1.00	<1.00	<1.00	<1.00	(JP) 0.37	132.00	7790.00
21100	97U01873	97U01877	05-Jun-97	A55	BFHV 017	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	12200.00
21100	97U03676	97U03685	04-Sep-97	A56	BGVW 015	<1.00	<1.00	<1.00	<1.00	<1.00	547.00	9560.00
21200	5413-06	5413-09	02-May-95	F47	DWN 009	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	15300.00
21200	96U02294	NC	28-Jun-96	A51	AXWZ 012						126.00	
21200	96U02294	NC	28-Jun-96	A51	AXYN 006							6530.00
21200	96U02294	NC	28-Jun-96	A51	AXZI 015	<1.00	<1.00	<1.00	<1.00	<1.00		
21200	97U01867	97U01877	05-Jun-97	A55	BFHV 011	<1.00	<1.00	<1.00	<1.00	<1.00	1250.00	30200.00
21300	5413-07	5413-09	02-May-95	F47	DWN 010	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	9700.00
21300	96U02295	NC	28-Jun-96	A51	AXWZ 013						745.00	
21300	96U02295	NC	28-Jun-96	A51	AXYN 007							10700.00
21300	96U02295	NC	28-Jun-96	A51	AXZI 016	<1.00	<1.00	<1.00	<1.00	<1.00		
21300	97U01868	97U01877	05-Jun-97	A55	BFHV 012	<1.00	<1.00	<1.00	<1.00	<1.00	1870.00	22700.00
21400	5413-08	5413-09	02-May-95	F47	DWN 011	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	7800.00

APPENDIX F.2
Surface Water Quality Data (Organics) - ug/l

Location (1)	Sample Lab #	Trip Blank Lab #	Date	Qtr (2)	Lot #	Trichloro ethene TRCLE	1,1-Dichloro ethene 11DCE	1,1,1-Trichloro ethane 111TCE	1,1-Dichloro ethane 11DCLE	Methylene Chloride CH2CL2	Oil & Grease OILGR (ug/l)	Total Organic Carbon TOC
TCAAP SW Action Criteria (3)						15	0.33	18000	9.4			
21400	96U02296	NC	28-Jun-96	A51	AXWZ 014						198.00	
21400	96U02296	NC	28-Jun-96	A51	AXYN 008							17900.00
21400	96U02296	NC	28-Jun-96	A51	AXZI 017	<1.00	<1.00	<1.00	<1.00	<1.00		
21400	97U01869	97U01877	05-Jun-97	A55	BFHV 013	<1.00	<1.00	<1.00	<1.00	<1.00	<100.00	16000.00
21600	5413-11	5413-09	03-May-95	F47	DXT 005	<1.04	<1.01	<1.16	<0.97	<1.41	<1000.00	7600.00
21600	96U02297	NC	28-Jun-96	A51	AXWZ 015						429.00	
21600	96U02297	NC	28-Jun-96	A51	AXYN 009							6400.00
21600	96U02297	NC	28-Jun-96	A51	AXZI 018	<1.00	<1.00	<1.00	<1.00	<1.00		
21600	97U01870	97U01877	05-Jun-97	A55	BFHV 014	<1.00	<1.00	<1.00	<1.00	<1.00	269.00	7520.00

F.3 Surface Water Quality Data (Inorganics)

Notes:

(1) Sites refer to monitoring locations illustrated on Figure VI.A-1 of this report.

(2) Qtr = Quarter. Under this heading, F = FCC and A = Alliant Techsystems Inc.

(3) 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 not shown since they involve a calculation using hardness. Refer to Table 3.7B for these calculations.

(4) Duplicate sample collected for QA/QC purposes.

(5) Field blank collected at this location. See Appendix E.2 for FY 1997 field blank data.

(6) These entries are the lot and sample numbers for the corresponding data points.

"Field" denotes sample analysis for this data point was performed in the field and not in the lab.

Flagging Codes
Flagging codes (if necessary) are presented in parentheses next to the data value. See Appendix D.2 for explanations.

Data Qualifiers
Data qualifier codes (if necessary) are presented next to the data value (not in parentheses). See Appendix D.3 for explanations.

Shading denotes FY 1997 exceedances or potential exceedances of TCAAP action criteria. Exceedances are concentrations greater than the TCAAP action criteria. Potential exceedances are values reported as "less than the method detection limit," where the method detection limit is greater than the TCAAP action criteria.

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20100	07-Oct-94	F45									L<12.10	165.00							2080	
20100 (6)	07-Oct-94	F45									DKK 007	DKL 007							DKQ 004	
20100	08-Nov-94	F45																		
20100 (6)	08-Nov-94	F45																		
20100	09-Nov-94	F45		<0.10	<2.18	11.20	<5.94			<8.35	<12.10	15.50	35.10	<3.70	4.00	<10.90	<4000.00	39.80	1800	150
20100 (6)	09-Nov-94	F45		DNG 011	DNH 009	DNI 008	DNJ 009			DNK 009	DNB 009	DNC 009	DNL 009	DNV 003	DNV 003	DNW 003	DNO 008	DNM 009	DNT 006	DNP 008
20100	08-Dec-94	F45									<12.10	17.70							2170	
20100 (6)	08-Dec-94	F45									DOA 006	DOB 007							DOG 004	
20100	17-Jan-95	F46									<12.10	36.10							1180	
20100 (6)	17-Jan-95	F46									DOI 061	DOJ 007							DOO 004	
20100	01-Feb-95	F46		<0.10	<2.18	7.33	<5.94	<2.65		<8.35	<12.10	34.10	<29.40				<4000.00	40.00	850	360
20100 (6)	01-Feb-95	F46		DOV 009	DOW 009	DOX 009	DOZ 009	OY 004		DPC 009	DOQ 031	DOR 009	DPD 009				DPG 008	DPE 010	DPL 006	DPH 008
20100	02-Mar-95	F46									<12.10	52.20							640.00	
20100 (6)	02-Mar-95	F46									DQH 005	DQI 005							DQN 002	
20100	04-Apr-95	F47									<12.10	35.10							3250	
20100 (6)	04-Apr-95	F47									DTA 037	DTB 007							DTG 004	
20100	02-May-95	F47	<1.93	0.13	<2.18	6.89	11.60	3.42	<0.70	<8.35	<12.10	12.00	49.10	<3.70	6.10	<8.00	<4000.00	34.00	4300	110000
20100 (6)	02-May-95	F47	DWD 019	DVY 014	DVZ 007	DWA 005	DWC 005	WB 005	DWE 007	DWF 004	DVS 010	DVU 005	DWG 005	DWP 002	DWP 002	DWQ 002	DWJ 004	DWH 005	DWT 002	DWK 004
20100	08-Jun-95	F47									<12.10	60.20							1230	
20100 (6)	08-Jun-95	F47									EEC 015	EED 007							EEI 004	
20100	12-Jul-95	F48									<12.10	58.20							1170	
20100 (6)	12-Jul-95	F48									ENO 007	ENP 017							ENU 004	
20100	14-Aug-95	F48		0.13	<2.18	4.26	R 7.56	3.57		<8.35	<12.10	171.00	55.10				6000.00	48.00	920	120000
20100 (6)	14-Aug-95	F48		ETJ 038	ETK 009	ETL 055	ETN 011	TM 015		ETQ 008	ETE 018	ETF 009	ETR 012				ETU 008	ETS 008	ETZ 006	ETV 008
20100	19-Sep-95	F48										76.30							1100	
20100 (6)	19-Sep-95	F48										EWF 004							EWK 001	
20100	10-Oct-95	A49									<12.10	110.00							0.00	
20100 (6)	10-Oct-95	A49									EWM 008	EWN 004							EWS 001	
20100	28-Nov-95	A49		<5.00	<15.00	<20.00	<63.10	<100.00		<8.17	<20.00	<50.00	<13.00					<50.00	1480.00	<100.00
20100 (6)	28-Nov-95	A49		IRL 020	IRL 020	IRL 020	IRL 020	IRL 020		IMQ 016	FVX 015	FVY 014	IRL 020					KGH 015	Field	KIG 016
20100 (4)	28-Nov-95	A49								<8.17										
20100 (4,6)	28-Nov-95	A49								IMQ 017										
20100	28-Nov-95	A49																		
20100 (6)	28-Nov-95	A49															4000.00			
20100	14-Dec-95	A49															EXO 001			
20100 (6)	14-Dec-95	A49									<20.00	<50.00							2700.00	
20100 (4)	14-Dec-95	A49									KIE 011	KID 011							Field	
20100 (4,6)	14-Dec-95	A49																		
20100 (5)	12-Jan-96	A50									<10.00	<50.00							400.00	
20100 (6)	12-Jan-96	A50									KIJ 005	KIJA 009							Field	
20100	20-Feb-96	A50		<5.00	<15.00	<20.00	<5.00	<4.00		<8.17	20.00	<50.00	<13.00					<50.00	1000.00	300.00
20100 (6)	20-Feb-96	A50		IRO 005	IRO 005	IRO 005	EXU 002	KEF 002		IMR 004	KIO 002	KIP 002	IRO 005					KGK 002	Field	KIR 002
20100 (4)	20-Feb-96	A50									20.00	<50.00						<50.00		300.00
20100 (4,6)	20-Feb-96	A50									KIO 003	KIP 003						KGK 003		KIR 003
20100 (4)	20-Feb-96	A50																		

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20100	07-Oct-94	F45	2400.00	6.87	315.00	35000.00													
20100 (6)	07-Oct-94	F45	DKN 006	DKP 004	DKR 004	DKM 006													
20100	08-Nov-94	F45		6.20			<10.00												
20100 (6)	08-Nov-94	F45		DNS 006			DNQ 004												
20100	09-Nov-94	F45	40000.00		255.00	7000.00	<10.00												
20100 (6)	09-Nov-94	F45	DNE 009		DNU 006	DND 008	DNR 002												
20100	08-Dec-94	F45	33700.00	7.64	307.00	2000.00													
20100 (6)	08-Dec-94	F45	DOD 009	DOF 004	DOH 004	DOC 006													
20100	17-Jan-95	F46	38600.00	6.88	351.00	7000.00													
20100 (6)	17-Jan-95	F46	DOL 014	DON 004	DOP 004	DOK 006													
20100	01-Feb-95	F46	37700.00	7.08	336.00	5000.00	<10.00												
20100 (6)	01-Feb-95	F46	DOT 030	DPK 006	DPM 006	DOS 008	DPI 007												
20100	02-Mar-95	F46	44900.00	6.72		9000.00													
20100 (6)	02-Mar-95	F46	DQK 018	DQM 002		DQJ 004													
20100	04-Apr-95	F47	39900.00	7.18	442.00	5000.00													
20100 (6)	04-Apr-95	F47	DTD 024	DTF 004	DTH 004	DTC 006													
20100	02-May-95	F47	39500.00	7.44	360.00	<1000.00	200.00	<5.00	<8.00	3.70	<1.00	<0.90							
20100 (6)	02-May-95	F47	DVW 004	DWS 002	DWU 002	DVV 004	DWL 003	DWQ 002	DWQ 002	DWR 002	DWR 002	DWR 002							
20100	08-Jun-95	F47	28000000.00	6.60	320.00	14000.00													
20100 (6)	08-Jun-95	F47	EEF 033	EEH 004	EEJ 004	EEE 006													
20100	12-Jul-95	F48	24000000.00	6.56	306.00	4000.00													
20100 (6)	12-Jul-95	F48	ENR 013	ENT 004	ENV 004	ENQ 006													
20100	14-Aug-95	F48	16.50	7.02	278.00	11000.00	620.00												
20100 (6)	14-Aug-95	F48	ETH 018	ETY 006	EUA 006	ETG 008	ETW 007												
20100	19-Sep-95	F48	28500.00	6.90	354.00	29000.00													
20100 (6)	19-Sep-95	F48	EWH 035	EWJ 001	EWL 001	EWG 003													
20100	10-Oct-95	A49	30200.00	7.05	320.00	27000.00													
20100 (6)	10-Oct-95	A49	EWP 055	EWR 001	EWT 001	EWO 003													
20100	28-Nov-95	A49	34000.00	8.00		<10000.00													
20100 (6)	28-Nov-95	A49	FVZ 014	Field		AKL 010													
20100 (4)	28-Nov-95	A49	34000.00																
20100 (4,6)	28-Nov-95	A49	FVZ 015																
20100	28-Nov-95	A49					10.00												
20100 (6)	28-Nov-95	A49					EXN 002												
20100	14-Dec-95	A49	35000.00	6.94		<10000.00													
20100 (6)	14-Dec-95	A49	KIB 011	Field		KJA 008													
20100 (4)	14-Dec-95	A49				<10000.00													
20100 (4,6)	14-Dec-95	A49				KJA 009													
20100 (5)	12-Jan-96	A50	39000.00	6.45		<10000.00													
20100 (6)	12-Jan-96	A50	KIK 010	Field		KGG 006													
20100	20-Feb-96	A50	36600.00	6.41		<10000.00													
20100 (6)	20-Feb-96	A50	KIQ 002	Field		KGJ 002													
20100 (4)	20-Feb-96	A50				<10000.00													
20100 (4,6)	20-Feb-96	A50				KGJ 003													
20100 (4)	20-Feb-96	A50	2060.00																

APPENDIX F.3

Surface Water *Quality Data* (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20100 (4,6)	20-Feb-96	A50																		
20100	20-Feb-96	A50															<4000.00			
20100 (6)	20-Feb-96	A50															EXQ 001			
20100	12-Mar-96	A50									<20.00	80.00							600.00	
20100 (6)	12-Mar-96	A50									KIT 010	KIU 010							Field	
20100	12-Mar-96	A50																		
20100 (6)	12-Mar-96	A50																		
20100 (5)	12-Apr-96	A51									<20.00	<50.00							1200.00	
20100 (6)	12-Apr-96	A51									KIZ 009	KKA 009							Field	
20100 (5)	13-May-96	A51									<20.00								3300.00	
20100 (6)	13-May-96	A51									KKH 002								Field	
20100 (4,5)	13-May-96	A51									<20.00	<50.00								
20100 (4,6)	13-May-96	A51									KKH 003	KKG 002								
20100	27-Jun-96	A51									<500.00								400.00	
20100 (6)	27-Jun-96	A51									AXXJ 011								Field	
20100	27-Jun-96	A51															<4.00			
20100 (6)	27-Jun-96	A51															EXS 011			
20100	28-Jun-96	A51	<10.00	5.15	<10.00	<20.00	<40.00	<100.00		<5.00		83.00	<20.00	<0.27	1.60			52.90		<50.00
20100 (6)	28-Jun-96	A51	XVZ 015	XVZ 015	XVZ 015	XVZ 015	XVZ 015	XVZ 015		AXWB 017		AXZR 014	XVZ 015	XZZ 013	XZZ 013			AXYR 011		AXXA 011
20100	25-Jul-96	A52										428.00							1500.00	
20100 (6)	25-Jul-96	A52										AYFW 010							Field	
20100	30-Jul-96	A52									<500.00									
20100 (6)	30-Jul-96	A52									AYDP 009									
20100 (5)	12-Aug-96	A52							<0.20		<500.00	328.00							460.00	
20100 (6)	12-Aug-96	A52							AYKI 019		AYHD 009	YWF 009							Field	
20100	04-Sep-96	A52		<5.00	<10.00	<20.00	<40.00	<100.00		<10.00	<500.00	228.00	24.30					69.80	850.00	206.00
20100 (6)	04-Sep-96	A52		AYYT 015	YYT 015	YYT 015	YYT 015	YYT 015		AYZN 011	YZF 011	YXC 011	YYT 015					AYZL 011	Field	ZDR 011
20100	04-Sep-96	A52															<8.00			
20100 (6)	04-Sep-96	A52															EXU 011			
20100 (5)	02-Oct-96	A53									<500.00	41.40								
20100 (6)	02-Oct-96	A53									AZIY 008	ZOA 009								
20100	06-Nov-96	A53									<500.00	169.00								
20100 (6)	06-Nov-96	A53									BAAL 010	BAIC 012								
20100	05-Dec-96	A53															<6000.00			
20100 (6)	05-Dec-96	A53															EXX 011			
20100	05-Dec-96	A53		<5.00	<10.00	<20.00	<40.00	<100.00		<10.00	<500.00	43.00	<20.00					49300.00		21.10
20100 (6)	05-Dec-96	A53		BAOE 013	AOE 013	AOE 013	AOE 013	AOE 013		BANU 011	AML 011	ARD 013	AOE 013					BASA 011		BAWG 011
20100	08-Jan-97	A54									<500.00	23.50								
20100 (6)	08-Jan-97	A54									BBAM 009	BBW 011								
20100 (5)	06-Feb-97	A54									<100.00	83.30								
20100 (6)	06-Feb-97	A54									BBJW 007	BQF 009								
20100	04-Mar-97	A54															<6000.00			
20100 (6)	04-Mar-97	A54															EYJ 007			
20100	04-Mar-97	A54		<5.00	<10.00	<20.00	<40.00	<100.00		<10.00	<100.00	192.00	<20.00					52500.00		255.00
20100 (6)	04-Mar-97	A54		BBTT 011	BTT 011	BTT 011	BTT 011	BTT 011		BBXM 015	BRW 007	BCJC 005	BTT 011					BBXZ 005		BCLR 005

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20100 (4,6)	20-Feb-96	A50	KIQ 003																
20100	20-Feb-96	A50					4.00												
20100 (6)	20-Feb-96	A50					EXP 002												
20100	12-Mar-96	A50	44100.00	6.28		<10000.00													
20100 (6)	12-Mar-96	A50	KIW 010	Field		KGO 008													
20100	12-Mar-96	A50				<10000.00													
20100 (6)	12-Mar-96	A50				AKL 005													
20100 (5)	12-Apr-96	A51	37000.00	6.37		<10000.00													
20100 (6)	12-Apr-96	A51	KKB 009	Field		KGQ 007													
20100 (5)	13-May-96	A51	43000.00	6.71		<10000.00													
20100 (6)	13-May-96	A51	KKI 002	Field		KGT 001													
20100 (4,5)	13-May-96	A51	43000.00			<10000.00													
20100 (4,6)	13-May-96	A51	KKI 003			KGT 002													
20100	27-Jun-96	A51	29900.00	6.10		<4000.00													
20100 (6)	27-Jun-96	A51	AXXI 011	Field		AXWE 011													
20100	27-Jun-96	A51					120.00												
20100 (6)	27-Jun-96	A51					EXR 011												
20100	28-Jun-96	A51											36.00	140.00				2.30	13.00
20100 (6)	28-Jun-96	A51											AXZJ 014	AXZJ 014				AXZJ 014	AXZJ 014
20100	25-Jul-96	A52		6.50		16500.00													
20100 (6)	25-Jul-96	A52		Field		AZME 009													
20100	30-Jul-96	A52	33400.00																
20100 (6)	30-Jul-96	A52	AYDQ 009																
20100 (5)	12-Aug-96	A52	30500.00	6.30		29000.00													
20100 (6)	12-Aug-96	A52	AYHE 009	Field		AYSO 009													
20100	04-Sep-96	A52	33600.00	7.3		29000.00													
20100 (6)	04-Sep-96	A52	AYZP 011	Field		AYYU 011													
20100	04-Sep-96	A52					3200.00												
20100 (6)	04-Sep-96	A52					EXT 011												
20100 (5)	02-Oct-96	A53	35700.00			7000.00													
20100 (6)	02-Oct-96	A53	AZIZ 008			AZJG 008													
20100	06-Nov-96	A53	35500.00			5000.00													
20100 (6)	06-Nov-96	A53	BAAX 010			BACW 010													
20100	05-Dec-96	A53					60.00												
20100 (6)	05-Dec-96	A53					EXW 011												
20100	05-Dec-96	A53	37700.00			<4000.00													
20100 (6)	05-Dec-96	A53	BANJ 011			BAQI 011													
20100	08-Jan-97	A54	45900.00			<4000.00													
20100 (6)	08-Jan-97	A54	BBAN 009			BBBU 009													
20100 (5)	06-Feb-97	A54	51800.00			<4000.00													
20100 (6)	06-Feb-97	A54	BBJX 007			BBMW 007													
20100	04-Mar-97	A54					4.00												
20100 (6)	04-Mar-97	A54					EYI 007												
20100	04-Mar-97	A54	63100.00			7000.00													
20100 (6)	04-Mar-97	A54	BBSD 007			BBVF 007													

APPENDIX F.3

Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20100	07-Mar-97	A54					<100.00													
20100 (6)	07-Mar-97	A54					BCKP 003													
20100 (4)	07-Mar-97	A54					<100.00													
20100 (4,6)	07-Mar-97	A54					BCKP 004													
20100 (4)	07-Mar-97	A54					<100.00													
20100 (4,6)	07-Mar-97	A54					BCKP 007													
20100 (5)	03-Apr-97	A55									<200.00	47.10								
20100 (6)	03-Apr-97	A55									BCPF 009	CYF 009								
20100	07-May-97	A55									(V) <500.00	(V) 36.20								
20100 (6)	07-May-97	A55									BDHG 007	DKB 007								
20100 (4)	07-May-97	A55									(V) <500.00	(V) 36.70								
20100 (4,6)	07-May-97	A55									BDHG 008	DKB 008								
20100	05-Jun-97	A55															<6000.00			
20100 (6)	05-Jun-97	A55															EYL 007			
20100	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	63.40	<20.00	0.92	3.36			54500.00		(JP) 40.00
20100 (6)	05-Jun-97	A55	FDD 011	FDD 011	FDD 011	FDD 011	FDD 011	FDD 011	BFFC 010	BFDP 007	DYY 007	FKC 007	FDD 011	BFNL 009	BFNL 009			BFGS 007		BFKH 007
20100 (5)	02-Jul-97	A56									<200.00	120.00								
20100 (6)	02-Jul-97	A56									BFSG 009	GBX 009								
20100 (5)	06-Aug-97	A56									<500.00	53.10								
20100 (6)	06-Aug-97	A56									BGHH 009	GLR 010								
20100	04-Sep-97	A56															<6000.00			
20100 (6)	04-Sep-97	A56															EYN 012			
20100	04-Sep-97	A56		<5.00	<10.00	<20.00	<40.00	<30.80		<5.00	<500.00	16.30	<20.00					32400.00		<50.00
20100 (6)	04-Sep-97	A56		BGQY 015	GQY 015	GQY 015	GQY 015	QY 015		BGQF 011	BGPT 011	GVR 016	GQY 015					BGRS 011		BGRQ 011
20200	07-Oct-94	F45									L<12.10	72.30							9350	
20200 (6)	07-Oct-94	F45									DKK 008	DKL 008							DKQ 005	
20200	08-Nov-94	F45																		
20200 (6)	08-Nov-94	F45																		
20200	09-Nov-94	F45		<0.10	<2.18	6.46	<5.94			<8.35	<12.10	42.80	42.10				<4000.00	13.50	5150	170
20200 (6)	09-Nov-94	F45		DNG 014	DNH 012	DNI 011	DNJ 012			DNK 012	DNB 012	DNC 012	DNL 012				DNO 011	DNM 012	DNT 009	DNP 011
20200	08-Dec-94	F45									<12.10	46.60							7790	
20200 (6)	08-Dec-94	F45									DOA 007	DOB 008							DOG 005	
20200	17-Jan-95	F46									<12.10	151.00							11000	
20200 (6)	17-Jan-95	F46									DOI 062	DOJ 008							DOO 005	
20200	01-Feb-95	F46	<1.93	<0.10	<2.18	14.40	<5.94			<8.35	<12.10	23.10	<29.40				<4000.00	9.00	10000	120
20200 (6)	01-Feb-95	F46	DPA 010	DOV 011	DOW 011	DOX 011	DOZ 011			DPC 011	DOQ 039	DOR 011	DPD 011				DPG 010	DPE 012	DPL 008	DPH 010
20200	02-Mar-95	F46									<12.10	81.30							12500.00	
20200 (6)	02-Mar-95	F46									DQH 006	DQI 006							DQN 003	
20200	04-Apr-95	F47									<12.10	61.20							9200	
20200 (6)	04-Apr-95	F47									DTA 038	DTB 008							DTG 006	
20200	02-May-95	F47	<1.93	<0.10	<2.18	5.41	<5.94	<2.65	<0.70	<8.35	<12.10	57.20	31.10			<14.20	<4000.00	28.00	9440	430000
20200 (6)	02-May-95	F47	DWD 021	DVY 016	DVZ 009	DWA 007	DWC 007	WB 007	DWE 009	DWF 008	DVS 014	DVU 007	DWG 007			DWQ 004	DWJ 006	DWH 007	DWT 004	DWK 006
20200	08-Jun-95	F47									<12.10	62.20							9900	
20200 (6)	08-Jun-95	F47									EEC 019	EED 009							EEI 006	

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20100	07-Mar-97	A54																	
20100 (6)	07-Mar-97	A54																	
20100 (4)	07-Mar-97	A54																	
20100 (4,6)	07-Mar-97	A54																	
20100 (4)	07-Mar-97	A54																	
20100 (4,6)	07-Mar-97	A54																	
20100 (5)	03-Apr-97	A55	(B) 39000.00			<4000.00													
20100 (6)	03-Apr-97	A55	BCPG 009			BCSW 009													
20100	07-May-97	A55	(V) 38100.00			(V) <4000.00													
20100 (6)	07-May-97	A55	BDNH 007			BDHS 007													
20100 (4)	07-May-97	A55	(V) 38400.00			(V) <4000.00													
20100 (4,6)	07-May-97	A55	BDNH 008			BDHS 008													
20100	05-Jun-97	A55					150.00												
20100 (6)	05-Jun-97	A55					EYK 007												
20100	05-Jun-97	A55	35300.00			7000.00			2.08										
20100 (6)	05-Jun-97	A55	BDYZ 007			BFHQ 008			BFCB 009										
20100 (5)	02-Jul-97	A56	10300.00			<4000.00													
20100 (6)	02-Jul-97	A56	BGBC 009			BGBY 009													
20100 (5)	06-Aug-97	A56	28600.00			<4000.00													
20100 (6)	06-Aug-97	A56	BGHJ 009			BGKV 009													
20100	04-Sep-97	A56					90.00												
20100 (6)	04-Sep-97	A56					EYM 011												
20100	04-Sep-97	A56	26500.00			<4000.00													
20100 (6)	04-Sep-97	A56	BGPV 011			BGSX 011													
20200	07-Oct-94	F45	7800.00	7.60	688.00	<1000.00													
20200 (6)	07-Oct-94	F45	DKN 007	DKP 005	DKR 005	DKM 007													
20200	08-Nov-94	F45		7.68															
20200 (6)	08-Nov-94	F45		DNS 009															
20200	09-Nov-94	F45	150000.00		593.00	<1000.00	<10.00												
20200 (6)	09-Nov-94	F45	DNE 013		DNU 009	DND 011	DNR 005												
20200	08-Dec-94	F45	125000.00	7.74	610.00	<2000.00													
20200 (6)	08-Dec-94	F45	DOD 010	DOF 005	DOH 005	DOC 007													
20200	17-Jan-95	F46	152000.00	7.07	522.00	13000.00													
20200 (6)	17-Jan-95	F46	DOL 015	DON 005	DOP 005	DOK 007													
20200	01-Feb-95	F46	107000.00	7.01	627.00	<1000.00	<10.00												
20200 (6)	01-Feb-95	F46	DOT 038	DPK 008	DPM 008	DOS 010	DPI 009												
20200	02-Mar-95	F46	101000.00	7.40		5000.00													
20200 (6)	02-Mar-95	F46	DQK 019	DQM 003		DQJ 005													
20200	04-Apr-95	F47	116000.00	8.01	946.00	2000.00													
20200 (6)	04-Apr-95	F47	DTD 025	DTF 006	DTH 006	DTC 007													
20200	02-May-95	F47	117000.00	7.78	983.00	<1000.00	<10.00	<14.20	<5.80	2.20	1.00	1.80							
20200 (6)	02-May-95	F47	DVW 008	DWS 004	DWU 004	DVV 006	DWL 005	DWQ 004	DWQ 004	DWR 004	DWR 004	DWR 004							
20200	08-Jun-95	F47	88000000.00	7.70	776.00	4000.00													
20200 (6)	08-Jun-95	F47	EEF 035	EEH 006	EEJ 006	EEE 008													

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20200	12-Jul-95	F48									<12.10	43.20							10200	
20200 (6)	12-Jul-95	F48									ENO 009	ENP 020							ENU 006	
20200	14-Aug-95	F48	<1.93	0.14	<2.18	4.06	R<5.94			<8.35	<12.10	62.20	<29.40				<4000.00	15.00	9080	170000
20200 (6)	14-Aug-95	F48	ETO 025	ETJ 044	ETK 012	ETL 061	ETN 016			ETQ 012	ETE 023	ETF 012	ETR 017				ETU 011	ETS 011	ETZ 009	ETV 011
20200	19-Sep-95	F48									<12.10	36.10							7200	
20200 (6)	19-Sep-95	F48									EWE 013	EWF 006							EWK 003	
20200	10-Oct-95	A49									<12.10	53.20							7290.00	
20200 (6)	10-Oct-95	A49									EWM 010	EWN 006							EWS 003	
20200	28-Nov-95	A49	<12.50	<5.00	<15.00	<20.00	<63.10		<0.74	<8.17	40.00	70.00	15.30					<50.00	10070.00	400.00
20200 (6)	28-Nov-95	A49	IRL 004	IRL 004	IRL 004	IRL 004	IRL 004		JDP 004	IMQ 007	FVX 002	FVY 005	IRL 004					KGH 001	Field	KIG 002
20200	28-Nov-95	A49															<4000.00			
20200 (6)	28-Nov-95	A49															EXO 002			
20200 (5)	14-Dec-95	A49									<20.00	60.00							12300.00	
20200 (6)	14-Dec-95	A49									KIE 009	KID 008							Field	
20200 (5)	14-Dec-95	A49										<50.00								
20200 (6)	14-Dec-95	A49										KID 009								
20200	12-Jan-96	A50									40.00	60.00							9400.00	
20200 (6)	12-Jan-96	A50									KIJ 007	KIJA 007							Field	
20200	20-Feb-96	A50	<12.50	<5.00	<15.00	<20.00	<5.00		<0.74	<8.17	40.00	60.00	47.80					<50.00	8300.00	300.00
20200 (6)	20-Feb-96	A50	IRO 006	IRO 006	IRO 006	IRO 006	EXU 005		JDU 004	IMR 007	KIO 005	KIP 005	IRO 006					KGK 005	Field	KIR 005
20200	20-Feb-96	A50															10000.00			
20200 (6)	20-Feb-96	A50															EXQ 002			
20200	12-Mar-96	A50									40.00	60.00							9100.00	
20200 (6)	12-Mar-96	A50									KIT 006	KIU 006							Field	
20200	12-Mar-96	A50																		
20200 (6)	12-Mar-96	A50																		
20200 (4)	12-Mar-96	A50									50.00	80.00								
20200 (4,6)	12-Mar-96	A50									KIT 007	KIU 007								
20200 (4)	12-Mar-96	A50																		
20200 (4,6)	12-Mar-96	A50																		
20200	12-Apr-96	A51									30.00	150.00							9400.00	
20200 (6)	12-Apr-96	A51									KIZ 006	KKA 006							Field	
20200 (4)	12-Apr-96	A51									30.00	<50.00								
20200 (4,6)	12-Apr-96	A51									KIZ 007	KKA 007								
20200	13-May-96	A51									30.00	<50.00							8500.00	
20200 (6)	13-May-96	A51									KKH 007	KKG 007							Field	
20200 (4)	13-May-96	A51									30.00	<50.00								
20200 (4,6)	13-May-96	A51									KKH 008	KKG 008								
20200 (5)	27-Jun-96	A51									<500.00								7900.00	
20200 (6)	27-Jun-96	A51									AXXJ 006								Field	
20200 (4,5)	27-Jun-96	A51									<500.00									
20200 (4,6)	27-Jun-96	A51									AXXJ 007									
20200 (5)	27-Jun-96	A51															<4.00			
20200 (6)	27-Jun-96	A51															EXS 006			
20200 (4,5)	27-Jun-96	A51															<4.00			

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20200	12-Jul-95	F48	70000000.00	8.45	622.00	<1000.00													
20200 (6)	12-Jul-95	F48	ENR 015	ENT 006	ENV 006	ENQ 008													
20200	14-Aug-95	F48	63.00	7.84	725.00	6000.00	220.00												
20200 (6)	14-Aug-95	F48	ETH 023	ETY 009	EUA 009	ETG 011	ETW 010												
20200	19-Sep-95	F48	89200.00	8.26	420.00	11000.00													
20200 (6)	19-Sep-95	F48	EWH 039	EWJ 003	EWL 003	EWG 005													
20200	10-Oct-95	A49	103000.00	7.25	633.00	1000.00													
20200 (6)	10-Oct-95	A49	EWP 059	EWR 003	EWT 003	EWO 005													
20200	28-Nov-95	A49	115000.00	7.80		<10000.00													
20200 (6)	28-Nov-95	A49	FVZ 002	Field		KGI 001													
20200	28-Nov-95	A49					<10.00												
20200 (6)	28-Nov-95	A49					EXN 003												
20200 (5)	14-Dec-95	A49	130000.00	8.53		<10000.00													
20200 (6)	14-Dec-95	A49	KIB 008	Field		KJA 005													
20200 (5)	14-Dec-95	A49																	
20200 (6)	14-Dec-95	A49																	
20200	12-Jan-96	A50	66000.00	8.00		<10000.00													
20200 (6)	12-Jan-96	A50	KIK 007	Field		KGG 004													
20200	20-Feb-96	A50	29200.00	8.66		<10000.00													
20200 (6)	20-Feb-96	A50	KIQ 005	Field		KGJ 004													
20200	20-Feb-96	A50					1.00												
20200 (6)	20-Feb-96	A50					EXP 003												
20200	12-Mar-96	A50	63500.00	7.82		<10000.00													
20200 (6)	12-Mar-96	A50	KIW 006	Field		KGO 004													
20200	12-Mar-96	A50				<10000.00													
20200 (6)	12-Mar-96	A50				AKL 003													
20200 (4)	12-Mar-96	A50	61000.00			<10000.00													
20200 (4,6)	12-Mar-96	A50	KIW 007			KGO 005													
20200 (4)	12-Mar-96	A50				<10000.00													
20200 (4,6)	12-Mar-96	A50				AKL 004													
20200	12-Apr-96	A51	110000.00	8.65		<10000.00													
20200 (6)	12-Apr-96	A51	KKB 006	Field		KGQ 004													
20200 (4)	12-Apr-96	A51	120000.00			<10000.00													
20200 (4,6)	12-Apr-96	A51	KKB 007			KGQ 005													
20200	13-May-96	A51	120000.00	8.61		<10000.00													
20200 (6)	13-May-96	A51	KKI 007	Field		KGT 005													
20200 (4)	13-May-96	A51	130000.00			<10000.00													
20200 (4,6)	13-May-96	A51	KKI 008			KGT 006													
20200 (5)	27-Jun-96	A51	108000.00	7.85		<4000.00													
20200 (6)	27-Jun-96	A51	AXXI 006	Field		AXWE 006													
20200 (4,5)	27-Jun-96	A51	108000.00			<4000.00													
20200 (4,6)	27-Jun-96	A51	AXXI 007			AXWE 007													
20200 (5)	27-Jun-96	A51					40.00												
20200 (6)	27-Jun-96	A51					EXR 006												
20200 (4,5)	27-Jun-96	A51					50.00												

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20200 (4,6)	27-Jun-96	A51															EXS 007			
20200 (5)	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		48.20	<20.00	1.90	<0.55					321.00
20200 (6)	28-Jun-96	A51	XVZ 010	XVZ 010	XVZ 010	XVZ 010	XVZ 010	XVZ 010		AXWB 012		AXZR 009	XVZ 010	XZZ 008	XZZ 008					AXXA 006
20200 (4,5)	28-Jun-96	A51	<10.00	5.01	<10.00	<20.00	<40.00	<100.00		<5.00		44.40	<20.00	3.10	1.90			16.80		279.00
20200 (4,6)	28-Jun-96	A51	XVZ 011	XVZ 011	XVZ 011	XVZ 011	XVZ 011	XVZ 011		AXWB 013		AXZR 010	XVZ 011	XZZ 009	XZZ 009			AXYR 007		AXXA 007
20200 (4,5)	28-Jun-96	A51																16.80		
20200 (4,6)	28-Jun-96	A51																AXYR 006		
20200	25-Jul-96	A52										49.70							3800.00	
20200 (6)	25-Jul-96	A52										AYFW 009							Field	
20200	30-Jul-96	A52									<500.00									
20200 (6)	30-Jul-96	A52									AYDP 008									
20200	12-Aug-96	A52							<0.20		<500.00	43.70							7600.00	
20200 (6)	12-Aug-96	A52							AYKI 016		AYHD 006	YWF 006							Field	
20200 (4)	12-Aug-96	A52							<0.20		<500.00	37.30								
20200 (4,6)	12-Aug-96	A52							AYKI 017		AYHD 007	YWF 007								
20200	04-Sep-96	A52	11.90	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	70.90	<20.00					12.60	8600.00	278.00
20200 (6)	04-Sep-96	A52	YYT 003	YYT 003	YYT 003	YYT 003	YYT 003		AZBI 003	YZN 002	YZF 002	YXC 002	YYT 003					AYZL 002	Field	ZDR 002
20200 (4)	04-Sep-96	A52	<10.00	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	116.00	<20.00					<10.00		234.00
20200 (4,6)	04-Sep-96	A52	YYT 007	YYT 007	YYT 007	YYT 007	YYT 007		AZBI 006	YZN 003	YZF 003	YXC 003	YYT 007					AYZL 003		AZDR 003
20200 (4)	04-Sep-96	A52	10.90	<5.00	<10.00	<20.00	<40.00						<20.00							
20200 (4,6)	04-Sep-96	A52	YYT 004	YYT 004	YYT 004	YYT 004	YYT 004					AYYT 004								
20200	04-Sep-96	A52															<8.00			
20200 (6)	04-Sep-96	A52															EXU 002			
20200 (4)	04-Sep-96	A52															<8.00			
20200 (4,6)	04-Sep-96	A52															EXU 003			
20200	02-Oct-96	A53									<500.00	54.20								
20200 (6)	02-Oct-96	A53									AZIY 005	ZOA 006								
20200	06-Nov-96	A53									<500.00	45.20								
20200 (6)	06-Nov-96	A53									BAAL 007	BAIC 009								
20200	05-Dec-96	A53															<6000.00			
20200 (6)	05-Dec-96	A53															EXX 007			
20200 (4)	05-Dec-96	A53															<6000.00			
20200 (4,6)	05-Dec-96	A53															EXX 006			
20200 (4)	05-Dec-96	A53	<10.00	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	34.10	<20.00					<10000.00		138.00
20200 (4,6)	05-Dec-96	A53	AOE 005	AOE 005	AOE 005	AOE 005	AOE 005		BARM 007	ANU 006	AML 006	ARD 008	AOE 005					BASA 006		BAWG 006
20200	05-Dec-96	A53	<10.00	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	32.50	<20.00					14100.00		130.00
20200 (6)	05-Dec-96	A53	AOE 006	AOE 006	AOE 006	AOE 006	AOE 006		BARM 008	ANU 007	AML 007	ARD 009	AOE 006					BASA 007		BAWG 007
20200	08-Jan-97	A54									<500.00	26.50								
20200 (6)	08-Jan-97	A54									BBAM 005	BBW 007								
20200 (4)	08-Jan-97	A54									<500.00	23.30								
20200 (4,6)	08-Jan-97	A54									BBAM 006	BBW 008								
20200	06-Feb-97	A54	<10.00	<5.00	<10.00	<20.00	<40.00		<0.10	<10.00	<100.00		<20.00							
20200 (6)	06-Feb-97	A54	BTT 008	BTT 008	BTT 008	BTT 008	BTT 008		BBZD 007	BXM 012	BRW 004		BBTT 008							
20200	06-Feb-97	A54									<100.00	27.20								
20200 (6)	06-Feb-97	A54									BBJW 004	BQF 006								

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20200 (4,6)	27-Jun-96	A51					EXR 007												
20200 (5)	28-Jun-96	A51											64.00	37.00				7.60	1.90
20200 (6)	28-Jun-96	A51											AXZJ 009	AXZJ 009				AXZJ 009	AXZJ 009
20200 (4,5)	28-Jun-96	A51											37.00	250.00				8.20	5.80
20200 (4,6)	28-Jun-96	A51											AXZJ 010	AXZJ 010				AXZJ 010	AXZJ 010
20200 (4,5)	28-Jun-96	A51																	
20200 (4,6)	28-Jun-96	A51																	
20200	25-Jul-96	A52		7.84		<4000.00													
20200 (6)	25-Jul-96	A52		Field		AZME 008													
20200	30-Jul-96	A52	67000.00																
20200 (6)	30-Jul-96	A52	AYDQ 008																
20200	12-Aug-96	A52	102000.00	7.87		<4000.00													
20200 (6)	12-Aug-96	A52	AYHE 006	Field		AYSO 006													
20200 (4)	12-Aug-96	A52	101000.00			<4000.00													
20200 (4,6)	12-Aug-96	A52	AYHE 007			AYSO 007													
20200	04-Sep-96	A52	89200.00	8.0		<4000.00													
20200 (6)	04-Sep-96	A52	AYZP 002	Field		AYYU 002													
20200 (4)	04-Sep-96	A52	97500.00			<4000.00													
20200 (4,6)	04-Sep-96	A52	AYZP 003			AYYU 003													
20200 (4)	04-Sep-96	A52																	
20200 (4,6)	04-Sep-96	A52																	
20200	04-Sep-96	A52					3400.00												
20200 (6)	04-Sep-96	A52					EXT 002												
20200 (4)	04-Sep-96	A52					2300.00												
20200 (4,6)	04-Sep-96	A52					EXT 003												
20200	02-Oct-96	A53	1220000.00			<4000.00													
20200 (6)	02-Oct-96	A53	AZIZ 005			AZJG 005													
20200	06-Nov-96	A53	66000.00			<4000.00													
20200 (6)	06-Nov-96	A53	BAAX 007			BACW 007													
20200	05-Dec-96	A53					20.00												
20200 (6)	05-Dec-96	A53					EXW 007												
20200 (4)	05-Dec-96	A53					<10.00												
20200 (4,6)	05-Dec-96	A53					EXW 006												
20200 (4)	05-Dec-96	A53	119000.00			<4000.00													
20200 (4,6)	05-Dec-96	A53	BANJ 006			BAQI 006													
20200	05-Dec-96	A53	116000.00			<4000.00													
20200 (6)	05-Dec-96	A53	BANJ 007			BAQI 007													
20200	08-Jan-97	A54	105000.00			<4000.00													
20200 (6)	08-Jan-97	A54	BBAN 005			BBBU 005													
20200 (4)	08-Jan-97	A54	104000.00			<4000.00													
20200 (4,6)	08-Jan-97	A54	BBAN 006			BBBU 006													
20200	06-Feb-97	A54	103000.00			<4000.00													
20200 (6)	06-Feb-97	A54	BBSD 004			BBVF 004													
20200	06-Feb-97	A54	116000.00			<4000.00													
20200 (6)	06-Feb-97	A54	BBJX 004			BBMW 004													

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20200	04-Mar-97	A54															<6000.00			
20200 (6)	04-Mar-97	A54															EYJ 003			
20200 (4)	04-Mar-97	A54															<6000.00			
20200 (4,6)	04-Mar-97	A54															EYJ 004			
20200 (4)	04-Mar-97	A54	<10.00	<5.00	<10.00	<20.00	<40.00		<0.10	<10.00	<100.00		<20.00							
20200 (4,6)	04-Mar-97	A54	BTT 009	BTT 009	BTT 009	BTT 009	BTT 009		BBZD 008	BXM 013	BRW 005		BBTT 009							
20200	07-Mar-97	A54										24.40						16600.00		<50.00
20200 (6)	07-Mar-97	A54										BBYJ 006						BBYY 002		BBVM 002
20200 (4)	07-Mar-97	A54										176.00						12400.00		<50.00
20200 (4,6)	07-Mar-97	A54										BBYJ 007						BBYY 003		BBVM 003
20200	03-Apr-97	A55									<200.00	31.60								
20200 (6)	03-Apr-97	A55									BCPF 006	CYF 006								
20200	07-May-97	A55									(V) <500.00	(V) 38.40								
20200 (6)	07-May-97	A55									BDHG 005	DKB 005								
20200	05-Jun-97	A55															<6000.00			
20200 (6)	05-Jun-97	A55															EYL 015			
20200 (4)	05-Jun-97	A55															<6000.00			
20200 (4,6)	05-Jun-97	A55															EYL 016			
20200	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	305.00	<20.00	2.03	4.41			14400.00		<50.00
20200 (6)	05-Jun-97	A55	FDD 019	FDD 019	FDD 019	FDD 019	FDD 019	FDD 019	BFFC 018	BFDP 015	DYY 015	FKC 015	FDD 019	BFNL 018	BFNL 018			BFGS 015		BFKH 015
20200 (4)	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	312.00	<20.00	0.29	1.25			12200.00		(JP) 11.00
20200 (4,6)	05-Jun-97	A55	FDD 020	FDD 020	FDD 020	FDD 020	FDD 020	FDD 020	BFFC 019	BFDP 016	DYY 016	FKC 016	FDD 020	BFNL 019	BFNL 019			BFGS 016		BFKH 016
20200	02-Jul-97	A56									<200.00	52.00								
20200 (6)	02-Jul-97	A56									BFSG 007	GBX 007								
20200	06-Aug-97	A56									<500.00	50.00								
20200 (6)	06-Aug-97	A56									BGHH 007	GLR 008								
20200	04-Sep-97	A56															<6000.00			
20200 (6)	04-Sep-97	A56															EYN 007			
20200 (4)	04-Sep-97	A56															<6000.00			
20200 (4,6)	04-Sep-97	A56															EYN 008			
20200	04-Sep-97	A56	<4.47	<5.00	<10.00	(JP) 4.70	<40.00	<30.80	<0.10	<5.00	<500.00	45.90	<20.00					<10000.00		<50.00
20200 (6)	04-Sep-97	A56	GQY 010	GQY 010	GQY 010	GQY 010	GQY 010	QY 010	BGSF 007	GQF 006	BGPT 006	GVR 011	GQY 010					BGRS 006		BGRQ 006
20200 (4)	04-Sep-97	A56	<4.47	<5.00	<10.00	<20.00	<40.00	<30.80	<0.10	<5.00	<500.00	44.50	<20.00					<10000.00		<50.00
20200 (4,6)	04-Sep-97	A56	GQY 011	GQY 011	GQY 011	GQY 011	GQY 011	QY 011	BGSF 008	GQF 007	BGPT 007	GVR 012	GQY 011					BGRS 007		BGRQ 007
20300	07-Oct-94	F45									L<12.10	57.90							6540	
20300 (6)	07-Oct-94	F45									DKK 009	DKL 009							DKQ 006	
20300	08-Nov-94	F45																		
20300 (6)	08-Nov-94	F45																		
20300	09-Nov-94	F45		<0.10	<2.18	8.29	<5.94			<8.35	<12.10	48.20	53.10	<4.80	7.50	10.00	<4000.00	<2.60	5700	60
20300 (6)	09-Nov-94	F45		DNG 015	DNH 013	DNI 012	DNJ 013			DNK 013	DNB 013	DNC 013	DNL 013	DNV 005	DNV 005	DNW 005	DNO 012	DNM 013	DNT 010	DNP 012
20300	08-Dec-94	F45									<12.10	44.80							9810	
20300 (6)	08-Dec-94	F45									DOA 008	DOB 009							DOG 006	
20300	17-Jan-95	F46									<12.10	291.00							11600	
20300 (6)	17-Jan-95	F46									DOI 063	DOJ 009							DOO 006	

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20200	04-Mar-97	A54					<1.00												
20200 (6)	04-Mar-97	A54					EYI 004												
20200 (4)	04-Mar-97	A54					<1.00												
20200 (4,6)	04-Mar-97	A54					EYI 005												
20200 (4)	04-Mar-97	A54	101000.00			<4000.00													
20200 (4,6)	04-Mar-97	A54	BBSD 005			BBVF 005													
20200	07-Mar-97	A54																	
20200 (6)	07-Mar-97	A54																	
20200 (4)	07-Mar-97	A54																	
20200 (4,6)	07-Mar-97	A54																	
20200	03-Apr-97	A55	(B) 81900.00			<4000.00													
20200 (6)	03-Apr-97	A55	BCPG 006			BCSW 006													
20200	07-May-97	A55	(V) 88800.00			(V) <4000.00													
20200 (6)	07-May-97	A55	BDNH 005			BDHS 005													
20200	05-Jun-97	A55					100.00												
20200 (6)	05-Jun-97	A55					EYK 015												
20200 (4)	05-Jun-97	A55					100.00												
20200 (4,6)	05-Jun-97	A55					EYK 016												
20200	05-Jun-97	A55	82600.00			31000.00			6.56			126.00		0.70					
20200 (6)	05-Jun-97	A55	BDYZ 015			BFHQ 016			BFCB 017			BFCB 017		BFCB 017					
20200 (4)	05-Jun-97	A55	88800.00			<4000.00			7.17					145.00					
20200 (4,6)	05-Jun-97	A55	BDYZ 016			BFHQ 017			BFCB 018					BFCB 018					
20200	02-Jul-97	A56	30400.00			<4000.00													
20200 (6)	02-Jul-97	A56	BGBC 007			BGBY 007													
20200	06-Aug-97	A56	62800.00			<4000.00													
20200 (6)	06-Aug-97	A56	BGHJ 007			BGKV 007													
20200	04-Sep-97	A56					10.00												
20200 (6)	04-Sep-97	A56					EYM 006												
20200 (4)	04-Sep-97	A56					30.00												
20200 (4,6)	04-Sep-97	A56					EYM 007												
20200	04-Sep-97	A56	67000.00			<4000.00													
20200 (6)	04-Sep-97	A56	BGPV 006			BGSX 006													
20200 (4)	04-Sep-97	A56	64700.00			(JP) 4000.00													
20200 (4,6)	04-Sep-97	A56	BGPV 007			BGSX 007													
20300	07-Oct-94	F45	3600.00	7.73	517.00	<1000.00													
20300 (6)	07-Oct-94	F45	DKN 008	DKP 006	DKR 006	DKM 008													
20300	08-Nov-94	F45		7.97															
20300 (6)	08-Nov-94	F45		DNS 010															
20300	09-Nov-94	F45	110000.00		561.00	<1000.00	10.00												
20300 (6)	09-Nov-94	F45	DNE 014		DNU 010	DND 012	DNR 006												
20300	08-Dec-94	F45	80500.00	8.12	570.00	2000.00													
20300 (6)	08-Dec-94	F45	DOD 011	DOF 006	DOH 006	DOC 008													
20300	17-Jan-95	F46	61100.00	7.16	383.00	13000.00													
20300 (6)	17-Jan-95	F46	DOL 019	DON 006	DOP 006	DOK 008													

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20300	01-Feb-95	F46	<1.93	0.29	<2.18	5.96	<5.94			<8.35	<12.10	68.30	<29.40					13.00	11800	540
20300 (6)	01-Feb-95	F46	DPA 011	DOV 012	DOW 012	DOX 012	DOZ 012			DPC 012	DOQ 045	DOR 012	DPD 012					DPE 013	DPL 009	DPH 011
20300	02-Mar-95	F46									<12.10	16.10							16300.00	
20300 (6)	02-Mar-95	F46									DQH 007	DQI 007							DQN 004	
20300	04-Apr-95	F47									<12.10	24.10							12000	
20300 (6)	04-Apr-95	F47									DTA 039	DTB 009							DTG 007	
20300	02-May-95	F47	<1.93	<0.10	<2.18	4.33	7.46	<2.65	<0.70	<8.35	<12.10	34.10	34.10	<4.80	10.80	<8.00	<4000.00	15.00	12900	190000
20300 (6)	02-May-95	F47	DWD 020	DVY 015	DVZ 008	DWA 006	DWC 006	WB 006	DWE 008	DWF 007	DVS 013	DVU 006	DWG 006	DWP 003	DWP 003	DWQ 003	DWJ 005	DWH 006	DWT 003	DWK 005
20300	08-Jun-95	F47									<12.10	40.20							10400	
20300 (6)	08-Jun-95	F47									EEC 020	EED 010							EEI 007	
20300	12-Jul-95	F48									<12.10	51.20							8970	
20300 (6)	12-Jul-95	F48									ENO 010	ENP 021							ENU 007	
20300	14-Aug-95	F48	<1.93	0.25	<2.18	3.96	R<5.94			<8.35	<12.10	54.20	<29.40				<4000.00	5.00	9600	50000
20300 (6)	14-Aug-95	F48	ETO 026	ETJ 048	ETK 013	ETL 065	ETN 017			ETQ 013	ETE 024	ETF 013	ETR 018				ETU 012	ETS 012	ETZ 010	ETV 012
20300	19-Sep-95	F48									<12.10	69.30							8100	
20300 (6)	19-Sep-95	F48									EWE 014	EWF 007							EWK 004	
20300	10-Oct-95	A49									<12.10	55.20							9250.00	
20300 (6)	10-Oct-95	A49									EWM 011	EWN 007							EWS 004	
20300 (5)	28-Nov-95	A49	<12.50	<5.00	<15.00	<20.00	<63.10		<0.74	<8.17	70.00	100.00	<13.00					<50.00	10920.00	300.00
20300 (6)	28-Nov-95	A49	IRL 005	IRL 005	IRL 005	IRL 005	IRL 005		JDP 007	IMQ 008	FVX 003	FVY 006	IRL 005					KGH 002	Field	KIG 005
20300 (4,5)	28-Nov-95	A49	<12.50	<5.00	<15.00	<20.00	<63.10		<0.74	<8.17	70.00	90.00	<13.00					<50.00		200.00
20300 (4,6)	28-Nov-95	A49	IRL 014	IRL 014	IRL 014	IRL 014	IRL 014		JDP 008	IMQ 014	FVX 013	FVY 012	IRL 014					KGH 013		KIG 014
20300 (5)	28-Nov-95	A49															<4000.00			
20300 (6)	28-Nov-95	A49															EXO 003			
20300 (4,5)	28-Nov-95	A49															6000.00			
20300 (4,6)	28-Nov-95	A49															EXO 013			
20300	14-Dec-95	A49									<20.00	70.00							11700.00	
20300 (6)	14-Dec-95	A49									KIE 007	KID 006							Field	
20300 (4)	14-Dec-95	A49									<20.00	80.00								
20300 (4,6)	14-Dec-95	A49									KIE 008	KID 007								
20300	13-May-96	A51									<20.00	60.00							9900.00	
20300 (6)	13-May-96	A51									KKH 009	KKG 009							Field	
20300	27-Jun-96	A51									<500.00								9700.00	
20300 (6)	27-Jun-96	A51									AXXJ 005								Field	
20300	27-Jun-96	A51															<4.00			
20300 (6)	27-Jun-96	A51															EXS 005			
20300	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		65.10	<20.00	1.20	3.40			14.60		182.00
20300 (6)	28-Jun-96	A51	XVZ 009	XVZ 009	XVZ 009	XVZ 009	XVZ 009	XVZ 009		AXWB 011		AXZR 008	XVZ 009	XZZ 007	XZZ 007			AXYR 005		AXXA 005
20300	25-Jul-96	A52										77.20							3200.00	
20300 (6)	25-Jul-96	A52										AYFW 008							Field	
20300	30-Jul-96	A52									<500.00									
20300 (6)	30-Jul-96	A52									AYDP 007									
20300	12-Aug-96	A52							<0.20		<500.00	84.60							7380.00	
20300 (6)	12-Aug-96	A52							AYKI 015		AYHD 005	YWF 005							Field	
20300	04-Sep-96	A52	<10.00	<5.00	<10.00	<20.00	<40.00		0.24	<10.00	<500.00	58.20	<20.00					<10.00	8650.00	98.70

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20300	01-Feb-95	F46	133000.00	7.45	601.00	1000.00	120.00												
20300 (6)	01-Feb-95	F46	DOT 043	DPK 009	DPM 009	DOS 011	DPI 010												
20300	02-Mar-95	F46	87000.00	7.96		7000.00													
20300 (6)	02-Mar-95	F46	DQK 022	DQM 004		DQJ 006													
20300	04-Apr-95	F47	87500.00	8.20	866.00	2000.00													
20300 (6)	04-Apr-95	F47	DTD 026	DTF 007	DTH 007	DTC 008													
20300	02-May-95	F47	112000.00	7.25	915.00	<1000.00	<10.00	<6.00	<7.50	0.90	0.50	1.10							
20300 (6)	02-May-95	F47	DVW 006	DWS 003	DWU 003	DVV 005	DWL 004	DWQ 003	DWQ 003	DWR 003	DWR 003	DWR 003							
20300	08-Jun-95	F47	62000000.00	7.77	681.00	4000.00													
20300 (6)	08-Jun-95	F47	EEF 036	EEH 007	EEJ 007	EEE 009													
20300	12-Jul-95	F48	136000000.00	7.78	875.00	2000.00													
20300 (6)	12-Jul-95	F48	ENR 021	ENT 007	ENV 007	ENQ 009													
20300	14-Aug-95	F48	47.90	7.61	639.00	6000.00	50.00												
20300 (6)	14-Aug-95	F48	ETH 024	ETY 010	EUA 010	ETG 012	ETW 011												
20300	19-Sep-95	F48	113000.00	8.05	821.00	1000.00													
20300 (6)	19-Sep-95	F48	EWH 040	EWJ 004	EWL 004	EWG 006													
20300	10-Oct-95	A49	95600.00	7.51	685.00	2000.00													
20300 (6)	10-Oct-95	A49	EWP 060	EWR 004	EWT 004	EWO 006													
20300 (5)	28-Nov-95	A49	100000.00	8.10		<10000.00													
20300 (6)	28-Nov-95	A49	FVZ 003	Field		KGI 002													
20300 (4,5)	28-Nov-95	A49	100000.00			<10000.00													
20300 (4,6)	28-Nov-95	A49	FVZ 012			AKL 008													
20300 (5)	28-Nov-95	A49					50.00												
20300 (6)	28-Nov-95	A49					EXN 004												
20300 (4,5)	28-Nov-95	A49					40.00												
20300 (4,6)	28-Nov-95	A49					EXN 014												
20300	14-Dec-95	A49	120000.00	8.12		<10000.00													
20300 (6)	14-Dec-95	A49	KIB 006	Field		KJA 003													
20300 (4)	14-Dec-95	A49	120000.00			<10000.00													
20300 (4,6)	14-Dec-95	A49	KIB 007			KJA 004													
20300	13-May-96	A51	100000.00	7.66		<10000.00													
20300 (6)	13-May-96	A51	KKI 009	Field		KGT 007													
20300	27-Jun-96	A51	92900.00	7.68		<4000.00													
20300 (6)	27-Jun-96	A51	AXXI 005	Field		AXWE 005													
20300	27-Jun-96	A51					10.00												
20300 (6)	27-Jun-96	A51					EXR 005												
20300	28-Jun-96	A51											140.00	4.30				16.00	19.00
20300 (6)	28-Jun-96	A51											AXZJ 008	AXZJ 008				AXZJ 008	AXZJ 008
20300	25-Jul-96	A52		8.09		<4000.00													
20300 (6)	25-Jul-96	A52		Field		AZME 007													
20300	30-Jul-96	A52	109000.00																
20300 (6)	30-Jul-96	A52	AYDQ 007																
20300	12-Aug-96	A52	108000.00	7.82		<4000.00													
20300 (6)	12-Aug-96	A52	AYHE 005	Field		AYSO 005													
20300	04-Sep-96	A52	97400.00	8.2		<4000.00													

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20300 (6)	04-Sep-96	A52	YYT 008	YYT 008	YYT 008	YYT 008	YYT 008		AZBI 007	YZN 004	YZF 004	YXC 004	YYT 008					AYZL 004	Field	ZDR 004
20300	04-Sep-96	A52															<8.00			
20300 (6)	04-Sep-96	A52															EXU 004			
20300	02-Oct-96	A53									<500.00	37.00								
20300 (6)	02-Oct-96	A53									AZIY 004	ZOA 005								
20300	06-Nov-96	A53									<500.00	40.50								
20300 (6)	06-Nov-96	A53									BAAL 005	BAIC 007								
20300 (4)	06-Nov-96	A53									<500.00	39.90								
20300 (4,6)	06-Nov-96	A53									BAAL 006	BAIC 008								
20300	05-Dec-96	A53															<6000.00			
20300 (6)	05-Dec-96	A53															EXX 005			
20300	05-Dec-96	A53	<10.00	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	62.50	<20.00					14100.00		185.00
20300 (6)	05-Dec-96	A53	AOE 004	AOE 004	AOE 004	AOE 004	AOE 004		BARM 006	ANU 005	AML 005	ARD 007	AOE 004					BASA 005		BAWG 005
20300	08-Jan-97	A54									<500.00	39.10								
20300 (6)	08-Jan-97	A54									BBAM 004	BBW 006								
20300	03-Apr-97	A55									<200.00	58.40								
20300 (6)	03-Apr-97	A55									BCPF 005	CYF 005								
20300	07-May-97	A55									(V) <500.00	(V) 94.70								
20300 (6)	07-May-97	A55									BDHG 004	DKB 004								
20300	05-Jun-97	A55															<6000.00			
20300 (6)	05-Jun-97	A55															EYL 017			
20300	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	630.00	<20.00	2.47	5.65			16500.00		298.00
20300 (6)	05-Jun-97	A55	FDD 021	FDD 021	FDD 021	FDD 021	FDD 021	FDD 021	BFFC 020	BFDP 017	DYY 017	FKC 017	FDD 021	BFNL 020	BFNL 020			BFGS 017		BFKH 017
20300	02-Jul-97	A56									<200.00	61.80								
20300 (6)	02-Jul-97	A56									BFSG 005	GBX 005								
20300 (4)	02-Jul-97	A56									<200.00	59.50								
20300 (4,6)	02-Jul-97	A56									BFSG 006	GBX 006								
20300	06-Aug-97	A56									<500.00	101.00								
20300 (6)	06-Aug-97	A56									BGHH 005	GLR 006								
20300 (4)	06-Aug-97	A56									<500.00									
20300 (6)	06-Aug-97	A56									BGHH 006									
20300	04-Sep-97	A56															<6000.00			
20300 (6)	04-Sep-97	A56															EYN 009			
20300	04-Sep-97	A56	<4.47	<5.00	<10.00	(JP) 3.68	(JP) 12.90		<0.10	<5.00	<500.00	94.60	<20.00					<10000.00		490.00
20300 (6)	04-Sep-97	A56	GQY 012	GQY 012	GQY 012	GQY 012	GQY 012		BGSF 009	GQF 008	BGPT 008	GVR 013	GQY 012					BGRS 008		BGRQ 008
20400	07-Oct-94	F45									L<12.10	52.20							6710	
20400 (6)	07-Oct-94	F45									DKK 005	DKL 005							DKQ 002	
20400	08-Nov-94	F45		<0.10	<2.18	3.96	<5.94			<8.35	<12.10	35.50	36.10				<4000.00	14.30	8640	150
20400 (6)	08-Nov-94	F45		DNG 010	DNH 008	DNI 007	DNJ 008			DNK 007	DNB 008	DNC 008	DNL 008				DNO 007	DNM 008	DNT 005	DNP 007
20400	08-Dec-94	F45									<12.10	39.40							7250	
20400 (6)	08-Dec-94	F45									DOA 004	DOB 005							DOG 002	
20400	17-Jan-95	F46									<12.10	211.00							9610	
20400 (6)	17-Jan-95	F46									DOI 059	DOJ 005							DOO 002	
20400	01-Feb-95	F46	<1.93	<0.10	<2.18	3.65	<5.94			<8.35	<12.10	44.20	<29.40				<4000.00	16.00	7910	310

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20300 (6)	04-Sep-96	A52	AYZP 004	Field		AYYU 004													
20300	04-Sep-96	A52					70.00												
20300 (6)	04-Sep-96	A52					EXT 004												
20300	02-Oct-96	A53	1030000.00			<4000.00													
20300 (6)	02-Oct-96	A53	AZIZ 004			AZJG 004													
20300	06-Nov-96	A53	40900.00			<4000.00													
20300 (6)	06-Nov-96	A53	BAAX 005			BACW 005													
20300 (4)	06-Nov-96	A53	40700.00			<4000.00													
20300 (4,6)	06-Nov-96	A53	BAAX 006			BACW 006													
20300	05-Dec-96	A53					20.00												
20300 (6)	05-Dec-96	A53					EXW 005												
20300	05-Dec-96	A53	72800.00			<4000.00													
20300 (6)	05-Dec-96	A53	BANJ 005			BAQI 005													
20300	08-Jan-97	A54	57100.00			<4000.00													
20300 (6)	08-Jan-97	A54	BBAN 004			BBBU 004													
20300	03-Apr-97	A55	(B) 67700.00			<4000.00													
20300 (6)	03-Apr-97	A55	BCPG 005			BCSW 005													
20300	07-May-97	A55	(V) 111000.00			(V) 4000.00													
20300 (6)	07-May-97	A55	BDNH 004			BDHS 004													
20300	05-Jun-97	A55					<1.00												
20300 (6)	05-Jun-97	A55					EYK 017												
20300	05-Jun-97	A55	119000.00			5000.00			<1.46			20.40							
20300 (6)	05-Jun-97	A55	BDYZ 017			BFHQ 018			BFCB 019			BFCB 019							
20300	02-Jul-97	A56	20100.00			<4000.00													
20300 (6)	02-Jul-97	A56	BGBC 005			BGBY 005													
20300 (4)	02-Jul-97	A56	20000.00			<4000.00													
20300 (4,6)	02-Jul-97	A56	BGBC 006			BGBY 006													
20300	06-Aug-97	A56	117000.00			<4000.00													
20300 (6)	06-Aug-97	A56	BGHJ 005			BGKV 005													
20300 (4)	06-Aug-97	A56	115000.00			<4000.00													
20300 (6)	06-Aug-97	A56	BGHJ 006			BGKV 006													
20300	04-Sep-97	A56					<10.00												
20300 (6)	04-Sep-97	A56					EYM 008												
20300	04-Sep-97	A56	107000.00			<4000.00													
20300 (6)	04-Sep-97	A56	BGPV 008			BGSX 008													
20400	07-Oct-94	F45	2400.00	6.91	500.00	<1000.00													
20400 (6)	07-Oct-94	F45	DKN 004	DKP 002	DKR 002	DKM 004													
20400	08-Nov-94	F45	75000.00	7.79	575.00	5000.00	<10.00												
20400 (6)	08-Nov-94	F45	DNE 008	DNS 005	DNU 005	DND 007	DNQ 006												
20400	08-Dec-94	F45	49300.00	7.12	650.00	<2000.00													
20400 (6)	08-Dec-94	F45	DOD 007	DOF 002	DOH 002	DOC 004													
20400	17-Jan-95	F46	344000.00	6.68	770.00	63000.00													
20400 (6)	17-Jan-95	F46	DOL 012	DON 002	DOP 002	DOK 004													
20400	01-Feb-95	F46	81600.00	6.84	606.00	3000.00	<10.00												

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20400 (6)	01-Feb-95	F46	DPA 008	DOV 008	DOW 008	DOX 008	DOZ 008			DPC 008	DOQ 025	DOR 008	DPD 008				DPG 007	DPE 009	DPL 005	DPH 007
20400	02-Mar-95	F46									<12.10	28.10							10400.00	
20400 (6)	02-Mar-95	F46									DQH 008	DQI 008							DQN 005	
20400	04-Apr-95	F47									<12.10	29.10							9250	
20400 (6)	04-Apr-95	F47									DTA 035	DTB 005							DTG 002	
20400	02-May-95	F47												9.10	11.60					
20400 (6)	02-May-95	F47												DWP 004	DWP 004					
20400	02-May-95	F47												<4.50	5.80	<13.00				
20400 (6)	02-May-95	F47												DWP 013	DWP 013	DWQ 013				
20400	03-May-95	F47	<1.93	0.10	8.92	2.91	49.00	<2.65	<0.70	<8.35	<12.10	23.10	40.10				<4000.00	23.00	9840	200000
20400 (6)	03-May-95	F47	DWD 030	DVY 025	DVZ 018	DWA 016	DWC 016	WB 016	DWE 020	DWF 019	DVT 027	DVU 016	DWG 016				DWJ 015	DWH 016	DWT 013	DWK 015
20400	08-Jun-95	F47									<12.10	13.10							5670	
20400 (6)	08-Jun-95	F47									EEC 013	EED 005							EEI 002	
20400	12-Jul-95	F48									<12.10	71.30							5400	
20400 (6)	12-Jul-95	F48									ENO 005	ENP 015							ENU 002	
20400	14-Aug-95	F48	<1.93	0.15	<2.18	3.66	R 10.40			<8.35	<12.10	38.20	59.10				6000.00	11.00	8560	150000
20400 (6)	14-Aug-95	F48	ETO 022	ETJ 036	ETK 008	ETL 053	ETN 010			ETQ 007	ETE 017	ETF 008	ETR 011				ETU 007	ETS 007	ETZ 005	ETV 007
20400	19-Sep-95	F48									<12.10	110.00							5900	
20400 (6)	19-Sep-95	F48									EWE 015	EWF 008							EWK 005	
20400	10-Oct-95	A49									<12.10	82.30							8500.00	
20400 (6)	10-Oct-95	A49									EWM 017	EWN 009							EWS 006	
20400	28-Nov-95	A49	<12.50	<5.00	<15.00	<20.00	<63.10			<8.17	40.00	70.00	14.20					<50.00	10780.00	200.00
20400 (6)	28-Nov-95	A49	IRL 006	IRL 006	IRL 006	IRL 006	IRL 006			IMQ 009	FVX 004	FVY 007	IRL 006					KGH 003	Field	KIG 006
20400	28-Nov-95	A49															5000.00			
20400 (6)	28-Nov-95	A49															EXO 004			
20400	14-Dec-95	A49									<20.00	60.00							12600.00	
20400 (6)	14-Dec-95	A49									KIE 006	KID 005							Field	
20400	12-Jan-96	A50									30.00	50.00							9700.00	
20400 (6)	12-Jan-96	A50									KIJ 008	KIJA 006							Field	
20400	20-Feb-96	A50	<12.50	<5.00	<15.00	<20.00	<5.00			<8.17	<20.00	60.00	17.30					<50.00	11200.00	400.00
20400 (6)	20-Feb-96	A50	IRO 007	IRO 007	IRO 007	IRO 007	EXU 006			IMR 008	KIO 006	KIP 006	IRO 007					KGK 006	Field	KIR 006
20400	20-Feb-96	A50															<4000.00			
20400 (6)	20-Feb-96	A50															EXQ 003			
20400	12-Mar-96	A50									60.00	210.00							9000.00	
20400 (6)	12-Mar-96	A50									KIT 005	KIU 005							Field	
20400	12-Mar-96	A50																		
20400 (6)	12-Mar-96	A50																		
20400	12-Apr-96	A51									<20.00	<50.00							1300.00	
20400 (6)	12-Apr-96	A51									KIZ 005	KKA 005							Field	
20400	13-May-96	A51									<20.00	<50.00							9700.00	
20400 (6)	13-May-96	A51									KKH 011	KKG 011							Field	
20400	27-Jun-96	A51									<500.00								9900.00	
20400 (6)	27-Jun-96	A51									AXXJ 003								Field	
20400	27-Jun-96	A51															<4.00			
20400 (6)	27-Jun-96	A51															EXS 003			

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20400 (6)	01-Feb-95	F46	DOT 024	DPK 005	DPM 005	DOS 007	DPI 006												
20400	02-Mar-95	F46	67900.00	7.77		4000.00													
20400 (6)	02-Mar-95	F46	DQK 023	DQM 005		DQJ 007													
20400	04-Apr-95	F47	72200.00	6.94	940.00	2000.00													
20400 (6)	04-Apr-95	F47	DTD 022	DTF 002	DTH 002	DTC 004													
20400	02-May-95	F47																	
20400 (6)	02-May-95	F47																	
20400	02-May-95	F47						<13.00	<9.50										
20400 (6)	02-May-95	F47						DWQ 013	DWQ 013										
20400	03-May-95	F47	62700.00	7.64	910.00	2000.00	<10.00			0.80	<0.60	0.30							
20400 (6)	03-May-95	F47	DVW 029	DWS 013	DWU 013	VVA 006	DWM 006			DWR 013	DWR 013	DWR 013							
20400	08-Jun-95	F47	35000000.00	7.41	714.00	1000.00													
20400 (6)	08-Jun-95	F47	EEF 031	EEH 002	EEJ 002	EEE 004													
20400	12-Jul-95	F48	41000000.00	7.27	607.00	3000.00													
20400 (6)	12-Jul-95	F48	ENR 009	ENT 002	ENV 002	ENQ 004													
20400	14-Aug-95	F48	24.30	7.56	676.00	4000.00	180.00												
20400 (6)	14-Aug-95	F48	ETH 017	ETY 005	EUA 005	ETG 007	ETW 006												
20400	19-Sep-95	F48	107000.00	7.65	884.00	4000.00													
20400 (6)	19-Sep-95	F48	EWH 041	EWJ 005	EWL 005	EWG 007													
20400	10-Oct-95	A49	53600.00	7.54	658.00	19000.00													
20400 (6)	10-Oct-95	A49	EWP 047	EWR 006	EWT 006	EWO 008													
20400	28-Nov-95	A49	55000.00	7.95		<10000.00													
20400 (6)	28-Nov-95	A49	FVZ 004	Field		KGI 003													
20400	28-Nov-95	A49					130.00												
20400 (6)	28-Nov-95	A49					EXN 005												
20400	14-Dec-95	A49	61000.00	7.98		<10000.00													
20400 (6)	14-Dec-95	A49	KIB 005	Field		KJA 002													
20400	12-Jan-96	A50	64000.00	7.55		<10000.00													
20400 (6)	12-Jan-96	A50	KIK 006	Field		KGG 003													
20400	20-Feb-96	A50	35200.00	7.42		<10000.00													
20400 (6)	20-Feb-96	A50	KIQ 006	Field		KGJ 005													
20400	20-Feb-96	A50					210.00												
20400 (6)	20-Feb-96	A50					EXP 004												
20400	12-Mar-96	A50	44200.00	6.91		<10000.00													
20400 (6)	12-Mar-96	A50	KIW 005	Field		AKL 002													
20400	12-Mar-96	A50				<10000.00													
20400 (6)	12-Mar-96	A50				KGO 003													
20400	12-Apr-96	A51	50000.00	7.52		<10000.00													
20400 (6)	12-Apr-96	A51	KKB 005	Field		KGQ 003													
20400	13-May-96	A51	59000.00	7.38		<10000.00													
20400 (6)	13-May-96	A51	KKI 011	Field		KGT 009													
20400	27-Jun-96	A51	56000.00	7.45		<4000.00													
20400 (6)	27-Jun-96	A51	AXXI 003	Field		AXWE 003													
20400	27-Jun-96	A51					20.00												
20400 (6)	27-Jun-96	A51					EXR 003												

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20400 (4)	28-Jun-96	A51																		
20400 (4,6)	28-Jun-96	A51																		
20400	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		94.40	<20.00	2.20	3.60			16.80		149.00
20400 (6)	28-Jun-96	A51	XVZ 007	XVZ 007	XVZ 007	XVZ 007	XVZ 007	XVZ 007		AXWB 009		AXZR 006	XVZ 007	XZZ 005	XZZ 005			AXYR 003		AXXA 003
20400 (5)	25-Jul-96	A52										39.70							4000.00	
20400 (6)	25-Jul-96	A52										AYFW 004							Field	
20400 (5)	30-Jul-96	A52									<500.00									
20400 (6)	30-Jul-96	A52									AYDP 003									
20400	12-Aug-96	A52							<0.20		<500.00	47.50							7950.00	
20400 (6)	12-Aug-96	A52							AYKI 013		AYHD 003	YWF 003							Field	
20400	04-Sep-96	A52	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<500.00	50.70	<20.00					<10.00	9390.00	282.00
20400 (6)	04-Sep-96	A52	YYT 009	YYT 009	YYT 009	YYT 009	YYT 009			AYZN 005	YZF 005	YXC 005	YYT 009					AYZL 005	Field	ZDR 005
20400	04-Sep-96	A52															<8.00			
20400 (6)	04-Sep-96	A52															EXU 005			
20400	02-Oct-96	A53									<500.00	29.30								
20400 (6)	02-Oct-96	A53									AZIY 003	ZOA 004								
20400	06-Nov-96	A53									<500.00	46.20								
20400 (6)	06-Nov-96	A53									BAAL 004	BAIC 006								
20400	05-Dec-96	A53															<6000.00			
20400 (6)	05-Dec-96	A53															EXX 003			
20400	05-Dec-96	A53	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<500.00	30.00	<20.00					24400.00		154.00
20400 (6)	05-Dec-96	A53	AOE 009	AOE 009	AOE 009	AOE 009	AOE 009			BANU 003	AML 003	ARD 005	AOE 009					BASA 003		BAWG 003
20400	08-Jan-97	A54									<500.00	33.70								
20400 (6)	08-Jan-97	A54									BBAM 003	BBW 005								
20400	06-Feb-97	A54									<100.00	44.00								
20400 (6)	06-Feb-97	A54									BBJW 003	BQF 003								
20400 (4)	06-Feb-97	A54										42.30								
20400 (4,6)	06-Feb-97	A54										BBQF 004								
20400	04-Mar-97	A54															<6000.00			
20400 (6)	04-Mar-97	A54															EYJ 002			
20400	04-Mar-97	A54	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<100.00	32.40	<20.00					14500.00		156.00
20400 (6)	04-Mar-97	A54	BTT 007	BTT 007	BTT 007	BTT 007	BTT 007			BBXM 011	BRW 003	BCJC 003	BTT 007					BBXZ 003		BCLR 003
20400	03-Apr-97	A55									<200.00	38.10								
20400 (6)	03-Apr-97	A55									BCPF 004	CYF 004								
20400	08-May-97	A55									(V) <500.00	(V) 58.60								
20400 (6)	08-May-97	A55									BDHW 002	DKB 010								
20400	05-Jun-97	A55															<6000.00			
20400 (6)	05-Jun-97	A55															EYL 005			
20400	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	20.70	<500.00	40.50	<20.00	2.52	5.18			22800.00		197.00
20400 (6)	05-Jun-97	A55	FDD 009	FDD 009	FDD 009	FDD 009	FDD 009	FDD 009	BFFC 008	BFDP 005	DYY 005	FKC 005	FDD 009	BFNL 007	BFNL 007			BFGS 005		BFKH 005
20400 (4)	05-Jun-97	A55																		
20400 (4,6)	05-Jun-97	A55																		
20400	02-Jul-97	A56									<200.00	53.20								
20400 (6)	02-Jul-97	A56									BFSG 004	GBX 004								
20400	06-Aug-97	A56									<500.00	53.40								

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20400 (4)	28-Jun-96	A51											19.00	170.00				6.80	3.20
20400 (4,6)	28-Jun-96	A51											AXZJ 006	AXZJ 006				AXZJ 006	AXZJ 006
20400	28-Jun-96	A51											77.00	240.00				4.30	10.00
20400 (6)	28-Jun-96	A51											AXZJ 005	AXZJ 005				AXZJ 005	AXZJ 005
20400 (5)	25-Jul-96	A52		7.58		<4000.00													
20400 (6)	25-Jul-96	A52		Field		AZME 003													
20400 (5)	30-Jul-96	A52	58900.00																
20400 (6)	30-Jul-96	A52	AYDQ 003																
20400	12-Aug-96	A52	59700.00	7.58		<4000.00													
20400 (6)	12-Aug-96	A52	AYHE 003	Field		AYSO 003													
20400	04-Sep-96	A52	56700.00	7.8		<4000.00													
20400 (6)	04-Sep-96	A52	AYZP 005	Field		AYYU 005													
20400	04-Sep-96	A52					440.00												
20400 (6)	04-Sep-96	A52					EXT 005												
20400	02-Oct-96	A53	65000.00			<4000.00													
20400 (6)	02-Oct-96	A53	AZIZ 003			AZJG 003													
20400	06-Nov-96	A53	27600.00			<4000.00													
20400 (6)	06-Nov-96	A53	BAAX 004			BACW 004													
20400	05-Dec-96	A53					<10.00												
20400 (6)	05-Dec-96	A53					EXW 003												
20400	05-Dec-96	A53	46000.00			<4000.00													
20400 (6)	05-Dec-96	A53	BANJ 003			BAQI 003													
20400	08-Jan-97	A54	39700.00			<4000.00													
20400 (6)	08-Jan-97	A54	BBAN 003			BBBU 003													
20400	06-Feb-97	A54	51500.00			<4000.00													
20400 (6)	06-Feb-97	A54	BBJX 003			BBMW 003													
20400 (4)	06-Feb-97	A54																	
20400 (4,6)	06-Feb-97	A54																	
20400	04-Mar-97	A54					3.00												
20400 (6)	04-Mar-97	A54					EYI 003												
20400	04-Mar-97	A54	57800.00			<4000.00													
20400 (6)	04-Mar-97	A54	BBSD 003			BBVF 003													
20400	03-Apr-97	A55	(B) 61100.00			<4000.00													
20400 (6)	03-Apr-97	A55	BCPG 004			BCSW 004													
20400	08-May-97	A55	(V) 62600.00			(V) <4000.00													
20400 (6)	08-May-97	A55	BDNH 010			BDTM 002													
20400	05-Jun-97	A55					<1.00												
20400 (6)	05-Jun-97	A55					EYK 005												
20400	05-Jun-97	A55	60100.00			6000.00			1.93				21.30						
20400 (6)	05-Jun-97	A55	BDYZ 005			BFHQ 006			BFCB 006				BFCB 006						
20400 (4)	05-Jun-97	A55							4.56					15.30					
20400 (4,6)	05-Jun-97	A55							BFCB 007					BFCB 007					
20400	02-Jul-97	A56	14100.00			<4000.00													
20400 (6)	02-Jul-97	A56	BGBC 004			BGBY 004													
20400	06-Aug-97	A56	61800.00			<4000.00													

APPENDIX F.3

Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20400 (6)	06-Aug-97	A56									BGHH 004	GLR 005								
20400	04-Sep-97	A56															<6000.00			
20400 (6)	04-Sep-97	A56															EYN 006			
20400	04-Sep-97	A56	<4.47	<5.00	<10.00	<20.00	<40.00			<5.00	<500.00	48.60	<20.00					<10000.00		118.00
20400 (6)	04-Sep-97	A56	GQY 009	GQY 009	GQY 009	GQY 009	GQY 009			BGQF 005	BGPT 005	GVR 010	GQY 009					BGRS 005		BGRQ 005
20500	07-Oct-94	F45									L<12.10	46.50							7340	
20500 (6)	07-Oct-94	F45									DKK 006	DKL 006							DKQ 003	
20500	08-Nov-94	F45		0.19	<2.18	9.14	<5.94			<8.35	<12.10	39.20	56.10	<13.20	<15.10	<14.60	<4000.00	17.40	7300	130
20500 (6)	08-Nov-94	F45		DNG 007	DNH 005	DNI 004	DNJ 005			DNK 004	DNB 005	DNC 005	DNL 005	DNV 001	DNV 001	DNW 001	DNO 004	DNM 005	DNT 002	DNP 004
20500	08-Dec-94	F45									<12.10	44.80							8500	
20500 (6)	08-Dec-94	F45									DOA 005	DOB 006							DOG 003	
20500	17-Jan-95	F46									<12.10	161.00							12100	
20500 (6)	17-Jan-95	F46									DOI 060	DOJ 006							DOO 003	
20500	01-Feb-95	F46	<1.93	0.40	<2.18	10.00	9.16	<2.65	<0.70	<8.35	<12.10	110.00	174.00				<4000.00	22.00	10200	410
20500 (6)	01-Feb-95	F46	DPA 005	DOV 005	DOW 005	DOX 005	DOZ 005	OY 003	DPB 006	DPC 005	DOQ 011	DOR 005	DPD 005				DPG 004	DPE 006	DPL 002	DPH 004
20500	04-Apr-95	F47									<12.10	39.20							10100	
20500 (6)	04-Apr-95	F47									DTA 036	DTB 006							DTG 003	
20500	02-May-95	F47												<13.20	<13.10	<14.20				
20500 (6)	02-May-95	F47												DWP 011	DWP 011	DWQ 011				
20500	03-May-95	F47	2.18	0.18	<2.18	20.10	<5.94	<2.65	<0.70	<8.35	<12.10	29.10	127.00				<4000.00	21.00	11200	170000
20500 (6)	03-May-95	F47	DWD 028	DVY 023	DVZ 016	DWA 014	DWC 014	WB 014	DWE 018	DWF 017	DVT 025	DVU 014	DWG 014				DWJ 013	DWH 014	DWT 011	DWK 013
20500	08-Jun-95	F47									<12.10	37.10							10200	
20500 (6)	08-Jun-95	F47									EEC 014	EED 006							EEI 003	
20500	12-Jul-95	F48									<12.10	51.20							10000	
20500 (6)	12-Jul-95	F48									ENO 006	ENP 016							ENU 003	
20500	14-Aug-95	F48	<1.93	0.23	<2.18	4.85	R<5.94	<2.65	<0.70	<8.35	<12.10	36.10	92.20				<4000.00	14.00	7260	<50000.00
20500 (6)	14-Aug-95	F48	ETO 019	ETJ 028	ETK 005	ETL 038	ETN 005	TM 013	ETP 020	ETQ 004	ETE 014	ETF 005	ETR 008				ETU 004	ETS 004	ETZ 002	ETV 004
20500	19-Sep-95	F48									<12.10	62.20							5700	
20500 (6)	19-Sep-95	F48									EWE 017	EWF 010							EWK 007	
20500 (5)	10-Oct-95	A49									<12.10	35.10							9060.00	
20500 (6)	10-Oct-95	A49									EWM 018	EWN 010							EWS 007	
20500	28-Nov-95	A49		<5.00	<15.00	<20.00	<63.10	<100.00	<0.74	<8.17	60.00	100.00	47.80					<50.00	Frozen	200.00
20500 (6)	28-Nov-95	A49		IRL 021	IRL 021	IRL 021	IRL 021	IRL 021	JDP 011	IMQ 018	FVX 016	FVY 015	IRL 021					KGH 007		KIG 017
20500	28-Nov-95	A49															4000.00			
20500 (6)	28-Nov-95	A49															EXO 005			
20500 (4)	28-Nov-95	A49																<50.00		
20500 (4,6)	28-Nov-95	A49																KGH 008		
20500	13-May-96	A51									<20.00	50.00							8800.00	
20500 (6)	13-May-96	A51									KKH 010	KKG 010							Field	
20500	27-Jun-96	A51									<500.00								9000.00	
20500 (6)	27-Jun-96	A51									AXXJ 004								Field	
20500	27-Jun-96	A51															<4.00			
20500 (6)	27-Jun-96	A51															EXS 004			
20500	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		53.70	28.70	<2.00	<18.00			35.90		173.00

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20400 (6)	06-Aug-97	A56	BGHJ 004			BGKV 004													
20400	04-Sep-97	A56					<10.00												
20400 (6)	04-Sep-97	A56					EYM 005												
20400	04-Sep-97	A56	54500.00			<4000.00													
20400 (6)	04-Sep-97	A56	BGPV 005			BGSX 005													
20500	07-Oct-94	F45	2100.00	6.97	361.00	<1000.00													
20500 (6)	07-Oct-94	F45	DKN 005	DKP 003	DKR 003	DKM 005													
20500	08-Nov-94	F45	230000.00	7.40	1150.00	<1000.00	10.00												
20500 (6)	08-Nov-94	F45	DNE 004	DNS 002	DNU 002	DND 004	DNQ 003												
20500	08-Dec-94	F45	380000.00	7.29	1050.00	4000.00													
20500 (6)	08-Dec-94	F45	DOD 008	DOF 003	DOH 003	DOC 005													
20500	17-Jan-95	F46	427000.00	6.88	952.00	15000.00													
20500 (6)	17-Jan-95	F46	DOL 010	DON 003	DOP 003	DOK 005													
20500	01-Feb-95	F46	719000.00	6.55	1410.00	27000.00	70.00												
20500 (6)	01-Feb-95	F46	DOT 009	DPK 002	DPM 002	DOS 004	DPI 003												
20500	04-Apr-95	F47	442000.00	6.82	2180.00	3000.00													
20500 (6)	04-Apr-95	F47	DTD 023	DTF 003	DTH 003	DTC 005													
20500	02-May-95	F47						<14.20	<5.00										
20500 (6)	02-May-95	F47						DWQ 011	DWQ 011										
20500	03-May-95	F47	470000.00	7.11	2140.00	1000.00	<10.00			1.10	<0.40	0.80							
20500 (6)	03-May-95	F47	DVW 025	DWS 011	DWU 011	VVA 004	DWM 004			DWR 011	DWR 011	DWR 011							
20500	08-Jun-95	F47	80000000.00	7.57	730.00	4000.00													
20500 (6)	08-Jun-95	F47	EEF 032	EEH 003	EEJ 003	EEE 005													
20500	12-Jul-95	F48	310000000.00	7.50	1080.00	1000.00													
20500 (6)	12-Jul-95	F48	ENR 020	ENT 003	ENV 003	ENQ 005													
20500	14-Aug-95	F48	33.90	7.09	533.00	6000.00	>3000.00												
20500 (6)	14-Aug-95	F48	ETH 014	ETY 002	EUA 002	ETG 004	ETW 003												
20500	19-Sep-95	F48	452000.00	7.63	1620.00	8000.00													
20500 (6)	19-Sep-95	F48	EWH 045	EWJ 007	EWL 007	EWG 009													
20500 (5)	10-Oct-95	A49	146000.00	7.34	802.00	3000.00													
20500 (6)	10-Oct-95	A49	EWP 061	EWR 007	EWT 007	EWO 009													
20500	28-Nov-95	A49	450000.00	7.55		<10000.00													
20500 (6)	28-Nov-95	A49	FVZ 016	Field		AKL 011													
20500	28-Nov-95	A49					810.00												
20500 (6)	28-Nov-95	A49					EXN 006												
20500 (4)	28-Nov-95	A49																	
20500 (4,6)	28-Nov-95	A49																	
20500	13-May-96	A51	390000.00	7.30		<10000.00													
20500 (6)	13-May-96	A51	KKI 010	Field		KGT 008													
20500	27-Jun-96	A51	531000.00	7.15		<23000.00													
20500 (6)	27-Jun-96	A51	AXXI 004	Field		AXWE 004													
20500	27-Jun-96	A51					240.00												
20500 (6)	27-Jun-96	A51					EXR 004												
20500	28-Jun-96	A51											240.00	260.00				17.00	25.00

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20500 (6)	28-Jun-96	A51	XVZ 008	XVZ 008	XVZ 008	XVZ 008	XVZ 008	XVZ 008		AXWB 010		AXZR 007	XVZ 008	XZZ 006	XZZ 006			AXYR 004		AXXA 004
20500	25-Jul-96	A52										45.20							2200.00	
20500 (6)	25-Jul-96	A52										AYFW 006							Field	
20500 (4)	25-Jul-96	A52										41.00								
20500 (4,6)	25-Jul-96	A52										AYFW 007								
20500	30-Jul-96	A52									<500.00									
20500 (6)	30-Jul-96	A52									AYDP 005									
20500 (4)	30-Jul-96	A52									<500.00									
20500 (4,6)	30-Jul-96	A52									AYDP 006									
20500	12-Aug-96	A52							<0.20		<500.00	76.80							6450.00	
20500 (6)	12-Aug-96	A52							AYKI 014		AYHD 004	YWF 004							Field	
20500	06-Nov-96	A53									<500.00	74.70								
20500 (6)	06-Nov-96	A53									BAAL 003	BAIC 005								
20500	03-Apr-97	A55									<200.00	46.60								
20500 (6)	03-Apr-97	A55									BCPF 003	CYF 003								
20500	07-May-97	A55									(V) <500.00	V) 115.00								
20500 (6)	07-May-97	A55									BDHG 003	DKB 003								
20500	05-Jun-97	A55															<6000.00			
20500 (6)	05-Jun-97	A55															EYL 006			
20500	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	73.80	36.70	0.60	7.09			35500.00		308.00
20500 (6)	05-Jun-97	A55	FDD 010	FDD 010	FDD 010	FDD 010	FDD 010	FDD 010	BFFC 009	BFDP 006	DYY 006	FKC 006	FDD 010	BFNL 008	BFNL 008			BFGS 006		BFKH 006
20500	02-Jul-97	A56									<200.00	56.10								
20500 (6)	02-Jul-97	A56									BFSG 002	GBX 002								
20500	06-Aug-97	A56									<500.00	171.00								
20500 (6)	06-Aug-97	A56									BGHH 002	GLR 003								
20500	04-Sep-97	A56															<6000.00			
20500 (6)	04-Sep-97	A56															EYN 004			
20500	04-Sep-97	A56		<5.00	<10.00	(JP) 5.49	<40.00	<30.80	<0.10	<5.00	<500.00	264.00	59.60					32400.00		256.00
20500 (6)	04-Sep-97	A56		BGQY 007	GQY 007	GQY 007	GQY 007	QY 007	BGSF 003	GQF 003	BGPT 003	GVR 008	GQY 007					BGRS 003		BGRQ 003
20700	08-Nov-94	F45																		
20700 (6)	08-Nov-94	F45																		
20700	09-Nov-94	F45		<0.10	<2.18	2.41	<5.94			<8.35	<12.10	80.90	<29.40	<4.80	5.40	<17.20	4400.00	53.40	6640	150
20700 (6)	09-Nov-94	F45		DNG 012	DNH 010	DNI 009	DNJ 010			DNK 010	DNB 010	DNC 010	DNL 010	DNV 004	DNV 004	DNW 004	DNO 009	DNM 010	DNT 007	DNP 009
20700	17-Jan-95	F46									<12.10	56.20							10500	
20700 (6)	17-Jan-95	F46									DOI 064	DOJ 010							DOO 007	
20700	01-Feb-95	F46	<1.93	0.17	<2.18	9.33	<5.94			<8.35	<12.10	41.20	<29.40				<4000.00	51.00	13600	170
20700 (6)	01-Feb-95	F46	DPA 009	DOV 010	DOW 010	DOX 010	DOZ 010			DPC 010	DOQ 036	DOR 010	DPD 010				DPG 009	DPE 011	DPL 007	DPH 009
20700	02-Mar-95	F46									<12.10	35.10							18700.00	
20700 (6)	02-Mar-95	F46									DQH 004	DQI 004							DQN 001	
20700	04-Apr-95	F47									<12.10	110.00							12700	
20700 (6)	04-Apr-95	F47									DTA 040	DTB 010							DTG 005	
20700	02-May-95	F47	<1.93	<0.10	<2.18	6.99	<5.94	<2.65	<0.70	<8.35	<12.10	131.00	36.10	6.90	7.20	<15.20	4000.00	56.00	10900	230000
20700 (6)	02-May-95	F47	DWD 018	DVY 013	DVZ 006	DWA 004	DWC 004	WB 004	DWE 006	DWF 003	DVS 009	DVU 004	DWG 004	DWP 001	DWP 001	DWQ 001	DWJ 003	DWH 004	DWT 001	DWK 003
20700	08-Jun-95	F47									<12.10	131.00							7270	

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20500 (6)	28-Jun-96	A51											AXZJ 007	AXZJ 007				AXZJ 007	AXZJ 007
20500	25-Jul-96	A52		6.95		7000.00													
20500 (6)	25-Jul-96	A52		Field		AZME 005													
20500 (4)	25-Jul-96	A52				5000.00													
20500 (4,6)	25-Jul-96	A52				AZME 006													
20500	30-Jul-96	A52	748000.00																
20500 (6)	30-Jul-96	A52	AYDQ 005																
20500 (4)	30-Jul-96	A52	733000.00																
20500 (4,6)	30-Jul-96	A52	AYDQ 006																
20500	12-Aug-96	A52	694000.00	7.07		<4000.00													
20500 (6)	12-Aug-96	A52	AYHE 004	Field		AYSO 004													
20500	06-Nov-96	A53	99100.00			<4000.00													
20500 (6)	06-Nov-96	A53	BAAX 003			BACW 003													
20500	03-Apr-97	A55	(B) 239000.00			<4000.00													
20500 (6)	03-Apr-97	A55	BCPG 003			BCSW 003													
20500	07-May-97	A55	(V) 729000.00			(V) 14000.00													
20500 (6)	07-May-97	A55	BDNH 003			BDHS 003													
20500	05-Jun-97	A55					2140.00												
20500 (6)	05-Jun-97	A55					EYK 006												
20500	05-Jun-97	A55	770000.00			11000.00			<2.13					44.80		15.70			
20500 (6)	05-Jun-97	A55	BDYZ 006			BFHQ 007			BFCB 008					BFCB 008		BFCB 008			
20500	02-Jul-97	A56	34900.00			<4000.00													
20500 (6)	02-Jul-97	A56	BGBC 002			BGBY 002													
20500	06-Aug-97	A56	279000.00			<4000.00													
20500 (6)	06-Aug-97	A56	BGHJ 002			BGKV 002													
20500	04-Sep-97	A56					330.00												
20500 (6)	04-Sep-97	A56					EYM 003												
20500	04-Sep-97	A56	535000.00			101000.00													
20500 (6)	04-Sep-97	A56	BGPV 003			BGSX 003													
20700	08-Nov-94	F45		7.40															
20700 (6)	08-Nov-94	F45		DNS 007															
20700	09-Nov-94	F45	35000.00		304.00	13000.00	10.00												
20700 (6)	09-Nov-94	F45	DNE 010		DNU 007	DND 009	DNR 003												
20700	17-Jan-95	F46	181000.00	6.78	637.00	3000.00													
20700 (6)	17-Jan-95	F46	DOL 013	DON 007	DOP 007	DOK 009													
20700	01-Feb-95	F46	39600.00	7.02	420.00	<1000.00	10.00												
20700 (6)	01-Feb-95	F46	DOT 035	DPK 007	DPM 007	DOS 009	DPI 008												
20700	02-Mar-95	F46	43400.00	7.33		9000.00													
20700 (6)	02-Mar-95	F46	DQK 017	DQM 001		DQJ 003													
20700	04-Apr-95	F47	23100.00	7.37	329.00	15000.00													
20700 (6)	04-Apr-95	F47	DTD 027	DTF 005	DTH 005	DTC 009													
20700	02-May-95	F47	27600.00	7.57	381.00	18000.00	<10.00	<15.20	<10.20	1.00	<0.50	<0.50							
20700 (6)	02-May-95	F47	DVW 002	DWS 001	DWU 001	DVV 003	DWL 002	DWQ 001	DWQ 001	DWR 001	DWR 001	DWR 001							
20700	08-Jun-95	F47	23000000.00	7.45	298.00	29000.00													

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20700 (6)	08-Jun-95	F47									EEC 018	EED 008							EEI 005	
20700	12-Jul-95	F48									<12.10	161.00							7300	
20700 (6)	12-Jul-95	F48									ENO 008	ENP 018							ENU 005	
20700	14-Aug-95	F48	<1.93	0.16	<2.18	1.88	R<5.94			<8.35	<12.10	221.00	<29.40				7000.00	88.00	5940	50000
20700 (6)	14-Aug-95	F48	ETO 023	ETJ 040	ETK 010	ETL 057	ETN 012			ETQ 009	ETE 019	ETF 010	ETR 015				ETU 009	ETS 009	ETZ 007	ETV 009
20700	19-Sep-95	F48									<12.10	181.00							6600	
20700 (6)	19-Sep-95	F48									EWE 008	EWF 005							EWK 002	
20700	10-Oct-95	A49									<12.10	110.00							7000.00	
20700 (6)	10-Oct-95	A49									EWM 009	EWN 005							EWS 002	
20700	28-Nov-95	A49	<12.50	<5.00	<15.00	<20.00	<63.10	<100.00		<8.17	20.00	80.00	<13.00					<50.00	15140.00	200.00
20700 (6)	28-Nov-95	A49	IRL 007	IRL 007	IRL 007	IRL 007	IRL 007	IRL 007		IMQ 004	FVX 005	FVY 002	IRL 007					KGH 004	Field	KIG 007
20700 (4)	28-Nov-95	A49																		
20700 (4,6)	28-Nov-95	A49																		
20700 (4)	28-Nov-95	A49										80.00								
20700 (4,6)	28-Nov-95	A49										FVY 003								
20700	28-Nov-95	A49															10000.00			
20700 (6)	28-Nov-95	A49															EXO 006			
20700 (4)	28-Nov-95	A49																		
20700 (4,6)	28-Nov-95	A49																		
20700 (4)	28-Nov-95	A49																		
20700 (4,6)	28-Nov-95	A49																		
20700	14-Dec-95	A49									<20.00	70.00							11100.00	
20700 (6)	14-Dec-95	A49									KIE 010	KID 010							Field	
20700	12-Jan-96	A50									20.00	60.00							1500.00	
20700 (6)	12-Jan-96	A50									KIJ 006	KIJA 008							Field	
20700	20-Feb-96	A50	<12.50	<5.00	<15.00	25.10	<5.00		<0.74	<8.17	<20.00	60.00	15.30					<50.00	3700.00	<100.00
20700 (6)	20-Feb-96	A50	IRO 008	IRO 008	IRO 008	IRO 008	EXU 007		JDU 007	IMR 009	KIO 007	KIP 007	IRO 008					KGK 007	Field	KIR 007
20700	20-Feb-96	A50															<4000.00			
20700 (6)	20-Feb-96	A50															EXQ 004			
20700 (5)	12-Mar-96	A50									20.00	130.00							8600.00	
20700 (6)	12-Mar-96	A50									KIT 008	KIU 008							Field	
20700	12-Apr-96	A51									<20.00	170.00							11600.00	
20700 (6)	12-Apr-96	A51									KIZ 008	KKA 008							Field	
20700	13-May-96	A51									<20.00	80.00							11000.00	
20700 (6)	13-May-96	A51									KKH 006	KKG 006							Field	
20700	27-Jun-96	A51									<500.00								8300.00	
20700 (6)	27-Jun-96	A51									AXXJ 010								Field	
20700	27-Jun-96	A51															<4.00			
20700 (6)	27-Jun-96	A51															EXS 010			
20700	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		91.60	<20.00	<0.85	2.80			57.20		<50.00
20700 (6)	28-Jun-96	A51	XVZ 014	XVZ 014	XVZ 014	XVZ 014	XVZ 014	XVZ 014		AXWB 016		AXZR 013	XVZ 014	XZZ 012	XZZ 012			AXYR 010		AXXA 010
20700	25-Jul-96	A52										155.00							3900.00	
20700 (6)	25-Jul-96	A52										AYFW 011							Field	
20700	30-Jul-96	A52									<500.00									
20700 (6)	30-Jul-96	A52									AYDP 010									

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20700 (6)	08-Jun-95	F47	EEF 034	EEH 005	EEJ 005	EEE 007													
20700	12-Jul-95	F48	24000000.00	8.31	323.00	420000.00													
20700 (6)	12-Jul-95	F48	ENR 014	ENT 005	ENV 005	ENQ 007													
20700	14-Aug-95	F48	15.20	7.67	276.00	69000.00	210.00												
20700 (6)	14-Aug-95	F48	ETH 019	ETY 007	EUA 007	ETG 009	ETW 008												
20700	19-Sep-95	F48	26200.00	8.39	350.00	35000.00													
20700 (6)	19-Sep-95	F48	EWH 036	EWJ 002	EWL 002	EWG 004													
20700	10-Oct-95	A49	30600.00	7.38	340.00	20000.00													
20700 (6)	10-Oct-95	A49	EWP 037	EWR 002	EWT 002	EWO 004													
20700	28-Nov-95	A49	26000.00	7.90		<10000.00													
20700 (6)	28-Nov-95	A49	FVZ 005	Field		KGI 004													
20700 (4)	28-Nov-95	A49				<10000.00													
20700 (4,6)	28-Nov-95	A49				KGI 005													
20700 (4)	28-Nov-95	A49																	
20700 (4,6)	28-Nov-95	A49																	
20700	28-Nov-95	A49					<10.00												
20700 (6)	28-Nov-95	A49					EXN 007												
20700 (4)	28-Nov-95	A49					<10.00												
20700 (4,6)	28-Nov-95	A49					EXN 008												
20700 (4)	28-Nov-95	A49					10.00												
20700 (4,6)	28-Nov-95	A49					EXN 009												
20700	14-Dec-95	A49	29000.00	7.76		<10000.00													
20700 (6)	14-Dec-95	A49	KIB 010	Field		KJA 007													
20700	12-Jan-96	A50	36000.00	6.94		<10000.00													
20700 (6)	12-Jan-96	A50	KIK 008	Field		KGG 005													
20700	20-Feb-96	A50	55800.00	7.03		<10000.00													
20700 (6)	20-Feb-96	A50	KIQ 007	Field		KGJ 006													
20700	20-Feb-96	A50					37.00												
20700 (6)	20-Feb-96	A50					EXP 005												
20700 (5)	12-Mar-96	A50	96500.00	7.22		<10000.00													
20700 (6)	12-Mar-96	A50	KIW 008	Field		KGO 006													
20700	12-Apr-96	A51	26000.00	7.52		<10000.00													
20700 (6)	12-Apr-96	A51	KKB 008	Field		KGQ 006													
20700	13-May-96	A51	27000.00	8.55		<10000.00													
20700 (6)	13-May-96	A51	KKI 006	Field		KGT 004													
20700	27-Jun-96	A51	23800.00	8.23		24000.00													
20700 (6)	27-Jun-96	A51	AXXI 010	Field		AXWE 010													
20700	27-Jun-96	A51					590.00												
20700 (6)	27-Jun-96	A51					EXR 010												
20700	28-Jun-96	A51											36.00	10.00				3.30	1.10
20700 (6)	28-Jun-96	A51											AXZJ 013	AXZJ 013				AXZJ 013	AXZJ 013
20700	25-Jul-96	A52		9.02		72200.00													
20700 (6)	25-Jul-96	A52		Field		AZME 010													
20700	30-Jul-96	A52	30800.00																
20700 (6)	30-Jul-96	A52	AYDQ 010																

APPENDIX F.3

Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20700	12-Aug-96	A52							<0.20		<500.00	349.00							3600.00	
20700 (6)	12-Aug-96	A52							AYKI 018		AYHD 008	YWF 008							Field	
20700	04-Sep-96	A52	<10.00	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	195.00	<20.00					40.10	8520.00	1230.00
20700 (6)	04-Sep-96	A52	YYT 010	YYT 010	YYT 010	YYT 010	YYT 010		AZBI 008	YZN 006	YZF 006	YXC 006	YYT 010					AYZL 006	Field	ZDR 006
20700	04-Sep-96	A52															<8.00			
20700 (6)	04-Sep-96	A52															EXU 006			
20700	02-Oct-96	A53									<500.00	122.00								
20700 (6)	02-Oct-96	A53									AZIY 006	ZOA 007								
20700 (4)	02-Oct-96	A53									<500.00	123.00								
20700 (4,6)	02-Oct-96	A53									AZIY 007	ZOA 008								
20700 (5)	06-Nov-96	A53									<500.00	68.90								
20700 (6)	06-Nov-96	A53									BAAL 008	BAIC 010								
20700 (5)	05-Dec-96	A53															<6000.00			
20700 (6)	05-Dec-96	A53															EXX 009			
20700 (5)	05-Dec-96	A53	<10.00	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	54.20	<20.00					41000.00		934.00
20700 (6)	05-Dec-96	A53	AOE 007	AOE 007	AOE 007	AOE 007	AOE 007		BARM 009	ANU 009	AML 009	ARD 011	AOE 007					BASA 009		BAWG 009
20700 (5)	08-Jan-97	A54									<500.00	70.70								
20700 (6)	08-Jan-97	A54									BBAM 007	BBW 009								
20700	06-Feb-97	A54									<100.00	93.40								
20700 (6)	06-Feb-97	A54									BBJW 005	BQF 007								
20700 (4)	06-Feb-97	A54									<100.00	103.00								
20700 (4,6)	06-Feb-97	A54									BBJW 006	BQF 008								
20700	04-Mar-97	A54															7700.00			
20700 (6)	04-Mar-97	A54															EYJ 006			
20700	04-Mar-97	A54	<10.00	<5.00	<10.00	<20.00	<40.00		<0.10	<10.00	<100.00	78.70	<20.00					41900.00		956.00
20700 (6)	04-Mar-97	A54	BTT 010	BTT 010	BTT 010	BTT 010	BTT 010		BBZD 009	BXM 014	BRW 006	BCJC 004	BTT 010					BBXZ 004		BCLR 004
20700	03-Apr-97	A55									<200.00	123.00								
20700 (6)	03-Apr-97	A55									BCPF 007	CYF 007								
20700 (4)	03-Apr-97	A55									<200.00	110.00								
20700 (4,6)	03-Apr-97	A55									BCPF 008	CYF 008								
20700 (5)	07-May-97	A55									(V) <500.00	V) 106.00								
20700 (6)	07-May-97	A55									BDHG 006	DKB 006								
20700 (5)	05-Jun-97	A55															<6000.00			
20700 (6)	05-Jun-97	A55															EYL 012			
20700 (5)	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	1390.00	<20.00	0.75	3.89			65100.00		(JP) 17.00
20700 (6)	05-Jun-97	A55	FDD 016	FDD 016	FDD 016	FDD 016	FDD 016	FDD 016	BFFC 015	BFDP 012	DYY 012	FKC 012	FDD 016	BFNL 015	BFNL 015			BFGS 012		BFKH 012
20700	02-Jul-97	A56									<200.00	137.00								
20700 (6)	02-Jul-97	A56									BFSG 008	GBX 008								
20700	06-Aug-97	A56									<500.00	139.00								
20700 (6)	06-Aug-97	A56									BGHH 008	GLR 009								
20700	04-Sep-97	A56															<6000.00			
20700 (6)	04-Sep-97	A56															EYN 011			
20700	04-Sep-97	A56	<4.47	<5.00	<10.00	(JP) 55.80	(JP) 12.80		<0.10	<5.00	<500.00	77.90	<20.00					88100.00		<50.00
20700 (6)	04-Sep-97	A56	GQY 014	GQY 014	GQY 014	GQY 014	GQY 014		BGSF 010	GQF 010	BGPT 010	GVR 015	GQY 014					BGRS 010		BGRQ 010

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20700	12-Aug-96	A52	29900.00	7.58		51000.00													
20700 (6)	12-Aug-96	A52	AY1IE 008	Field		AYSO 008													
20700	04-Sep-96	A52	38800.00	7.8		6000.00													
20700 (6)	04-Sep-96	A52	AYZP 006	Field		AYYU 006													
20700	04-Sep-96	A52					530.00												
20700 (6)	04-Sep-96	A52					EXT 006												
20700	02-Oct-96	A53	45300.00			11000.00													
20700 (6)	02-Oct-96	A53	AZIZ 006			AZJG 006													
20700 (4)	02-Oct-96	A53	44900.00			<4000.00													
20700 (4,6)	02-Oct-96	A53	AZIZ 007			AZJG 007													
20700 (5)	06-Nov-96	A53	34100.00			6000.00													
20700 (6)	06-Nov-96	A53	BAAX 008			BACW 008													
20700 (5)	05-Dec-96	A53					10.00												
20700 (6)	05-Dec-96	A53					EXW 009												
20700 (5)	05-Dec-96	A53	30700.00			<4000.00													
20700 (6)	05-Dec-96	A53	BANJ 009			BAQI 009													
20700 (5)	08-Jan-97	A54	35700.00			<4000.00													
20700 (6)	08-Jan-97	A54	BBAN 007			BBBU 007													
20700	06-Feb-97	A54	41900.00			<4000.00													
20700 (6)	06-Feb-97	A54	BBJX 005			BBMW 005													
20700 (4)	06-Feb-97	A54	42800.00			<4000.00													
20700 (4,6)	06-Feb-97	A54	BBJX 006			BBMW 006													
20700	04-Mar-97	A54					1.00												
20700 (6)	04-Mar-97	A54					EYI 006												
20700	04-Mar-97	A54	62500.00			<4000.00													
20700 (6)	04-Mar-97	A54	BBSD 006			BBVF 006													
20700	03-Apr-97	A55	(B) 29300.00			13000.00													
20700 (6)	03-Apr-97	A55	BCPG 007			BCSW 007													
20700 (4)	03-Apr-97	A55	(B) 28800.00			12000.00													
20700 (4,6)	03-Apr-97	A55	BCPG 008			BCSW 008													
20700 (5)	07-May-97	A55	(V) 25400.00			(V) 40000.00													
20700 (6)	07-May-97	A55	BDNH 006			BDHS 006													
20700 (5)	05-Jun-97	A55					50.00												
20700 (6)	05-Jun-97	A55					EYK 012												
20700 (5)	05-Jun-97	A55	22300.00			39000.00			2.89										
20700 (6)	05-Jun-97	A55	BDYZ 012			BFHQ 013			BFCB 014										
20700	02-Jul-97	A56	14800.00			35000.00													
20700 (6)	02-Jul-97	A56	BGBC 008			BGBY 008													
20700	06-Aug-97	A56	24900.00			67000.00													
20700 (6)	06-Aug-97	A56	BGHJ 008			BGKV 008													
20700	04-Sep-97	A56					40.00												
20700 (6)	04-Sep-97	A56					EYM 010												
20700	04-Sep-97	A56	24700.00			55000.00													
20700 (6)	04-Sep-97	A56	BGPV 010			BGSX 010													

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20800	07-Oct-94	F45									L<12.10	205.00							5690	
20800 (6)	07-Oct-94	F45									DKK 004	DKL 004							DKQ 001	
20800	08-Nov-94	F45		<0.10	<2.18	6.25	<5.94			<8.35	<12.10	74.50	41.10	<4.20	6.40	<19.40	4900.00	54.40	12700	210
20800 (6)	08-Nov-94	F45		DNG 009	DNH 007	DNI 006	DNJ 007			DNK 006	DNB 007	DNC 007	DNL 007	DNV 002	DNV 002	DNW 002	DNO 006	DNM 007	DNT 004	DNP 006
20800	08-Dec-94	F45									<12.10	43.00							11800	
20800 (6)	08-Dec-94	F45									DOA 003	DOB 004							DOG 001	
20800	17-Jan-95	F46									<12.10	49.20							9910	
20800 (6)	17-Jan-95	F46									DOI 056	DOJ 004							DOO 001	
20800	01-Feb-95	F46	<1.93	<0.10	<2.18	8.78	<5.94			<8.35	<12.10	41.20	<29.40				<4000.00	48.00	13100	240
20800 (6)	01-Feb-95	F46	DPA 007	DOV 007	DOW 007	DOX 007	DOZ 007			DPC 007	DOQ 020	DOR 007	DPD 007				DPG 006	DPE 008	DPL 004	DPH 006
20800	02-Mar-95	F46									<12.10	34.10							18300.00	
20800 (6)	02-Mar-95	F46									DQH 009	DQI 009							DQN 006	
20800	04-Apr-95	F47									<12.10	100.00							10200	
20800 (6)	04-Apr-95	F47									DTA 032	DTB 004							DTG 001	
20800	02-May-95	F47												<4.30	22.80	<11.90				
20800 (6)	02-May-95	F47												DWP 012	DWP 012	DWQ 012				
20800	03-May-95	F47	<1.93	0.10	<2.18	3.55	<5.94	<2.65	<0.70	<8.35	<12.10	99.40	38.10				<4000.00	56.00	10200	120000
20800 (6)	03-May-95	F47	DWD 029	DVY 024	DVZ 017	DWA 015	DWC 015	WB 015	DWE 019	DWF 018	DVT 026	DVU 015	DWG 015				DWJ 014	DWH 015	DWT 012	DWK 014
20800	08-Jun-95	F47									<12.10	120.00							3840	
20800 (6)	08-Jun-95	F47									EEC 012	EED 004							EEI 001	
20800	12-Jul-95	F48									<12.10	171.00							3430	
20800 (6)	12-Jul-95	F48									ENO 004	ENP 014							ENU 001	
20800	14-Aug-95	F48	<1.93	0.39	<2.18	2.38	R<5.94			<8.35	<12.10	201.00	96.20				7000.00	79.00	6370	<50000.00
20800 (6)	14-Aug-95	F48	ETO 021	ETJ 032	ETK 007	ETL 044	ETN 009			ETQ 006	ETE 016	ETF 007	ETR 010				ETU 006	ETS 006	ETZ 004	ETV 006
20800	19-Sep-95	F48									<12.10	171.00							8100	
20800 (6)	19-Sep-95	F48									EWE 016	EWF 009							EWK 006	
20800	10-Oct-95	A49									<12.10	120.00							8950.00	
20800 (6)	10-Oct-95	A49									EWM 012	EWN 008							EWS 005	
20800	28-Nov-95	A49	<12.50	<5.00	<15.00	<20.00	<63.10	<100.00		<8.17	20.00	90.00	<13.00					<50.00	14180.00	200.00
20800 (6)	28-Nov-95	A49	IRL 010	IRL 010	IRL 010	IRL 010	IRL 010	IRL 010		IMQ 010	FVX 008	FVY 008	IRL 010					KGH 009	Field	KIG 010
20800	28-Nov-95	A49															8000.00			
20800 (6)	28-Nov-95	A49															EXO 009			
20800	14-Dec-95	A49									<20.00	80.00							11300.00	
20800 (6)	14-Dec-95	A49									KIE 005	KID 002							Field	
20800 (4)	14-Dec-95	A49										70.00								
20800 (4,6)	14-Dec-95	A49										KID 003								
20800 (4)	14-Dec-95	A49																		
20800 (4,6)	14-Dec-95	A49																		
20800	12-Jan-96	A50									20.00	70.00							1600.00	
20800 (6)	12-Jan-96	A50									KIJ 010	KIJA 002							Field	
20800 (4)	12-Jan-96	A50									30.00	70.00								
20800 (4,6)	12-Jan-96	A50									KIJ 009	KIJA 005								
20800 (4)	12-Jan-96	A50																		
20800 (4,6)	12-Jan-96	A50																		
20800 (4)	12-Jan-96	A50										60.00								

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20800	07-Oct-94	F45	2100.00	6.65	305.00	30000.00													
20800 (6)	07-Oct-94	F45	DKN 003	DKP 001	DKR 001	DKM 003													
20800	08-Nov-94	F45	38000.00	8.31	330.00	<1000.00													
20800 (6)	08-Nov-94	F45	DNE 006	DNS 004	DNU 004	DND 006													
20800	08-Dec-94	F45	26200.00	7.05	438.00	2000.00													
20800 (6)	08-Dec-94	F45	DOD 004	DOF 001	DOH 001	DOC 003													
20800	17-Jan-95	F46	113000.00	6.30	604.00	4.00													
20800 (6)	17-Jan-95	F46	DOL 009	DON 001	DOP 001	DOK 003													
20800	01-Feb-95	F46	41300.00	7.02	461.00	1000.00	<10.00												
20800 (6)	01-Feb-95	F46	DOT 019	DPK 004	DPM 004	DOS 006	DPI 005												
20800	02-Mar-95	F46	48100.00	7.70		4900000.00													
20800 (6)	02-Mar-95	F46	DQK 024	DQM 006		DQJ 008													
20800	04-Apr-95	F47	23800.00	6.57	345.00	14000.00													
20800 (6)	04-Apr-95	F47	DTD 019	DTF 001	DTH 001	DTC 003													
20800	02-May-95	F47						<11.90	<9.40										
20800 (6)	02-May-95	F47						DWQ 012	DWQ 012										
20800	03-May-95	F47	27200.00	7.65	410.00	25000.00	<10.00			0.70	<0.40	<0.30							
20800 (6)	03-May-95	F47	DVW 027	DWS 012	DWU 012	DVVA 005	DWM 005			DWR 012	DWR 012	DWR 012							
20800	08-Jun-95	F47	25000000.00	7.23	307.00	25000.00													
20800 (6)	08-Jun-95	F47	EEF 030	EEH 001	EEJ 001	EEE 003													
20800	12-Jul-95	F48	25000000.00	7.76	329.00	47000.00													
20800 (6)	12-Jul-95	F48	ENR 006	ENT 001	ENV 001	ENQ 003													
20800	14-Aug-95	F48	18.50	7.71	286.00	4900.00	350.00												
20800 (6)	14-Aug-95	F48	ETH 016	ETY 004	EUA 004	ETG 006	ETW 005												
20800	19-Sep-95	F48	24400.00	8.45	357.00	35000.00													
20800 (6)	19-Sep-95	F48	EWH 042	EWJ 006	EWL 006	EWG 008													
20800	10-Oct-95	A49	135000.00	7.78	355.00	17000.00													
20800 (6)	10-Oct-95	A49	EWP 045	EWR 005	EWT 005	EWO 007													
20800	28-Nov-95	A49	30000.00	7.85		<10000.00													
20800 (6)	28-Nov-95	A49	FVZ 008	Field		KGI 006													
20800	28-Nov-95	A49					<10.00												
20800 (6)	28-Nov-95	A49					EXN 010												
20800	14-Dec-95	A49	30000.00	7.64		<10000.00													
20800 (6)	14-Dec-95	A49	KIB 002	Field		KJA 001													
20800 (4)	14-Dec-95	A49																	
20800 (4,6)	14-Dec-95	A49																	
20800 (4)	14-Dec-95	A49	29000.00																
20800 (4,6)	14-Dec-95	A49	KIB 004																
20800	12-Jan-96	A50	37000.00	6.75		<10000.00													
20800 (6)	12-Jan-96	A50	KIK 002	Field		KGG 001													
20800 (4)	12-Jan-96	A50	39000.00			<10000.00													
20800 (4,6)	12-Jan-96	A50	KIK 005			KGG 002													
20800 (4)	12-Jan-96	A50				<10000.00													
20800 (4,6)	12-Jan-96	A50				KGG 009													
20800 (4)	12-Jan-96	A50	37000.00																

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20800 (4,6)	12-Jan-96	A50										KIJA 003								
20800	20-Feb-96	A50	<12.50	<5.00	<15.00	<20.00	6.80		<0.74	<8.17	30.00	70.00	<13.00					<50.00	1300.00	1900.00
20800 (6)	20-Feb-96	A50	IRO 011	IRO 011	IRO 011	IRO 011	EXU 008		JDU 008	IMR 010	KIO 008	KIP 008	IRO 011					KGK 008	Field	KIR 008
20800	20-Feb-96	A50															<4000.00			
20800 (6)	20-Feb-96	A50															EXQ 005			
20800	12-Mar-96	A50									<20.00	70.00							8800.00	
20800 (6)	12-Mar-96	A50									KIT 002	KIU 002							Field	
20800 (4)	12-Mar-96	A50									<20.00	70.00								
20800 (4,6)	12-Mar-96	A50									KIT 003	KIU 003								
20800	12-Apr-96	A51									<20.00	190.00							300.00	
20800 (6)	12-Apr-96	A51									KIZ 002	KKA 002							Field	
20800 (4)	12-Apr-96	A51									<20.00	180.00								
20800 (4,6)	12-Apr-96	A51									KIZ 003	KKA 003								
20800	13-May-96	A51									<20.00	70.00							10700.00	
20800 (6)	13-May-96	A51									KKH 012	KKG 012							Field	
20800	27-Jun-96	A51									<500.00								6700.00	
20800 (6)	27-Jun-96	A51									AXXJ 002								Field	
20800	27-Jun-96	A51															4.40			
20800 (6)	27-Jun-96	A51															EXS 002			
20800 (4)	28-Jun-96	A51																		
20800 (4,6)	28-Jun-96	A51																		
20800	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		108.00	<20.00	0.54	2.40			57.20		<50.00
20800 (6)	28-Jun-96	A51	XVZ 003	XVZ 003	XVZ 003	XVZ 003	XVZ 003	XVZ 003		AXWB 006		AXZR 003	XVZ 003	XZZ 004	XZZ 004			AXYR 002		AXXA 002
20800 (4)	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00			<20.00							
20800 (4,6)	28-Jun-96	A51	XVZ 004	XVZ 004	XVZ 004	XVZ 004	XVZ 004	XVZ 004		AXWB 008			AXVZ 004							
20800 (4)	28-Jun-96	A51										101.00								
20800 (4,6)	28-Jun-96	A51										AXZR 004								
20800	25-Jul-96	A52										159.00							4100.00	
20800 (6)	25-Jul-96	A52										AYFW 003							Field	
20800	30-Jul-96	A52									<500.00									
20800 (6)	30-Jul-96	A52									AYDP 002									
20800	12-Aug-96	A52							<0.20		<500.00	307.00							2170.00	
20800 (6)	12-Aug-96	A52							AYKI 012		AYHD 002	YWF 002							Field	
20800	04-Sep-96	A52	<10.00	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	180.00	<20.00					52.90	2000.00	1420.00
20800 (6)	04-Sep-96	A52	YYT 011	YYT 011	YYT 011	YYT 011	YYT 011		AZBI 009	YZN 007	YZF 007	YXC 007	YYT 011					AYZL 007	Field	ZDR 007
20800	04-Sep-96	A52															<8.00			
20800 (6)	04-Sep-96	A52															EXU 007			
20800	02-Oct-96	A53									<500.00	85.00								
20800 (6)	02-Oct-96	A53									AZIY 002	ZOA 003								
20800	06-Nov-96	A53									<500.00	71.00								
20800 (6)	06-Nov-96	A53									BAAL 002	BAIC 002								
20800 (4)	06-Nov-96	A53										76.50								
20800 (4,6)	06-Nov-96	A53										BAIC 004								
20800	05-Dec-96	A53															<6000.00			
20800 (6)	05-Dec-96	A53															EXX 002			

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20800 (4,6)	12-Jan-96	A50	KIK 003																
20800	20-Feb-96	A50	56100.00	7.04		<10000.00													
20800 (6)	20-Feb-96	A50	KIQ 008	Field		KGJ 007													
20800	20-Feb-96	A50					4.00												
20800 (6)	20-Feb-96	A50					EXP 006												
20800	12-Mar-96	A50	83500.00	7.21		<10000.00													
20800 (6)	12-Mar-96	A50	KIW 002	Field		KGO 001													
20800 (4)	12-Mar-96	A50	81000.00			<10000.00													
20800 (4,6)	12-Mar-96	A50	KIW 003			AKL 001													
20800	12-Apr-96	A51	27000.00	7.57		<10000.00													
20800 (6)	12-Apr-96	A51	KKB 002	Field		KGQ 001													
20800 (4)	12-Apr-96	A51	27000.00			<10000.00													
20800 (4,6)	12-Apr-96	A51	KKB 003			KGQ 002													
20800	13-May-96	A51	27000.00	8.43		27000.00													
20800 (6)	13-May-96	A51	KKI 012	Field		KGT 010													
20800	27-Jun-96	A51	24400.00	7.84		31000.00													
20800 (6)	27-Jun-96	A51	AXXI 002	Field		AXWE 002													
20800	27-Jun-96	A51					990.00												
20800 (6)	27-Jun-96	A51					EXR 002												
20800 (4)	28-Jun-96	A51											39.00	56.00				5.70	2.50
20800 (4,6)	28-Jun-96	A51											AXZJ 004	AXZJ 004				AXZJ 004	AXZJ 004
20800	28-Jun-96	A51											55.00	160.00				12.00	8.00
20800 (6)	28-Jun-96	A51											AXZJ 003	AXZJ 003				AXZJ 003	AXZJ 003
20800 (4)	28-Jun-96	A51																	
20800 (4,6)	28-Jun-96	A51																	
20800 (4)	28-Jun-96	A51																	
20800 (4,6)	28-Jun-96	A51																	
20800	25-Jul-96	A52		8.70		72000.00													
20800 (6)	25-Jul-96	A52		Field		AZME 002													
20800	30-Jul-96	A52	30200.00																
20800 (6)	30-Jul-96	A52	AYDQ 002																
20800	12-Aug-96	A52	32900.00	7.39		48000.00													
20800 (6)	12-Aug-96	A52	AYHE 002	Field		AYSO 002													
20800	04-Sep-96	A52	49000.00	7.6		<4000.00													
20800 (6)	04-Sep-96	A52	AYZP 007	Field		AYYU 007													
20800	04-Sep-96	A52					710.00												
20800 (6)	04-Sep-96	A52					EXT 007												
20800	02-Oct-96	A53	62200.00			<4000.00													
20800 (6)	02-Oct-96	A53	AZIZ 002			AZJG 002													
20800	06-Nov-96	A53	36500.00			6000.00													
20800 (6)	06-Nov-96	A53	BAAX 002			BACW 002													
20800 (4)	06-Nov-96	A53																	
20800 (4,6)	06-Nov-96	A53																	
20800	05-Dec-96	A53					<10.00												
20800 (6)	05-Dec-96	A53					EXW 002												

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20800	*05-Dec-96*	A53	<10.00	<5.00	<10.00	<20.00	<40.00		<0.20	<10.00	<500.00	64.90	<20.00					45200.00		652.00
20800 (6)	05-Dec-96	A53	AOE 003	AOE 003	AOE 003	AOE 003	AOE 003		BARM 003	ANU 002	AML 002	ARD 002	AOE 003					BASA 002		BAWG 002
20800 (4)	05-Dec-96	A53										57.00								
20800 (4,6)	05-Dec-96	A53										BARD 003								
20800	08-Jan-97	A54									<500.00	67.50								
20800 (6)	08-Jan-97	A54									BBAM 002	BBW 002								
20800 (4)	08-Jan-97	A54										74.50								
20800 (4,6)	08-Jan-97	A54										BBBW 003								
20800	06-Feb-97	A54									<100.00	88.80								
20800 (6)	06-Feb-97	A54									BBJW 002	BQF 002								
20800	04-Mar-97	A54															<6000.00			
20800 (6)	04-Mar-97	A54															EYJ 001			
20800	04-Mar-97	A54	<10.00	<5.00	<10.00	<20.00	<40.00		<0.10	<10.00	<100.00	72.20	<20.00					67300.00		937.00
20800 (6)	04-Mar-97	A54	BTT 003	BTT 003	BTT 003	BTT 003	BTT 003		BBZD 003	BXM 010	BRW 002	BCJC 002	BTT 003					BBXZ 002		BCLR 002
20800 (4)	04-Mar-97	A54	<10.00	<5.00	<10.00	<20.00	<40.00						<20.00							
20800 (4,6)	04-Mar-97	A54	BTT 004	BTT 004	BTT 004	BTT 004	BTT 004						BBTT 004							
20800	03-Apr-97	A55									<200.00	137.00								
20800 (6)	03-Apr-97	A55									BCPF 002	CYF 002								
20800	07-May-97	A55									(V) <500.00	V) 129.00								
20800 (6)	07-May-97	A55									BDHG 002	DKB 002								
20800	05-Jun-97	A55															<6000.00			
20800 (6)	05-Jun-97	A55															EYL 004			
20800	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	37.10	<500.00	111.00	<20.00	0.91	2.86			65100.00		(JP) 33.00
20800 (6)	05-Jun-97	A55	FDD 008	FDD 008	FDD 008	FDD 008	FDD 008	FDD 008	BFFC 007	BFDP 004	DYY 004	FKC 004	FDD 008	BFNL 006	BFNL 006			BFGS 004		BFKH 004
20800	02-Jul-97	A56									<200.00	131.00								
20800 (6)	02-Jul-97	A56									BFSG 003	GBX 003								
20800	06-Aug-97	A56									<500.00	153.00								
20800 (6)	06-Aug-97	A56									BGHH 003	GLR 004								
20800	04-Sep-97	A56															<6000.00			
20800 (6)	04-Sep-97	A56															EYN 005			
20800	04-Sep-97	A56	<4.47	<5.00	<10.00	<20.00	(JP) 20.60		<0.10	<5.00	<500.00	92.90	<20.00					88100.00		<50.00
20800 (6)	*04-Sep-97*	A56	GQY 008	GQY 008	GQY 008	GQY 008	GQY 008		BGSF 006	GQF 004	BGPT 004	GVR 009	GQY 008					BGRS 004		BGRQ 004
20900	08-Nov-94	F45		0.18	<2.18	26.00	<5.94			<8.35	<12.10	77.30	49.10				6800.00	53.40	10200	150
20900 (6)	08-Nov-94	F45		DNG 006	DNH 004	DNI 003	DNJ 004			DNK 003	DNB 004	DNC 004	DNL 004				DNO 003	DNM 004	DNT 001	DNP 003
20900	01-Feb-95	F46	<1.93	<0.10	<2.18	3.25	<5.94			<8.35	<12.10	32.10	<29.40				<4000.00	53.00	15200	270
20900 (6)	01-Feb-95	F46	DPA 004	DOV 004	DOW 004	DOX 004	DOZ 004			DPC 004	DOQ 008	DOR 004	DPD 004				DPG 003	DPE 005	DPL 001	DPH 003
20900	02-May-95	F47												8.90	12.30	<15.40				
20900 (6)	02-May-95	F47												DWP 009	DWP 009	DWQ 009				
20900	03-May-95	F47	<1.93	<0.10	<2.18	3.22	16.40	<2.65	<0.70	<8.35	<12.10	96.40	35.10				4000.00	18.00	10700	120000
20900 (6)	03-May-95	F47	DWD 026	DVY 021	DVZ 014	DWA 012	DWC 012	WB 012	DWE 016	DWF 014	DVT 021	DVU 012	DWG 012				DWJ 011	DWH 012	DWT 009	DWK 011
20900	14-Aug-95	F48	<1.93	0.20	<2.18	4.55	R 9.63			<8.35	<12.10	261.00	68.10				8000.00	120.00	5230	60000
20900 (6)	14-Aug-95	F48	ETO 018	ETJ 026	ETK 004	ETL 036	ETN 004			ETQ 003	ETE 013	ETF 004	ETR 006				ETU 003	ETS 003	ETZ 001	ETV 003
20900	*28-Nov-95*	A49	*<12.50*	*<5.00*	*<15.00*	*<20.00*	*<63.10*			*<8.17*	*20.00*	*90.00*	*<13.00*					*65.00*	*15460.00*	*300.00*
20900 (6)	28-Nov-95	A49	IRL 011	IRL 011	IRL 011	IRL 011	IRL 011			IMQ 011	FVX 009	FVY 009	IRL 011					KGH 010	Field	KIG 011

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20800	05-Dec-96	A53	31300.00			<4000.00													
20800 (6)	05-Dec-96	A53	BANJ 002			BAQI 002													
20800 (4)	05-Dec-96	A53																	
20800 (4,6)	05-Dec-96	A53																	
20800	08-Jan-97	A54	36400.00			<4000.00													
20800 (6)	08-Jan-97	A54	BBAN 002			BBBU 002													
20800 (4)	08-Jan-97	A54																	
20800 (4,6)	08-Jan-97	A54																	
20800	06-Feb-97	A54	42800.00			<4000.00													
20800 (6)	06-Feb-97	A54	BBJX 002			BBMW 002													
20800	04-Mar-97	A54					2.00												
20800 (6)	04-Mar-97	A54					EYI 002												
20800	04-Mar-97	A54	56400.00			<4000.00													
20800 (6)	04-Mar-97	A54	BBSD 002			BBVF 002													
20800 (4)	04-Mar-97	A54																	
20800 (4,6)	04-Mar-97	A54																	
20800	03-Apr-97	A55	(B) 29100.00			14000.00													
20800 (6)	03-Apr-97	A55	BCPG 002			BCSW 002													
20800	07-May-97	A55	(V) 26000.00			(V) 40000.00													
20800 (6)	07-May-97	A55	BDNH 002			BDHS 002													
20800	05-Jun-97	A55					70.00												
20800 (6)	05-Jun-97	A55					EYK 004												
20800	05-Jun-97	A55	25000.00			35000.00			2.19			31.90							
20800 (6)	05-Jun-97	A55	BDYZ 004			BFHQ 005			BFCB 005			BFCB 005							
20800	02-Jul-97	A56	14900.00			37000.00													
20800 (6)	02-Jul-97	A56	BGBC 003			BGBY 003													
20800	06-Aug-97	A56	25800.00			68000.00													
20800 (6)	06-Aug-97	A56	BGHJ 003			BGKV 003													
20800	04-Sep-97	A56					70.00												
20800 (6)	04-Sep-97	A56					EYM 004												
20800	04-Sep-97	A56	25900.00			71000.00													
20800 (6)	04-Sep-97	A56	BGPV 004			BGSX 004													
20900	08-Nov-94	F45	34000.00	8.12	343.00	<1000.00	10.00												
20900 (6)	08-Nov-94	F45	DNE 003	DNS 001	DNU 001	DND 003	DNQ 002												
20900	01-Feb-95	F46	38100.00	6.31	608.00	1000.00	<10.00												
20900 (6)	01-Feb-95	F46	DOT 007	DPK 001	DPM 001	DOS 003	DPI 002												
20900	02-May-95	F47						<15.40	<8.90										
20900 (6)	02-May-95	F47						DWQ 009	DWQ 009										
20900	03-May-95	F47	25200.00	7.25	375.00	20000.00	20.00			0.50	<0.60	<0.40							
20900 (6)	03-May-95	F47	DVW 018	DWS 009	DWU 009	VVA 002	DWM 002			DWR 009	DWR 009	DWR 009							
20900	14-Aug-95	F48	16.40	7.18	283.00	90000.00	>3000.00												
20900 (6)	14-Aug-95	F48	ETH 009	ETY 001	EUA 001	ETG 003	ETW 002												
20900	28-Nov-95	A49	26000.00	7.40		<10000.00													
20900 (6)	28-Nov-95	A49	FVZ 009	Field		KGI 007													

APPENDIX F.3

Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
20900	28-Nov-95	A49															8000.00			
20900 (6)	28-Nov-95	A49															EXO 010			
20900	20-Feb-96	A50	<12.50	<5.00	<15.00	<20.00	<5.00			<8.17	<20.00	70.00	<13.00					<50.00	1000.00	2200.00
20900 (6)	20-Feb-96	A50	IRO 012	IRO 012	IRO 012	IRO 012	EXU 009			IMR 011	KIO 009	KIP 009	IRO 012					KGK 009	Field	KIR 009
20900	20-Feb-96	A50															<4000.00			
20900 (6)	20-Feb-96	A50															EXQ 006			
20900	27-Jun-96	A51									<500.00								7500.00	
20900 (6)	27-Jun-96	A51									AXXJ 017								Field	
20900	27-Jun-96	A51															4.90			
20900 (6)	27-Jun-96	A51															EXS 017			
20900	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		86.40	<20.00	0.13	2.10			52.90		<50.00
20900 (6)	28-Jun-96	A51	XVZ 021	XVZ 021	XVZ 021	XVZ 021	XVZ 021	XVZ 021		AXWB 023		AXZR 020	XVZ 021	XZZ 020	XZZ 020			AXYR 017		AXXA 017
20900	08-Aug-96	A52							<0.20											
20900 (6)	08-Aug-96	A52							AYKI 006											
20900	04-Sep-96	A52	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<500.00	300.00	<20.00					84.70	7600.00	888.00
20900 (6)	04-Sep-96	A52	YYT 012	YYT 012	YYT 012	YYT 012	YYT 012			AYZN 008	YZF 008	YXC 008	YYT 012					AYZL 008	Field	ZDR 008
20900	04-Sep-96	A52															<8.00			
20900 (6)	04-Sep-96	A52															EXU 008			
20900	05-Dec-96	A53															<6000.00			
20900 (6)	05-Dec-96	A53															EXX 012			
20900	05-Dec-96	A53	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<500.00	39.20	<20.00					34800.00		684.00
20900 (6)	05-Dec-96	A53	AOE 012	AOE 012	AOE 012	AOE 012	AOE 012			BANU 012	AML 012	ARD 014	AOE 012					BASA 012		BAWG 012
20900	04-Mar-97	A54															<6000.00			
20900 (6)	04-Mar-97	A54															EYJ 010			
20900	04-Mar-97	A54	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<100.00	86.50	<20.00					39800.00		907.00
20900 (6)	04-Mar-97	A54	BTT 014	BTT 014	BTT 014	BTT 014	BTT 014			BBXM 018	BRW 010	BCJC 008	BTT 014					BBXZ 008		BCLR 008
20900	05-Jun-97	A55															<6000.00			
20900 (6)	05-Jun-97	A55															EYL 003			
20900	05-Jun-97	A55	<10.00	<5.00	12.70	<20.00	<40.00	<100.00	<0.10	27.30	<500.00	99.90	<20.00	1.20	3.25			63000.00		(JP) 35.00
20900 (6)	05-Jun-97	A55	FDD 007	FDD 007	FDD 007	FDD 007	FDD 007	FDD 007	BFFC 006	BFDP 003	DYY 003	FKC 003	FDD 007	BFNL 005	BFNL 005			BFGS 003		BFKH 003
20900 (5)	04-Sep-97	A56															20000.00			
20900 (6)	04-Sep-97	A56															EYN 013			
20900 (5)	04-Sep-97	A56	<4.47	<5.00	<10.00	<20.00	<40.00	<30.80	<0.10	<5.00	<500.00	78.50	<20.00					109000.00		<50.00
20900 (6)	04-Sep-97	A56	GQY 016	GQY 016	GQY 016	GQY 016	GQY 016	QY 016	BGSF 011	GQF 012	BGPT 012	GVR 017	GQY 016					BGRS 012		BGRQ 012
21000	08-Nov-94	F45		<0.10	<2.18	8.64	<5.94			<8.35	<12.10	77.30	45.10				4900.00	51.80	12400	90
21000 (6)	08-Nov-94	F45		DNG 008	DNH 006	DNI 005	DNJ 006			DNK 005	DNB 006	DNC 006	DNL 006				DNO 005	DNM 006	DNT 003	DNP 005
21000	01-Feb-95	F46	<1.93	<0.10	<2.18	3.70	<5.94			<8.35	<12.10	42.20	<29.40				<4000.00	50.00	12200	230
21000 (6)	01-Feb-95	F46	DPA 006	DOV 006	DOW 006	DOX 006	DOZ 006			DPC 006	DOQ 017	DOR 006	DPD 006				DPG 005	DPE 007	DPL 003	DPH 005
21000	02-May-95	F47												<4.40	<3.90	<8.20				
21000 (6)	02-May-95	F47												DWP 014	DWP 014	DWQ 014				
21000	03-May-95	F47	<1.93	0.14	<2.18	7.31	<5.94	<2.65	<0.70	<8.35	<12.10	100.00	68.10				5000.00	60.00	10600	60000
21000 (6)	03-May-95	F47	DWD 031	DVY 026	DVZ 019	DWA 017	DWC 017	WB 017	DWE 021	DWF 021	DVT 028	DVU 017	DWG 017				DWJ 016	DWH 017	DWT 014	DWK 016
21000	14-Aug-95	F48	7.43	<0.10	<2.18	3.96	R<5.94			<8.35	<12.10	201.00	42.10				6000.00	76.00	6060	<50000.00
21000 (6)	14-Aug-95	F48	ETO 020	ETJ 083	ETK 006	ETL 040	ETN 006			ETQ 005	ETE 015	ETF 006	ETR 009				ETU 005	ETS 005	ETZ 003	ETV 005

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
20900	28-Nov-95	A49					10.00												
20900 (6)	28-Nov-95	A49					EXN 011												
20900	20-Feb-96	A50	43600.00	7.03		<10000.00													
20900 (6)	20-Feb-96	A50	KIQ 009	Field		KGJ 008													
20900	20-Feb-96	A50					1.00												
20900 (6)	20-Feb-96	A50					EXP 007												
20900	27-Jun-96	A51	23000.00	8.13		20000.00													
20900 (6)	27-Jun-96	A51	AXXI 017	Field		AXWE 017													
20900	27-Jun-96	A51					180.00												
20900 (6)	27-Jun-96	A51					EXR 017												
20900	28-Jun-96	A51											60.00	43.00				11.00	7.30
20900 (6)	28-Jun-96	A51											AXZJ 020	AXZJ 020				AXZJ 020	AXZJ 020
20900	08-Aug-96	A52																	
20900 (6)	08-Aug-96	A52																	
20900	04-Sep-96	A52	31300.00	8.2		33000.00													
20900 (6)	04-Sep-96	A52	AYZP 008	Field		AYYU 008													
20900	04-Sep-96	A52					1000.00												
20900 (6)	04-Sep-96	A52					EXT 008												
20900	05-Dec-96	A53					<10.00												
20900 (6)	05-Dec-96	A53					EXW 012												
20900	05-Dec-96	A53	30200.00			<4000.00													
20900 (6)	05-Dec-96	A53	BANJ 012			BAQI 012													
20900	04-Mar-97	A54					2.00												
20900 (6)	04-Mar-97	A54					EYI 010												
20900	04-Mar-97	A54	59600.00			<4000.00													
20900 (6)	04-Mar-97	A54	BBSD 010			BBVF 010													
20900	05-Jun-97	A55					40.00												
20900 (6)	05-Jun-97	A55					EYK 003												
20900	05-Jun-97	A55	22100.00			34000.00			1.78					41.10	1.61		18.20		
20900 (6)	05-Jun-97	A55	BDYZ 003			BFHQ 004			BFCB 004					BFCB 004	BFCB 004		BFCB 004		
20900 (5)	04-Sep-97	A56					10.00												
20900 (6)	04-Sep-97	A56					EYM 012												
20900 (5)	04-Sep-97	A56	23800.00			57000.00													
20900 (6)	04-Sep-97	A56	BGPV 012			BGSX 012													
21000	08-Nov-94	F45	47000.00	8.12	339.00	11000.00	20.00												
21000 (6)	08-Nov-94	F45	DNE 005	DNS 003	DNU 003	DND 005	DNQ 005												
21000	01-Feb-95	F46	56700.00	6.86	529.00	2000.00	20.00												
21000 (6)	01-Feb-95	F46	DOT 013	DPK 003	DPM 003	DOS 005	DPI 004												
21000	02-May-95	F47						<5.10	<8.20										
21000 (6)	02-May-95	F47						DWQ 014	DWQ 014										
21000	03-May-95	F47	26900.00	8.24	371.00	22000.00	<10.00			0.50	0.40	<0.60							
21000 (6)	03-May-95	F47	DVW 031	DWS 014	DWU 014	DVVA 007	DWM 007			DWR 014	DWR 014	DWR 014							
21000	14-Aug-95	F48	17.20	7.55	291.00	49000.00	640.00												
21000 (6)	14-Aug-95	F48	ETH 015	ETY 003	EUA 003	ETG 005	ETW 004												

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
21000	28-Nov-95	A49	<12.50	<5.00	<15.00	<20.00	<63.10			<8.17	20.00	90.00	<13.00					54.00	15160.00	300.00
21000 (6)	28-Nov-95	A49	IRL 012	IRL 012	IRL 012	IRL 012	IRL 012			IMQ 012	FVX 010	FVY 010	IRL 012					KGH 011	Field	KIG 012
21000 (4)	28-Nov-95	A49									20.00									
21000 (4,6)	28-Nov-95	A49									FVX 011									
21000	28-Nov-95	A49															8000.00			
21000 (6)	28-Nov-95	A49															EXO 011			
21000 (5)	20-Feb-96	A50	<12.50	<5.00	<15.00	<20.00	<5.00			<8.17	<20.00	70.00	<13.00					<50.00	12700.00	2100.00
21000 (6)	20-Feb-96	A50	IRO 013	IRO 013	IRO 013	IRO 013	EXU 010			IMR 012	KIO 010	KIP 010	IRO 013					KGK 010	Field	KIR 010
21000 (5)	20-Feb-96	A50															<4000.00			
21000 (6)	20-Feb-96	A50															EXQ 007			
21000	27-Jun-96	A51									<500.00								6700.00	
21000 (6)	27-Jun-96	A51									AXXJ 016								Field	
21000	27-Jun-96	A51															4.80			
21000 (6)	27-Jun-96	A51															EXS 016			
21000	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		101.00	<20.00	0.33	2.80			52.90		<50.00
21000 (6)	28-Jun-96	A51	XVZ 020	XVZ 020	XVZ 020	XVZ 020	XVZ 020	XVZ 020		AXWB 022		AXZR 019	XVZ 020	XZZ 019	XZZ 019			AXYR 016		AXXA 016
21000	08-Aug-96	A52							<0.20											
21000 (6)	08-Aug-96	A52							AYKI 003											
21000 (5)	04-Sep-96	A52	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<500.00	162.00	<20.00					52.90	6450.00	1220.00
21000 (6)	04-Sep-96	A52	YYT 013	YYT 013	YYT 013	YYT 013	YYT 013			AYZN 009	YZF 009	YXC 009	YYT 013					AYZL 009	Field	ZDR 009
21000 (5)	04-Sep-96	A52															<8.00			
21000 (6)	04-Sep-96	A52															EXU 009			
21000	05-Dec-96	A53															<6000.00			
21000 (6)	05-Dec-96	A53															EXX 004			
21000	05-Dec-96	A53	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<500.00	65.70	<20.00					47200.00		646.00
21000 (6)	05-Dec-96	A53	AOE 010	AOE 010	AOE 010	AOE 010	AOE 010			BANU 004	AML 004	ARD 006	AOE 010					BASA 004		BAWG 004
21000 (5)	04-Mar-97	A54															<6000.00			
21000 (6)	04-Mar-97	A54															EYJ 008			
21000 (5)	04-Mar-97	A54	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<100.00	70.90	<20.00					37700.00		923.00
21000 (6)	04-Mar-97	A54	BTT 012	BTT 012	BTT 012	BTT 012	BTT 012			BBXM 016	BRW 008	BCJC 006	BTT 012					BBXZ 006		BCLR 006
21000	05-Jun-97	A55															<6000.00			
21000 (6)	05-Jun-97	A55															EYL 002			
21000	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	132.00	<20.00	1.60	<5.48			54500.00		(JP) 44.00
21000 (6)	05-Jun-97	A55	FDD 003	FDD 003	FDD 003	FDD 003	FDD 003	FDD 003	BFFC 003	BFDP 002	DYY 002	FKC 002	FDD 003	BFNL 004	BFNL 004			BFGS 002		BFK11 002
21000	04-Sep-97	A56															<6000.00			
21000 (6)	04-Sep-97	A56															EYN 003			
21000	04-Sep-97	A56	<4.47	<5.00	<10.00	(JP) 3.72	<40.00			<5.00	<500.00	96.90	<20.00					105000.00		<50.00
21000 (6)	04-Sep-97	A56	GQY 003	GQY 003	GQY 003	GQY 003	GQY 003			BGQF 002	BGPT 002	GVR 005	GQY 003					BGRS 002		BGRQ 002
21100	08-Nov-94	F45																		
21100 (6)	08-Nov-94	F45																		
21100	09-Nov-94	F45		<0.10	<2.18	30.00	<5.94			<8.35	<12.10	15.50	47.10				<4000.00	24.70	3900	70
21100 (6)	09-Nov-94	F45		DNG 013	DNH 011	DNI 010	DNJ 011			DNK 011	DNB 011	DNC 011	DNL 011				DNO 010	DNM 011	DNT 008	DNP 010
21100	02-May-95	F47	<1.93	<0.10	<2.18	5.31	<5.94	<2.65	<0.70	<8.35	<12.10	5.02	34.10	5.90	11.60	<6.00	<4000.00	30.00	12000	80000
21100 (6)	02-May-95	F47	DWD 022	DVY 017	DVZ 010	DWA 008	DWC 008	WB 008	DWE 010	DWF 009	DVS 015	DVU 008	DWG 008	DWP 005	DWP 005	DWQ 005	DWJ 007	DWH 008	DWT 005	DWK 007

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
21000	28-Nov-95	A49	28000.00	8.50		<10000.00													
21000 (6)	28-Nov-95	A49	FVZ 010	Field		AKL 006													
21000 (4)	28-Nov-95	A49																	
21000 (4,6)	28-Nov-95	A49																	
21000	28-Nov-95	A49					<10.00												
21000 (6)	28-Nov-95	A49					EXN 012												
21000 (5)	20-Feb-96	A50	66900.00	6.87		<10000.00													
21000 (6)	20-Feb-96	A50	KIQ 010	Field		KGJ 009													
21000 (5)	20-Feb-96	A50					16.00												
21000 (6)	20-Feb-96	A50					EXP 008												
21000	27-Jun-96	A51	24900.00	7.77		41000.00													
21000 (6)	27-Jun-96	A51	AXXI 016	Field		AXWE 016													
21000	27-Jun-96	A51					1600.00												
21000 (6)	27-Jun-96	A51					EXR 016												
21000	28-Jun-96	A51											57.00	210.00				7.20	<6.80
21000 (6)	28-Jun-96	A51											AXZJ 019	AXZJ 019				AXZJ 019	AXZJ 019
21000	08-Aug-96	A52																	
21000 (6)	08-Aug-96	A52																	
21000 (5)	04-Sep-96	A52	55700.00	7.8		10000.00													
21000 (6)	04-Sep-96	A52	AYZP 009	Field		AYYU 009													
21000 (5)	04-Sep-96	A52					1100.00												
21000 (6)	04-Sep-96	A52					EXT 009												
21000	05-Dec-96	A53					20.00												
21000 (6)	05-Dec-96	A53					EXW 004												
21000	05-Dec-96	A53	33100.00			<4000.00													
21000 (6)	05-Dec-96	A53	BANJ 004			BAQI 004													
21000 (5)	04-Mar-97	A54					<1.00												
21000 (6)	04-Mar-97	A54					EYI 008												
21000 (5)	04-Mar-97	A54	65400.00			<4000.00													
21000 (6)	04-Mar-97	A54	BBSD 008			BBVF 008													
21000	05-Jun-97	A55					95.00												
21000 (6)	05-Jun-97	A55					EYK 002												
21000	05-Jun-97	A55	27200.00			36000.00			<5.67			80.00		3.48			71.70		
21000 (6)	05-Jun-97	A55	BDYZ 002			BFHQ 003			BFCB 003			BFCB 003		BFCB 003			BFCB 003		
21000	04-Sep-97	A56					80.00												
21000 (6)	04-Sep-97	A56					EYM 002												
21000	04-Sep-97	A56	28800.00			70000.00													
21000 (6)	04-Sep-97	A56	BGPV 002			BGSX 002													
21100	08-Nov-94	F45		7.33															
21100 (6)	08-Nov-94	F45		DNS 008															
21100	09-Nov-94	F45	92000.00		549.00	<1000.00	<10.00												
21100 (6)	09-Nov-94	F45	DNE 012		DNU 008	DND 010	DNR 004												
21100	02-May-95	F47	53800.00	7.74	881.00	<1000.00	<10.00	<6.00	<4.60	1.20	0.30	1.10							
21100 (6)	02-May-95	F47	DVW 010	DWS 005	DWU 005	DVV 007	DWL 006	DWQ 005	DWQ 005	DWR 005	DWR 005	DWR 005							

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
21100	14-Aug-95	F48	<1.93	<0.10	<2.18	1.29	R 9.52			<8.35	<12.10	58.20	49.10				<4000.00	21.00	5360	<50000.00
21100 (6)	14-Aug-95	F48	ETO 024	ETJ 042	ETK 011	ETL 059	ETN 013			ETQ 011	ETE 020	ETF 011	ETR 016				ETU 010	ETS 010	ETZ 008	ETV 010
21100	28-Nov-95	A49	<12.50	<5.00	<15.00	<20.00	<63.10			<8.17	<20.00	<50.00	<13.00					<50.00	5860.00	300.00
21100 (6)	28-Nov-95	A49	IRL 013	IRL 013	IRL 013	IRL 013	IRL 013			IMQ 013	FVX 012	FVY 011	IRL 013					KGH 012	Field	KIG 013
21100	28-Nov-95	A49															4000.00			
21100 (6)	28-Nov-95	A49															EXO 012			
21100	27-Jun-96	A51									<500.00								3800.00	
21100 (6)	27-Jun-96	A51									AXXJ 009								Field	
21100	27-Jun-96	A51															<4.00			
21100 (6)	27-Jun-96	A51															EXS 009			
21100	28-Jun-96	A51	<10.00	5.32	<10.00	<20.00	<40.00	<100.00		<5.00		64.80	<20.00	<0.19	<0.43			44.40		<50.00
21100 (6)	28-Jun-96	A51	XVZ 013	XVZ 013	XVZ 013	XVZ 013	XVZ 013	XVZ 013		AXWB 015		AXZR 012	XVZ 013	XZZ 011	XZZ 011			AXYR 009		AXXA 009
21100	08-Aug-96	A52							<0.20											
21100 (6)	08-Aug-96	A52							AYKI 007											
21100	05-Dec-96	A53																		
21100 (6)	05-Dec-96	A53															<6000.00			
21100	05-Dec-96	A53	<10.00	<5.00	<10.00	<20.00	<40.00			<10.00	<500.00	<10.00	<20.00				EXX 008			
21100 (6)	05-Dec-96	A53	AOE 011	AOE 011	AOE 011	AOE 011	AOE 011			BANU 008	AML 008	ARD 010	AOE 011					20300.00		271.00
21100	05-Jun-97	A55																BASA 008		BAWG 008
21100 (6)	05-Jun-97	A55															<6000.00			
21100	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	158.00	<20.00	3.19	4.47		EYL 014			
21100 (6)	05-Jun-97	A55	FDD 018	FDD 018	FDD 018	FDD 018	FDD 018	FDD 018	BFFC 017	BFDP 014	DYY 014	FKC 014	FDD 018	BFNL 017	BFNL 017			33400.00		(JP) 12.00
21100	04-Sep-97	A56																BFGS 014		BFKH 014
21100 (6)	04-Sep-97	A56															<6000.00			
21100	04-Sep-97	A56	<4.47	<5.00	<10.00	<20.00	(JP) 12.80			<5.00	<500.00	<10.00	<20.00				EYN 010			
21100 (6)	04-Sep-97	A56	GQY 013	GQY 013	GQY 013	GQY 013	GQY 013			BGQF 009	BGPT 009	GVR 014	GQY 013					<10000.00		<50.00
																		BGRS 009		BGRQ 009
21200	01-Feb-95	F46						<2.65												
21200 (6)	01-Feb-95	F46						DOY 006												
21200	06-Feb-95	F46				10.30														
21200 (6)	06-Feb-95	F46				DOX 014														
21200	02-May-95	F47	28.00	<0.10	<2.18	13.70	<5.94	<2.65	<0.70	<8.35	<12.10	67.30	58.10	10.30	17.90	<7.80	<4000.00	54.00	12500	130000
21200 (6)	02-May-95	F47	DWD 023	DVY 018	DVZ 011	DWA 009	DWC 009	WB 009	DWE 011	DWF 011	DVS 016	DVU 009	DWG 009	DWP 006	DWP 006	DWQ 006	DWJ 008	DWH 009	DWT 006	DWK 008
21200	14-Aug-95	F48						<2.65												
21200 (6)	14-Aug-95	F48						ETM 021												
21200	15-Aug-95	F48				17.80														
21200 (6)	15-Aug-95	F48				ETL 069														
21200	28-Nov-95	A49				<20.00		<100.00												
21200 (6)	28-Nov-95	A49				IRL 016		IRL 016											3150.00	
21200	27-Jun-96	A51									<500.00								Field	
21200 (6)	27-Jun-96	A51									AXXJ 012								6500.00	
21200	27-Jun-96	A51																	Field	
21200 (6)	27-Jun-96	A51															<4.00			
21200	28-Jun-96	A51	13.90	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		69.90	<20.00	0.54	1.90		EXS 012			
21200 (6)	28-Jun-96	A51	XVZ 016	XVZ 016	XVZ 016	XVZ 016	XVZ 016	XVZ 016		AXWB 018		AXZR 015	XVZ 016	XZZ 014	XZZ 014			31.60		<50.00
																		AXYR 012		AXXA 012

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
21100	14-Aug-95	F48	26.40	7.48	520.00	7000.00	75.00												
21100 (6)	14-Aug-95	F48	ETH 020	ETY 008	EUA 008	ETG 010	ETW 009												
21100	28-Nov-95	A49	95000.00	7.40		<10000.00													
21100 (6)	28-Nov-95	A49	FVZ 011	Field		AKL 007													
21100	28-Nov-95	A49					30.00												
21100 (6)	28-Nov-95	A49					EXN 013												
21100	27-Jun-96	A51	27800.00	7.48		<4000.00													
21100 (6)	27-Jun-96	A51	AXXI 009	Field		AXWE 009													
21100	27-Jun-96	A51					20.00												
21100 (6)	27-Jun-96	A51					EXR 009												
21100	28-Jun-96	A51																	
21100 (6)	28-Jun-96	A51											260.00	16.00				15.00	5.90
21100	08-Aug-96	A52											AXZJ 012	AXZJ 012				AXZJ 012	AXZJ 012
21100 (6)	08-Aug-96	A52																	
21100	05-Dec-96	A53					30.00												
21100 (6)	05-Dec-96	A53					EXW 008												
21100	05-Dec-96	A53	57600.00			<4000.00													
21100 (6)	05-Dec-96	A53	BANJ 008			BAQI 008													
21100	05-Jun-97	A55					20.00												
21100 (6)	05-Jun-97	A55					EYK 014												
21100	05-Jun-97	A55	39400.00			<4000.00			3.20					15.70			126.00		
21100 (6)	05-Jun-97	A55	BDYZ 014			BFHQ 015			BFCB 016					BFCB 016			BFCB 016		
21100	04-Sep-97	A56					80.00												
21100 (6)	04-Sep-97	A56					EYM 009												
21100	04-Sep-97	A56	52800.00			<4000.00													
21100 (6)	04-Sep-97	A56	BGPV 009			BGSX 009													
21200	01-Feb-95	F46			712.00														
21200 (6)	01-Feb-95	F46			DPM 010														
21200	06-Feb-95	F46		6.18															
21200 (6)	06-Feb-95	F46		DPK 010															
21200	02-May-95	F47	105000.00	7.71	734.00	5000.00	<10.00	<5.50	<7.80	0.60	<0.30	<0.30							
21200 (6)	02-May-95	F47	DVW 012	DWS 006	DWU 006	DVV 008	DWL 007	DWQ 006	DWQ 006	DWR 006	DWR 006	DWR 006							
21200	14-Aug-95	F48																	
21200 (6)	14-Aug-95	F48																	
21200	15-Aug-95	F48																	
21200 (6)	15-Aug-95	F48																	
21200	28-Nov-95	A49		7.40															
21200 (6)	28-Nov-95	A49		Field															
21200	27-Jun-96	A51	23400.00	7.35		<4000.00													
21200 (6)	27-Jun-96	A51	AXXI 012	Field		AXWE 012													
21200	27-Jun-96	A51					40.00												
21200 (6)	27-Jun-96	A51					EXR 012												
21200	28-Jun-96	A51																	
21200 (6)	28-Jun-96	A51											36.00	200.00				8.20	14.00
													AXZJ 015	AXZJ 015				AXZJ 015	AXZJ 015

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
21200 (4)	28-Jun-96	A51												0.71	2.00					
21200 (4,6)	28-Jun-96	A51												AXZZ 015	XZZ 015					
21200	08-Aug-96	A52							<0.20											
21200 (6)	08-Aug-96	A52							AYKI 008											
21200	05-Dec-96	A53				<20.00		<100.00												
21200 (6)	05-Dec-96	A53				BAOE 014		BAOE 014												
21200	07-Mar-97	A54				<20.00		<100.00												
21200 (6)	07-Mar-97	A54				BCKP 008		BCKP 008												
21200	05-Jun-97	A55															23500.00			
21200 (6)	05-Jun-97	A55															EYL 008			
21200	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	4000.00	26.50	0.94	7.12			462000.00		305.00
21200 (6)	05-Jun-97	A55	FDD 012	FDD 012	FDD 012	FDD 012	FDD 012	FDD 012	BFFC 011	BFDP 008	DYY 008	FKC 008	FDD 012	BFNL 010	BFNL 010			BFGS 008		BFKH 008
21200	04-Sep-97	A56				<20.00		<30.80												
21200 (6)	04-Sep-97	A56				BGQY 018		BGQY 018												
21300	02-May-95	F47	19.70	<0.10	<2.18	6.33	6.17	<2.65	<0.70	<8.35	<12.10	34.10	53.10	10.80	15.30	<15.60	<4000.00	36.00	12800	140000
21300 (6)	02-May-95	F47	DWD 024	DVY 019	DVZ 012	DWA 010	DWC 010	WB 010	DWE 012	DWF 012	DVS 017	DVU 010	DWG 010	DWP 007	DWP 007	DWQ 007	DWJ 009	DWH 010	DWT 007	DWK 009
21300	15-Aug-95	F48				7.13		7.24												
21300 (6)	15-Aug-95	F48				ETL 071		ETM 023												
21300	28-Nov-95	A49				<20.00		<100.00											14370.00	
21300 (6)	28-Nov-95	A49				IRL 017		IRL 017											Field	
21300	27-Jun-96	A51									<500.00								400.00	
21300 (6)	27-Jun-96	A51									AXXJ 013								Field	
21300	27-Jun-96	A51															<4.00			
21300 (6)	27-Jun-96	A51															EXS 013			
21300	28-Jun-96	A51	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		155.00	<20.00	0.47	0.80			42.30		<50.00
21300 (6)	28-Jun-96	A51	XVZ 017	XVZ 017	XVZ 017	XVZ 017	XVZ 017	XVZ 017		AXWB 019		AXZR 016	XVZ 017	XZZ 016	XZZ 016			AXYR 013		AXXA 013
21300	08-Aug-96	A52							<0.20											
21300 (6)	08-Aug-96	A52							AYKI 009											
21300	04-Sep-96	A52				<20.00		<100.00											890.00	
21300 (6)	04-Sep-96	A52				AYYT 016		AYYT 016											Field	
21300	05-Dec-96	A53				<20.00		<100.00												
21300 (6)	05-Dec-96	A53				BAOE 016		BAOE 016												
21300	07-Mar-97	A54				<20.00		<100.00												
21300 (6)	07-Mar-97	A54				BCKP 009		BCKP 009												
21300	05-Jun-97	A55															<6000.00			
21300 (6)	05-Jun-97	A55															EYL 009			
21300	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	1430.00	<20.00	<0.26	1.46			50300.00		189.00
21300 (6)	05-Jun-97	A55	FDD 013	FDD 013	FDD 013	FDD 013	FDD 013	FDD 013	BFFC 012	BFDP 009	DYY 009	FKC 009	FDD 013	BFNL 011	BFNL 011			BFGS 009		BFKH 009
21300	04-Sep-97	A56				<20.00		<30.80												
21300 (6)	04-Sep-97	A56				BGQY 019		BGQY 019												
21400	02-May-95	F47	<1.93	<0.10	<2.18	9.64	<5.94	<2.65	<0.70	<8.35	<12.10	98.40	46.10	8.40	10.60	<12.70	<4000.00	31.00	7160	140000
21400 (6)	02-May-95	F47	DWD 025	DVY 020	DVZ 013	DWA 011	DWC 011	WB 011	DWE 015	DWF 013	DVS 018	DVU 011	DWG 011	DWP 008	DWP 008	DWQ 008	DWJ 010	DWH 011	DWT 008	DWK 010
21400	15-Aug-95	F48				10.90		6.63												

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
21200 (4)	28-Jun-96	A51																	
21200 (4,6)	28-Jun-96	A51																	
21200	08-Aug-96	A52																	
21200 (6)	08-Aug-96	A52																	
21200	05-Dec-96	A53																	
21200 (6)	05-Dec-96	A53																	
21200	07-Mar-97	A54																	
21200 (6)	07-Mar-97	A54																	
21200	05-Jun-97	A55					320.00												
21200 (6)	05-Jun-97	A55					EYK 008												
21200	05-Jun-97	A55	134000.00			20000.00			1.79				146.00	6.35			111.00		
21200 (6)	05-Jun-97	A55	BDYZ 008			BFHQ 009			BFCB 010				BFCB 010	BFCB 010			BFCB 010		
21200	04-Sep-97	A56																	
21200 (6)	04-Sep-97	A56																	
21300	02-May-95	F47	420000.00	7.60	1560.00	<1000.00	<10.00	<15.60	<5.00	1.10	<0.50	<0.50							
21300 (6)	02-May-95	F47	DVW 014	DWS 007	DWU 007	DVV 009	DWL 008	DWQ 007	DWQ 007	DWR 007	DWR 007	DWR 007							
21300	15-Aug-95	F48																	
21300 (6)	15-Aug-95	F48																	
21300	28-Nov-95	A49		7.30															
21300 (6)	28-Nov-95	A49		Field															
21300	27-Jun-96	A51	161000.00	6.60		<4000.00													
21300 (6)	27-Jun-96	A51	AXXI 013	Field		AXWE 013													
21300	27-Jun-96	A51					750.00												
21300 (6)	27-Jun-96	A51					EXR 013												
21300	28-Jun-96	A51											51.00	190.00				12.00	15.00
21300 (6)	28-Jun-96	A51											AXZJ 016	AXZJ 016				AXZJ 016	AXZJ 016
21300	08-Aug-96	A52																	
21300 (6)	08-Aug-96	A52																	
21300	04-Sep-96	A52		7.2															
21300 (6)	04-Sep-96	A52		Field															
21300	05-Dec-96	A53																	
21300 (6)	05-Dec-96	A53																	
21300	07-Mar-97	A54																	
21300 (6)	07-Mar-97	A54																	
21300	05-Jun-97	A55					110.00												
21300 (6)	05-Jun-97	A55					EYK 009												
21300	05-Jun-97	A55	400000.00			11000.00			<0.75			36.80				30.20	52.10		
21300 (6)	05-Jun-97	A55	BDYZ 009			BFHQ 010			BFCB 011			BFCB 011				BFCB 011	BFCB 011		
21300	04-Sep-97	A56																	
21300 (6)	04-Sep-97	A56																	
21400	02-May-95	F47	78800.00	7.33	621.00	10000.00	10.00	<12.70	<3.40	1.10	<0.50	<0.50							
21400 (6)	02-May-95	F47	DVW 016	DWS 008	DWU 008	DVV 010	DWL 009	DWQ 008	DWQ 008	DWR 008	DWR 008	DWR 008							
21400	15-Aug-95	F48																	

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
21400 (6)	15-Aug-95	F48				ETL 073		ETM 025												
21400	29-Nov-95	A49				<20.00		<100.00											970.00	
21400 (6)	29-Nov-95	A49				IRL 018		IRL 018											Field	
21400	27-Jun-96	A51									<500.00								100.00	
21400 (6)	27-Jun-96	A51									AXXJ 014								Field	
21400	27-Jun-96	A51															<4.00			
21400 (6)	27-Jun-96	A51															EXS 014			
21400	28-Jun-96	A51	11.90	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		348.00	<20.00	2.80	1.40			52.90		127.00
21400 (6)	28-Jun-96	A51	XVZ 018	XVZ 018	XVZ 018	XVZ 018	XVZ 018	XVZ 018		AXWB 020		AXZR 017	XVZ 018	XZZ 017	XZZ 017			AXYR 014		AXXA 014
21400	08-Aug-96	A52							<0.20											
21400 (6)	08-Aug-96	A52							AYKI 010											
21400	04-Sep-96	A52				<20.00		<100.00											640.00	
21400 (6)	04-Sep-96	A52				AYYT 017		AYYT 017											Field	
21400	05-Dec-96	A53				<20.00		<100.00												
21400 (6)	05-Dec-96	A53				BAOE 015		BAOE 015												
21400	07-Mar-97	A54				28.40		<100.00												
21400 (6)	07-Mar-97	A54				BCKP 010		BCKP 010												
21400	05-Jun-97	A55															<6000.00			
21400 (6)	05-Jun-97	A55															EYL 010			
21400	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	<40.00	<100.00	<0.10	<10.00	<500.00	893.00	<20.00	1.15	5.23			46100.00		(JP) 22.00
21400 (6)	05-Jun-97	A55	FDD 014	FDD 014	FDD 014	FDD 014	FDD 014	FDD 014	BFFC 013	BFDP 010	DYY 010	FKC 010	FDD 014	BFNL 012	BFNL 012			BFGS 010		BFKH 010
21400	04-Sep-97	A56				<20.00		<30.80												
21400 (6)	04-Sep-97	A56				BGQY 020		BGQY 020												
21600	02-May-95	F47												6.50	10.50	9.40				
21600 (6)	02-May-95	F47												DWP 010	DWP 010	DWQ 010				
21600	03-May-95	F47	<1.93	<0.10	<2.18	5.16	<5.94	<2.65	<0.70	<8.35	<12.10	<5.00	39.10				<4000.00	33.00	7380	100000
21600 (6)	03-May-95	F47	DWD 027	DVY 022	DVZ 015	DWA 013	DWC 013	WB 013	DWE 017	DWF 016	DVT 022	DVU 013	DWG 013				DWJ 012	DWH 013	DWT 010	DWK 012
21600	14-Aug-95	F48	<1.93		2.75															
21600 (6)	14-Aug-95	F48	ETO 028		ETK 015															
21600	15-Aug-95	F48				4.85		3.27												
21600 (6)	15-Aug-95	F48				ETL 077		ETM 027												
21600	29-Nov-95	A49	<12.50		<15.00	<20.00		<100.00					38.70						12870.00	
21600 (6)	29-Nov-95	A49	IRL 019		IRL 019	IRL 019		IRL 019					IRL 019						Field	
21600	27-Jun-96	A51									<500.00								5100.00	
21600 (6)	27-Jun-96	A51									AXXJ 015								Field	
21600	27-Jun-96	A51															<4.00			
21600 (6)	27-Jun-96	A51															EXS 015			
21600	28-Jun-96	A51	12.80	<5.00	<10.00	<20.00	<40.00	<100.00		<5.00		116.00	<20.00	0.61	2.10			31.60		<50.00
21600 (6)	28-Jun-96	A51	XVZ 019	XVZ 019	XVZ 019	XVZ 019	XVZ 019	XVZ 019		AXWB 021		AXZR 018	XVZ 019	XZZ 018	XZZ 018			AXYR 015		AXXA 015
21600	08-Aug-96	A52							<0.20											
21600 (6)	08-Aug-96	A52							AYKI 011											
21600	04-Sep-96	A52	<10.00		<10.00	<20.00		<100.00					<20.00						7600.00	
21600 (6)	04-Sep-96	A52	YYT 018		AYYT 018	YYT 018		AYYT 018					AYYT 018						Field	
21600	05-Dec-96	A53	<10.00		<10.00	<20.00		<100.00					<20.00							

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
21400 (6)	15-Aug-95	F48																	
21400	29-Nov-95	A49		7.20															
21400 (6)	29-Nov-95	A49		Field															
21400	27-Jun-96	A51	47700.00	6.63		9000.00													
21400 (6)	27-Jun-96	A51	AXXI 014	Field		AXWE 014													
21400	27-Jun-96	A51					70.00												
21400 (6)	27-Jun-96	A51					EXR 014												
21400	28-Jun-96	A51											20.00	11.00				2.80	<16.00
21400 (6)	28-Jun-96	A51											AXZJ 017	AXZJ 017				AXZJ 017	AXZJ 017
21400	08-Aug-96	A52																	
21400 (6)	08-Aug-96	A52																	
21400	04-Sep-96	A52		8.1															
21400 (6)	04-Sep-96	A52		Field															
21400	05-Dec-96	A53																	
21400 (6)	05-Dec-96	A53																	
21400	07-Mar-97	A54																	
21400 (6)	07-Mar-97	A54																	
21400	05-Jun-97	A55					30.00												
21400 (6)	05-Jun-97	A55					EYK 010												
21400	05-Jun-97	A55	83300.00			19000.00			0.94					47.60	4.31		48.60		
21400 (6)	05-Jun-97	A55	BDYZ 010			BFHQ 011			BFCB 012					BFCB 012	BFCB 012		BFCB 012		
21400	04-Sep-97	A56																	
21400 (6)	04-Sep-97	A56																	
21600	02-May-95	F47						9.40	<7.30										
21600 (6)	02-May-95	F47						DWQ 010	DWQ 010										
21600	03-May-95	F47	112000.00	7.22	576.00	4000.00	30.00			1.00	<0.60	<0.50							
21600 (6)	03-May-95	F47	DVW 020	DWS 010	DWU 010	VVA 003	DWM 003			DWR 010	DWR 010	DWR 010							
21600	14-Aug-95	F48																	
21600 (6)	14-Aug-95	F48																	
21600	15-Aug-95	F48																	
21600 (6)	15-Aug-95	F48																	
21600	29-Nov-95	A49		7.10															
21600 (6)	29-Nov-95	A49		Field															
21600	27-Jun-96	A51	52300.00	6.75		<4000.00													
21600 (6)	27-Jun-96	A51	AXXI 015	Field		AXWE 015													
21600	27-Jun-96	A51					520.00												
21600 (6)	27-Jun-96	A51					EXR 015												
21600	28-Jun-96	A51											19.00	35.00				6.00	10.00
21600 (6)	28-Jun-96	A51											AXZJ 018	AXZJ 018				AXZJ 018	AXZJ 018
21600	08-Aug-96	A52																	
21600 (6)	08-Aug-96	A52																	
21600	04-Sep-96	A52		9.4															
21600 (6)	04-Sep-96	A52		Field															
21600	05-Dec-96	A53																	

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Silver AG (ug/l)	Cadmium CD (ug/l)	Chromium CR (ug/l)	Copper CU (ug/l)	Nickel NI (ug/l)	Lead PB (ug/l)	Mercury HG (ug/l)	Cyanide CYN (ug/l)	Ortho Phosphates PO4ORT (ug/l)	Total Phosphates TPO4 (ug/l)	Zinc ZN (ug/l)	Gross Alpha Radiation ALPHAG (pC/l)	Gross Beta Radiation BETAG (pC/l)	Gross Gamma Radiation GAMAG (pC/l)	Biological Oxygen Demand BOD (ug/l)	Chemical Oxygen Demand COD (mg/l)	Dissolved Oxygen DO (ug/l)	Ammonia NH3 (ug/l)
TCAAP SW Action Criteria (3)					11.00		13.40		0.14	5.20			47.00							
21600 (6)	05-Dec-96	A53			BAOE 017	AOE 017		BAOE 017												
21600 (4)	05-Dec-96	A53			<10.00	<20.00		<100.00												
21600 (4,6)	05-Dec-96	A53			BAOE 018	AOE 018		BAOE 018												
21600	10-Mar-97	A54	<10.00		13.40	<20.00		<100.00					91.80							
21600 (6)	10-Mar-97	A54	CDX 003		BCDX 003	CDX 003		BCDX 003					BCDX 003							
21600 (4)	10-Mar-97	A54	<10.00		14.00	<20.00		<100.00					86.00							
21600 (4,6)	10-Mar-97	A54	CDX 004		BCDX 004	CDX 004		BCDX 004					BCDX 004							
21600	05-Jun-97	A55															<6000.00			
21600 (6)	05-Jun-97	A55															EYL 011			
21600	05-Jun-97	A55	<10.00	<5.00	<10.00	<20.00	41.40	<100.00	<0.10	<10.00	<500.00	988.00	<20.00	0.56	4.58			46100.00		(JP) 15.00
21600 (6)	05-Jun-97	A55	FDD 015	FDD 015	FDD 015	FDD 015	FDD 015	FDD 015	BFFC 014	BFDP 011	DYY 011	FKC 011	FDD 015	BFNL 013	BFNL 013			BFGS 011		BFKH 011
21600	04-Sep-97	A56	<10.00		<10.00	<20.00		<30.80					(JP) 11.60							
21600 (6)	04-Sep-97	A56	GQY 021		BGQY 021	GQY 021		BGQY 021					BGQY 021							

APPENDIX F.3
Surface Water Quality Data (Inorganics)

Location (1)	Date	Qtr (2)	Chloride CL (ug/l)	Lab pH	Conductivity COND (umho)	Total Suspended Solids TSS (ug/l)	Coliform COLI (/100ml)	Cobalt CO60 (pC/l)	Cesium CS137 (pC/l)	Uranium U234 (pC/l)	Uranium U235 (pC/l)	Uranium U238 (pC/l)	Potassium K40 (pC/l)	Lead PB210 (pC/l)	PB212	PB214	RA224	Radium RA226 (pC/l)	Radium RA228 (pC/l)
TCAAP SW Action Criteria (3)																			
21600 (6)	05-Dec-96	A53																	
21600 (4)	05-Dec-96	A53																	
21600 (4,6)	05-Dec-96	A53																	
21600	10-Mar-97	A54																	
21600 (6)	10-Mar-97	A54																	
21600 (4)	10-Mar-97	A54																	
21600 (4,6)	10-Mar-97	A54																	
21600	05-Jun-97	A55					380.00												
21600 (6)	05-Jun-97	A55					EYK 011												
21600	05-Jun-97	A55	70000.00			25000.00			<0.47			16.60							
21600 (6)	05-Jun-97	A55	BDYZ 011			BFHQ 012			BFCB 013			BFCB 013							
21600	04-Sep-97	A56																	
21600 (6)	04-Sep-97	A56																	

APPENDIX G

Appendix G

Municipal/Private Well Groundwater Pumping Data

Notes:

NA = Data Not Available
NC = Well Not Yet Constructed
PT = Water Appropriation Permit Terminated, No Water Being Pumped

Appendix G
Municipal/Private Well Groundwater Pumping Data

Permit No.	Applicant	Permitted Appropriation (MMGal/yr)	Permitted Pumping Rate (GPM)	MN Unique Well No.	Township	Range	Section	Quarter Sections	Pumping Volume 1993 (MMGal)	Pumping Volume 1994 (MMGal)	Pumping Volume 1995 (MMGal)	Pumping Volume 1996 (MMGal)	Pumping Volume 1997 (MMGal)
High Capacity Wells													
690434	American Linen Supply	156.0	850.0	100814	29	23	18	DABC	109.900	NA	NA	68.800	NA
236512	Darling International, Inc.	20.0	100.0	236512	30	23	20	DDB	0.800	NA	1.159	1.100	NA
756231	Honeywell Inc	565.0	2000.0										
				234547	29	23	18	BB	147.700	NA	195.669	176.800	NA
				234546	29	23	18	BB	377.300	NA	420.857	283.800	NA
756255	Mengelkoch Company	18.0											
	Well No. 1		100.0	NA	30	23	21	CACD	0.400	NA	0.000	NA	NA
	Well No. 2		60.0	231878	30	23	21	CACD	1.900	NA	2.503	2.500	NA
886105	Midland Hills	49.0	1000.0										
	Well No. 2			NA	29	23	17	NA	9.300	27.300	0.270	1.200	NA
	Well No. 3			NA	29	23	17	NA	0.000	0.000	0.000	NA	NA
590760	Midland Hills CC	20.0	NA	200149	29	23	17	BDA	413.000	NA	PT	PT	PT
866124	Minneapolis Park/RC	26.0	500.0	200812	29	23	7	DACA	1.200	NA	0.061	NA	NA
936161	Minneapolis Park/RC	41.0	700.0	512761	29	23	7	DAC	18.700	8.300	9.648	18.500	NA
700157	City of New Brighton	1725.0	11425.0										
	Well # 3			206793	30	23	29	BADD	467.400	168.800	96.091	219.379	194.964
	Well # 4			206792	30	23	30	BADD	703.000	181.200	110.130	297.390	245.673
	Well # 5			206796	30	23	30	CBD	401.000	198.300	171.438	91.214	35.685
	Well # 6			206797	30	23	30	CBAA	138.300	248.200	214.601	97.004	21.319
	Well #7			206791	30	23	29	CCDC	0.000	0.000	0.000	0.000	PT
	Well #8			206795	30	23	30	BDA	3.300	22.300	6.866	2.847	0.490
	Well #9			206794	30	23	30	CABA	0.000	0.000	0.000	0.000	0.000
	Well #10			161432	30	23	32	DBC	34.600	19.600	23.810	20.152	7.246
	Well #11			509083	30	23	29	BCA	19.400	5.200	5.572	6.535	6.154
	Well #12			110485	30	23	18	AC	34.600	19.400	26.957	4.637	4.973
	Well #13			520931	30	23	29	AC	NA	334.700	477.422	460.495	525.921
	Well #14			554216	30	23	29	BDB	NC	NC	NC	2.192	563.592
856084	Paper Calmenson & Co.	30.000	500.000	200148	29	23	17	BBB	0.000	NA	0.000	NA	NA

Appendix G
Municipal/Private Well Groundwater Pumping Data

Permit No.	Applicant	Permitted Appropriation (MMGal/yr)	Permitted Pumping Rate (GPM)	MN Unique Well No.	Township	Range	Section	Quarter Sections	Pumping Volume 1993 (MMGal)	Pumping Volume 1994 (MMGal)	Pumping Volume 1995 (MMGal)	Pumping Volume 1996 (MMGal)	Pumping Volume 1997 (MMGal)
600907	City of St. Anthony	NA	NA										
	Well # 3			200804	29	23	6	DA	116.800	99.800	0.000	107.209	115.837
	Well #4			200803	29	23	6	AC	153.800	151.600	143.229	39.501	75.392
	Well #5			200524	30	23	31	CA	70.200	62.900	160.793	195.401	157.039
836056	Twin Cities Army # 1	450.0	2300.0	206754	30	23	16	ABBB	0.200	NA	0.000	NA	NA
	Twin Cities Army #2		1100.0	206756	30	23	16	BADA	1.500	NA	0.000	NA	NA
796041	U of MN	60.0	700.0	149740	29	23	16	BDB	3.100	4.300	6.619	4.300	NA
856178	U of MN	27.0	675.0	200154	29	23	17	DBC	13.400	16.900	14.957	22.800	NA
946217	Fore, Inc.	18.0	120.0	NA	30	23	26	CAC	NC	NC	NC	5.500	NA
976069	Concordia Academy	1.0	100.0	NA	29	23	12	CBB	NC	NC	NC	0.000	NA
Other Wells													
916084	Alliant Techsystems Inc.(PW-1)	21.0	9.0	462112	30	23	20	ADC	4.100	NA	4.592	2.700	NA
916084	Alliant Techsystems Inc.(PW-2)		4.0	462968	30	23	20	ADC	2.010	NA	1.969	1.000	NA
866104	Bell Lumber and Pole Co.(PW-1)	26.3	0.0	439723	30	23	29	DCC	0.000	0.000	0.626	5.300	NA
	Bell Lumber and Pole Co.(PW-3)		1.1	449194	30	23	29	CDD	0.300	0.200	0.177	0.300	NA
	Bell Lumber and Pole Co.(PW-2)		1.2	449193	30	23	29	DCC	0.500	0.500	0.159	0.300	NA
756219	Broadway Properties Partn.	28.0	0.0	200262	29	24	13	DABA	0.000	NA	0.017	NA	PT
866053	Indianhead Truck Line	10.0	NA	200067	29	23	4	CCD	0.000	0.000	0.016	0.000	NA
756223	MacGillis & Gibbs	1.1	48.0	NA	30	23	29	D	3.000	NA	2.036	NA	NA
846113	Minn Metal Finish	6.0	48.0	122253	29	24	13	CDBC	0.300	NA	4.812	13.100	NA
670637	Old Dutch Foods Inc.	88.0	NA	200076	29	23	8	BDC	34.500	40.400	NA	35.900	NA
856218	Reuben Meats	60	NA	236029	29	24	13	DAB	0.000	NA	PT	PT	PT
896278	Pederson, Carla	18	35.0	448759	29	23	9	DCB	NA	PT	PT	PT	PT
976158	Industrial Equities LLP	5.3	10.0	NA	29	23	9	BAA	NC	NC	NC	NC	NA

APPENDIX H

Appendix H

Status of Alternate Water Supply and Well Abandonment Program, December 1997

JAN 08 98 08:58AM MONTGOMERY WATSON

Post-it® Fax Note 7671	Date 1/8/98 # of pages ▶ 4
To Keith Benter	From Jeff LeBlanc
Co./Dept.	Co. MW
Phone #	Phone # 595 5267
Fax # 479.4242	Fax #

December 5, 1997

To: Jay D. Hodges
Project Manager
US Army Corps of Engineers - Omaha District
CEMRO-MD-H
215 North 17th Street
Omaha, NE 68102-4978

Subject: **Status of Alternate Water Supply and Well Abandonment Program Implementation, Twin Cities Army Ammunition Plant**

Dear Mr. Hodges,

Montgomery Watson, under contract to the U.S. Army Corps of Engineers and in cooperation with the Minnesota Pollution Control Agency (MPCA), Minnesota Department of Health (MDH), U.S. Environmental Protection Agency (EPA), and city officials, is implementing the Alternate Water Supply and Well Abandonment Program for fifteen well owners (with a total of eighteen wells) within the Twin Cities Army Ammunition Plant (TCAAP) Superfund site. The status of this program as of November 1997 in summarized herein. This report also provides the status of Army action items defined in the 2 July 1997 meeting on the TCAAP Alternate Water Supply and Well Abandonment Program between Army, EPA, MPCA and MDH. A final report of activities performed in 1997 under this program will be provided at the completion of efforts for the eighteen wells.

Wells Abandoned and Alternate Water Supplies Provided (as necessary):

Unique Well Number	Owner	Location
200525	Plescher Green House	641 Old Hwy 8, New Brighton
234332	Indykiewicz	1920 W. Hwy 96, Arden Hills
234372	Martin	1831 West Co.Rd. I, Shoreview
234351	Yepma	2023 Old Hwy 8, Arden Hills
234386	Olson	4647 Hwy 10, Arden Hills
249006	Shanzer	1740 Pinewood Dr., Shoreview

The six private wells described above were abandoned with the consent of the well owner and in accordance with Minnesota Department of Health well sealing requirements. Well abandonment reports for each of the wells was provided by E.H. Renner and Sons to

the Minnesota Department of Health. These reports will be provided in the final report. These wells can now be omitted from the TCAAP annual well surveys.

Well Owner Refusal/Unresponsiveness or No Further Action:

Unique Well Number	Owner	Location
232070	Johnson Filtration	1950 Old Hwy 8, New Brighton
234301	Dewitt/Bergeron	4651 Hwy 10, Arden Hills
206688	Fouts/Clover Pond	1745 Innsbruck Pkwy, Columbia Hts.
234317	Big 10 Supper Club	4703 Hwy 10, Arden Hills
249004	Gamradt	5567 Fairview, Shoreview
242207 / 243411	Sunset Memorial Cemetery	2250 St. Anthony Blvd., Minn.
231878 / 234335	Menglekoch Co.	119 NE 14th St., New Brighton

Johnson Filtration responded to the Army's offer letter with a negative reply, and was therefore excluded from further program participation. A letter to this effect was sent to Johnson Filtration. The Dewitt well owner also responded with a negative reply to the Army's offer. However, the Dewitt well later transferred ownership to the Bergerons. A second offer letter for participation in the Alternate Water Supply and Well Abandonment Program was sent and received (via certified mail) to the well owner address, but to date no reply has been received. No phone number has been identified for the Bergerons. A final letter acknowledging the no-response action to Army's letters will be sent in December 1997 to the Bergerons, indicating they will be excluded from further program participation.

No response was received from the Clover Pond Association for Well No. 206688. The Clover Pond Association well is used on an irregular basis to maintain water levels in Clover Pond, and has also been used in the Annual Monitoring Program for the TCAAP groundwater plume; therefore it will not be abandoned. An alternate water supply is not required. Several attempts to contact the Fouts (Association contacts) have been unsuccessful (they hang up when caller identifies themselves as part of the Army's program). A final letter acknowledging the no-response action to Army's letters will be sent in December 1997 to the Fouts/Clover Pond Association, indicating they will be excluded from further alternate water supply / well abandonment program participation.

The Big 10 Supper Club has refused Army's offer for abandonment. Subsequent discussions with Big 10 indicate that they are not interested in abandoning their well for several reasons: testing by several agencies (including Army) do not indicate a need (contaminant concentrations are below risk-based levels), and they do not want to pay for water usage. A final letter acknowledging the refusal of participation to the Army's program will be sent in December 1997 to the Big 10, indicating they will be excluded from further program participation.

The owners of the Gamradt well have also refused the Army's offer for abandonment. They continue to use the well for lawn irrigation only. A final letter acknowledging the refusal of participation in the Army's program will be sent in December 1997 to the Gamradts, indicating they will be excluded from further program participation.

Sunset Memorial has not officially responded to the Army's offer letter. Based on previously collected information, water is used solely for irrigation and filling of decorative ponds, and site personnel have been informed and know not to drink the water. Repeated calls/messages to contact personnel at Sunset have gone unanswered. A letter acknowledging Sunset Memorial's non-responsiveness to Army's offer letters will be sent in December 1997 to Sunset Memorial. This letter will indicate that Sunset Memorial will be removed from further involvement in the program.

Menglekoch had accepted the Army's offer for involvement in the Well Abandonment and Alternate Water Supply Program. A tour of the Menglekoch facility was completed on September 5, 1997. The facility is serviced by both well water and municipal water through a connection to a rental house on the Menglekoch property. The facility uses approximately six million gallons of water a year, divided equally between the municipal water supply and the wells. Portions of the facility are provided water from the municipal supply and portions are provided water from the wells. All potable water sources at the facility are connected to the municipal water supply. Drainage from the entire plant is connected to the municipal sewer system. Use of well water at the facility includes: exterior irrigation, dual scrubber system inside the plant for odor control, drum washer with high pressure spray onto a covered conveyor belt, three mixer hoses that use combined well and municipal water to spray down floors and work areas in plant, and water truck filling to wash down off-site locations after rendering material is collected. The use of the well water has been interpreted as an appropriate industrial use, and therefore no further action is required for this location.

Further Actions Needed:

Unique Well Number	Owner	Location
200812 / 512761	Gross Golf Course	MN Parks and Recreation Dept.
234350	Darling International (Gordon Rendering)	19 NW 14th St., New Brighton

The Minneapolis Parks and Recreation Department has indicated that they are not interested in abandoning the Gross Golf Course wells as part of the Army's program. In addition, the wells are to be used for future annual monitoring. The Parks Department has information on well water distribution, use and quality. Army will assist in obtaining this information from the Parks Department and forward it to the regulatory agencies for their determination of exposure potential and risk associated with well use at the golf course.

Darling International has accepted the Army's offer for involvement in the Well Abandonment/Alternate Water Supply Program. A tour of the Darling International (formerly Gordon Rendering) facility was completed on September 16, 1997. The facility consists of an office building, locker room and plant facility. The facility is not connected to a municipal water supply. The facility uses approximately one million gallons of water a year. The plant's wastewater is pretreated in an activated sludge lagoon and clarifier prior to discharging into the municipal sewer system. The locker room and office building discharge directly into the municipal sewer system. The locker room has a utility sink and three shower facilities that are used by plant employees. The office building also has a shower. Water is used in the plant to wash down receiving areas and trucks. No other uses of well water were identified at the facility. Bottled water is purchased as a drinking water supply for employees. A health advisory was issued for this well in September 1984. The advisory suggested obtaining an alternate source of water for food preparation and drinking water; however, the advisory stated there was no reason to discontinue using the water for other purposes such as bathing and dishwashing. While current use of the well water at the facility may be acceptable in accordance with the health advisory, a municipal supply hookup for both potable and facility use will be provided at this location as part of the Army's program.

In summary, the status of the Alternate Water Supply and Well Abandonment Program can be described as follows:

- Six private wells (Plescher, Indykiewicz, Martin, Yepma, Olson and Shanzer) abandoned; no further Army action.
- Three well owners (Johnson Filtration, Big 10 Supper Club, and Gamradt) have refused participation in the program; no further Army action.
- Three well owners (DeWitt/Bergeron, Clover Pond and Sunset Memorial) unresponsive to program offers; no further Army action.
- One well owner (Menglekoch) has an appropriate industrial use; no further Army action.
- One well owner (Darling International) requires a municipal hookup (final Army action).
- One well owner (Gross Golf Course) refused well abandonment; water use information to be collected by Army and forwarded to regulatory agencies.

If you have any questions regarding the status of the efforts involved with this program, please contact the undersigned at (612) 595-5267.

Sincerely,
MONTGOMERY WATSON

Jeffrey J. LeBlanc
Project Manager

APPENDIX I

Appendix I

FY 1998 - FY 2002 Monitoring Plans

I.1 FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Unit Designations

01U	-	Upper Fridley Formation	PC	-	Prairie du Chien
01L	-	Lower Fridley Formation	J	-	Jordan
03U	-	Upper Hillside Formation	SL	-	St. Lawrence
03M	-	Middle Hillside Formation	MS	-	Mt. Simon
03L	-	Lower Hillside Formation	H	-	Hinkley
SP	-	St. Peter	UNK	-	Unknown

Notes:

(A) Indicates that the monitoring is the responsibility of Alliant Techsystems Inc., the tenant.
(B) Indicates that the monitoring is the responsibility of the U.S. Army.
(1) "L (A or B)" denotes a water level measurement by the appropriate party.
(2) "1 (A or B) denotes a water quality sampling by the appropriate party, with the numbers representing analytical parameter categories. The parameters within each category are outlined in Appendix D.
(3) The designations refer to the remedy component and data requirement for each Operable Unit as summarized in:
    OU1: Table III.F-1
    OU2: Site A Shallow Groundwater: Table IV.C-1
    Site I: Table IV.D-2
    Site K: Table IV.E-6
    Deep Groundwater: Table IV.F-10
    OU3: Table V-6
(4) Sample for Category 1 if in production at time of sample collection.
(5) For startup of OU1, water level measurements should be collected as follows: Weekly measurements for one month prior to startup, daily measurements for one week prior to startup, four measurements on the first day of pumping well operation, daily measurements for the first week of operation, and monthly measurements for the first quarter of operation.
(6) For Category 2, analysis is only required for antimony.
(7) Background monitoring location.
(8) For Category 7, analysis is only required for benzene.

Appendix I.1

FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
Operable Unit 1																	
01U	01U807			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U813			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01L	01L813			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01L	01L816			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01L	01L821			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01L	01L822			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01L	01L823			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	03U815			--L(B)	---	--L(B)	---	---	---	---	---	---	---	---	---	---	---
03U	03U821			--L(B)	---	--L(B)	---	---	---	---	---	---	---	---	---	---	---
03U	03U822			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
03U	03U824			---	---	---	---	---	---	---	---	1,L(B)	---	1,L(B)	---	OR	None
03U	03U831			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
03U	409550	PCA 6U3		--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
03U	409596	BS118U3		---	---	---	---	---	---	---	---	---	---	---	---	---	---
03M	03M843			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
03L	03L813			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03L	03L822			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
03L	03L841			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
03L	03L846			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
03L	03L853			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
03L	03L856			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03L	03L858			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03L	409546	PCA2L3		--L(B)	---	--L(B)	---	---	---	---	---	---	---	---	---	---	---
03L	409556	PCA4L3		--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
03L	409557	PCA1L3		--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
03L	409597	BS118L3		--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
PC	04U821			---	---	---	---	---	---	---	---	---	---	---	---	---	---
PC	04U834			--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
PC	04U841			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	04U843			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	3.b
PC	04U844			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	04U846			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	04U847			---	---	---	---	---	---	---	---	---	---	---	---	---	---
PC	04U849			---	---	---	---	---	---	---	---	---	---	---	---	---	---
PC	04U850			--L(B)	--L(B)	--L(B)	--L(B)	---	---	---	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	04U855			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	1,L(B)	1,L(B)	1,L(B)	1.a, OR	3.b
PC	04U871			--L(B)	--L(B)	--L(B)	--L(B)	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	04U872			--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	04U875			--L(B)	--L(B)	--L(B)	--L(B)	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	3.b

Appendix I.1

FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
PC	04U877			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	04U879			--L(B)	--L(B)	--L(B)	--L(B)	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	3.b
PC	04U880			--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	3.b
PC	04U881			--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
PC	04U882			--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
PC	04U883			--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	None
PC	200154	UM Golf Course		---	---	---	---	---	---	1(B)	---	1 (B)	---	1 (B)	---	1.a, OR	---
PC	206688	Cloverpond		---	---	---	---	---	---	1(B)	---	1 (B)	---	1 (B)	---	1.a, OR	---
PC	234547	Hnywell Ridgway		---	---	---	---	---	---	---	---	---	---	---	---	---	---
PC	409547	PCA1U4		--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	409548	PCA2U4		--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	409549	PCA3U4		--L(B)	--L(B)	--L(B)	--L(B)	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
PC	409555	PCA5U4		--L(B)	--L(B)	--L(B)	--L(B)	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	1.a, OR	3.b
PC	512761	Gross Golf Course #2		---	---	---	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	---
PC		MW-1	(5)	--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
PC		MW-3	(5)	--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
PC		MW-5	(5)	--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
PC		MW-7	(5)	--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
PC	554216	New Brighton #14		--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	(Moved to App. I.2)	---	(Moved to App. I.2)	---	---	---
PC		New Brighton #15		--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	(Moved to App. I.2)	---	(Moved to App. I.2)	---	---	---
J	04J834			--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
J	04J835			---	---	---	---	---	---	---	---	---	---	---	---	---	---
J	04J882			--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
J	200524	St. Anthony #5		--L(B)	---	--L(B)	---	---	---	1(B)	---	1(B)	---	1(B)	---	OR	---
J	200803	St. Anthony #4		--L(B)	---	--L(B)	---	---	---	1(B)	---	1(B)	---	1(B)	---	OR	---
J	206792	New Brighton #4		--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	(Moved to App. I.2)	---	(Moved to App. I.2)	---	---	---
J	206797	New Brighton #6	(4)	--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
J		MW-2	(5)	--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
J		MW-4	(5)	--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
J		MW-6	(5)	--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
J		MW-8	(5)	--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
PC/J	200804	St. Anthony #3		--L(B)	---	--L(B)	---	---	---	1(B)	---	1(B)	---	1(B)	---	OR	---
PC/J	200812	Gross Golf #1		---	---	---	---	---	---	---	---	---	---	---	---	---	---
PC/J	206793	New Brighton #3		--L(B)	--L(B)	--L(B)	--L(B)	1(B)	1(B)	1(B)	1(B)	1,L(B)	---	1,L(B)	---	OR	3.b
PC/J	234549	Reiner		---	---	---	---	---	---	1(B)	---	1(B)	---	1(B)	---	1.a, OR	---
PC/J	PJ#318			--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	None
PC/J/SL	233221	Reuben Meats		---	---	---	---	---	---	---	---	1(B)	---	1(B)	---	1a	---
UNK	206796	New Brighton #5	(4)	--L(B)	---	--L(B)	---	---	---	1(B)	---	1,L(B)	---	1,L(B)	---	OR	3.b
UNK	234546	Hnywell Ridgway		---	---	---	---	---	---	1(B)	---	1(B)	---	1(B)	---	OR	---

Appendix I.1

FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
Operable Unit 2																	
Site A Removal Action																	
01U	01U038			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U039		(8)	--L(B)	---	--L(B)	---	---	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U040			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U041			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U063			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U067			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U102		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U103		(8)(6)	--L(B)	---	--L(B)	---	---	---	1(B)	---	1,2,7,L(B)	1,2,7,L(B)	1,2,7,L(B)	1,2,7,L(B)	OR	4.b
01U	01U104			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U105			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U106			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U107			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U108		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U109			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U110			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U115		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U116		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U117		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U118			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U119			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U120			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U125		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U126		(8)	--L(B)	---	--L(B)	---	---	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U127			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U133			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U135			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U136			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U137			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U138		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U139		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U140		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U141			--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U142	Piezometer		---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U143	Piezometer		---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U144	Piezometer		---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U145	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U146	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U147	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U148	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b

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FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
01U	01U149	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U150	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U151	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U152	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U153	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U154	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U155	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U156	Piezometer		--L(B)	---	--L(B)	---	---	---	---	---	L(B)	L(B)	L(B)	L(B)	---	4.b
01U	01U157		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U158		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U350			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U351			LLL (B)	LLL (B)	LLL (B)	LLL (B)	1(B)	---	1,2,3(B)	---	(Moved to App. I.2)	---	---	---	---	---
01U	01U352			LLL (B)	LLL (B)	LLL (B)	LLL (B)	1(B)	---	1,2,3(B)	---	(Moved to App. I.2)	---	---	---	---	---
01U	01U353			LLL (B)	LLL (B)	LLL (B)	LLL (B)	1(B)	---	1,2,3(B)	---	(Moved to App. I.2)	---	---	---	---	---
01U	01U354			LLL (B)	LLL (B)	LLL (B)	LLL (B)	1(B)	---	1,2,3(B)	---	(Moved to App. I.2)	---	---	---	---	---
01U	01U355			LLL (B)	LLL (B)	LLL (B)	LLL (B)	1(B)	---	1,2,3(B)	---	(Moved to App. I.2)	---	---	---	---	---
01U	01U356			LLL (B)	LLL (B)	LLL (B)	LLL (B)	1(B)	---	1,2,3(B)	---	(Moved to App. I.2)	---	---	---	---	---
01U	01U357			LLL (B)	LLL (B)	LLL (B)	LLL (B)	1(B)	---	1,2,3(B)	---	(Moved to App. I.2)	---	---	---	---	---
01U	01U358			LLL (B)	LLL (B)	LLL (B)	LLL (B)	1(B)	---	1,2,3(B)	---	(Moved to App. I.2)	---	---	---	---	---
01U	01U901		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U902		(8) (6)	--L(B)	---	--L(B)	---	1(B)	---	1,2,7(B)	---	1,2,7,L(B)	1,2,7,L(B)	1,2,7,L(B)	1,2,7,L(B)	OR	4.b
01U	01U903		(8)	--L(B)	---	--L(B)	---	1(B)	---	1(B)	---	1,7,L(B)	1,7,L(B)	1,7,L(B)	1,7,L(B)	OR	4.b
01U	01U904		(8) (6)	--L(B)	---	--L(B)	---	1(B)	---	1,2,7(B)	---	1,2,7,L(B)	1,2,7,L(B)	1,2,7,L(B)	1,2,7,L(B)	OR	4.b
Site I Remedial Action																	
01U	01U004			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U054			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U064			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	1a, OR	1a, OR
01U	01U132			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U631			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U632			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U634			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U635			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U636			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	1a, OR	1a, OR
01U	01U638			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U639			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	1a, OR	1a, OR
01U	01U640			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	1a, OR	1a, OR
01U	01U642			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U652			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U666			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U667			---	---	---	---	---	---	---	---	---	---	---	---	---	---

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FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
01U	01U668			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U675			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	482086	I01MW		--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	Ia, OR	Ia, OR
01U	482087	I05MW		--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	Ia, OR	Ia, OR
01U	482088	I02MW		--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	Ia, OR	Ia, OR
01U	482089	I04MW		--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	Ia, OR
01U	482090	I03MW		--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	Ia, OR
Site K Remedial Action																	
01U	01U047			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U048			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U052			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U065			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U128			--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U601			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U602			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U603			--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U604			--L(A)	---	--L(A)	---	I(A)	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U605			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U607			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U608			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U609			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U611			--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U612			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U613			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U615			--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U616			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U617			--L(A)	---	--L(A)	---	I(A)	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U618			--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U619			--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U620			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U621			--L(A)	---	--L(A)	---	I(A)	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	01U622			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U623			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U624			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U625			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U626			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U627			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	01U628			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	482083	K04-MW		--L(A)	---	--L(A)	---	---	---	I(A)	---	I,L(A)	I,L(A)	I,L(A)	I,L(A)	OR	3.a
01U	482084	K02-MW		--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a
01U	482085	K01-MW		--L(A)	---	--L(A)	---	---	---	---	---	L(A)	L(A)	L(A)	L(A)	---	3.a

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FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
TCAAP Groundwater Recovery System																	
03F	03F302			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03F	03F303			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03F	03F304			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03F	03F305			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03F	03F306			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03F	03F307			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03F	03F308			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03F	03F312			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03U	03U001			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U002			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U003			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U004			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U005			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U006			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U007		(7)	--L(A)	---	--L(A)	---	---	---	---	---	1,L(A)	---	1,L(A)	---	Background	1.a
03U	03U008			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U009		(7)	--L(A)	---	--L(A)	---	---	---	---	---	1,L(A)	---	1,L(A)	---	Background	1.a
03U	03U010			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U011			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U012			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U013			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U014			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U015			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U016			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U017			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U018			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U019			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U020			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U021			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U022			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U023			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U024			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U025			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U026			---	---	---	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U027			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a
03U	03U028			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U029			--L(A)	---	--L(A)	---	---	---	---	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U030			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1.a
03U	03U031			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1.a

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FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
03U	03U032			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U075			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U076			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U077			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U078			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U079			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U082			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U083			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U084			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U087			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U088			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U089			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U090			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U092			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U093			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
03U	03U094			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
03U	03U096			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U097			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	03U099			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
03U	03U111			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U112			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U113			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U114			---	---	---	---	---	---	---	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U121			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	03U124			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	03U129			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	03U301			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03U	03U314			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03U	03U315			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03U	03U316			--L(A)	---	--L(A)	---	---	---	---	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03U	03U317			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	(Moved to App. I.2)	---	---
03U	03U521			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	03U647			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U648			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U658			--L(A)	---	--L(A)	---	---	---	1(A)	---	L(A)	---	L(A)	---	---	1,a
03U	03U659			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	---	1,a
03U	03U671			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U672			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U674			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U675			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	03U676			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	03U701			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a

Appendix I.1

FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
03U	03U702			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U703			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U704			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U705			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U706			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U707			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U708			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
03U	03U709			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U710			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U711			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U715			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U716			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03U	03U801			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
03U	03U803			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U804			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U805			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U806			---	---	---	---	---	---	---	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
03U	03U811			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	519288	E101-MW		---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	519289	E102-MW		---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	519290	E103-MW		---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	519291	1291501-MW		---	---	---	---	---	---	---	---	---	---	---	---	---	---
03U	OW543U3			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M001			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M002			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M003			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M004			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M005			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M007			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M010			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M012			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M013			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M017			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M020			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03M	03M713			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03M	03M802			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03M	03M806			--L(A)	---	--L(A)	---	---	---	1(A)	---	L(A)	---	L(A)	---	---	1,a
03L	03L001			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L002			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L003			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a

Appendix I.1

FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
03L	03L004			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L005			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L007		(7)	--L(A)	---	--L(A)	---	---	---	---	---	1,L(A)	---	1,L(A)	---	Background	1,a
03L	03L010			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L012			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L013			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L014			--L(A)	---	--L(A)	---	---	---	---	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L017			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L018			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L020			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L021			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L027			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L028			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L029			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L077			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L078			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L079			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L080			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L081			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L084			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L086			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03L	03L091			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03L	03L113			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L137			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03L	03L138			---	---	---	---	---	---	---	---	---	---	---	---	---	---
03L	03L802			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L806			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L809			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L811			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L833			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U001			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U002			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U003			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U007		(7)	--L(A)	---	--L(A)	---	---	---	---	---	1,L(A)	---	1,L(A)	---	Background	1,a
PC	04U012			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
PC	04U020			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U027			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U077			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U510		(7)	--L(A)	---	--L(A)	---	---	---	---	---	1,L(A)	---	1,L(A)	---	Background	1,a
PC	04U701			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U702			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a

Appendix I.1

FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
PC	04U708			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U709			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U711			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U713			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U714			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U802			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U806			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
PC	04U833			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
J	04J077			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
J	04J702			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
J	04J708			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
J	04J713			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
J	04J714			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC/J	PJ#003			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC/J	PJ#027			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
PC/J	PJ#074			---	---	---	---	---	---	---	---	---	---	---	---	---	1,a
PC/J	PJ#309			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	---	(Moved to App. I.2)	---	---	---
PC/J	PJ#310			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	---	(Moved to App. I.2)	---	---	---
PC/J	PJ#311			--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	(Moved to App. I.2)	---	(Moved to App. I.2)	---	---	---
PC/J	PJ#313			--L(A)	---	--L(A)	---	---	---	---	---	(Moved to App. I.2)	---	(Moved to App. I.2)	---	---	---
PC/J	PJ#501	TCAAP #1		---	---	---	---	---	---	---	---	---	---	---	---	---	---
PC/J	PJ#502	TCAAP #2		---	---	---	---	---	---	---	---	---	---	---	---	---	---
PC/J	PJ#503			---	---	---	---	---	---	---	---	---	---	---	---	---	---
PC/J	PJ#802			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
PC/J	PJ#806			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
SG	Staff Gauges			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	---	---	---	---
Unit 1 Wells																	
01U	01U003			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U011			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U012			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U022			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U033			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U034			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U035			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U036			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U037			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U043			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U044			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U045			---	---	---	---	---	---	---	---	---	---	---	---	---	---

Appendix 1.1

FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
01U	01U046			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U050			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U051			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U053			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U054			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U060			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U062			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U072			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U085			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U098			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U100			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U101			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U122			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U130			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U131			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U524			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U525			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U526			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U527			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U803			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U805			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01U	01U806			---	---	---	---	---	---	---	---	---	---	---	---	---	---
01L	01L811			---	---	---	---	---	---	---	---	---	---	---	---	---	---

Appendix I.1

FY 1998 - FY 2002 Monitoring Plan for Groundwater Monitoring Wells

Well Information				Groundwater Level Monitoring Plan			(1)	Groundwater Quality Monitoring Plan			(2)	Combined Water Level/Water Quality Plan			(1,2)	Purpose For Monitoring (3)	
				Q57	Q58	Q59	Q60	Q57	Q58	Q59	Q60						
Unit	Well I.D.	Common Name	Notes	Dec 97	Mar 98	Jun 98	Sep 98	Dec 97	Mar 98	Jun 98	Sep 98	Jun 99	Jun 00	Jun 01	Jun 02	Water Quality	Water Level
Operable Unit 3																	
03U	03U673			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03U	03U832			--L(B)	---	--L(B)	---	---	---	1(B)	---	---	---	---	---	---	---
03M	03M848			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L673			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L832			--L(B)	---	--L(B)	---	---	---	1(B)	---	L(B)	---	L(B)	---	---	1,a
03L	03L848			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L854			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	03L859			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L860			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
03L	03L861			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
03L	476837	MW15H		--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U673			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U832			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U845			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U848			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U851			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U852			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U854			--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	---	1,a
PC	04U859			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U860			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U861			--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U863	323U4		--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U864	324U4		--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
PC	04U865	325U4		--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC	04U866	326U4		--L(A)	---	--L(A)	---	---	---	---	---	L(A)	---	L(A)	---	OR	1,a
PC	500691	414U4		--L(A)	---	--L(A)	---	---	---	1(A)	---	---	---	---	---	---	---
J	04J864	324 J		--L(A)	---	--L(A)	---	1(A)	---	1(A)	---	1,L(A)	1,L(A)	1,L(A)	1,L(A)	OR	1,a
J	04J866	326 J		--L(A)	---	--L(A)	---	---	---	1(A)	---	1,L(A)	---	1,L(A)	---	OR	1,a
PC/J	520931	NBM #13		--L(A)	--L(A)	--L(A)	--L(A)	1(A)	1(A)	1(A)	1(A)	(Moved to App. I.2)	---	(Moved to App. I.2)	---	---	---

I.2 FY 1998 - FY 2002 Monitoring Plan for Remedial Treatment Systems

Appendix I.2
FY 1998 - FY 2002 Monitoring Plan for Remedial Treatment Systems

OU1: DEEP GROUNDWATER

Location	Sampling Frequency	Parameters
• Extraction Wells NBM#4, #14, and #15	- Monthly	- Pumping Volumes
	- Monthly	- Cat. 1
• PGAC Effluent	- Monthly	- Cat. 1

OU2: SITES D & G SOIL VAPOR EXTRACTION (SVE) SYSTEMS

Location	Sampling Frequency	Parameters
• Site D	- Monthly	- Flowrate, TRCLE, 111TCE
• Site G	- Monthly	- Flowrate, cis-12DCE, TRCLE, 111TCE

OU2: SITE A SHALLOW GROUNDWATER

Location	Sampling Frequency	Parameters
• Extraction Wells 01U351-01U358	- Monthly	- Pumping Volumes
	- Monthly	- Water Levels
	- Annual	- Cat. 1, Benzene
• Extraction/Discharge System Effluent (1)	- Monthly	- 12DCE, TRCLE, TCLEE, Hg
	- Annually (2)	- pH, COD, and TSS

OU2: SITE K REMEDIAL ACTION

Location	Sampling Frequency	Parameters
• Treatment System Effluent (Outfall 391 (010))	- See Appendix I.3	- See Appendix I.3
• Extracted Groundwater	- Monthly	- Volume

OU2: TCAAP GROUNDWATER RECOVERY SYSTEM (TGRS)

Location	Sampling Frequency	Parameters
• Extraction Wells	- Semi-Annually	- Water Levels and Cat. 1
• Treatment System Influent	- Monthly	- Cat. 1
	- Monthly	- Volume
• Treatment System Effluent	- Monthly	- Cat. 1

OPERABLE UNIT 3 PLUME GROUNDWATER RECOVERY SYSTEM (PGRS)

Location	Sampling Frequency	Parameters
• Extraction Well (NBM#13)	- Quarterly	- Water Levels and Cat. 1
	- Monthly	- Pumping Volume
• Treatment System Influent	- Monthly	- Cat. 1
• Treatment System Effluent	- Monthly	- Cat. 1

NOTE: The parameter list for Category 1 is presented in Appendix D.

(1) USEPA and not USAEC analytical protocol required by Metropolitan Council Environmental Services on waters discharged to the sanitary sewer.

(2) Sampling TSS/COD annually if the following conditions are met:
- After an Industrial Discharge permit issuance, four consecutive routine self-monitoring reports must exhibit a TSS of 125 mg/l or less and a COD of 250 mg/l or less (50% of the Strength Charge limits).
- The Permittee must have no history of Strength Charge from this system.
- The Permittee must formally apply for this reduced reporting requirement through a letter illustrating the above points.

I.3 FY 1999 - FY 2002 Monitoring Plan for Surface Water

Notes:

M = Analysis required once a month.

Q = Analysis required once a quarter.

(1) = Sites refer to monitoring locations illustrated on Figure VI.A-1.

Appendix I.3

FY 1999 - FY 2002 Monitoring Plan for Surface Water

Analysis	Units	Outfall 010 Site K Effluent	20700 Rice Crk In	20800 Rice Crk Out
Flow Rate	M gal/day	Continuous	Q	Q
Total Flow	M gal	M	- -	- -
pH		Q	Q	Q
Cyanide	ug/l	Q	Q	Q
Copper	ug/l	Q	Q	Q
Lead	ug/l	Q	Q	Q
Mercury	ug/l	Q	Q	Q
Phosphorus (Total)	mg/l	Q	Q	Q
Silver	ug/l	Q	Q	Q
Zinc	ug/l	Q	Q	Q
Trichloroethene	ug/l	Q	Q	Q
1,1-Dichloroethene	ug/l	Q	Q	Q
1,1-Dichloroethane	ug/l	Q	Q	Q
cis-1,2-Dichloroethene	ug/l	Q	Q	Q
Trans-1,2-Dichloroethene	ug/l	Q	Q	Q
Vinyl Chloride	ug/l	Q	Q	Q
1,2-Dichloroethane	ug/l	Q	Q	Q

APPENDIX J

Appendix J

Historical Groundwater Elevations (FT. AMSL)
TGRS, TCAAP

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	4/2/87	9/8/87	11/17/87	11/24/87	11/30/87	12/14/87	1/11/88	5/2/88	5/20/88
On TCAAP										
03U001	891.2	852.02		849.7	849.31	849.7	849.42	849.72	849.46	848.82
03M001	890.76	852.63	849.4	849.77	849.36	849.76	849.47	849.88	849.52	848.9
03L001	891.37	852.69	849.42	849.7	849.32	849.71	849.41	849.67	849.52	848.87
04U001	891.28	852.04		849.58	849.21	849.58	849.28	849.55	849.38	848.73
03U002	919.89	855.62	852.55	851.34	850.94	851	850.76	851.2	851.53	850.84
03M002	922.4	855.29	852.5	850.67	850.35		850.35	850.66	850.94	850.43
03L002	922.21	855.24	852.44	850.6	850.26	850.68	850.29	850.61	850.9	850.34
04U002	923.18	855.02	852.33	850.55	850.22	850.57	850.23	850.58	850.82	850.29
03U003	945			852.82	852.47	852.56	852.42	852.26	853.42	852.77
03M003	945.55	856.93	854.24	852.75	849.5		852.4	852.35	853.31	852.68
03L003	946.83	857.01	854.24	852.78	852.65	852.63	852.48	852.62	853.2	852.68
04U003	946.07	853.95	850.93	849.92	849.75	849.84	849.65	850.02	850.08	849.62
PJ#003	946.47						849.2		849.6	849.05
03U004	953	860.67	857.42	857.02	856.77	856.94	856.72	857.05	857.32	856.9
03M004	952.55	859	856.12	855.67	855.39	855.56	855.35	855.74	855.91	855.5
03L004	952.02	857.98	855.09	854.63	854.37	854.54	854.32	854.69	854.89	854.46
03U005	973.07	860.51				857.22	857.04		857.39	857
03M005	974.52								857.46	857.05
03L005	974.08	860.44				857.31	857.13		857.48	857.08
03U006	969.09	862.36	858.91		858.12	858.64	858.29	858.94	858.84	858.5
03U007	902.63	863.23	859.27		859.4	859.88	859.62	860.13	859.68	859.33
03M007	903.77				859.33		859.57	860.06	859.61	859.27
03L007	904.41				859		859.25	859.7	859.2	858.92
04U007	905.5	862.38			858.7	859.24	858.9	859.29	858.77	858.6
03U008	917.36	867.3	862.85		863.66	864.14	864.04	864.61	863.57	862.93
03U009	915.25	868.42			865.59	865.97	865.9	866.36	864.9	864.43
03U010	891	868.57	869.24		865.55	865.87	865.85	866.27	864.95	864.48
03M010	891.46				865.51		865.81	866.23	864.91	864.46
03L010	891.76				865.6		865.86	866.27	864.91	864.45
03U011	902.99	865.74	861.67		862.89	863.14	863.3	863.56	862.78	862.35
03U012	882.83	862.24	858.28	859.58	859.54	859.89	859.8	860.12	859.28	858.8
03M012	882.73			859.67	859.53		859.78	860.15	859.26	858.78
03L012	882.63			859.61	859.48		859.75	860	859.21	858.73
04U012	882.78	862.12		859.56	859.42	859.77	859.67	860	859.15	858.67
03U013	893.02	855.52	852.08	852.72	852.41	852.77	852.59	852.86	852.42	851.89
03M013	892.4		852	852.65	852.33		852.52	852.78	852.34	851.81
03L013	892.6		851.88	852.48	852.15		852.33	851.83	852.15	851.65
03U014	990.27	860.25	856.99	856.67	856.55	856.62	856.77	856.83	857.01	855.46
03L014	991.57		856.93	856.86	856.72		857	857.03	857.12	857.96
03U015	937.68	859.96	856.58	856.87	856.78	856.91	857.02	857.18	857.12	856.69
03U016	950.05	862.13			858.95	859.02	859.2	859.35	859.19	858.9
03U017	941.31	857.76	854.64	854.22	853.95		854.27	854.27	854.44	853.95

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	4/2/87	9/8/87	11/17/87	11/24/87	11/30/87	12/14/87	1/11/88	5/2/88	5/20/88
03M017	941.93	857.61	854.64	854.22	853.93			854.24	854.41	853.92
03L017	942.07	857.62	854.63	854.2	853.83		854.24	866.42	854.42	853.91
03U018	991.62	859.96	856.66		856.48	856.54	856.67	856.77	856.9	856.53
03L018	991.49	859.68	856.54		856.36	856.42	856.52	856.67	856.77	856.38
03U019	946.54	860.88			857.58	857.68	857.69	857.94	857.94	857.64
03U020	955.7	858.27	854.79	854.57	854.44	854.44	854.34	854.64	854.95	854.42
03M020	957.03	858.1	855.07	854.56	854.43	854.45	854.33	854.56	854.88	854.38
03L020	956.73	858.01	854.96	854.47	854.35	854.34	854.23	854.48	854.8	854.31
04U020	957.86	857.72	854.49	854.13	854	854	853.94	853.56	854.33	853.82
03U021	947.3	856.82				852.96	852.55		853.18	
03L021	946.74				852.43		852.27	852.49	852.79	852.23
03U022	901.88	862.98	858.98		860.19	860.43	860.54	860.76	860.24	859.88
03U023	901.51	862.88	858.81		860.04	860.35	860.35	860.62	859.91	859.49
03U024	896.99	861.71	857.8		858.94	859.17	859.25	859.49	859.02	858.67
03U025	889.07	860.01		857.31	857.16	858.43	857.43	857.62	857.22	856.84
03U027	968.8	858.58	855.41	854.83	854.68	854.77	854.69	855	855.2	854.7
03L027	969.42		855.31	854.74	854.59	854.68	854.59	854.8	855.1	854.6
04U027	969.49	856.96	854.13	853.52	853.39	853.48	853.39	830.51	853.73	853.24
PJ#027	970.05		854.07	853.47	853.3	853.35	853.3	853.16	853.66	853.15
03U028	959.76	858.02	855.08	854.26		854.18	854.06	854.29	854.66	854.18
03L028	958.93	857.98	855.03	854.18		854.11	854.03	854.29	854.58	854.09
03U029	957.27	857.6	854.07	853.73		853.58	852.5	852.7	854.22	853.69
03L029	956.95	857.58				853.34	853.35	853.67	853.82	853.35
03U030	961.42	859.08		855.44		855.4	855.34	855.52	855.78	855.38
03U031	900.94	857.83	854.93	854.96	854.77	854.92	854.88	855.04	854.66	854.64
03U032	1006.57	860.93	857.5		857.79	857.85	858	858.21	858.09	857.77
03U075	887.03	854.77	851.49	852.01			852.01	852.08	851.72	851.2
03U076	891.41	853.46	850.18	850.68			850.64	850.77	850.37	849.79
03U077	914.94	853.86	850.94	849.86	849.58	849.81	849.54	849.76	849.99	849.39
03L077	914.88	853.77	850.97	848.8	848.6	849.78	848.52	848.7	849	848.39
04U077	914.57	854.15	851.21	849.21	848.93	849.09	846.77	849.12	849.23	848.63
04J077	914.6									
03U078	929.85	856.69	853.71	850.15	849.63	849.77	849.74	850.3	851.21	850.22
03L078	930.18	855.78	852.85	850.47	850.18	850.33	850.12	850.61	850.8	850.26
03U079	925.99	856.67	853.72	849.71	849.79	849.71	849.49	849.99	850.51	849.79
03L079	926.29	856.34	853.39	850.53	851.22	850.49	850.29	850.64	850.95	850.39
03L080	963.45		856.03			855.49	854.65	855.65	855.9	855.44
03L081	948.96						857.31	857.62	857.59	857.25
03U082	901	864.95	860.95		862.13	862.39	862.52	862.75	862.07	861.7
03U083	893.9	860.04			857.08	857.29	857.35	857.45	857.19	856.9
03U084	900.98	853.88	850.7	850.23	849.9	850.2	849.94	850.01	850.3	849.74
03L084	900.58								850.56	849.98
03U087	1006.79	860.83	857.35		857.83	857.93	858.11	858.29	858.14	857.79

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	4/2/87	9/8/87	11/17/87	11/24/87	11/30/87	12/14/87	1/11/88	5/2/88	5/20/88
03U088	986.36						858.47	858.61	858.44	858.11
03U089	975.3	860.93			858.13	858.24	858.44	859.13	858.4	858.08
03U090	984.92						857.38	857.56	857.57	857.24
03U092	963.3						856.75		856.98	856.7
03U093	996.01	859.66			856.5	856.56	856.65	856.82	856.87	856.5
03U094	999.64		857.13				857	857.06	857.22	856.89
03U096	997.02	859.77			856.44	856.48	856.6	856.72	856.08	856.39
03U111	927.69	864.11			861.53	861.71	862.03	862.19	861.71	861.5
03U112	980.8	860.95	857.61		857.55	857.63	857.75	857.89	857.93	857.63
03U113	976.83	860.97					858.09		858.22	857.93
03L113	977.15								858.11	857.8
03U301 (SC1)	957.41								854.17	889.76
03F302 (B1)	929.86	867.7	853.59		850.52	844.7	844.38	844.53	844.73	844.2
03F303 (B2)	925.04	859.8	853.46		829.72	829.74	830.74		831.18	829.58
03F304 (B3)	920.09	859.06	852.32		848.45	849.76	848.56	848.78	849.01	848.44
03F305 (B4)	915.75	850.14	852.06		844.5	844.82	844.75	844.88	844.75	915.75
03F306 (B5)	919.13								841.87	841.08
03F307 (B6)	913.46	839.95	848.55		821.56	821.91	821.11	821.29	822.23	821.04
03F308 (B7)	900.79									
PJ#309 (B8)	914.35									
PJ#310 (B9)	915.8									
PJ#311 (B10)	905.97									
03F312 (B11)	944.24									
PJ#313 (B12)	895.63									
03U314 (SC2)	978.02									
03U315 (SC3)	965.27									
03U316 (SC4)	957.13									
03U317 (SC5)	952.62									
04U510	911.19								864.18	863.71
OW543U3	958.99								854.78	854.31
03U647	962.25		855.63				854.9		855.4	854.99
03U648	963.14		855.84				854.29	855.29	855.6	855.2
03U658	966.24		856.32				855.77	855.96	856.13	855.79
03U659	958.62		855				853.85	854.02	854.64	854.16
03U671	933.13	856.69	853.65		851.48	851.56	851.55	851.82	852.6	851.72
03U674	957.21						852.63		854.16	853.46
03U701	911.1	853.52	850.2	849.06	849.18	849.42	849.18	849.59	849.57	848.96
04U701	911.24	853.59	850.49	848.82	848.95	849.17	848.92	849.33	849.32	848.7
03U702	910.53	852.93	849.71	848.68	848.83	849.12	848.83	849.28	849.19	848.55
04U702	910.44	853.74	850.52	848.99	849.15	849.38	849.14	849.63	849.49	848.83
04J702	910.51									
03U703	921.25	856.63	853.69	848.96	849.2	849.31	849.48	849.75	850.68	849.59
03U704	978.47	861.56	857.79		859.09	859.19	859.45	859.65	859.33	859.02

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*4/2/87*	*9/8/87*	*11/17/87*	*11/24/87*	*11/30/87*	*12/14/87*	*1/11/88*	*5/2/88*	*5/20/88*
03U705	1049.55	861.71	857.95		859.32	859.43	859.65	859.92	859.6	859.27
03U706	920.63	861.84	858.11		859.23	859.4	859.57	859.78	859.37	859.08
03U707	918.28	862.3	858.42		859.63	859.836	860	860.19	859.78	859.41
03U708	921.97	856.26	853.27	851.47	851.01	851.08	850.84	851.32	852.05	851.18
04U708	921.66	854.87	852.03	850.11	849.8	849.95	849.85	850.16	850.34	849.85
04J708	922.04									
03U709	912.63	855.04	852.01	850.21	850.2	850.28	850.21	850.47	850.76	850.08
04U709	912.52	854.74	851.93	849.42	849.47	850.13	849.62	849.9	850.02	849.42
03U710	946.76	856.79		851.26	851.41	851.51	851.31	851.74	852.44	851.69
03U711	908.81		851.74		849.81	849.76	849.51	850.07	850.14	849.6
04U711	908.73		850.68	849.01	849	849.01	848.78	849.75	849.2	848.64
03M713	898.41									
04U713	897.73									
04J713	898.38									
04U714	893.89									
04J714	894.19									
03U715	963.59									
03U716	952.1									
E101MW	970.12									
E102MW	981.54									
E103MW	971.61									
Staff Gauges										
S.G. #1	860.42			862.72			862.96		858.33	858.2
S.G. #2	862.84			DRY			863.08		DRY	862.74
S.G. #3	865.29			DRY			DRY		DRY	
S.G. #1a	871.73									
S.G. #2a	872.02									
S.G. #3a	871.71									
Off TCAAP										
409550(PCA6U3)	914.4	850.43		846.97	846.84	846.93	846.97	847.36	846.81	846.26
03U672 (PD2U3)	923.72	857.4	854.74	853.62		853.47	853.62	853.14	854.05	853.55
03U673 (PD3U3)	897.84	850.51	847.79	847.19	846.62	846.99	847.19	846.29	846.89	846.54
03L673 (PD3L3)	898.44	848.9	845.84	845.37	845.04	845.29	844.83	844.99	845.37	844.93
04U673 (PD3U4)	898.34	848.96	845.86	844.41	845.09	845.34	844.88	845.06	845.4	844.95
03U801 (T1U3)	914.82	855.71	852.85	850.09	850.47	850.1	849.88	850.72	850.67	850.04
03M802 (T2M3)	907.38	855.93	853.08	851.34	851.64	851.39	851.8	850.72	851.34	850.67
03L802 (T2L3)	907.93	856.52	853.77	851.29	851.75	851.29	850.45	851.63	851.05	850.5
04U802 (T2U4)	905.95	854.04	851.02	849.63	849.61	849.6	849.3	849.75	849.9	849.38
PJ#802 (T2PJ)	905.07	853.47	850.57	849.58	849.4	849.37	849.1	849.49	849.67	849.16
03U803 (T3U3)	900.89	853.41	851.05	849.68	849.55	849.45	848.82	848.89	849.55	849.13
03U804 (T4U3)	913.02	855.16	851.87		849.98	849.77	849.54	850.66	850.15	849.66

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*4/2/87*	*9/8/87*	*11/17/87*	*11/24/87*	*11/30/87*	*12/14/87*	*1/11/88*	*5/2/88*	*5/20/88*
03U805 (T5U3)	908.23	853.31	850.18	848.6	848.66		848.23	849.32	848.62	848.11
03U806 (T6U3)	911.96	852.79	849.56	848.78	848.88	848.71	848.44	849.01	848.76	848.19
03M806 (T6M3)	911.87	853.02	849.84	848.42	848.8	848.33	848.08	849.25	848.44	847.89
03L806 (T6L3)	912.16	852.93	849.72	848.36	848.89	848.28	848.28	849.1	848.38	847.81
04U806 (T6U4)	912.12	852.64	849.42	848.32	848.62	848.26	848	848.89	848.29	847.74
PJ#806 (T6PJ)	911.03	852.57	849.37	848.93	848.53	848.28	848.01	848.83	848.3	847.75
03L809 (T9L3)	914.32	853.3	850.14	849.42	849.37	849.36	849.02	850.12	849.34	848.78
03L841 (301L3)	911.91									
04U841 (301U4)	913.77									
03L833	908.02						854.08	839.57	854.4	853.9
04U833	908.32				857.12	857.2	857.32	857.45	857.53	857.2

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*6/23/88*	*7/27/88*	*9/1/88*	*9/21/88*	*10/14/88*	*12/2/88*	*1/13/89*	*3/31/89*	*7/7/89*	*10/5/89*
On TCAAP											
03U001	891.2	846.24	845.16	844.82	844.92	845.46	846.41	846.55	844.09		841.44
03M001	890.76	846.44	845.51	845.06	844.99	845.54	846.51	846.62	844.03		841.28
03L001	891.37	846.42	845.22	844.86	845	845.52	846.45	846.61	843.68	841.38	841.17
04U001	891.28	846.28	845.12	844.76	844.88	845.38	846.36	846.49	843.59	841.28	841.05
03U002	919.89	850.22	848.91	847.51	847.2	847.13	848.59	849.59	845.37	844.15	843.45
03M002	922.4	849.46	848.35	847.89	847.59	847.04	848.67	848.12	844.58	843.09	842.6
03L002	922.21	849.38	848.3	847.84	847.55	846.96	848.62	848.06	844.49	842.98	842.49
04U002	923.18	849.26	848.09	847.73	847.44	846.88	848.48	847.93	843.76	834.38	841.88
03U003	945	852.34	850.84	849.44	849.18	848.8	849.76	849.68	846.74	845.5	844.85
03M003	945.55	852.15	850.75	849.35	849.08	848.75	849.79	849.56	846.28	844.95	844.27
03L003	946.83	851.95	850.55	849.27	849.01	848.78	849.91	849.46	845.63	844.15	843.47
04U003	946.07	848.44	847.59	846.45	846.07	846.19	847.19	846.77	844.42	843.05	842.37
PJ#003	946.47		846.5	845.77	845.42	845.67	846.59	846.25	844.12		841.89
03U004	953	855.93	854.55	853.34	853.09	852.83	853.1	853.4	852.15		849.94
03M004	952.55	854.49	853.1	851.95	851.68	851.51	851.82	852.12	850.71		848.41
03L004	952.02	853.46	852.07	850.92	850.62	850.47	850.81	851.07	849.66		847.37
03U005	973.07	855.85	854.32	853.42	853.03	853.14	852.76	853.22	852.49		850.65
03M005	974.52	856.3	854.32	853.43	853.08	853.61	852.78	853.27	853.04		851.13
03L005	974.08	855.4	854.35	853.43	853.08	852.73	852.83	853.33	852.08		850.21
03U006	969.09	857.42	856.09	854.94	854.29	854.58	854.41	854.74	853.99		851.75
03U007	902.63	856.95	855.45	855.07	854.78	855.19	855.67	855.95	855.43	853.68	852.78
03M007	903.77	856.92	855.42	855.03	854.74	855.14	855.62	855.9	855.37		852.73
03L007	904.41	856.52	855.09	854.86	854.41	854.79	855.39	855.61	855.02		852.38
04U007	905.5	856.3	854.9	854.66	854.2	854.5	855.08	855.3	854.65	852.59	852.02
03U008	917.36	858.46	856.72	857.76	858.11	858.95	859.91	860.2	860.9		857.57
03U009	915.25	859.08	857.47	859.5	859.9	860.83	861.86	861.94	862.78		859.22
03U010	891	859.15	857.65	859.48	859.95	860.88	861.75	861.84	862.95		859.34
03M010	891.46	859.11	857.63	859.49	859.96	860.9	861.74	861.85	862.92		859.33
03L010	891.76	859.11	857.66	859.51	859.96	860.91	861.75	861.84	862.96		859.31
03U011	902.99	858.28	856.64	857.47	857.71	858.27	858.79	859.09	860.78		857.29
03U012	882.83	854.67	853.5	854.29	854.57	855.25	855.79	856.18	856.48	853.51	853.11
03M012	882.73	854.65	853.48	854.28	854.55	855.23	855.77	856.18	856.48		853.11
03L012	882.63	854.61	853.43	854.25	854.5	855.19	855.64	856.15	856.42		853.07
04U012	882.78	854.56	853.38	854.18	854.44	855.13	855.67	856.07	856.33	853.37	852.97
03U013	893.02	849.04	847.87	847.9	847.87	848.34	848.97	849.57	847.97		845.19
03M013	892.4	848.95	847.78	847.8	847.79	848.27	848.9	849.5	847.9		845.12
03L013	892.6	848.76	847.63	847.65	847.61	848.1	848.76	849.38	847.75		844.93
03U014	990.27	855.72	854.22	853.05	852.72	852.44	852.68	852.77	852		849.72
03L014	991.57	855.44	853.96	852.95	852.77	852.61	852.88	852.96	852.27		849.93
03U015	937.68	854.84	853.46	852.68	852.45	852.53	852.83	853.02	852.73		850.13
03U016	950.05	857.14	855.34	854.7	854.64	854.57	854.78	854.97	855.35		852.75
03U017	941.31	852.71	851.21	850.14	850.12	849.93	850.64	850.93	849.06		846.98

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	6/23/88	7/27/88	9/1/88	9/21/88	10/14/88	12/2/88	1/13/89	3/31/89	7/7/89	10/5/89
03M017	941.93	852.67	851.22	850.13	850.11	849.93	850.62	850.93	849.03		846.97
03L017	942.07	852.67	851.12	850.12	850.09	849.92	850.62	850.88	849.07		846.94
03U018	991.62	855.34	853.81	852.67	852.53	852.35	852.6	852.82	851.98		849.72
03L018	991.49	855.1	853.59	852.57	852.39	852.21	852.52	852.74	851.82		849.55
03U019	946.54	856.55	854.97	853.9	853.62	853.41	853.54	853.83	853.44		851.09
03U020	955.7	853.48	851.95	850.75	850.63	850.34	851.02	850.83	849.35	848.2	847.18
03M020	957.03	853.39	851.91	850.73	850.61	850.36	850.98	851.08	849.27	848.06	847.08
03L020	956.73	853.31	851.83	850.68	850.52	850.27	850.93	851.03	849.27	848.02	847.03
04U020	957.86	851.97	852.11	850.16	850.06	849.91	850.61	850.7	848.91	846.87	846.05
03U021	947.3							849.69	847.25		845.2
03L021	946.74	851.34	849.92	849.03	848.84	848.37	849.63	849.41	846.79		844.84
03U022	901.88	856.56	855.05	855.26	855.34	855.72	855.97	856.23	857.43		854.24
03U023	901.51	856.71	854.41	854.96	855.12	855.67	856.06	856.28	857.13		853.87
03U024	896.99	855.67	854.25	854.29	854.31	854.61	854.77	855.04	855.84		852.77
03U025	889.07	853.91	852.56	852.6	852.51	852.9	853.24	853.72	853.55		850.61
03U027	968.8	853.82	852.31	851.12	850.9	850.6	851.25	851.5	849.71		846.53
03L027	969.42	853.7	852.22	851.03	850.8	850.51	851.17	851.43	849.61		847.4
04U027	969.49	852.09	850.69	849.76	849.44	849.31	850.14	850.39	848.19		845.81
PJ#027	970.05	852	850.6	849.71	849.38	849.28	850.1	850.34	848.18		845.76
03U028	959.76	853.37	851.86	850.61	850.39	850.12	850.58	850.86	848.92		846.87
03L028	958.93	853.23	851.13	850.55	850.31	850.08	850.55	850.82	848.86		846.78
03U029	957.27	853.1	851.53	849.79	849.95	848.62	850.07	850.42	847.13		845.73
03L029	956.95	852.6	851.08	849.86	849.7	849.4	850.05	850.1	847.68		845.6
03U030	961.42	854.38	852.92	851.77	851.52	851.32	851.47	851.85	850.47		848.33
03U031	900.94	852.84	851.54	850.56	850.49	850.66	850.79	851.34	850.14		847.69
03U032	1006.57	856.13	854.54	853.7	853.59	853.46	853.65	853.82	853.9		851.36
03U075	887.03	848.56	847.45	847.38	847.16	847.67	848.47	848.54	846.98		844.28
03U076	891.41	847.19	846.11	846.05	845.79	846.36	847.27	847.3	845.41		842.74
03U077	914.94	847.94	847.31	846.24	846.02	846.09	847.44	847.31	842.31		841.74
03L077	914.88	846.91	847.23	846.33	846.08	845.48	847.45	847.24	843.73		840.16
04U077	914.57	847.37	847.36	846.37	845.28	845.69	847.59				840.36
04J077	914.6				847.15		847.59	847.22	840.02		837.71
03U078	929.85	850.38	848.15	847.45	846.83	846.45	849.19	847.95	844.45		842.91
03L078	930.18	849.52	848.15	848.07	847.8	846.93	848.83	847.88	844.55		842.68
03U079	925.99	849.78	847.61	847.16	847.36	845.89	849.25	847.04	843.64		841.94
03L079	926.29	849.73	848.23	847.22	848.04	846.67	849.14	847.34	844.34		842.48
03L080	963.45	854.45	852.97	851.82	851.58	851.33	851.83	852.09	850.61		848.36
03L081	948.96	855.87	854.4	853.46	853.16	853.1	853.34	853.65	852.96		850.61
03U082	901	857.88	856.26	856.85	857.08	857.57	857.95	858.15	859.9		856.53
03U083	893.9	854.42	852.92	852.63	852.5	852.74	852.9	853.5	853.15		850.35
03U084	900.98	848.01	846.77	846.18	846.1	846.27	847.38	847.37	843.98		841.93
03L084	900.58	848.26	846.88	846.39	846.3	846.47	847.56	900.58	844.03		842.05
03U087	1006.79	855.94	854.34	871.63	853.53	853.44	853.6	853.79	854.11		851.49

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	6/23/88	7/27/88	9/1/88	9/21/88	10/14/88	12/2/88	1/13/89	3/31/89	7/7/89	10/5/89
03U088	986.36	856.06	854.48	853.86	853.77	853.75	853.86	854.06	854.6		851.88
03U089	975.3	856.05	854.49	853.85	853.75	853.75	853.86	854.1	854.55		851.85
03U090	984.92		854.32	853.37	853.13	852.97	853.15	853.3	853.07		850.66
03U092	963.3	855.76	854.15	853.03	852.74	852.45	852.7	852.93	852.08		849.76
03U093	996.01	855.28	853.04	852.71	852.49	852.26	852.56	852.79	852.01		849.31
03U094	999.64	855.89	854.37	853.24	852.92	852.65	852.84	852.94	852.34		850.07
03U096	997.02	854.93	853.4	852.48	852.37	852.21	852.54	852.81	852.06		849.79
03U111	927.69	858.86	856.78	856.7	856.94	857.12	857.43	857.74	859.62		856.58
03U112	980.8	856.49	854.85	853.8	853.55	853.4	853.5	853.66	853.45		851.1
03U113	976.83		854.83	853.98	853.77	853.65	853.76	853.93	853.93		851.48
03L113	977.15			853.83	853.65			853.85	853.85		851.36
03U301 (SC1)	957.41	853.16	851.46	849.79	849.91	833.28	850.09	850.36	830.51		831.41
03F302 (B1)	929.86	843.61	842.4	840.01	847.71	840.66	849.16	839.81	848.62	837.86	837.06
03F303 (B2)	925.04	836.29	825.55	847.59	847.14	827.95	848.94	828.25	827.49	829.54	828.34
03F304 (B3)	920.09	847.63	846.46	847.59	847.41	846.62	848.4	847.65	842.59	840.99	840.49
03F305 (B4)	915.75	848.8	847.78	847.33	847.16	840.98	848.2	841.69	837.55	836.35	836.25
03F306 (B5)	919.13	839.25	847.53	848.45	838.18					834.43	833.03
03F307 (B6)	913.46	822.43	844.87		820.02				828.59	827.16	826.76
03F308 (B7)	900.79						846.07	845.92	834.87	833.19	832.79
PJ#309 (B8)	914.35						848.1	847.55	840.05	839.35	834.95
PJ#310 (B9)	915.8						847.69	847.3	838.1	835.3	835.3
PJ#311 (B10)	905.97								839.26	838.77	838.87
03F312 (B11)	944.24						851.05	850.4	837.5	834.74	834.54
PJ#313 (B12)	895.63						835.55	846.83	839.68	837.93	836.93
03U314 (SC2)	978.02						852.19	978.02	842.54	841.52	842.32
03U315 (SC3)	965.27						852.29	852.47	845.18	844.67	842.77
03U316 (SC4)	957.13						851.64	851.81	835.26	836.13	836.63
03U317 (SC5)	952.62						851.54	851.76	845.58	844.62	843.72
04U510	911.19		857.04	858.89	859.39	859.95	860.97	861.08	862.05		858.48
OW543U3	958.99	853.55	851.97	850.69	850.58	850.16	850.49	850.88	849.09		847.02
03U647	962.25	854.1	852.58	851.39	851.14	850.89	851.04	851.45	849.78		847.85
03U648	963.14	854.31	852.76	851.59	851.34	851.1	851.3	851.69	850.19		848.07
03U658	966.24	854.76	853.33	852.18	851.92	851.68	852.04	852.32	851.02		848.76
03U659	958.62	853.54	851.92	850.52	850.51	849.89	850.42	850.78	848.57		846.65
03U671	933.13	851.41	849.9	848.37	848.04	847.81	849.08	849.16	846.18		844.4
03U674	957.21	853.16	851.43	849.76	849.97	848.85	850.04	850.35	847.31		845.47
03U701	911.1	847.25	846.5	845.57	845.4	845.49	846.56	846.83	843.4		841.18
04U701	911.24	846.97	846.69	845.79	845.21	845.55	846.9	846.99	842.92		839.8
03U702	910.53	846.76	845.97	845.08	845.04	845.09	846.16	846.43	843.03		840.75
04U702	910.44	847.09	846.73	845.66	845.32	845.54	846.83	847.04	842.77		840.49
04J702	910.51						846.86	847.04	842.41		840.16
03U703	921.25	849.66	847.35	847.4	847	845.81	849.18	847.08	843.71		842.13
03U704	978.47	856.61	855.07	854.59	854.53	854.57	854.42	854.77	846.82	854.58	853.02

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*6/23/88*	*7/27/88*	*9/1/88*	*9/21/88*	*10/14/88*	*12/2/88*	*1/13/89*	*3/31/89*	*7/7/89*	*10/5/89*
03U705	1049.55	856.85	855.22	854.75	854.75	854.74					853.41
03U706	920.63	856.28	854.82	854.61	854.56	854.77	854.69	855.03	856.18	854.58	853.16
03U707	918.28	856.43	854.91	854.86	854.88	855.17	855.3	855.58	856.81		853.73
03U708	921.97	850.89	849.5	847.91	847.52	847.39	848.9	848.82	845.62		843.87
04U708	921.66	848.86	847.72	847.36	847.1	846.54	848.11	847.55	844.45		842.08
04J708	922.04						847.35	847.4	843.74		841.64
03U709	912.63	849.43	848.31	846.85	846.36	846.56	848.13	848.03	844.53		842.63
04U709	912.52	848.56	847.73	847.2	846.86	846.26	848.07	847.57	844.08		841.04
03U710	946.76	851.54	849.85	848.46	848.25	847.82	849.38	848.91	845.57		843.8
03U711	908.81	848.88	848.13	846.83	846.25	846.36	847.54	847.6	843.85	842.6	841.93
04U711	908.73	847.38	847.63	843.18	845.22	845.58	846.92	846.68	842.78	841.23	840.68
03M713	898.41						846.41	846.4	842.11	840.21	840.06
04U713	897.73						848.34	848.35	844.08	842.45	842.55
04J713	898.38						847.03	846.95	842.08	840.22	840.04
04U714	893.89						846.5	846.68	843.13	840.99	840.8
04J714	894.19						846.63	846.68	843.19	840.86	840.68
03U715	963.59						852.16	852.36	850.99	850.07	848.76
03U716	952.1						851.55	839.3	849.75	848.56	847.69
E101MW	970.12										
E102MW	981.54										
E103MW	971.61										
Staff Gauges											
S.G. #1	860.42								854.79		857.16
S.G. #2	862.84										862.79
S.G. #3	865.29										
S.G. #1a	871.73										
S.G. #2a	872.02										
S.G. #3a	871.71										
Off TCAAP											
409550(PCA6U3)	914.4	844.25	843.41	843.03	842.78	843.11	914.4	844.14	841.3		839.1
03U672 (PD2U3)	923.72	852.95	851.52	850.18	851.04	849.59	849.82	850.23	847.85	846.72	845.86
03U673 (PD3U3)	897.84	845.48	844.59	843.66	843.24	843.44	843.39	843.8	841.95	840.46	840.09
03L673 (PD3L3)	898.44	843.46	842.49	841.66	841.35	841.65	842.03	842.36	840.38	838.59	838.35
04U673 (PD3U4)	898.34	843.42	842.47	841.68	841.4	841.69	842.12	838.43	840.45	838.79	838.43
03U801 (T1U3)	914.82	849.39	848.72	847.07	846.68	846.89	848.25	847.22	844.13		842.2
03M802 (T2M3)	907.38	850.33	848.99	847.61	847.38	847.11	848.68	847.63	843.93		842.73
03L802 (T2L3)	907.93	849.61	848.98	847.23	846.9	847.34	848.32	847.43	845.16	843.11	842.44
04U802 (T2U4)	905.95	848.17	847.31	853.21	845.81	846	846.65	846.61	844.07		841.93
PJ#802 (T2PJ)	905.07	847.84	846.97	845.94	845.62	845.78	846.42	846.42	843.97		841.95
03U803 (T3U3)	900.89	848.29	847.65	846.54	845.94	845.99	846.43	846.54	843.89		841.65
03U804 (T4U3)	913.02	848.87	848.5	847.18	846.48	846.88	847.92	847.57	843.87		841.9

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*6/23/88*	*7/27/88*	*9/1/88*	*9/21/88*	*10/14/88*	*12/2/88*	*1/13/89*	*3/31/89*	*7/7/89*	*10/5/89*
03U805 (T5U3)	908.23		846.52	845.52	844.73	845.26	846.37	846.21	842.48		840.32
03U806 (T6U3)	911.96	846.51	845.81	845.1	844.7	844.9	845.96	846.26	842.71		840.48
03M806 (T6M3)	911.87	846.32	846.13	845.33	844.43	845.01	846.21	846.07	842.16		839.91
03L806 (T6L3)	912.16	846.24	845.99	845.22	844.37	844.95	846.11	846.01	842.1	840.26	839.86
04U806 (T6U4)	912.12	846.09	845.69	844.97	844.29	844.72	845.87	845.91	841.97	840.07	839.73
PJ#806 (T6PJ)	911.03	846.05	845.62	844.95	844.29	844.71	845.87	845.88	841.95		839.74
03L809 (T9L3)	914.32	847.02	846.34	845.84	845.29	845.79	846.57	846.57	843.56		841.17
03L841 (301L3)	911.91										
04U841 (301U4)	913.77										
03L833	908.02	852.59	851.13	849.35	850.04	849.13	850.65	850.76	848.99		845.96
04U833	908.32	854.09	854.49	853.45	853.18	852.98	853.14	853.29	852.89		850.54

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	12/21/89	1/11/90	5/16/90	7/16/90	2/28/91	6/3/91	9/3/91	9/27/91	12/6/91	3/24/92
On TCAAP											
03U001	891.2	841.39	841.43	841.67	841.34	842.28	842	841.05	841.7	843.01	843.51
03M001	890.76	841.26	841.26	841.53	841.27	842.11	841.81	840.89	841.54	842.83	843.31
03L001	891.37	841.05	841.07	841.33	841.02	841.9	841.64	840.71	841.3	842.6	843.12
04U001	891.28	840.93	840.98	841.22	840.91	841.78	841.55	840.58	841.2	842.5	842.99
03U002	919.89	842.68	842.51	842.65	842.41	843.09	842.89	842.36	842.59	843.84	844.49
03M002	922.4	841.91	841.8	841.93	841.73	842.36	842.2	841.75	841.95	843.18	843.84
03L002	922.21	841.84	841.71	841.81	841.62	842.26	842.1	841.49	841.85	843.1	843.75
04U002	923.18	841.18	841.06	841.21	841.03	841.64	841.44	840.9	841.18	842.46	843.08
03U003	945	844.5	844.1	844.15	843.73	844.48	844.2	843.75	843.89	845.14	845.66
03M003	945.55	844.3	843.84	843.87	843.52	844.27	844.02	843.55	843.7	844.96	845.51
03L003	946.83	844.13	843.55	843.63	843.33	844.04	843.78	843.32	843.49	844.7	845.23
04U003	946.07	842.09	841.72	841.9	841.58	842.37	842.16	841.62	841.85	843.11	843.64
PJ#003	946.47	841.51	840.66	841.49	841.18	841.91	841.66	841.06	841.37	842.63	843.2
03U004	953	849.57	849.38	849.32		849.8			849.35		851.3
03M004	952.55	848.11	847.93	847.83		848.34			847.87		849.82
03L004	952.02	847.12	846.9	846.81		847.32			846.83		848.81
03U005	973.07	850.04	849.94	849.77		850.3			849.85		851.27
03M005	974.52	850.56	850.47	850.31		850.38			849.83		851.84
03L005	974.08	849.63	849.54	849.38		850.41			849.86		851.9
03U006	969.09	851.46	851.27	851.2		851.78			850.94		853.28
03U007	902.63	852.9	852.78	852.47	852.36	853.43	853.1	852.51	852.88	854.61	855.23
03M007	903.77	852.82	852.72	852.39	852.27	853.35	853.03	852.42	852.78	854.52	855.14
03L007	904.41	852.47	852.36	852.01	851.83	853.07	852.69	852.14	852.31	854.18	854.71
04U007	905.5	852.05	851.95	851.58	851.31	852.68	852.37	851.88	851.85	853.74	854.12
03U008	917.36	858.31	858.31	857.91		859.51			859.45		861.49
03U009	915.25	860.14	860.25	859.9		870.37			861.88		863.62
03U010	891	860.32	860.45	860.06		861.48			862.08		863.84
03M010	891.46	860.3	860.46						862.08		863.68
03L010	891.76	860.3	860.45						862.18		863.74
03U011	902.99	858.04	858.15	857.72		859.06			859.27		861.19
03U012	882.83	853.83	854.03	853.63	853.6	854.87	855.15	853.83	854.93	856.21	856.84
03M012	882.73	853.83	854.03	853.62	853.59	854.87	855.13	853.83	854.92	856.2	856.83
03L012	882.63	853.82	853.98	853.6	853.54	854.8	855.08	853.78	854.86	856.16	856.81
04U012	882.78	853.7	853.88	853.49	853.46	854.73	855	853.68	854.76	856.06	856.68
03U013	893.02	845.42	845.63	845.44		846.2			845.86		847.83
03M013	892.4	845.4	845.58	845.4		846.2			845.85		847.84
03L013	892.6	845.2	845.45	845.24		846.06			845.67		847.65
03U014	990.27	849.44	849.25	849.15	848.99	849.79	849.78	849.3	849.48	850.59	851.57
03L014	991.57	849.77	849.57	849.5		850.22	850.15	849.58	849.84	851.05	851.92
03U015	937.68	850.11	850.03	849.99		850.82			850.62		852.64
03U016	950.05	852.67	864.7	852.59		853.48			853.35		855.4
03U017	941.31	846.36	846.21	846.36		847.01			846.64		848.51

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	12/21/89	1/11/90	5/16/90	7/16/90	2/28/91	6/3/91	9/3/91	9/27/91	12/6/91	3/24/92
03M017	941.93	846.32	846.23	846.33		846.97			846.62		848.48
03L017	942.07	846.14	846.22	846.32		846.97			846.64		848.51
03U018	991.62	849.25	849.24	849.19		849.9			849.62		852.26
03L018	991.49	849.09	849.07	849.04		849.76			849.44		851.47
03U019	946.54	850.87	850.73	850.63		851.34			851.09		853.1
03U020	955.7	846.63	846.51	846.65	846.45	847.18	847.11	846.63	846.83	848.01	848.8
03M020	957.03	846.79	846.52	846.6	846.39	847.09	847.06	846.52	846.73	847.93	848.68
03L020	956.73	846.58	846.52	846.55	846.36	847.1	847.03	846.53	846.73	847.93	848.71
04U020	957.86	846.21	846.16	846.28	846.09	846.8	846.82	846.25	846.56	847.82	848.5
03U021	947.3	844.55	844.5	844.51		844.98			844.76		846.45
03L021	946.74	844.19	844.12	844.14		844.6			843.99		846.09
03U022	901.88	854.78	854.86	854.53		855.73			855.81		857.75
03U023	901.51	854.51	854.63	854.25		855.5			855.58		857.53
03U024	896.99	853.17	853.29	852.99		854.06			854.09		856.04
03U025	889.07	850.96	851.07	850.81		851.83			851.76		853.71
03U027	968.8	847.17	846.87	846.97		847.52			847.12		849.08
03L027	969.42	847.07	846.84	846.85		847.37			846.97		848.98
04U027	969.49	845.63	845.44	845.44		845.96			845.61		847.55
PJ#027	970.05	845.57	845.4	845.46		845.95			845.58		847.55
03U028	959.76	846.52	846.35	846.23		846.72			846.31		848.28
03L028	958.93	846.43	846.31	846.18		846.67			846.26		848.23
03U029	957.27	844.84	844.73	845.52		844.93			844.47		846.27
03L029	956.95	845.45		845.15		845.59			845.11		847.03
03U030	961.42	848.02	847.85	847.71		848.26			847.88		849.85
03U031	900.94	847.65	847.54	847.54		848.3			848		850.04
03U032	1006.57	851.35	851.22	851.09		851.97			851.73		853.81
03U075	887.03	844.43	844.72	844.52		845.25			844.87		846.82
03U076	891.41	842.86	843.16	842.98		843.65			843.19		844.97
03U077	914.94	841.86	841.12	841.28		841.78			841.19		843.19
03L077	914.88	839.53	839.51	839.66		840.18			839.64		841.69
04U077	914.57	839.57	839.51	839.67		840.19			839.67		841.68
04J077	914.6	836.53	836.5	837.1		837.9			837.38		839.11
03U078	929.85	842.2	841.8	841.24		841.67			840.56		842.33
03L078	930.18	842.16	841.83	841.7		842.24			841.84		843.77
03U079	925.99	842.61	840.87	840.78		841.08			840.31		842.16
03L079	926.29	843.01	841.69	841.69		842.09			841.69		843.4
03L080	963.45	848.06	847.9	847.84		848.38			847.99		849.99
03L081	948.96	850.41	850.26	850.17		850.92			850.49		852.58
03U082	901	857.18	857.29	856.92		858.21			858.36		860.29
03U083	893.9	850.53	850.6	850.36		851.31			851.2		853.15
03U084	900.98	841.47	841.48	841.62		842.24			841.67		843.58
03L084	900.58	841.58	841.58	841.72		842.31			841.75		843.64
03U087	1006.79	851.58	851.48	851.34		852.23			852.07		881.09

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	12/21/89	1/11/90	5/16/90	7/16/90	2/28/91	6/3/91	9/3/91	9/27/91	12/6/91	3/24/92
03U088	986.36	852.01	851.91	851.76		852.72			852.61		854.69
03U089	975.3	851.97	851.9	851.73		852.69			852.58		854.62
03U090	984.92	850.47	850.39	850.25		850.99			850.81		852.88
03U092	963.3	849.28	849.28	849.2		849.87			849.61		851.64
03U093	996.01	849.27	849.26	849.21	849.16	849.97	849.98	849.5	849.66	850.85	851.71
03U094	999.64	849.76	849.6	849.4		850.1			849.84		851.99
03U096	997.02	849.35	849.34	849.32		850.09			849.78		851.84
03U111	927.69	856.75	856.99	856.9		858.31			858.19		860.36
03U112	980.8	850.91	850.79	850.65		851.37			851.18		853.21
03U113	976.83	851.38	851.23	851.14		851.91			851.72		853.79
03L113	977.15	851.3	851.15	851.06		851.84			851.63		853.67
03U301 (SC1)	957.41	827.06	831.01	845.46	829.41	828.41	826.86	829.41	829.16	830.41	827.01
03F302 (B1)	929.86		855.26	836.66	835.86	836.46	834.96	835.24	835.26	836.46	837.06
03F303 (B2)	925.04	830.44	828.64	821.24	820.94	820.44	817.64	810.69	806.44	806.54	806.14
03F304 (B3)	920.09	840.09	839.89	840.09	839.59	840.39	839.89	839.68	840.04	841.49	842.09
03F305 (B4)	915.75	834.55	834.35	835.45	835.15	835.72	836.01	835.45	835.5	836.55	837.35
03F306 (B5)	919.13	832.43	832.73	832.73	832.23	833.48	832.08	831.83	831.98	832.83	838.93
03F307 (B6)	913.46	826.36	826.36	825.76	826.26	826.36	826.46	913.46	825.96	827.16	830.36
03F308 (B7)	900.79	832.49	832.29	831.69	830.29	830.99	826.24	900.79	823.29	824.19	823.59
PJ#309 (B8)	914.35	807.55	838.25	838.95	838.85	838.35	838.15	838.25	838.65	839.55	840.35
PJ#310 (B9)	915.8	833.9	833.9	835.1	835.2	836	835.7	835.65	835.7	836.8	837.4
PJ#311 (B10)	905.97	844.27	837.37	838.07	836.87	837.67	837.72	905.97	837.02	838.77	839.27
03F312 (B11)	944.24	828.14	838.04	838.84	838.24	838.44	838.86	838.34	838.49	839.64	840.24
PJ#313 (B12)	895.63	836.63		837.83	837.63	836.23	837.43	836.53	836.91	838.03	838.73
03U314 (SC2)	978.02	841.32	839.92	843.42	846.02	844.97	845.1	840.07	840.6	846.22	841.32
03U315 (SC3)	965.27	842.47	842.87	842.37	841.17	841.47	842.25	842.42	842.62	843.87	844.77
03U316 (SC4)	957.13	826.23	830.03	833.73	831.73	831.23	831.93	832.13	832.63	833.63	836.53
03U317 (SC5)	952.62	843.62	843.42	851.92	843.12	843.02	843.92	842.72	842.22	843.82	844.12
04U510	911.19	859.32	859.39	859.11		860.57			860.83		862.56
OW543U3	958.99	846.65	846.48	846.38		846.77			846.86		848.59
03U647	962.25	847.5	847.36	847.23		847.75			847.35		849.31
03U648	963.14	847.73	847.59	847.44		847.99			847.59		849.56
03U658	966.24	848.48	848.24	848.18		848.71			848.29		850.28
03U659	958.62	846.2	846	846.05		846.34			845.89		847.8
03U671	933.13	843.19	843.33	843.28		843.63			842.99		844.818
03U674	957.21	844.99	844.86	845.4		845.06			844.56		846.42
03U701	911.1	840.75	840.99	841.01		841.45			840.8		842.75
04U701	911.24	839	839.27	839.43		839.8			839.19		841.06
03U702	910.53	839.89	840.63	840.66		841.08			840.42		842.35
04U702	910.44	840.24	840.09	840.14		840.48			839.87		841.82
04J702	910.51	839.36	839.61	839.74		840.11			839.53		841.46
03U703	921.25	842.05	841.15	840.68		841.09			840.1		841.9
03U704	978.47	853.22	853.17	853.01	853.19	854.01	854.25	853.57	854.02	855.25	856.04

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*12/21/89*	*1/11/90*	*5/16/90*	*7/16/90*	*2/28/91*	*6/3/91*	*9/3/91*	*9/27/91*	*12/6/91*	*3/24/92*
03U705	1049.55	853.72	853.6	853.46		854.53	854.8	854.05	854.55	855.8	856.64
03U706	920.63	853.53	853.58	853.37	853.51	854.37	854.65	853.87	854.45	855.59	856.39
03U707	918.28	854.18	854.24	854.03		855.1			855.14		857.11
03U708	921.97	842.86	842.67	842.7		843.02			842.42		844.22
04U708	921.66	841.35	841.16	841.36		841.78			841.35		843.23
04J708	922.04	840.86	840.68	840.83		841.26			840.81		842.63
03U709	912.63	841.79	841.68	841.86		842.25			841.74		843.64
04U709	912.52	841.36	840.22	840.37		840.76			840.32		842.2
03U710	946.76	843.47	842.88	842.86		843.16			842.54		844.32
03U711	908.81	841.21	841.01	841.29	840	841.69	841.33	839.64	839.95	842.59	843.5
04U711	908.73	840.19	839.93	840.34	840.9	840.52	840.28	840.73	840.84	841.44	841.91
03M713	898.41	839.56	839.61	839.81	839.59	840.31	840.03	839.15	839.6	840.89	841.47
04U713	897.73	841.82	841.83	841.99	841.81	842.58	842.42	841.7	842.06	843.35	844.01
04J713	898.38	839.3	839.38	839.67	839.41	839.98	839.74	838.88	839.34	840.65	841.2
04U714	893.89	840.54	840.59	840.83	840.54	841.33	841.08	840.15	840.7	841.98	842.54
04J714	894.19	840.4	840.48	840.71	840.47	841.18	840.94	840.05	840.57	841.88	842.42
03U715	963.59	848.24	848.19	848.2	848.06	848.79	848.83	848.32	848.5	849.7	850.5
03U716	952.1	847	846.95	847.05	846.89	847.68	847.63	847.1	847.3	848.57	849.18
E101MW	970.12										
E102MW	981.54										
E103MW	971.61										
Staff Gauges											
S.G. #1	860.42			856.22		855.62			865.66		867.57
S.G. #2	862.84			860.94		860.64			865.89		867.81
S.G. #3	865.29					865.05			866.04		867.47
S.G. #1a	871.73										
S.G. #2a	872.02										
S.G. #3a	871.71										
Off TCAAP											
409550(PCA6U3)	914.4	838.65	838.95	839.01		839.26			838.6		840.55
03U672 (PD2U3)	923.72	845.55	845.42	845.31	844.92	845.68	845.36	845.11	845.05	846.32	846.9
03U673 (PD3U3)	897.84	839.13	839.33	839.14	838.84	839.13	838.73	838.19	838.39	839.5	840.08
03L673 (PD3L3)	898.44	837.75	837.94	837.94	837.51	837.95	837.67	836.99	837.29	838.54	838.66
04U673 (PD3U4)	898.34	837.84	838.03	838.04	837.6	838.08	837.79	837.12	837.44	838.69	839.82
03U801 (T1U3)	914.82	842.07	841.81	841.5	841.21	841.89	842.12	841.17	841.28	842.52	843.15
03M802 (T2M3)	907.38	842.68	842.28	841.88	841.5	842.36	841.8	841.43	841.51	842.76	843.3
03L802 (T2L3)	907.93	842.52	842.13	841.93	841.54	842.29	841.92	841.53	841.69	842.93	843.51
04U802 (T2U4)	905.95	841.65	841.65	841.65	841.25	841.94	841.68	841.2	841.44	842.67	843.22
PJ#802 (T2PJ)	905.07	841.49	841.52	841.57	841.13	841.73	841.49	840.97	841.21	842.43	842.95
03U803 (T3U3)	900.89	841.19	841.29	841.03		841.21			840.49		842.25
03U804 (T4U3)	913.02	841.36	841.39	841.27		841.61			841.13		843.07

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*12/21/89*	*1/11/90*	*5/16/90*	*7/16/90*	*2/28/91*	*6/3/91*	*9/3/91*	*9/27/91*	*12/6/91*	*3/24/92*
03U805 (T5U3)	908.23	839.82	840.01	840.03		840.31			839.76		841.73
03U806 (T6U3)	911.96	840.02	840.28	840.35	839.93	840.74	840.44	839.7	840.06	841.39	842.04
03M806 (T6M3)	911.87	839.41	839.66	839.72	839.31	840.06	839.72	839.07	839.42	840.73	841.45
03L806 (T6L3)	912.16	839.36	839.61	839.68	839.26	840.01	839.74	839.02	839.38	840.7	841.42
04U806 (T6U4)	912.12	839.21	839.47	839.57	839.14	839.86	839.57	838.86	839.23	840.55	841.22
PJ#806 (T6PJ)	911.03	839.16	839.43	839.52	839.13	839.84	839.55	838.83	839.2	840.52	841.17
03L809 (T9L3)	914.32	840.92	841.17	841.22		841.46			840.83		842.8
03L841 (301L3)	911.91			837.39		837.41			836.66		838.61
04U841 (301U4)	913.77			838.79		838.77			838.1		840.05
03L833	908.02	846.28	846.24								
04U833	908.32	850.34	850.24								

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	6/1/92	9/1/92	10/8/92	3/2/93	9/10/93	3/1/94	9/2/94	3/9/95	9/6/95	5/29/96
On TCAAP											
03U001	891.2	843.25	842.79	843.62	844.75	846.23	847.86	846.08	845.69	844.72	846.84
03M001	890.76	843.14	842.66	843.48	844.6	846.06	847.74	845.96	845.52	845.12	846.71
03L001	891.37	842.9	842.45	843.26	844.35	845.81	847.54	845.71	845.28	845.43	846.48
04U001	891.28	842.79	842.33	843.14	844.26	845.7	847.45	845.6	845.16	844.77	846.38
03U002	919.89	844.97	844.54	844.82	845.75	847.13	848.84	847.56	847.53	847.02	848.22
03M002	922.4	844.25	843.8	844.18	845.07	846.4	848.05	846.72	846.55	846.09	847.37
03L002	922.21	844.15	843.7	844.09	844.99	846.31	848	846.62	846.53	846.03	847.31
04U002	923.18	843.43	843	843.42	844.32	845.5	847.17	845.74	845.53	844.93	846.13
03U003	945	846.5	846.26	846.52	847.23	848.3	850.27	849.45	849.2	848.89	849.82
03M003	945.55	846.37	846.14	846.41	847.14	848.16	850.1	849.39	849.08	848.77	849.74
03L003	946.83	846.01	845.73	846.07	846.83	847.73	849.54	848.84	848.65	848.2	849.12
04U003	946.07	844.1	843.81	844.33	845.16	846.43	847.98	846.9	846.96	846.47	847.69
PJ#003	946.47	843.45	843.16	843.7	844.54	845.68	847.33	846.01	845.93	845.43	846.74
03U004	953			851.97	852.72	853.78	855.64	854.79	854.6	852.88	854.14
03M004	952.55			850.48	851.23	852.32	854.17	853.27	853.26	853.42	854.55
03L004	952.02			849.47	850.22	851.29	853.15	852.26	852.25	851.41	852.65
03U005	973.07			852.72	853.21	854	856.14	855.25	855.55	854.37	855.72
03M005	974.52			852.74	853.23	854.07	856.18	855.27	855.59	854.4	855.75
03L005	974.08			852.78	853.3	854.14	856.24	855.33	855.62	854.47	855.81
03U006	969.09			854.2	854.7	855.18	857.52	856.69	856.81	856.4	857.15
03U007	902.63	855.28	854.88	855.64	856.18	857.25	859.11	857.85	858.28	857.75	857.47
03M007	903.77	855.21	854.81	855.57	856.11	857.17	859.05	857.78	858.22	857.67	859.79
03L007	904.41	854.7	854.31	855.12	855.75	856.75	858.68	857.28	857.89	857.43	858.19
04U007	905.5	854.25	853.83	854.66	855.37	856.3	858.18	856.82	857.51	857.09	857.62
03U008	917.36			861.1	862.1	863.66	864.88	863.11	864.01	863.27	864.72
03U009	915.25			863.16	863.93	865.97	866.69	864.9	865.68	865.18	866.77
03U010	891			863.21	864.05	865.98	866.81	865	865.79	865.2	866.71
03M010	891.46			863.18	864.02	865.95	866.81	864.98	865.8	865.18	866.71
03L010	891.76			863.18	864.03	865.91	866.72	864.89	865.69	865.05	866.55
03U011	902.99			860.61	861.73	863.34	864.56	862.87	863.65	862.81	864.21
03U012	882.83	856.21	855.25	856.26	857.4	858.97	860.35	858.5	859.13	857.99	859.54
03M012	882.73	856.19	855.24	856.24	857.39	858.94	860.35	858.49	859.12	857.99	859.53
03L012	882.63	856.18	855.18	856.19	857.35	858.9	860.31	858.45	859.08	857.94	859.49
04U012	882.78	856.06	855.09	856.09	857.24	858.79	860.2	858.35	858.96	857.82	859.37
03U013	893.02			847.69	848.79	850.11	851.9	850.17	850.26	849.22	850.71
03M013	892.4			847.66	848.77	850.1	851.89	850.15	850.22	849.17	850.67
03L013	892.6			847.51	848.61	849.93	851.72	849.99	850.08	849.02	850.52
03U014	990.27	852.19	851.33	851.96	852.73	853.97	855.71	854.9	854.88	853.04	854.29
03L014	991.57	852.47	851.9	852.3	853.12	854.38	856.11	855.12	855.19	855.38	856.54
03U015	937.68			852.7	853.7	855.02	856.74	855.54	855.78	855.06	856.18
03U016	950.05			855.43	856.42	857.8	859.49	858.23	858.55	857.79	858.9
03U017	941.31			848.89	849.78	851.07	852.85	851.64	851.72	851.13	852.18

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	6/1/92	9/1/92	10/8/92	3/2/93	9/10/93	3/1/94	9/2/94	3/9/95	9/6/95	5/29/96
03M017	941.93			848.87	849.76	851.05	852.84	851.61	851.69	851.08	852.18
03L017	942.07			848.84	849.76	851.06	852.83	851.6	851.67	851.07	852.18
03U018	991.62			851.95	852.84	854.17	855.96	854.93	855	854.31	855.36
03L018	991.49			851.78	852.66	854.01	855.77	854.71	854.79	854.1	855.16
03U019	946.54			853.44	854.29	855.55	857.3	856.41	856.46	855.67	856.8
03U020	955.7	849.36	848.84	849.11	850.05	851.31	853.09	852.02	852.01	851.23	852.51
03M020	957.03	849.28	848.73	849.05	849.94	851.23	852.95	851.88	851.82	851.04	852.3
03L020	956.73	849.26	848.74	849.05	849.95	851.23	853	851.92	851.9	851.14	852.43
04U020	957.86	848.97	848.36	848.76	849.7	851.07	852.77	851.57	851.64	850.78	852.19
03U021	947.3			846.8	847.73	849.05	850.84	849.69	849.6	849.04	850.2
03L021	946.74			846.46	847.38	848.67	850.4	849.28	849.16	848.6	849.8
03U022	901.88			857.35	858.46	859.96	861.35	859.83	860.35	859.58	860.82
03U023	901.51			857.05	858.17	859.67	861.06	859.37	859.91	859.08	860.41
03U024	896.99			855.74	856.85	858.29	859.78	858.33	858.73	858.01	859.19
03U025	889.07			853.47	854.56	855.99	857.56	856.06	856.33	855.63	856.9
03U027	968.8			849.47	850.36	851.56	853.36	852.36	852.32	851.59	852.83
03L027	969.42			849.36	850.25	851.46	853.24	852.24	852.22	851.46	852.74
04U027	969.49			847.87	848.76	849.94	851.69	850.58	850.53	849.71	851.13
PJ#027	970.05			847.87	848.75	849.94	851.66	850.55	850.51	849.69	851.1
03U028	959.76			848.72	849.57	850.72	852.63	851.62	851.61	850.82	852.14
03L028	958.93			848.68	849.52	850.65	852.59	851.55	851.56	850.75	852.07
03U029	957.27			846.87	847.69	848.87	850.98	850.03	850.01	849.23	851.3
03L029	956.95			847.61	848.41	849.44	851.41	850.43	850.44	849.59	850.87
03U030	961.42			850.36	851.12	852.23	854.18	853.22	853.26	852.42	853.67
03U031	900.94			850.05	851.07	852.51	854.14	852.81	852.92	852.35	853.6
03U032	1006.57			853.93	854.89	856.18	857.9	856.79	857.01	856.3	857.36
03U075	887.03			840.67	847.85	849.4	850.9	849.25	849.03	848.37	849.98
03U076	891.41			845.05	846.22	847.73	849.27	847.56	847.24	846.61	848.26
03U077	914.94			843.45	844.41	845.74	847.46	846.02	845.89	845.39	846.82
03L077	914.88			841.84	842.78	844.11	845.77	844.21	844.09	843.6	844.99
04U077	914.57			841.92	842.83	844.15	845.8	844.28	844.14	843.65	845.02
04J077	914.6			839.42	840.17	841.4	843.06	841.65	841.37	840.67	841.7
03U078	929.85			843.13	844.06	845.48	847.55	846.68	846.52	846.42	847.64
03L078	930.18			844.26	845.14	846.43	848.04	846.88	846.71	846.28	847.58
03U079	925.99			843	843.72	845.22	846.98	845.82	845.73	845.45	846.77
03L079	926.29			844.19	844.94	846.2	847.86	846.8	846.66	846.26	847.41
03L080	963.45			850.44	851.28	852.45	854.27	853.3	853.29	852.51	853.75
03L081	948.96			852.97	853.76	854.86	856.72	855.75	855.91	854.98	856.22
03U082	901			859.76	860.9	862.49	863.74	862.12	862.81	862	863.35
03U083	893.9			853.08	854.13	855.51	857.13	855.79	856.02	855.37	856.55
03U084	900.98			843.83	844.78	846.1	847.82	846.37	846.19	845.73	847.25
03L084	900.58			843.89	844.86	846.18	847.89	846.52	846.24	845.77	847.32
03U087	1006.79			854.19	875.2	856.54	858.22	857.05	857.33	856.59	857.66

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	6/1/92	9/1/92	10/8/92	3/2/93	9/10/93	3/1/94	9/2/94	3/9/95	9/6/95	5/29/96
03U088	986.36			854.67	855.69	857.07	858.7	857.51	857.81	857.07	858.16
03U089	975.3			854.61	855.64	857.01	858.63	857.45	857.74	857.01	858.09
03U090	984.92			853.05	853.98	855.31	856.99	856.04	856.09	855.33	856.49
03U092	963.3			851.98	852.86	854.12	855.89	854.99	854.99	854.2	855.33
03U093	996.01	852.31	851.65	851.98	852.91	854.21	856.02	854.97	855.06	854.36	855.42
03U094	999.64			852.31	853	854.32	855.98	855.21	855.2	854.42	855.54
03U096	997.02			852.06	852.99	854.33	856.08	854.94	855.12	854.44	855.48
03U111	927.69			859.84	861.03	862.51	863.93	862.39	863.21	862.29	863.52
03U112	980.8			853.47	854.37	855.72	857.4	856.48	856.54	855.77	856.9
03U113	976.83			853.95	854.9	856.19	857.89	856.89	857.07	856.34	857.38
03L113	977.15			853.71	854.83	856.07	857.8	856.73	856.95	856.26	857.28
03U301 (SC1)	957.41	829.11	828.41	829.25	829.81	839.71	838.31	839.11	836.31	836.91	851.22
03F302 (B1)	929.86	837.56	838.06	866.86	838.36	840.46	841.46	839.36	839.36	838.66	840.56
03F303 (B2)	925.04	806.54	821.14	821.04	821.54	821.24	820.96	827.84	827.14	829.04	829.14
03F304 (B3)	920.09	842.39	841.89	843.09	843.09	844.39	846.11	844.69	844.39	843.89	845.39
03F305 (B4)	915.75	837.85	837.45	836.75	839.15	840.95	841.75	839.75	839.95	839.25	840.15
03F306 (B5)	919.13	834.13	833.63	834.13	834.53	836.53	838.43	835.63	836.13	834.93	836.23
03F307 (B6)	913.46	826.66	826.76	858.46	826.56	827.26	826.76	821.66	814.86	813.36	798.76
03F308 (B7)	900.79	822.09	821.79	820.79	821.49	815.69	818.09	814.49	798.29	796.79	794.79
PJ#309 (B8)	914.35	840.85	840.15	839.35	841.55	842.35	844.05	842.75	842.45	841.85	843.05
PJ#310 (B9)	915.8	837.5	837.2	836.8	838.6	839.7	841.2	840.1	839.8	838.9	839.7
PJ#311 (B10)	905.97	838.47	838.52	837.97	840.27	841.47	842.97	841.77	839.67	839.37	840.57
03F312 (B11)	944.24	841.14	841.04	841.24	842.44	842.04	843.69	843.94	843.84	842.74	841.34
PJ#313 (B12)	895.63	838.83	838.13	807.63	839.63	841.63	842.23	840.63	839.13	839.93	841.93
03U314 (SC2)	978.02	846.72	848.22	845.02	846.52	844.22	848.52	846.32	850.42	846.42	846.42
03U315 (SC3)	965.27	845.47	844.27	828.27	845.07	845.57	853.87	840.67	839.97	836.97	835.27
03U316 (SC4)	957.13	838.53	839.53	843.13	836.83	841.73	844.83	844.63	840.73	837.33	838.03
03U317 (SC5)	952.62	844.42	843.72	843.62	844.92	844.82	848.32	844.02	842.12	839.42	838.22
04U510	911.19			862.18	863.12	865	865.84	864.03	865	864.42	865.87
OW543U3	958.99			848.68	849.56	850.79	852.78	851.82	851.82	851.03	852.32
03U647	962.25			849.84	850.61	851.7	853.65	852.72	852.74	851.89	853.17
03U648	963.14			850.07	850.87	851.97	853.9	852.94	852.97	852.12	853.41
03U658	966.24			850.86	851.63	852.76	854.59	853.69	853.66	852.87	854.11
03U659	958.62			848.36	849.15	850.26	852.3	851.35	851.29	850.48	851.93
03U671	933.13			845.39	846.24	847.53	849.54	848.45	848.25	847.91	848.98
03U674	957.21			846.97	847.82	848.97	851.11	850.15	850.06	849.28	851.16
03U701	911.1			843.02	843.98	845.28	846.98	845.48	845.32	844.84	846.36
04U701	911.24			841.26	842.13	843.44	845.08	843.55	843.27	842.77	844.06
03U702	910.53			842.61	843.58	844.87	846.55	845.03	844.85	844.39	845.97
04U702	910.44			842	842.95	844.26	845.92	844.37	844.13	843.65	845.07
04J702	910.51			841.56	842.49	843.8	845.45	843.87	843.56	843.08	844.44
03U703	921.25			842.69	843.55	845.01	846.9	846.05	845.93	845.8	847.11
03U704	978.47	856.47	855.45	855.97	857.01	858.41	859.99	858.81	859.15	858.4	859.44

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*6/1/92*	*9/1/92*	*10/8/92*	*3/2/93*	*9/10/93*	*3/1/94*	*9/2/94*	*3/9/95*	*9/6/95*	*5/29/96*
03U705	1049.55	857.03	855.98	856.53	857.54	858.8	860.55	859.3	859.74	858.81	859.98
03U706	920.63	854.57	855.61	856.21	857.27	858.73	860.24	858.91	859.34	858.44	859.54
03U707	918.28			856.8	857.88	859.37	860.84	859.36	859.9	858.94	860.1
03U708	921.97			844.83	845.67	847.02	848.93	847.76	847.62	847.26	848.31
04U708	921.66			843.62	844.52	845.81	847.44	846.09	845.94	845.46	846.76
04J708	922.04			843	843.88	845.03	846.66	845.28	845.08	844.54	845.81
03U709	912.63			844	844.91	846.29	848.03	846.67	846.64	846.11	847.36
04U709	912.52			842.51	843.44	844.66	846.31	844.89	844.61	844.18	845.47
03U710	946.76			845.14	845.9	847.11	849.03	848.07	847.86	847.59	848.6
03U711	908.81	843.4	842.99	843.42	844.26	845.68	847.27	845.99	846.03	845.41	846.63
04U711	908.73	842.17	841.78	842.32	843.19	844.37	846.05	844.52	844.63	843.97	845.33
03M713	898.41	841.44	840.99	841.71	842.74	844	845.73	844.31	843.67	843.35	845.2
04U713	897.73	844.15	843.65	844.21	845.16	846.48	848.19	846.83	846.38	845.92	847.29
04J713	898.38	841.14	840.71	841.38	842.38	844.02	845.48	844.18	842.85	842.69	844.29
04U714	893.89	842.32	841.94	842.69	843.77	845.2	847.15	845.15	844.62	844.31	845.94
04J714	894.19	842.29	841.84	842.59	843.68	845.1	847.11	845.03	844.46	844.17	845.82
03U715	963.59	851.26	850.69	850.95	851.84	853.04	854.81	853.92	853.91	853.08	854.25
03U716	952.1	849.88	849.31	849.68	850.48	851.87	853.71	852.48	852.6	851.89	852.9
E101MW	970.12						859.33	858.12	858.41	857.69	
E102MW	981.54						859.04	857.87	858.14	857.42	
E103MW	971.61						859.71	858.51	858.81	858.1	
Staff Gauges											
S.G. #1	860.42			854.27	866.92	867.87	869.82	868.64			
S.G. #2	862.84			858.87	868.14	868.14	870.04	868.88			
S.G. #3	865.29			864.11	867.59	867.59					
S.G. #1a	871.73										868.22
S.G. #2a	872.02										
S.G. #3a	871.71										
Off TCAAP											
409550(PCA6U3)	914.4			840.78	841.8	843.15	844.71	843.17	843.23	842.54	844.11
03U672 (PD2U3)	923.72	847.68	847.34	847.76	848.4	849.51	851.36	850.47	850.57	850.04	850.99
03U673 (PD3U3)	897.84	840.61	840.11	840.82	841.53	842.74	844.14	843.84	843.31	842.55	843.84
03L673 (PD3L3)	898.44	839.48	838.96	839.68	840.46	841.67	843.2	841.87	842.12	841.34	842.84
04U673 (PD3U4)	898.34	839.59	839.1	839.79	840.62	841.82	843.35	841.99	842.24	841.49	843
03U801 (T1U3)	914.82	843.73	843.47	843.87	844.62	846.01	847.59	846.56	846.62	846.05	847.33
03M802 (T2M3)	907.38	844.01	843.83	844.15	844.86	846.29	848	847.03	847.08	846.6	847.8
03L802 (T2L3)	907.93	844.11	843.87	844.29	845	846.33	847.93	846.93	846.96	846.43	847.65
04U802 (T2U4)	905.95	843.67	843.38	843.89	844.7	845.93	847.53	846.44	846.67	846	847.3
PJ#802 (T2PJ)	905.07	843.14	842.95	843.54	844.3	845.51	847.07	845.82	845.91	845.29	846.67
03U803 (T3U3)	900.89			843.08	843.79	845.11	846.53	845.52	845.73	845.14	846.17
03U804 (T4U3)	913.02			843.51	844.34	845.77	847.31	846.08	846.09	845.44	846.72

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*6/1/92*	*9/1/92*	*10/8/92*	*3/2/93*	*9/10/93*	*3/1/94*	*9/2/94*	*3/9/95*	*9/6/95*	*5/29/96*
03U805 (T5U3)	908.23			842.01	842.93	844.26	845.85	844.44	844.47	843.79	845.21
03U806 (T6U3)	911.96	842.1	841.66	842.29	843.25	844.57	846.24	844.75	844.74	844.1	845.6
03M806 (T6M3)	911.87	841.47	841.03	841.63	842.57	843.91	845.54	844.02	844.03	843.35	844.82
03L806 (T6L3)	912.16	841.43	841	841.6	842.57	843.89	845.53	844.03	844.02	843.33	844.81
04U806 (T6U4)	912.12	841.22	840.77	841.41	842.37	843.67	845.32	843.79	843.78	843.08	844.54
PJ#806 (T6PJ)	911.03	841.16	840.73	841.38	842.33	843.67	845.25	843.74	843.71	843.01	844.47
03L809 (T9L3)	914.32			843.02	843.99	845.32	846.94	845.36	845.41	844.72	846.25
03L841 (301L3)	911.91			838.99	839.85	841.05	842.59	841.13	841.42	840.53	842.13
04U841 (301U4)	913.77			840.42	841.28	842.5	844.05	842.57	842.83	841.99	843.6
03L833	908.02						845.62	844.05	844.04	843.37	845.02
04U833	908.32						845.2	843.57	843.38	842.72	844.33

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*9/4/96*	*12/2/96 - 12/6/96*	*5/28/97- 5/29/97*	*7/7/97*
On TCAAP					
03U001	891.2	844.65	845.58	845.32	
03M001	890.76	844.52	844.84	845.22	
03L001	891.37	844.35	845.32	845.09	
04U001	891.28	844.24	845.22	845.00	
03U002	919.89	846.92	846.59	846.96	
03M002	922.4	845.9	845.64	845.93	
03L002	922.21	845.83	845.58	845.87	
04U002	923.18	844.7	844.37	844.58	
03U003	945	848.96	848.10	848.67	
03M003	945.55	848.84	847.99	848.55	
03L003	946.83	848.14	847.43	847.89	
04U003	946.07	846.3	845.92	846.15	
PJ#003	946.47	845	844.92	844.92	
03U004	953	853.67	853.35	853.67	
03M004	952.55	852.46	851.98	852.30	
03L004	952.02	851.46	850.97	851.26	
03U005	973.07	854.27	853.76	854.15	
03M005	974.52	854.27	853.81	854.17	
03L005	974.08	854.32	853.85	854.22	
03U006	969.09	855.82	854.97	855.49	
03U007	902.63	856.49	856.57	856.76	
03M007	903.77	856.42	856.49	856.69	
03L007	904.41	856.04	856.16	856.29	
04U007	905.5	855.6	855.70	855.65	
03U008	917.36	860.94	862.51	862.38	
03U009	915.25	862.43	864.85	864.09	
03U010	891	862.43	864.77	864.13	
03M010	891.46	862.41	864.75	864.12	
03L010	891.76	862.24	864.58	863.96	
03U011	902.99	860.81	862.27	862.08	
03U012	882.83	856.19	857.97	857.47	
03M012	882.73	856.18	857.96	857.46	
03L012	882.63	856.16	857.92	857.42	
04U012	882.78	856.04	857.80	857.31	
03U013	893.02	848.62	849.45	849.23	
03M013	892.4	848.58	849.43	849.21	
03L013	892.6	848.44	849.29	849.06	
03U014	990.27	852.86	852.57	852.85	
03L014	991.57	855.32	854.78	855.21	
03U015	937.68	854.51	854.43	854.74	
03U016	950.05	857.08	857.00	857.29	
03U017	941.31	850.79	850.68	850.98	

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	TOC Elevation	9/4/96	12/2/96 - 12/6/96	5/28/97- 5/29/97	7/7/97
03M017	941.93	850.78	850.66	850.96	
03L017	942.07	850.74	850.64	850.93	
03U018	991.62	854.02	853.67	854.06	
03L018	991.49	853.76	853.50	853.85	
03U019	946.54	855.46	855.00	855.36	
03U020	955.7	851.27	850.89	851.26	
03M020	957.03	851.03	850.66	850.96	
03L020	956.73	851.15	850.80	851.16	
04U020	957.86	850.73	850.63	850.86	
03U021	947.3	848.96	848.52	848.95	
03L021	946.74	848.49	848.10	848.46	
03U022	901.88	858.06	859.03	858.96	
03U023	901.51	857.3	858.76	858.42	
03U024	896.99	856.73	857.44	857.42	
03U025	889.07	854.48	855.23	855.15	
03U027	968.8	851.6	851.11	851.51	
03L027	969.42	851.48	851.02	851.40	
04U027	969.49	849.72	849.44	849.64	
PJ#027	970.05	849.63	849.38	849.64	
03U028	959.76	850.92	850.26	850.78	
03L028	958.93	850.82	850.21	850.71	
03U029	957.27	850.24	848.84	849.20	
03L029	956.95	849.77	849.06	849.60	
03U030	961.42	852.4	851.82	852.28	
03U031	900.94	851.84	851.94	852.13	
03U032	1006.57	855.64	855.59	855.84	
03U075	887.03	847.74	848.48	848.28	
03U076	891.41	846.05	846.87	846.61	
03U077	914.94	845.19	845.14	845.36	
03L077	914.88	843.31	843.26	843.38	
04U077	914.57	843.36	843.29	843.44	
04J077	914.6	840.14	840.14	840.18	
03U078	929.85	846.64	845.62	846.68	
03L078	930.18	846.17	845.66	846.11	
03U079	925.99	845.65	844.88	845.66	
03L079	926.29	846.27	845.59	846.10	
03L080	963.45	852.48	852.03	852.38	
03L081	948.96	854.75	854.49	854.72	
03U082	901	860.13	861.49	861.32	
03U083	893.9	854.49	854.87	854.95	
03U084	900.98	845.49	845.53	845.58	
03L084	900.58	845.55	845.56	845.63	
03U087	1006.79	855.94	855.84	856.13	

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*9/4/96*	*12/2/96 - 12/6/96*	*5/28/97- 5/29/97*	*7/7/97*
03U088	986.36	856.35	856.32	856.59	
03U089	975.3	856.3	856.28	856.54	
03U090	984.92	855.05	854.68	855.04	
03U092	963.3	854.08	853.63	854.05	
03U093	996.01	854.05	853.72	854.09	
03U094	999.64	854.32	853.77	854.19	
03U096	997.02	853.98	853.84	854.12	
03U111	927.69	860.87	861.45	861.75	
03U112	980.8	835.51	855.08	855.44	
03U113	976.83	855.88	855.59	855.90	
03L113	977.15	855.67	855.52	855.75	
03U301 (SC1)	957.41	850.21	839.31	838.61	
03F302 (B1)	929.86	838.86	838.56	839.56	
03F303 (B2)	925.04	825.94	826.44	832.44	
03F304 (B3)	920.09	843.69	843.29	843.69	
03F305 (B4)	915.75	838.95	838.95	839.35	
03F306 (B5)	919.13	834.83	834.83	833.93	
03F307 (B6)	913.46	794.96	793.66	784.66	
03F308 (B7)	900.79	obstruction	821.59	817.69	
PJ#309 (B8)	914.35	841.55	841.35	841.55	
PJ#310 (B9)	915.8	838	838.10	838.20	
PJ#311 (B10)	905.97	818.97	838.27	839.57	
03F312 (B11)	944.24	841.34	840.20	839.84	
PJ#313 (B12)	895.63	839.73	844.43	844.33	
03U314 (SC2)	978.02	837.72	844.42	847.06	
03U315 (SC3)	965.27	834.47	833.97	833.77	
03U316 (SC4)	957.13	839.43	851.73	852.03	
03U317 (SC5)	952.62	843.22	845.32	841.24	
04U510	911.19	861.74	863.81	863.26	
OW543U3	958.99	851.15	850.47	850.91	
03U647	962.25	851.92	851.30	851.79	
03U648	963.14	852.14	851.55	852.02	
03U658	966.24	852.85	852.38	852.69	
03U659	958.62	850.79	849.95	850.48	
03U671	933.13	847.95	847.22	847.90	
03U674	957.21	850.12	848.86	849.29	
03U701	911.1	844.63	844.64	844.69	
04U701	911.24	842.36	842.37	842.50	
03U702	910.53	844.18	844.23	844.24	
04U702	910.44	843.35	843.36	843.48	
04J702	910.51	842.72	842.74	842.87	
03U703	921.25	846.04	845.09	846.05	
03U704	978.47	857.5	857.62	857.82	

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*9/4/96*	*12/2/96 - 12/6/96*	*5/28/97- 5/29/97*	*7/7/97*
03U705	1049.55	857.8	858.13	858.28	
03U706	920.63	857.43	857.96	857.98	
03U707	918.28	857.77	858.53	858.50	
03U708	921.97	847.21	846.59	847.23	
04U708	921.66	845.24	844.98	845.26	
04J708	922.04	844.24	844.04	844.23	
03U709	912.63	845.98	845.75	846.06	
04U709	912.52	843.93	843.72	843.91	
03U710	946.76	847.66	846.84	847.48	
03U711	908.81	845.2	845.18	845.27	
04U711	908.73	843.65	843.82	843.70	
03M713	898.41	843.22	843.89	843.75	
04U713	897.73	845.6	845.58	845.83	
04J713	898.38	842.35	843.68	843.75	
04U714	893.89	843.87	844.99	844.80	
04J714	894.19	843.69	844.99	844.85	
03U715	963.59	853.04	852.59	853.03	
03U716	952.1	851.6	851.52	851.87	
E101MW	970.12		856.42	857.24	
E102MW	981.54		856.67	856.90	
E103MW	971.61		857.35	857.50	
Staff Gauges					
S.G. #1	860.42				
S.G. #2	862.84				
S.G. #3	865.29				
S.G. #1a	871.73	868.65	869.83	870.05	
S.G. #2a	872.02	868.65	870.42	869.19	
S.G. #3a	871.71	868.65		869.85	
Off TCAAP					
409550(PCA6U3)	914.4	842.19	842.42	842.38	
03U672 (PD2U3)	923.72	849.99	849.50	849.73	
03U673 (PD3U3)	897.84		842.16	842.39	
03L673 (PD3L3)	898.44		840.99	841.06	
04U673 (PD3U4)	898.34		841.13	841.21	
03U801 (T1U3)	914.82	846.04	obstruction	obstruction	846.48
03M802 (T2M3)	907.38	846.67	846.16	846.36	
03L802 (T2L3)	907.93	846.38	846.01	846.04	
04U802 (T2U4)	905.95	845.8	obstruction	obstruction	845.95
PJ#802 (T2PJ)	905.07	obstruction	obstruction	obstruction	845.97
03U803 (T3U3)	900.89	844.99		844.91	
03U804 (T4U3)	913.02	845.25	845.16	845.28	

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
TGRS, TCAAP

Location	*TOC Elevation*	*9/4/96*	*12/2/96 - 12/6/96*	*5/28/97- 5/29/97*	*7/7/97*
03U805 (T5U3)	908.23	843.51	843.72	843.61	
03U806 (T6U3)	911.96	843.85			
03M806 (T6M3)	911.87	843.06	843.36	843.19	
03L806 (T6L3)	912.16	843.03	843.33	843.14	
04U806 (T6U4)	912.12	842.8	843.13	842.91	
PJ#806 (T6PJ)	911.03	842.7	843.07	842.87	
03L809 (T9L3)	914.32	844.37		844.55	
03L841 (301L3)	911.91		840.31	840.34	
04U841 (301U4)	913.77		840.48	840.42	
03L833	908.02	843.15	843.59	843.30	
04U833	908.32	842.45	842.90	842.67	

APPENDIX K

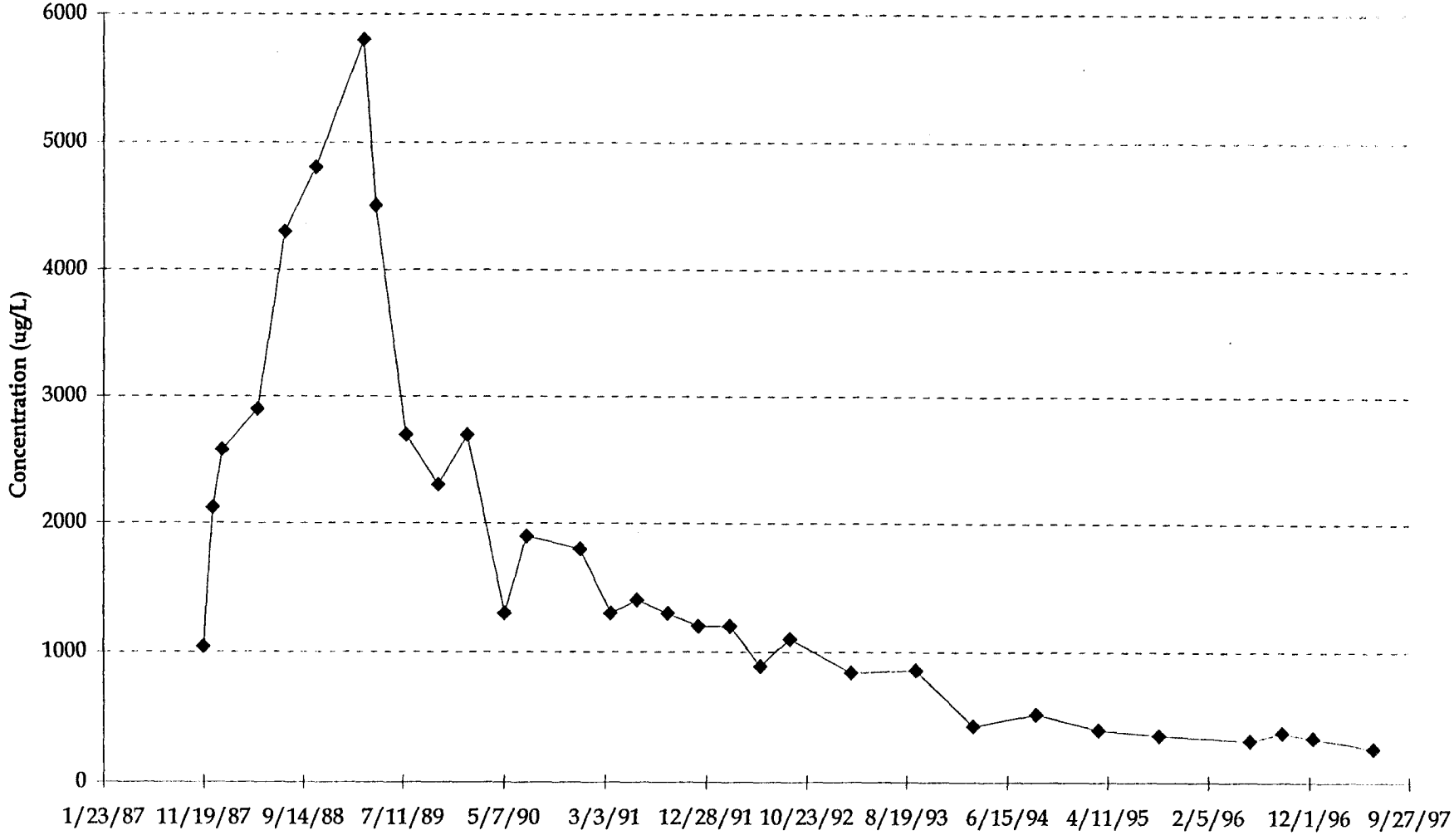
Appendix K

TGRS Chemical Data

K.1 Extraction Well B1 - TRCLE vs. Time

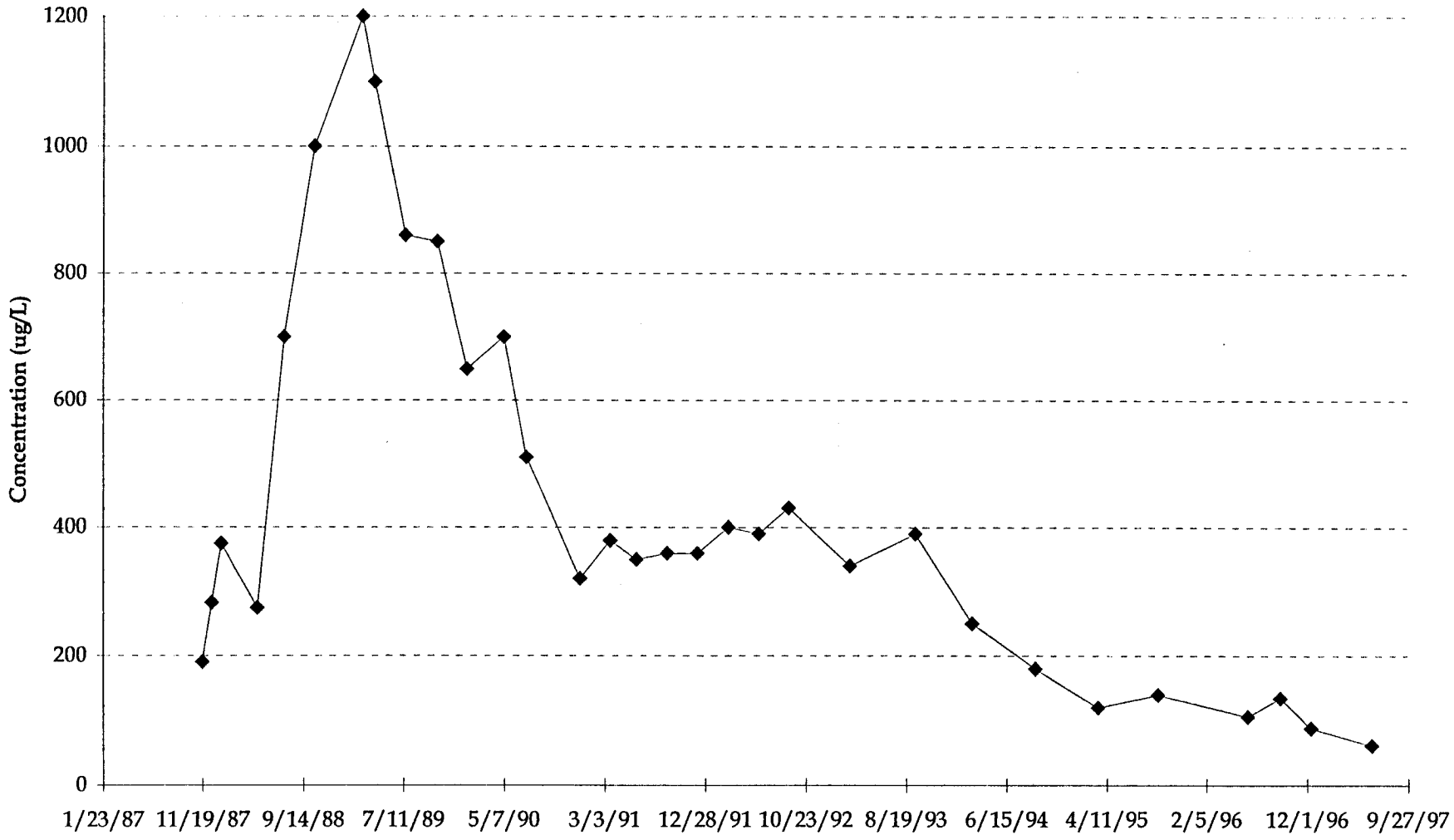
APPENDIX K.1

EXTRACTION WELL B1 - TRCLE VS.TIME

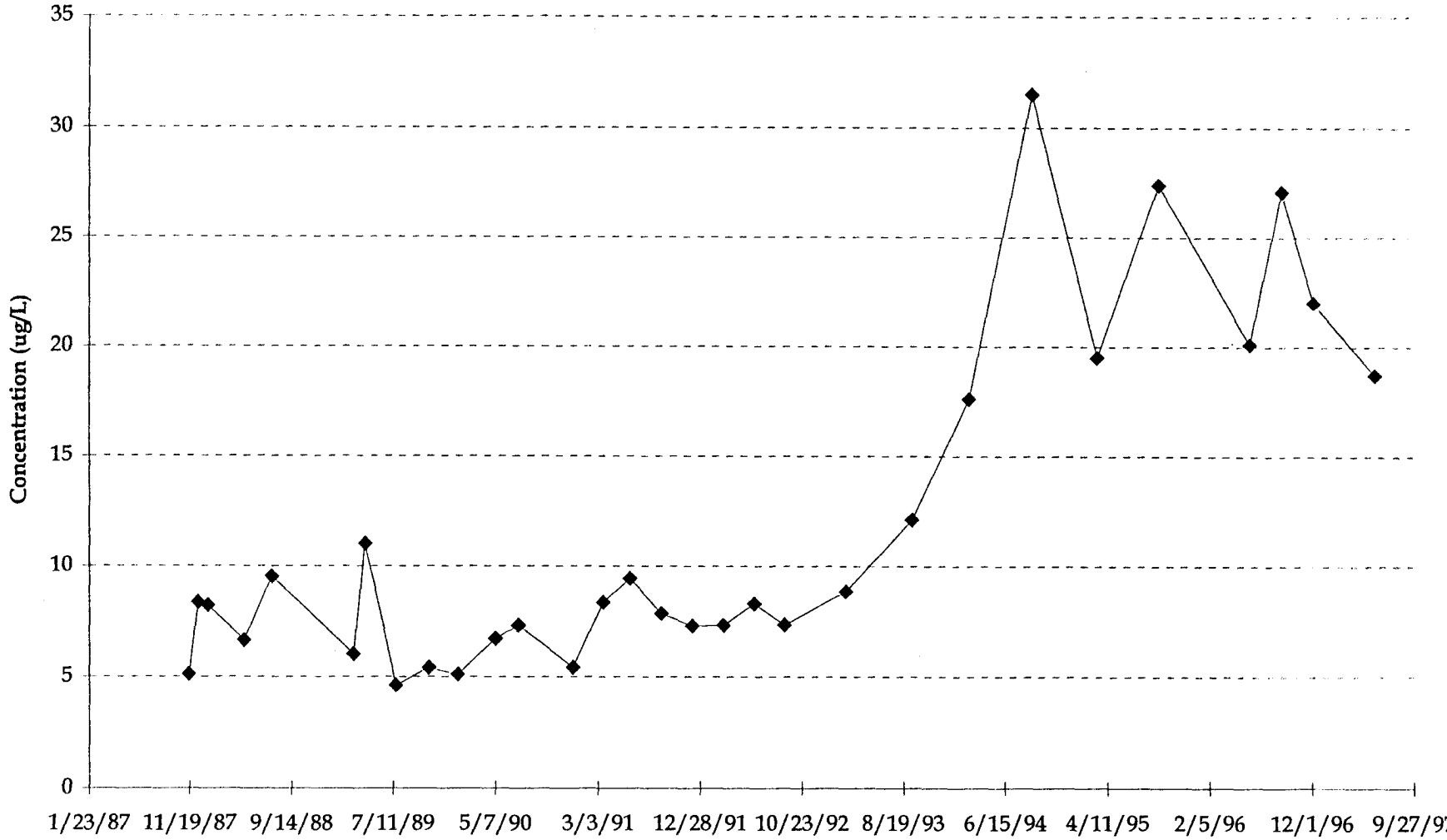


APPENDIX K.1

EXTRACTION WELL B2 - TRCLE VS. TIME

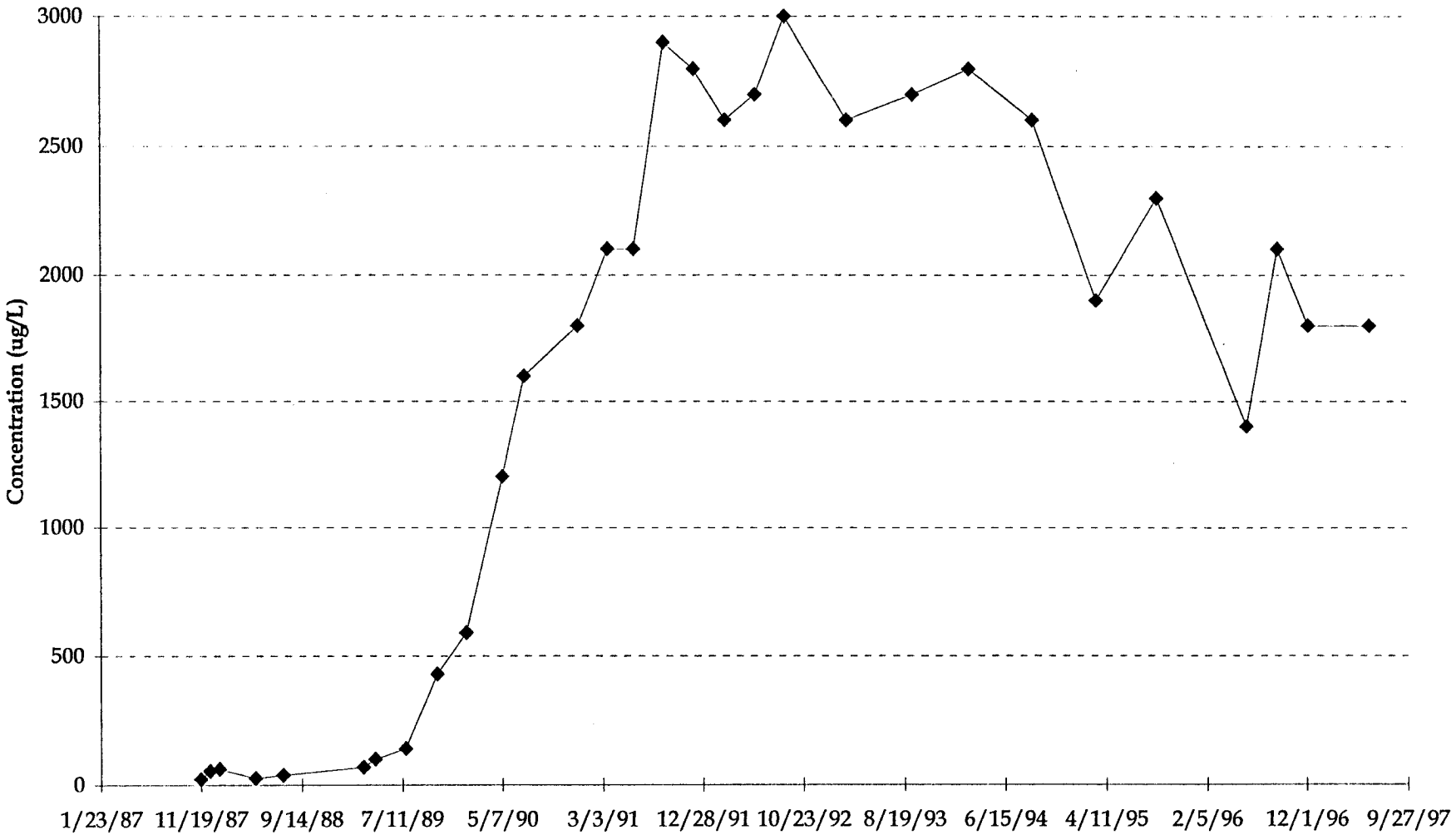


EXTRACTION WELL B3 - TRCLE VS. TIME

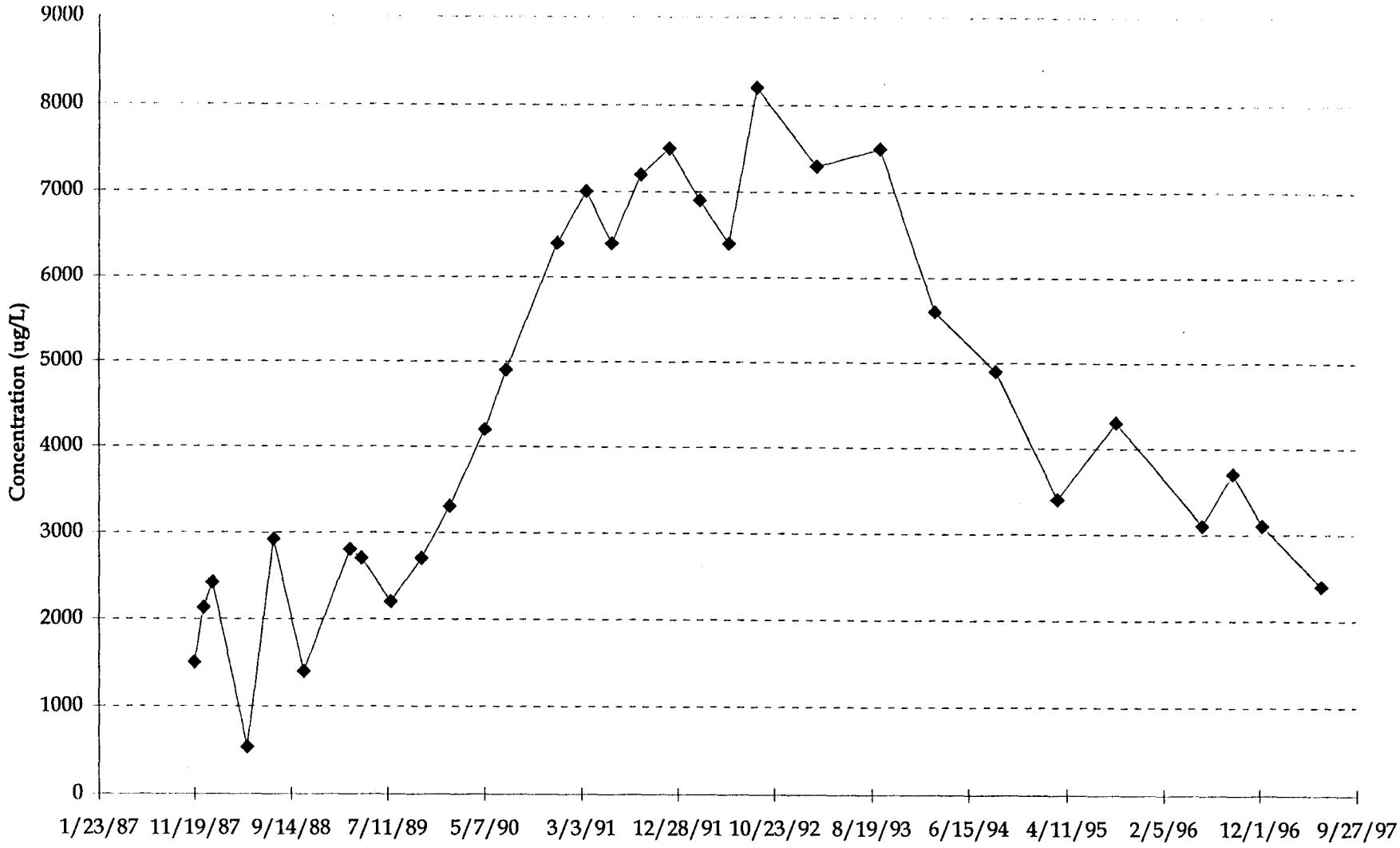


APPENDIX K.1

EXTRACTION WELL B4 - TRCLE VS. TIME



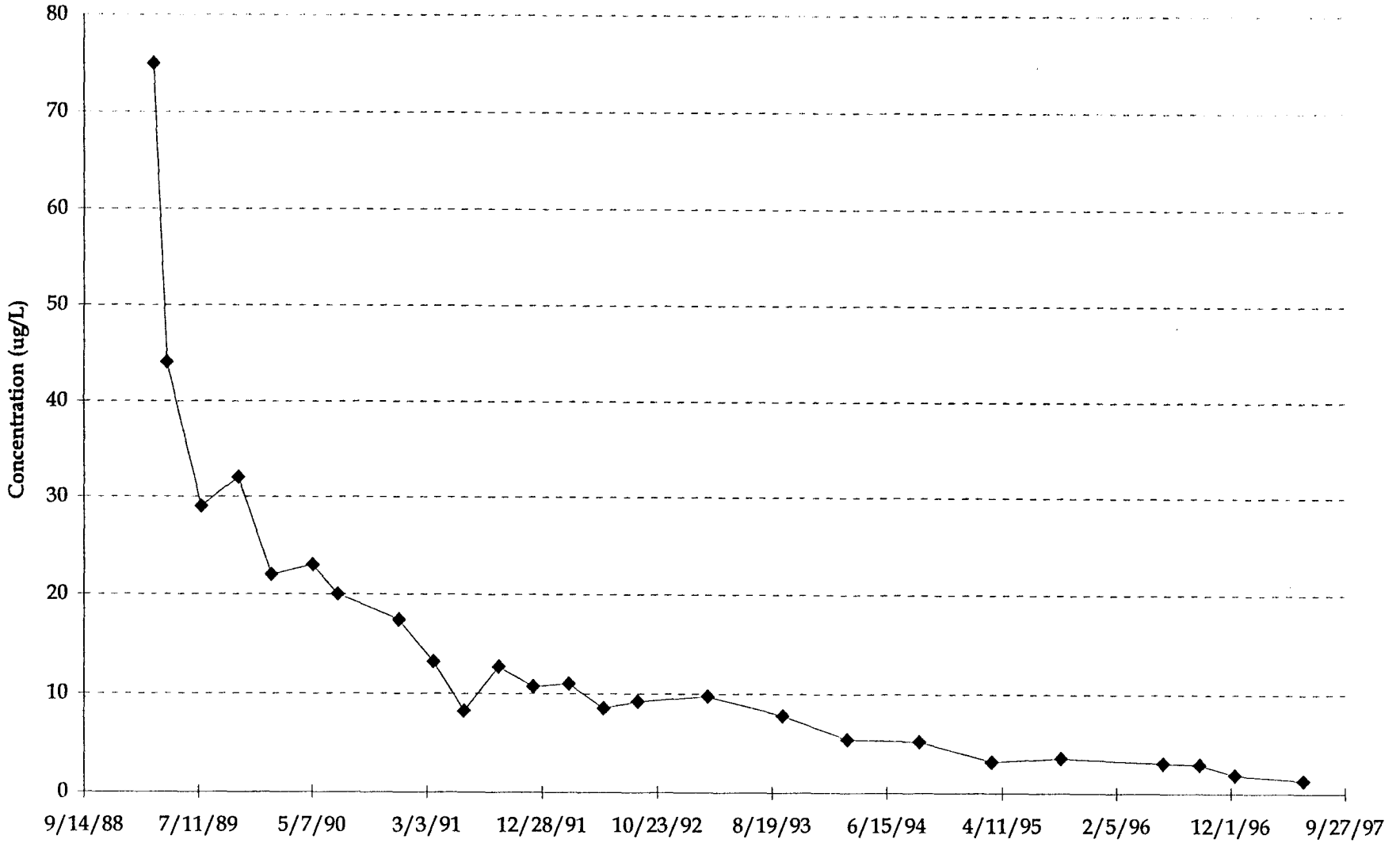
EXTRACTION WELL B5 - TRCLE VS. TIME



APPENDIX K.1

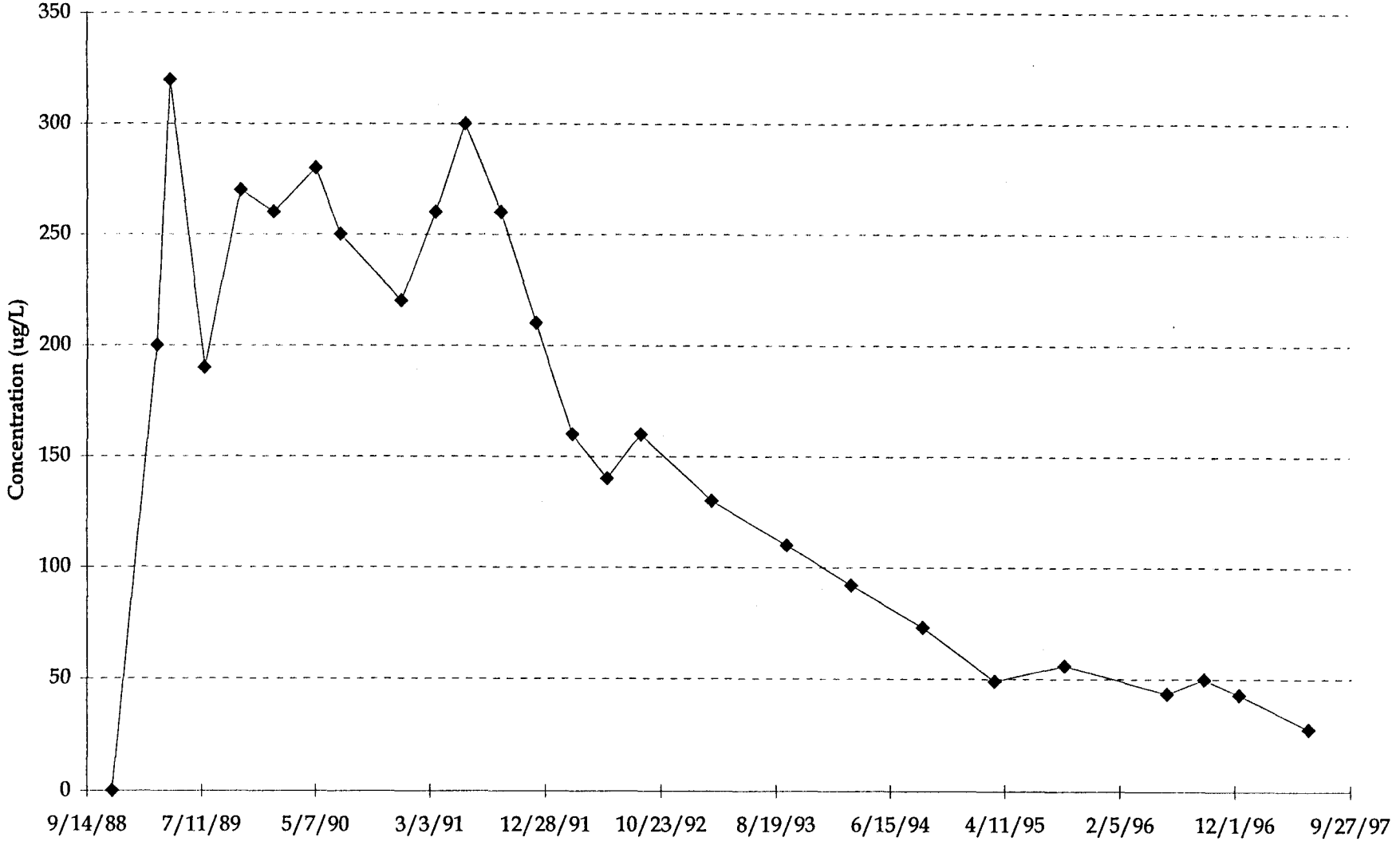
EXTRACTION WELL B6 - TRCLE VS. TIME

EXTRACTION WELL B7 - TRCLE VS. TIME

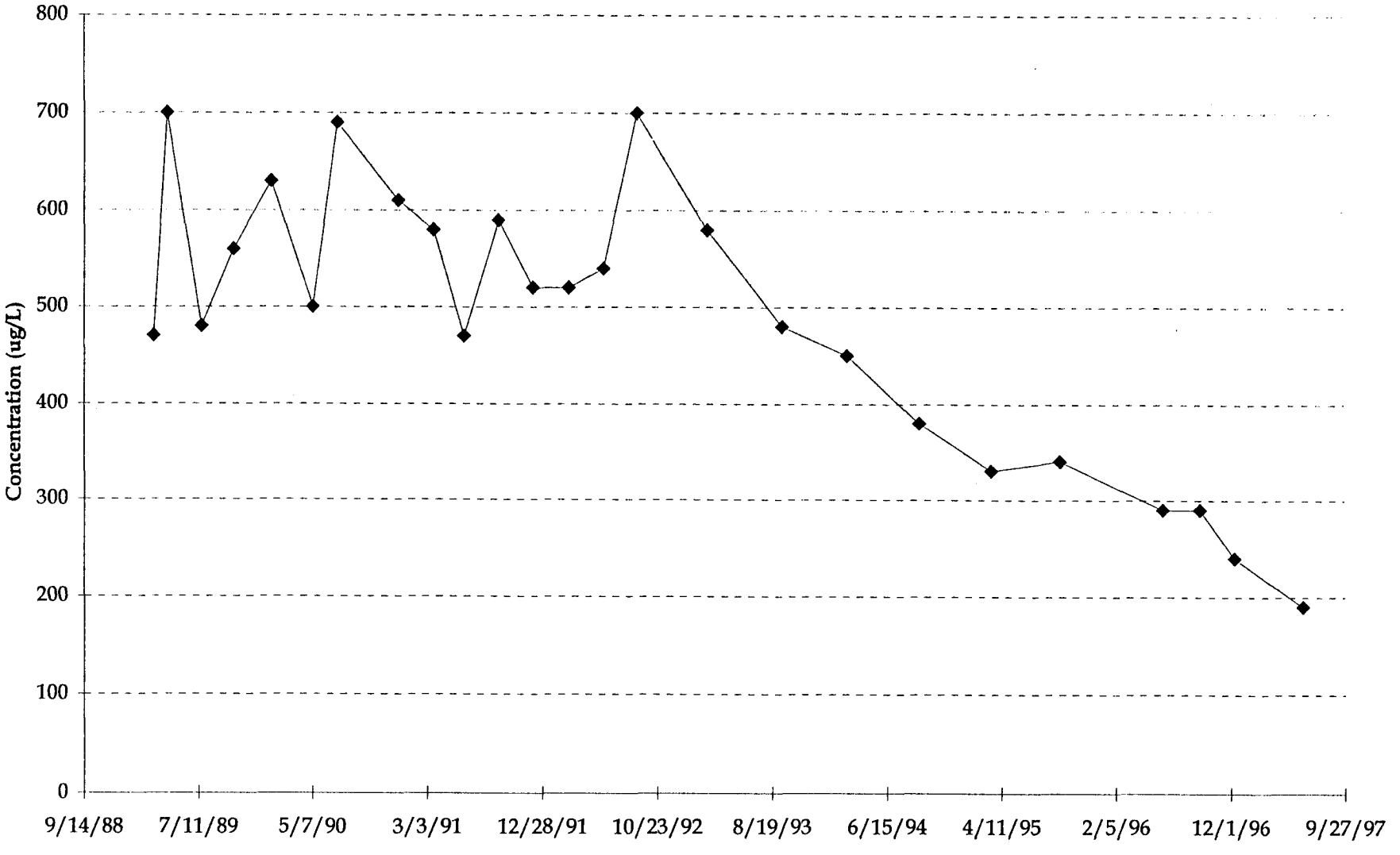


APPENDIX K.1

EXTRACTION WELL B8 - TRCLE VS. TIME

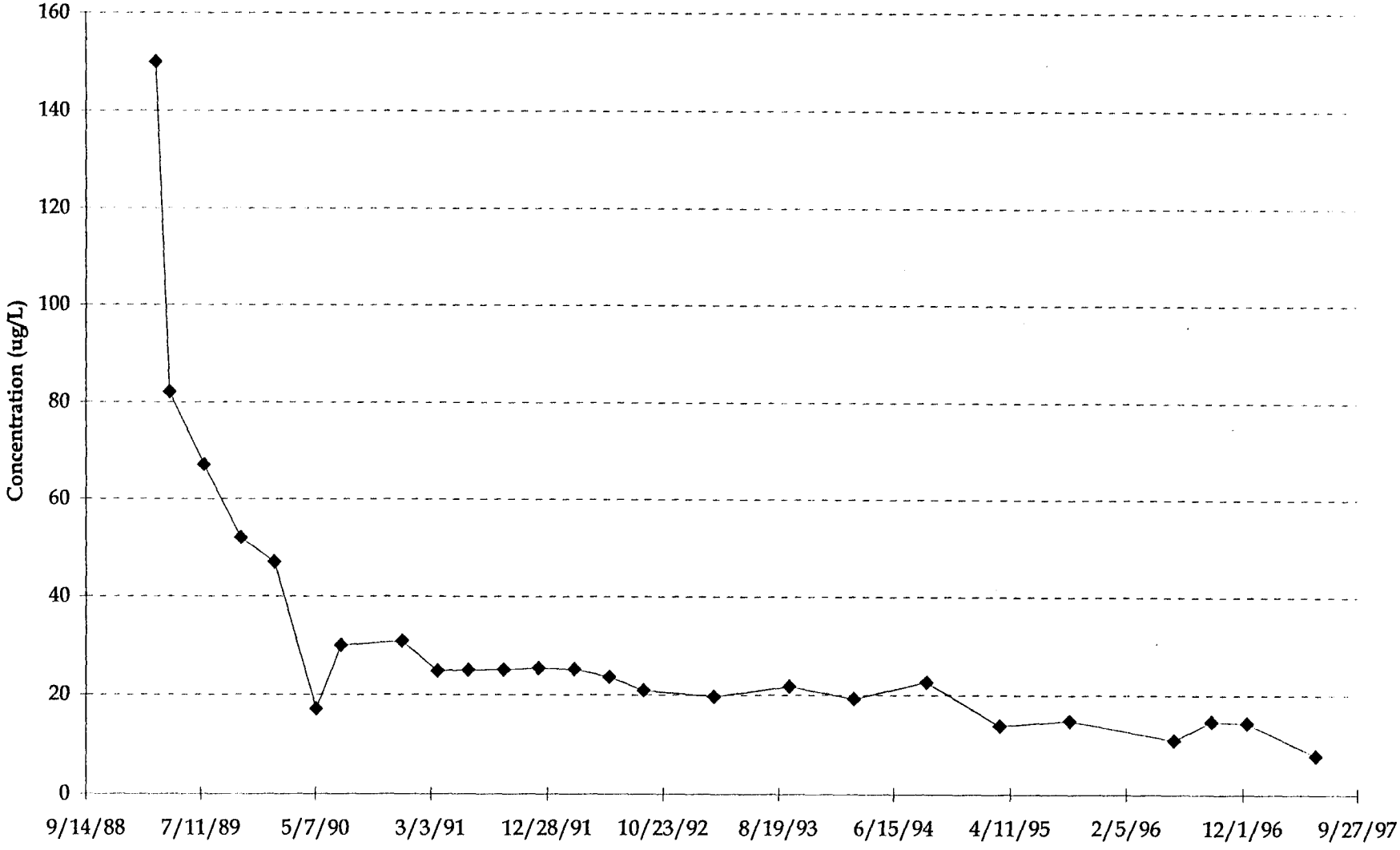


EXTRACTION WELL B9 - TRCLE VS. TIME



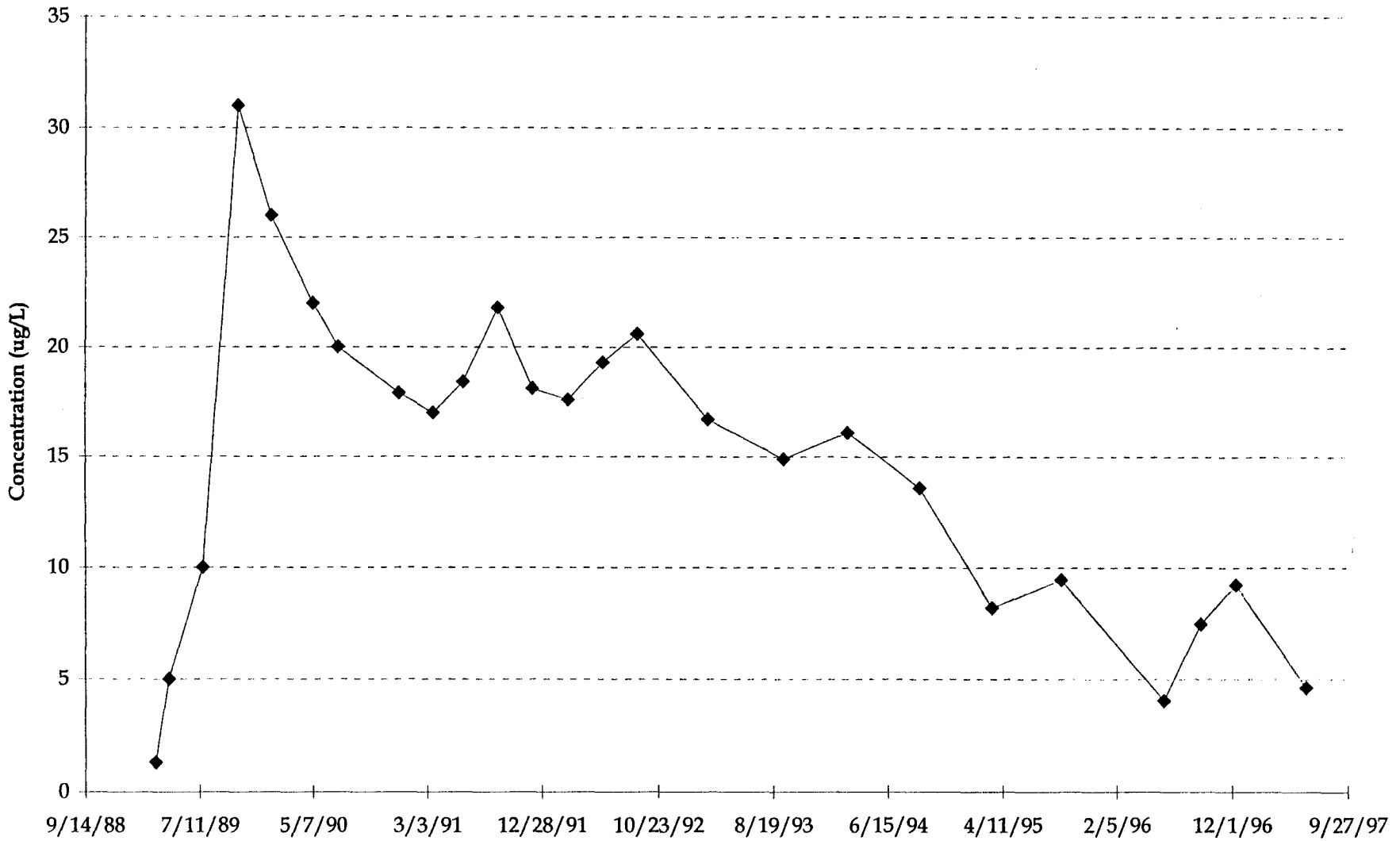
APPENDIX K.1

EXTRACTION WELL B10 - TRCLE VS. TIME



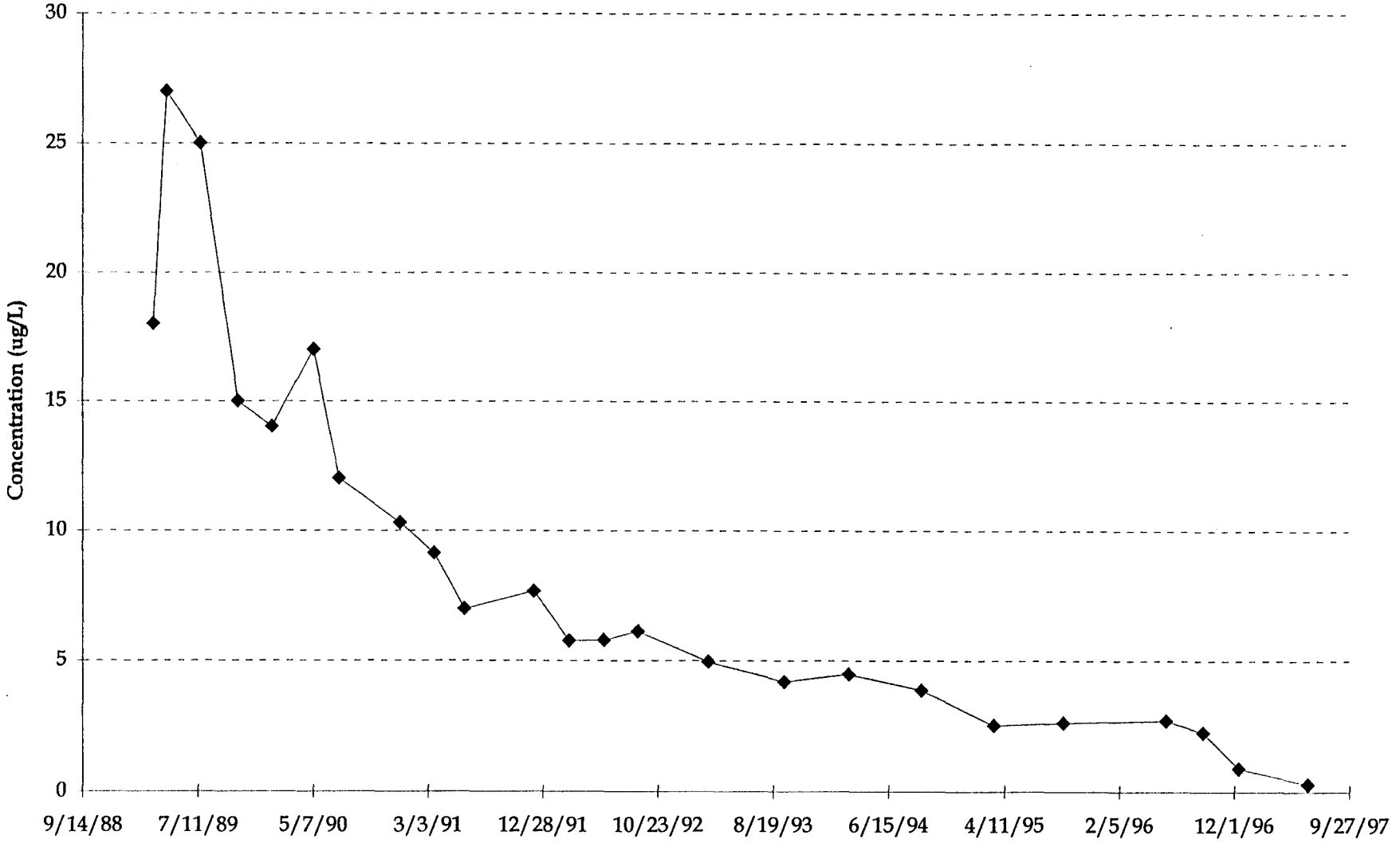
APPENDIX K.1

EXTRACTION WELL B11 - TRCLE VS. TIME

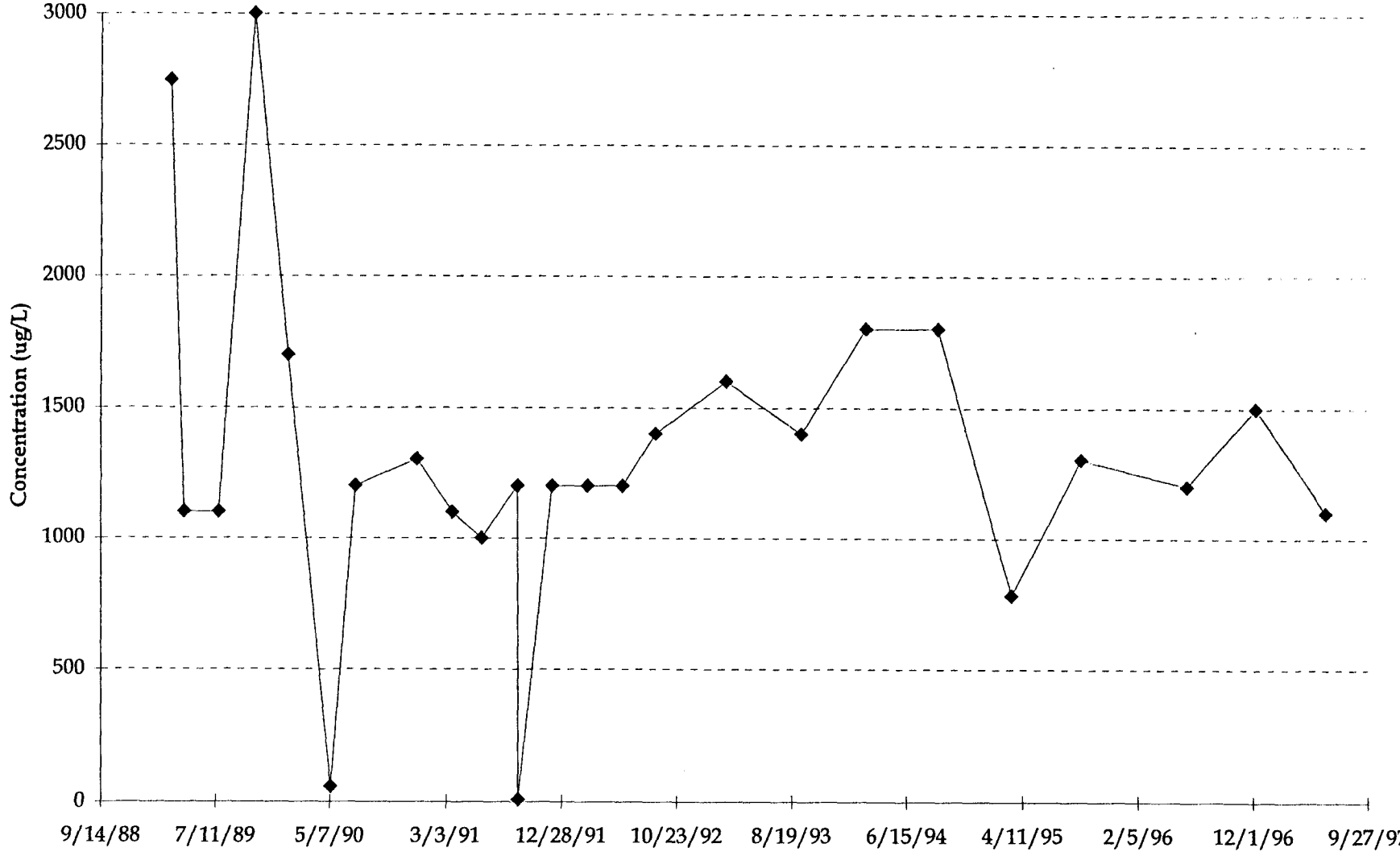


APPENDIX K.1

EXTRACTION WELL B12 - TRCLE VS. TIME

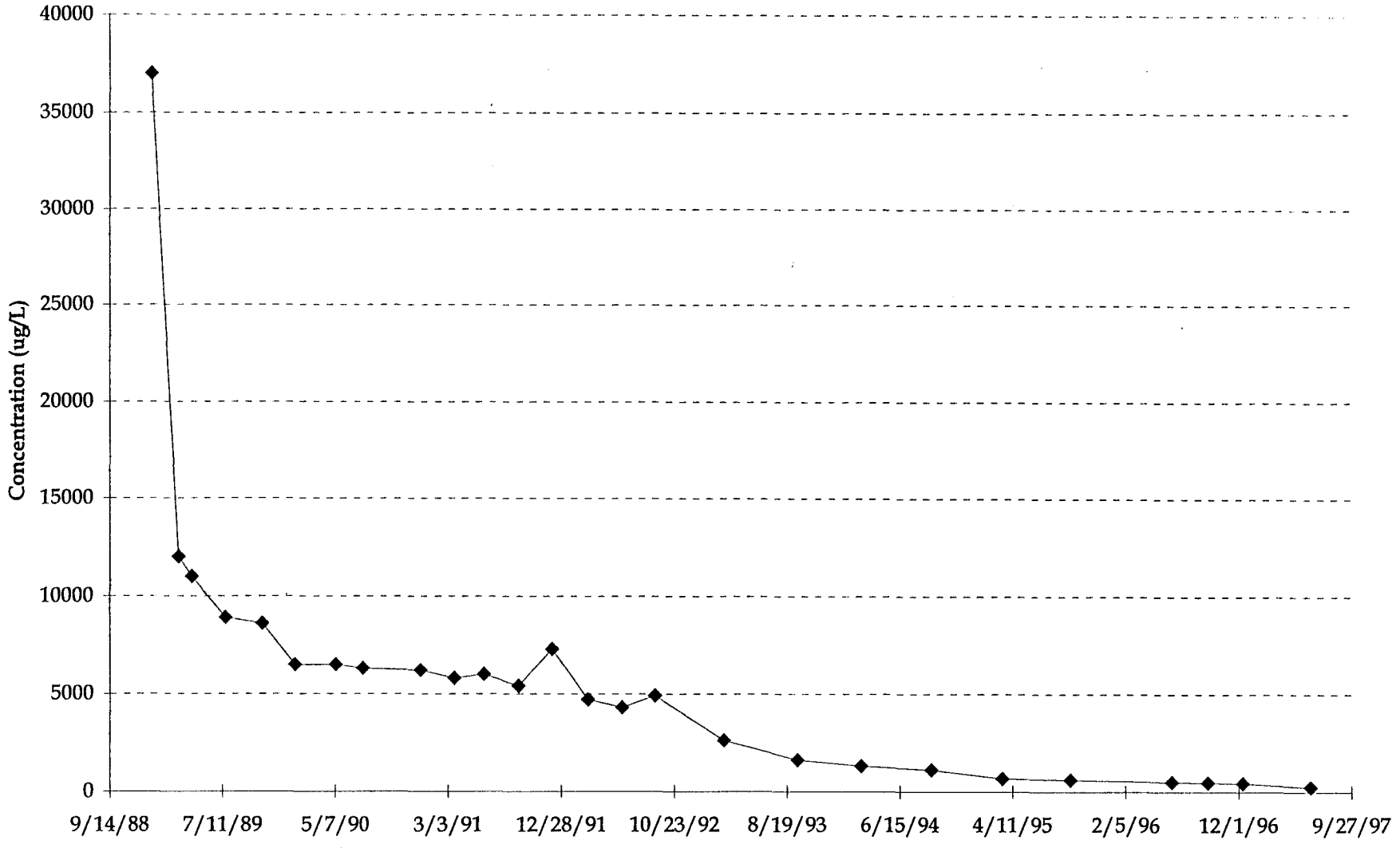


EXTRACTION WELL SC1 - TRCLE VS. TIME



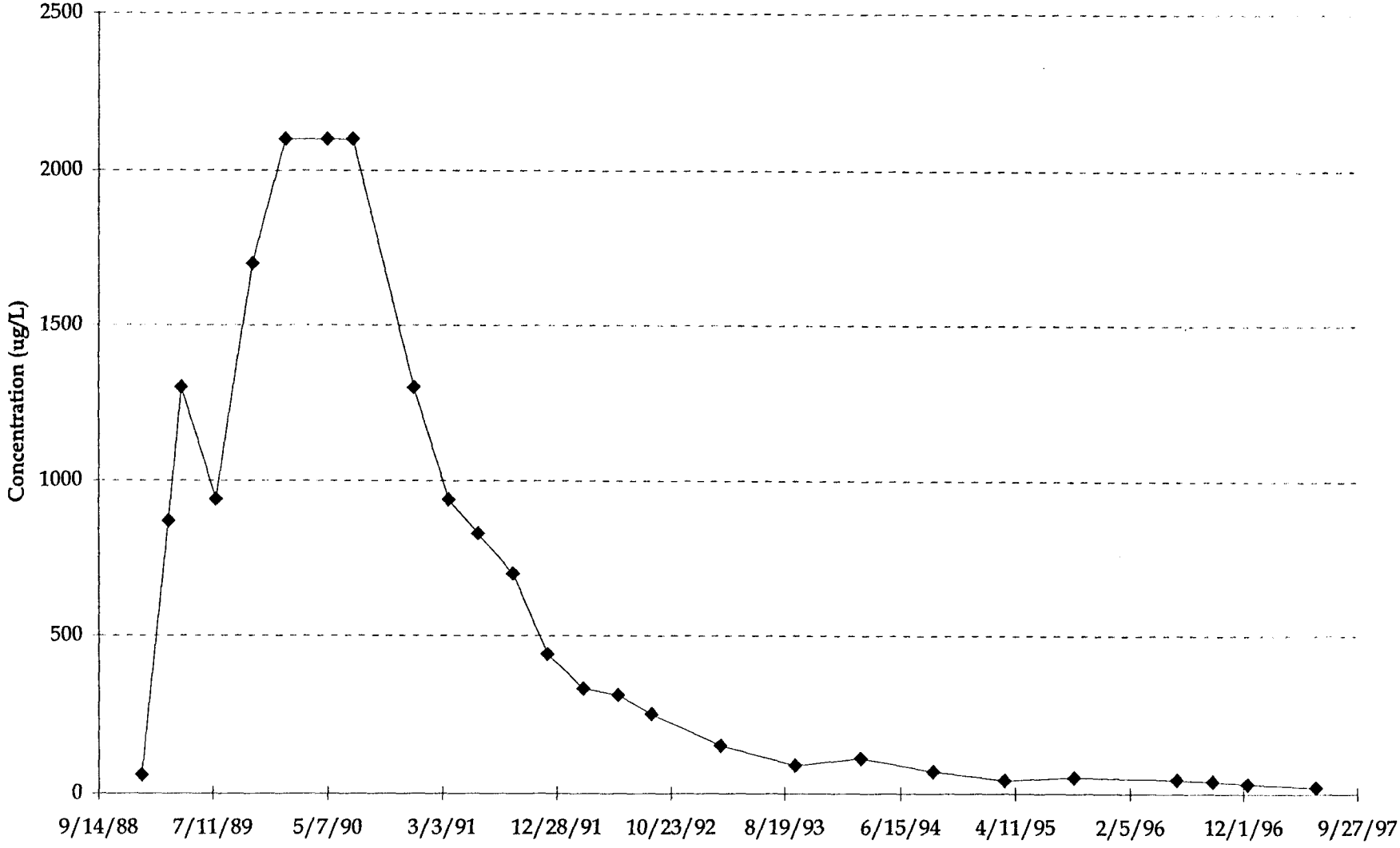
APPENDIX K.1

EXTRACTION WELLSC2 - TRCLE VS. TIME



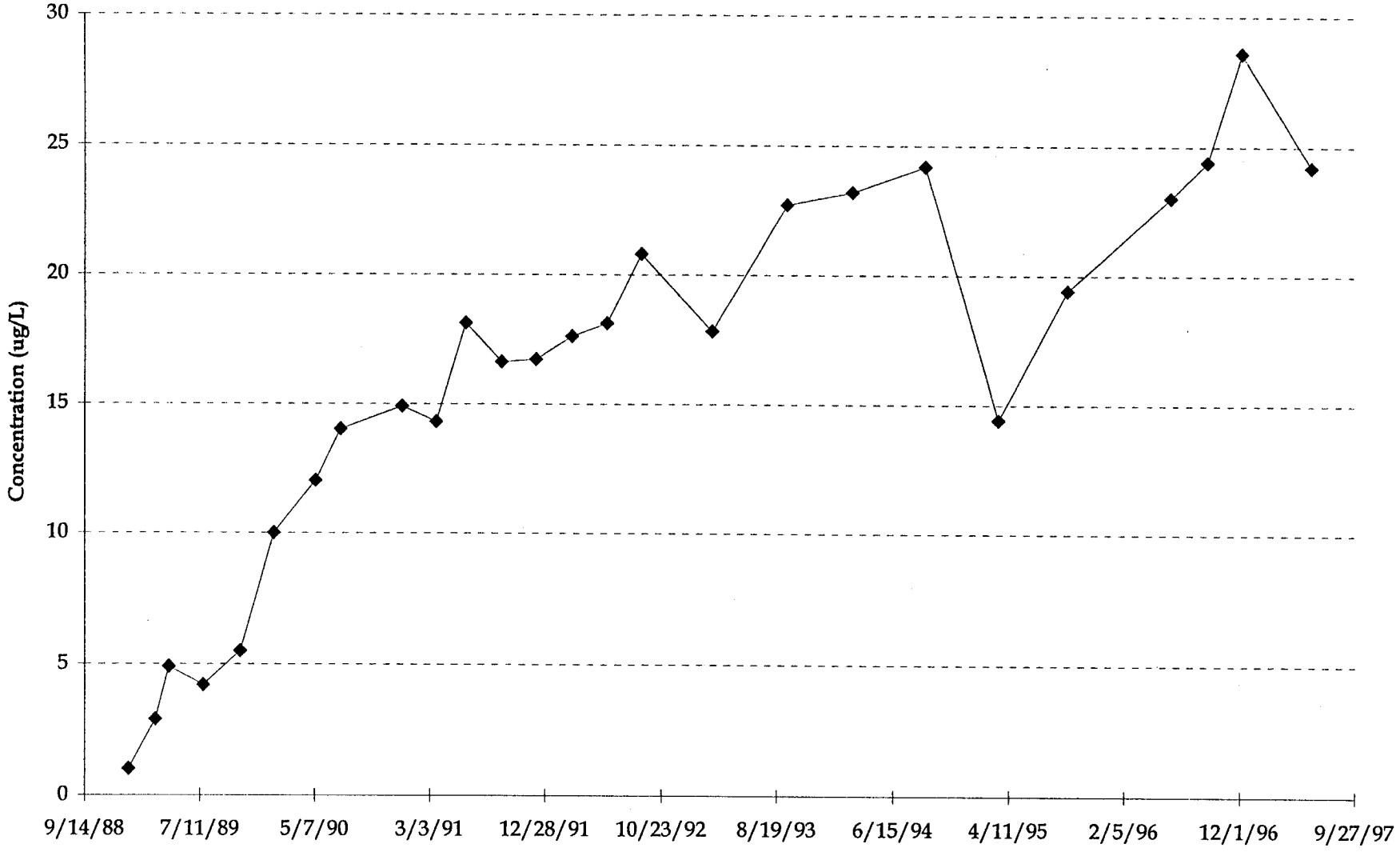
APPENDIX K.1

EXTRACTION WELL SC3 - TRCLE VS. TIME



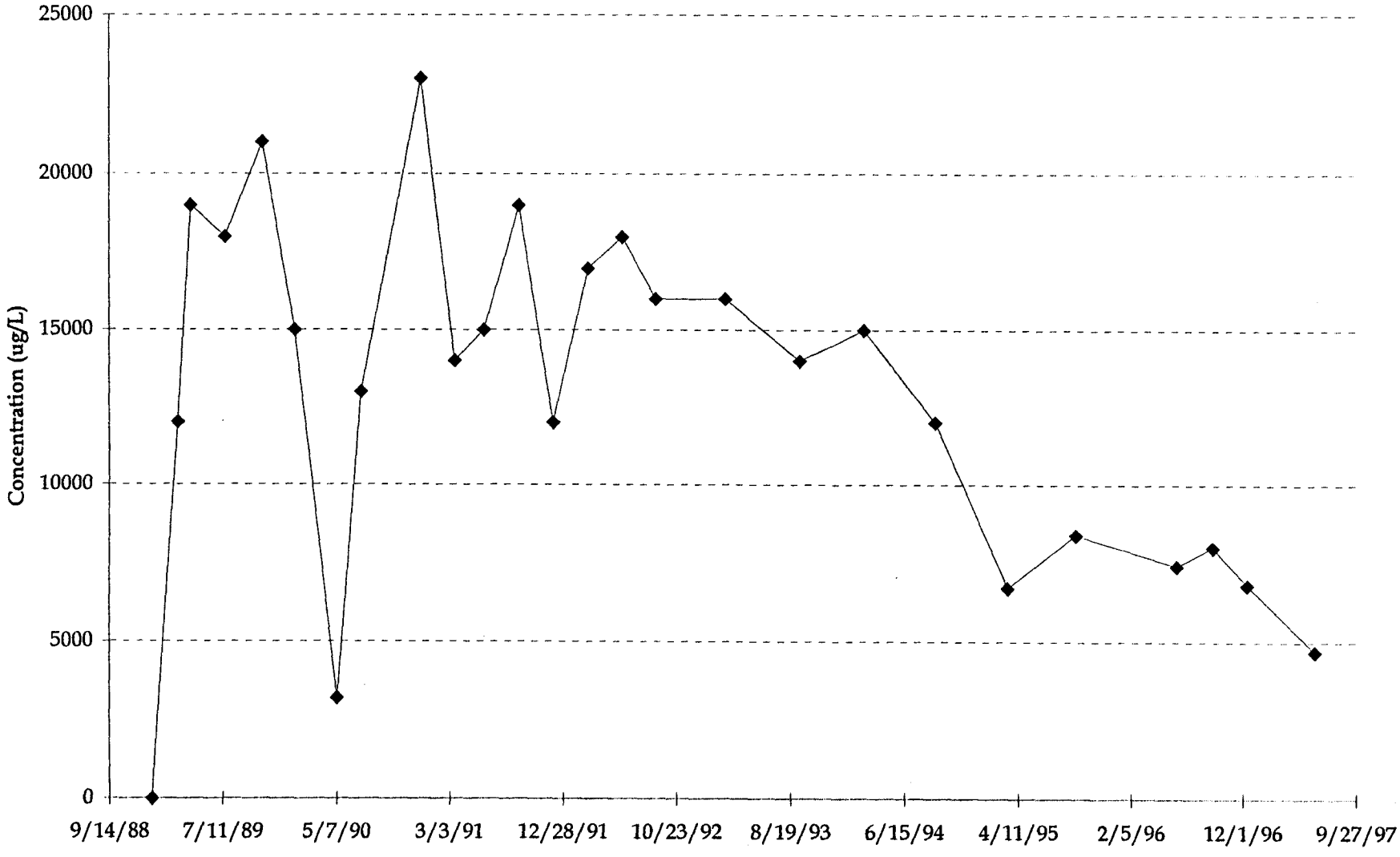
APPENDIX K.1

EXTRACTION WELL SC4 - TRCLE VS. TIME



APPENDIX K.1

EXTRACTION WELL SC5 - TRCLE VS. TIME



K.2 Fiscal Year 1997 Influent/Effluent Database
TGRS, TCAAP

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration	Flag Codes/ Data Qualifiers
TGRSE	10/11/96	111TCE	AZTA 006	< 0.76	
TGRSE	10/11/96	111TCE	AZTA 007	< 0.76	D
TGRSE	11/11/96	111TCE	BAHN 009	< 0.76	
TGRSE	11/11/96	111TCE	BAHN 010	< 0.76	D
TGRSE	12/3/96	111TCE	BAQE 006	< 0.76	
TGRSE	12/3/96	111TCE	BAQE 007	< 0.76	D
TGRSE	1/7/97	111TCE	BBCI 006	< 0.76	
TGRSE	1/7/97	111TCE	BBCI 007	< 0.76	D
TGRSE	2/4/97	111TCE	BBND 006	< 0.76	D
TGRSE	2/4/97	111TCE	BBND 005	< 0.76	
TGRSE	3/3/97	111TCE	BBSG 006	< 0.76	
TGRSE	3/3/97	111TCE	BBSG 007	< 0.76	D
TGRSE	4/1/97	111TCE	BCPP 006	< 0.76	
TGRSE	4/1/97	111TCE	BCPP 007	< 0.76	D
TGRSE	5/6/97	111TCE	BDKL 005	< 0.76	V
TGRSE	5/6/97	111TCE	BDKL 006	< 0.76	DV
TGRSE	6/3/97	111TCE	BFCT 002	< 1	
TGRSE	6/3/97	111TCE	BFCT 003	< 1	D
TGRSE	7/1/97	111TCE	BFXL 008	< 0.76	
TGRSE	7/1/97	111TCE	BFXL 009	< 0.76	D
TGRSE	9/2/97	111TCE	BGQT 008	< 0.76	
TGRSE	9/2/97	111TCE	BGQT 009	< 0.76	D
TGRSE	10/11/96	112TCE	AZTA 006	< 0.78	
TGRSE	10/11/96	112TCE	AZTA 007	< 0.78	D
TGRSE	11/11/96	112TCE	BAHN 009	< 0.78	
TGRSE	11/11/96	112TCE	BAHN 010	< 0.78	D
TGRSE	12/3/96	112TCE	BAQE 006	< 0.78	
TGRSE	12/3/96	112TCE	BAQE 007	< 0.78	D
TGRSE	1/7/97	112TCE	BBCI 006	< 0.78	
TGRSE	1/7/97	112TCE	BBCI 007	< 0.78	D
TGRSE	2/4/97	112TCE	BBND 006	< 0.78	D
TGRSE	2/4/97	112TCE	BBND 005	< 0.78	
TGRSE	3/3/97	112TCE	BBSG 006	< 0.78	
TGRSE	3/3/97	112TCE	BBSG 007	< 0.78	D
TGRSE	4/1/97	112TCE	BCPP 006	< 0.78	
TGRSE	4/1/97	112TCE	BCPP 007	< 0.78	D
TGRSE	5/6/97	112TCE	BDKL 005	< 0.78	V
TGRSE	5/6/97	112TCE	BDKL 006	< 0.78	DV
TGRSE	6/3/97	112TCE	BFCT 002	< 1	
TGRSE	6/3/97	112TCE	BFCT 003	< 1	D
TGRSE	7/1/97	112TCE	BFXL 008	< 0.78	
TGRSE	7/1/97	112TCE	BFXL 009	< 0.78	D

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration	Flag Codes/ Data Qualifiers
TGRSE	9/2/97	112TCE	BGQT 008	< 0.78	
TGRSE	9/2/97	112TCE	BGQT 009	< 0.78	D
TGRSE	10/11/96	11DCE	AZTA 006	< 1.7	
TGRSE	10/11/96	11DCE	AZTA 007	< 1.7	D
TGRSE	11/11/96	11DCE	BAHN 009	< 1.7	
TGRSE	11/11/96	11DCE	BAHN 010	< 1.7	D
TGRSE	12/3/96	11DCE	BAQE 006	< 1.7	
TGRSE	12/3/96	11DCE	BAQE 007	< 1.7	D
TGRSE	1/7/97	11DCE	BBCI 006	< 1.7	
TGRSE	1/7/97	11DCE	BBCI 007	< 1.7	D
TGRSE	2/4/97	11DCE	BBND 006	< 1.7	D
TGRSE	2/4/97	11DCE	BBND 005	< 1.7	
TGRSE	3/3/97	11DCE	BBSG 006	< 1.7	E
TGRSE	3/3/97	11DCE	BBSG 007	< 1.7	DE
TGRSE	4/1/97	11DCE	BCPP 006	< 1.7	
TGRSE	4/1/97	11DCE	BCPP 007	< 1.7	D
TGRSE	5/6/97	11DCE	BDKL 005	< 1.7	V
TGRSE	5/6/97	11DCE	BDKL 006	< 1.7	DV
TGRSE	6/3/97	11DCE	BFCT 002	< 1	
TGRSE	6/3/97	11DCE	BFCT 003	< 1	D
TGRSE	7/1/97	11DCE	BFXL 008	< 1.7	
TGRSE	7/1/97	11DCE	BFXL 009	< 1.7	D
TGRSE	9/2/97	11DCE	BGQT 008	< 1.7	
TGRSE	9/2/97	11DCE	BGQT 009	< 1.7	D
TGRSE	10/11/96	11DCLE	AZTA 006	< 0.73	
TGRSE	10/11/96	11DCLE	AZTA 007	< 0.73	D
TGRSE	11/11/96	11DCLE	BAHN 009	< 0.73	
TGRSE	11/11/96	11DCLE	BAHN 010	< 0.73	D
TGRSE	12/3/96	11DCLE	BAQE 006	< 0.73	
TGRSE	12/3/96	11DCLE	BAQE 007	< 0.73	D
TGRSE	1/7/97	11DCLE	BBCI 006	< 0.73	
TGRSE	1/7/97	11DCLE	BBCI 007	< 0.73	D
TGRSE	2/4/97	11DCLE	BBND 006	< 0.73	D
TGRSE	2/4/97	11DCLE	BBND 005	< 0.73	
TGRSE	3/3/97	11DCLE	BBSG 006	< 0.73	
TGRSE	3/3/97	11DCLE	BBSG 007	< 0.73	D
TGRSE	4/1/97	11DCLE	BCPP 006	< 0.73	
TGRSE	4/1/97	11DCLE	BCPP 007	< 0.73	D
TGRSE	5/6/97	11DCLE	BDKL 005	< 0.73	V
TGRSE	5/6/97	11DCLE	BDKL 006	< 0.73	DV
TGRSE	6/3/97	11DCLE	BFCT 002	< 1	
TGRSE	6/3/97	11DCLE	BFCT 003	< 1	D

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration	Flag Codes/ Data Qualifiers
TGRSE	7/1/97	11DCLE	BFXL 008	< 0.73	
TGRSE	7/1/97	11DCLE	BFXL 009	< 0.73	D
TGRSE	9/2/97	11DCLE	BGQT 008	< 0.73	
TGRSE	9/2/97	11DCLE	BGQT 009	< 0.73	D
TGRSE	6/3/97	124TCB	BFBT 002	< 2.4	
TGRSE	10/11/96	12DCE	AZTA 006	< 0.76	
TGRSE	10/11/96	12DCE	AZTA 007	< 0.76	D
TGRSE	11/11/96	12DCE	BAHN 009	< 0.76	
TGRSE	11/11/96	12DCE	BAHN 010	< 0.76	D
TGRSE	12/3/96	12DCE	BAQE 006	< 0.76	
TGRSE	12/3/96	12DCE	BAQE 007	< 0.76	D
TGRSE	1/7/97	12DCE	BBCI 006	< 0.76	
TGRSE	1/7/97	12DCE	BBCI 007	< 0.76	D
TGRSE	2/4/97	12DCE	BBND 006	< 0.76	D
TGRSE	2/4/97	12DCE	BBND 005	< 0.76	
TGRSE	3/3/97	12DCE	BBSG 006	< 0.76	
TGRSE	3/3/97	12DCE	BBSG 007	< 0.76	D
TGRSE	4/1/97	12DCE	BCPP 006	< 0.76	
TGRSE	4/1/97	12DCE	BCPP 007	< 0.76	D
TGRSE	5/6/97	12DCE	BDKL 005	< 0.76	V
TGRSE	5/6/97	12DCE	BDKL 006	< 0.76	DV
TGRSE	6/3/97	12DCE	BFCT 002	< 5	
TGRSE	6/3/97	12DCE	BFCT 003	< 5	D
TGRSE	7/1/97	12DCE	BFXL 008	< 0.76	
TGRSE	7/1/97	12DCE	BFXL 009	< 0.76	D
TGRSE	9/2/97	12DCE	BGQT 008	< 0.76	
TGRSE	9/2/97	12DCE	BGQT 009	< 0.76	D
TGRSE	6/3/97	12DCLB	BFBT 002	< 1.2	
TGRSE	10/11/96	12DCLE	AZTA 006	< 1.1	
TGRSE	10/11/96	12DCLE	AZTA 007	< 1.1	D
TGRSE	11/11/96	12DCLE	BAHN 009	< 1.1	
TGRSE	11/11/96	12DCLE	BAHN 010	< 1.1	D
TGRSE	12/3/96	12DCLE	BAQE 006	< 1.1	
TGRSE	12/3/96	12DCLE	BAQE 007	< 1.1	D
TGRSE	1/7/97	12DCLE	BBCI 006	< 1.1	
TGRSE	1/7/97	12DCLE	BBCI 007	< 1.1	D
TGRSE	2/4/97	12DCLE	BBND 005	< 1.1	
TGRSE	2/4/97	12DCLE	BBND 006	< 1.1	D
TGRSE	3/3/97	12DCLE	BBSG 006	< 1.1	
TGRSE	3/3/97	12DCLE	BBSG 007	< 1.1	D
TGRSE	4/1/97	12DCLE	BCPP 006	< 1.1	
TGRSE	4/1/97	12DCLE	BCPP 007	< 1.1	D

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration		Flag Codes/ Data Qualifiers
TGRSE	5/6/97	12DCLE	BDKL 005	<	1.1	V
TGRSE	5/6/97	12DCLE	BDKL 006	<	1.1	DV
TGRSE	6/3/97	12DCLE	BFCT 002	<	1	
TGRSE	6/3/97	12DCLE	BFCT 003	<	1	D
TGRSE	7/1/97	12DCLE	BFXL 008	<	1.1	
TGRSE	7/1/97	12DCLE	BFXL 009	<	1.1	D
TGRSE	9/2/97	12DCLE	BGQT 008	<	1.1	
TGRSE	9/2/97	12DCLE	BGQT 009	<	1.1	D
TGRSE	10/11/96	12DCLP	AZTA 006	<	1	T
TGRSE	10/11/96	12DCLP	AZTA 007	<	1	DT
TGRSE	11/11/96	12DCLP	BAHN 009	<	1	T
TGRSE	11/11/96	12DCLP	BAHN 010	<	1	TD
TGRSE	12/3/96	12DCLP	BAQE 006	<	1	T
TGRSE	12/3/96	12DCLP	BAQE 007	<	1	TD
TGRSE	1/7/97	12DCLP	BBCI 006	<	1	T
TGRSE	1/7/97	12DCLP	BBCI 007	<	1	TD
TGRSE	2/4/97	12DCLP	BBND 005	<	1	T
TGRSE	2/4/97	12DCLP	BBND 006	<	1	TD
TGRSE	3/3/97	12DCLP	BBSG 006	<	1	T
TGRSE	3/3/97	12DCLP	BBSG 007	<	1	DT
TGRSE	4/1/97	12DCLP	BCPP 006	<	1	T
TGRSE	4/1/97	12DCLP	BCPP 007	<	1	TD
TGRSE	5/6/97	12DCLP	BDKL 005	<	1	TV
TGRSE	5/6/97	12DCLP	BDKL 006	<	1	TDV
TGRSE	6/3/97	12DCLP	BFCT 002	<	1	
TGRSE	6/3/97	12DCLP	BFCT 003	<	1	D
TGRSE	7/1/97	12DCLP	BFXL 008	<	1	T
TGRSE	7/1/97	12DCLP	BFXL 009	<	1	DT
TGRSE	9/2/97	12DCLP	BGQT 008	<	1	T
TGRSE	9/2/97	12DCLP	BGQT 009	<	1	TD
TGRSE	6/3/97	13DCLB	BFBT 002	<	3.4	
TGRSE	6/3/97	13DMB	BFCT 003	<	1	D
TGRSE	6/3/97	14DCLB	BFBT 002	<	1.5	
TGRSE	6/3/97	245TCP	BFBT 002	<	2.8	
TGRSE	6/3/97	246TCP	BFBT 002	<	3.6	
TGRSE	6/3/97	24DCLP	BFBT 002	<	8.4	
TGRSE	6/3/97	24DMPN	BFBT 002	<	4.4	
TGRSE	6/3/97	24DNP	BFBT 002	<	180	
TGRSE	6/3/97	24DNT	BFBT 002	<	5.8	
TGRSE	6/3/97	26DNT	BFBT 002	<	6.7	
TGRSE	6/3/97	2CLP	BFBT 002	<	2.8	
TGRSE	6/3/97	2CNAP	BFBT 002	<	2.6	

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
TGRSE	6/3/97	2MNAP	BFBT 002	< 1.3	
TGRSE	6/3/97	2MP	BFBT 002	< 3.6	
TGRSE	6/3/97	2NANIL	BFBT 002	< 31	R
TGRSE	6/3/97	2NP	BFBT 002	< 8.2	
TGRSE	6/3/97	33DCBD	BFBT 002	< 5	
TGRSE	6/3/97	3NANIL	BFBT 002	< 15	
TGRSE	6/3/97	46DN2C	BFBT 002	< 50	R
TGRSE	6/3/97	4BRPPE	BFBT 002	< 22	
TGRSE	6/3/97	4CANIL	BFBT 002	< 1	R
TGRSE	6/3/97	4CL3C	BFBT 002	< 8.5	
TGRSE	6/3/97	4CLPPE	BFBT 002	< 23	
TGRSE	6/3/97	4MP	BFBT 002	< 2.8	
TGRSE	6/3/97	4NANIL	BFBT 002	< 31	R
TGRSE	6/3/97	4NP	BFBT 002	< 96	
TGRSE	6/3/97	ABHC	BDZB 003	< 0.0025	
TGRSE	6/3/97	ACET	BFCT 002	< 8	
TGRSE	6/3/97	ACET	BFCT 003	< 8	D
TGRSE	6/3/97	ACLDAN	BDZB 003	< 0.0025	T
TGRSE	6/3/97	AENSLF	BDZB 003	< 0.0025	
TGRSE	6/3/97	AG	BFDF 006	< 10	
TGRSE	6/3/97	AL	BFDF 006	120	
TGRSE	6/3/97	ALDRN	BDZB 003	< 0.0074	
TGRSE	6/3/97	ANAPNE	BFBT 002	< 5.8	
TGRSE	6/3/97	ANAPYL	BFBT 002	< 5.1	
TGRSE	6/3/97	ANTRC	BFBT 002	< 5.2	
TGRSE	10/11/96	AS	AZOJ 005	< 2.35	VI
TGRSE	11/11/96	AS	BACP 005	< 2.35	
TGRSE	12/3/96	AS	BANW 006	< 2.35	
TGRSE	1/7/97	AS	BBAR 005	< 2.35	
TGRSE	2/4/97	AS	BBMM 005	< 2.35	
TGRSE	3/3/97	AS	BBTN 007	< 2.35	
TGRSE	4/1/97	AS	BCRL 005	< 2.35	U
TGRSE	5/6/97	AS	BDJW 005	< 2.35	V
TGRSE	6/3/97	AS	BFDG 005	6.32	
TGRSE	7/1/97	AS	BFVJ 005	< 2.35	
TGRSE	9/2/97	AS	BGQP 005	< 2.35	
TGRSE	6/3/97	B2CEXM	BFBT 002	< 6.8	
TGRSE	6/3/97	B2CIPE	BFBT 002	< 5	
TGRSE	6/3/97	B2CLEE	BFBT 002	< 0.68	
TGRSE	6/3/97	B2EHP	BFBT 002	< 7.7	
TGRSE	6/3/97	BA	BFDF 006	375	
TGRSE	6/3/97	BAANTR	BFBT 002	< 9.8	

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration	Flag Codes/ Data Qualifiers
TGRSE	6/3/97	BAPYR	BFBT 002	< 14	
TGRSE	6/3/97	BBFANT	BFBT 002	< 10	
TGRSE	6/3/97	BBHC	BDZB 003	< 0.0099	
TGRSE	6/3/97	BBZP	BFBT 002	< 28	
TGRSE	6/3/97	BE	BFDF 006	< 1.12	
TGRSE	6/3/97	BENSLF	BDZB 003	< 0.0077	
TGRSE	6/3/97	BENZOA	BFBT 002	< 3.1	R
TGRSE	6/3/97	BGHIPY	BFBT 002	< 15	
TGRSE	6/3/97	BKFANT	BFBT 002	< 10	
TGRSE	6/3/97	BRDCLM	BFCT 002	< 1	
TGRSE	6/3/97	BRDCLM	BFCT 003	< 1	D
TGRSE	6/3/97	BZALC	BFBT 002	< 4	
TGRSE	6/3/97	C13DCP	BFCT 002	< 5	R
TGRSE	6/3/97	C13DCP	BFCT 003	< 5	RD
TGRSE	10/11/96	C2H3CL	AZTA 006	< 1.01	
TGRSE	10/11/96	C2H3CL	AZTA 007	< 1.01	D
TGRSE	11/11/96	C2H3CL	BAHN 009	< 1.01	
TGRSE	11/11/96	C2H3CL	BAHN 010	< 1.01	D
TGRSE	12/3/96	C2H3CL	BAQE 006	< 1.01	
TGRSE	12/3/96	C2H3CL	BAQE 007	< 1.01	D
TGRSE	1/7/97	C2H3CL	BBCI 006	< 1.01	
TGRSE	1/7/97	C2H3CL	BBCI 007	< 1.01	D
TGRSE	2/4/97	C2H3CL	BBND 005	< 1.01	
TGRSE	2/4/97	C2H3CL	BBND 006	< 1.01	D
TGRSE	3/3/97	C2H3CL	BBSG 006	< 1.01	
TGRSE	3/3/97	C2H3CL	BBSG 007	< 1.01	D
TGRSE	4/1/97	C2H3CL	BCPP 006	< 1.01	
TGRSE	4/1/97	C2H3CL	BCPP 007	< 1.01	D
TGRSE	5/6/97	C2H3CL	BDKL 005	< 1.01	V
TGRSE	5/6/97	C2H3CL	BDKL 006	< 1.01	DV
TGRSE	6/3/97	C2H3CL	BFCT 002	< 12	
TGRSE	6/3/97	C2H3CL	BFCT 003	< 12	D
TGRSE	7/1/97	C2H3CL	BFXL 008	< 1.01	
TGRSE	7/1/97	C2H3CL	BFXL 009	< 1.01	D
TGRSE	9/2/97	C2H3CL	BGQT 008	< 1.01	
TGRSE	9/2/97	C2H3CL	BGQT 009	< 1.01	D
TGRSE	6/3/97	C2H5CL	BFCT 002	< 8	
TGRSE	6/3/97	C2H5CL	BFCT 003	< 8	D
TGRSE	6/3/97	C6H6	BFCT 002	< 1	
TGRSE	6/3/97	C6H6	BFCT 003	< 1	D
TGRSE	6/3/97	CA	BFDF 006	72900	
TGRSE	6/3/97	CARBAZ	BFBT 002	< 5	R

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
TGRSE	10/11/96	CCL4	AZTA 006	< 0.99	
TGRSE	10/11/96	CCL4	AZTA 007	< 0.99	D
TGRSE	11/11/96	CCL4	BAHN 009	< 0.99	
TGRSE	11/11/96	CCL4	BAHN 010	< 0.99	D
TGRSE	12/3/96	CCL4	BAQE 006	< 0.99	
TGRSE	12/3/96	CCL4	BAQE 007	< 0.99	D
TGRSE	1/7/97	CCL4	BBCI 006	< 0.99	
TGRSE	1/7/97	CCL4	BBCI 007	< 0.99	D
TGRSE	2/4/97	CCL4	BBND 005	< 0.99	
TGRSE	2/4/97	CCL4	BBND 006	< 0.99	D
TGRSE	3/3/97	CCL4	BBSG 006	< 0.99	
TGRSE	3/3/97	CCL4	BBSG 007	< 0.99	D
TGRSE	4/1/97	CCL4	BCPP 006	< 0.99	
TGRSE	4/1/97	CCL4	BCPP 007	< 0.99	D
TGRSE	5/6/97	CCL4	BDKL 005	< 0.99	V
TGRSE	5/6/97	CCL4	BDKL 006	< 0.99	DV
TGRSE	6/3/97	CCL4	BFCT 002	< 1	
TGRSE	6/3/97	CCL4	BFCT 003	< 1	D
TGRSE	7/1/97	CCL4	BFXL 008	< 0.99	
TGRSE	7/1/97	CCL4	BFXL 009	< 0.99	D
TGRSE	9/2/97	CCL4	BGQT 008	< 0.99	
TGRSE	9/2/97	CCL4	BGQT 009	< 0.99	D
TGRSE	10/11/96	CD	AZOL 005	< 6.78	
TGRSE	11/11/96	CD	BACO 005	< 6.78	
TGRSE	12/3/96	CD	BANV 006	< 6.78	
TGRSE	1/7/97	CD	BBAQ 005	< 6.78	
TGRSE	2/4/97	CD	BBML 005	< 6.78	
TGRSE	3/3/97	CD	BBTM 006	< 6.78	
TGRSE	4/1/97	CD	BCRK 005	< 6.78	
TGRSE	5/6/97	CD	BDJV 005	< 6.78	V
TGRSE	6/3/97	CD	BFDF 006	< 6.78	
TGRSE	7/1/97	CD	BFVH 005	< 6.78	
TGRSE	9/2/97	CD	BGQM 006	< 6.78	?
TGRSE	10/11/96	CH2CL2	AZTA 006	< 7.4	
TGRSE	10/11/96	CH2CL2	AZTA 007	< 7.4	D
TGRSE	11/11/96	CH2CL2	BAHN 009	< 7.4	
TGRSE	11/11/96	CH2CL2	BAHN 010	< 7.4	D
TGRSE	12/3/96	CH2CL2	BAQE 006	< 7.4	
TGRSE	12/3/96	CH2CL2	BAQE 007	< 7.4	D
TGRSE	1/7/97	CH2CL2	BBCI 006	< 7.4	
TGRSE	1/7/97	CH2CL2	BBCI 007	< 7.4	D
TGRSE	2/4/97	CH2CL2	BBND 006	< 7.4	D

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
TGRSE	2/4/97	CH2CL2	BBND 005	< 7.4	
TGRSE	3/3/97	CH2CL2	BBSG 006	< 7.4	
TGRSE	3/3/97	CH2CL2	BBSG 007	< 7.4	D
TGRSE	4/1/97	CH2CL2	BCPP 006	< 7.4	
TGRSE	4/1/97	CH2CL2	BCPP 007	< 7.4	D
TGRSE	5/6/97	CH2CL2	BDKL 005	< 7.4	V
TGRSE	5/6/97	CH2CL2	BDKL 006	8.48	DV
TGRSE	6/3/97	CH2CL2	BFCT 002	< 1	
TGRSE	6/3/97	CH2CL2	BFCT 003	< 1	D
TGRSE	7/1/97	CH2CL2	BFXL 008	< 7.4	
TGRSE	7/1/97	CH2CL2	BFXL 009	< 7.4	D
TGRSE	9/2/97	CH2CL2	BGQT 008	< 7.4	
TGRSE	9/2/97	CH2CL2	BGQT 009	< 7.4	D
TGRSE	6/3/97	CH3BR	BFCT 002	< 14	
TGRSE	6/3/97	CH3BR	BFCT 003	< 14	D
TGRSE	6/3/97	CH3CL	BFCT 002	< 1.2	
TGRSE	6/3/97	CH3CL	BFCT 003	< 1.2	D
TGRSE	6/3/97	CHBR3	BFCT 002	< 11	
TGRSE	6/3/97	CHBR3	BFCT 003	< 11	D
TGRSE	10/11/96	CHCL3	AZTA 006	< 0.5	
TGRSE	10/11/96	CHCL3	AZTA 007	< 0.5	D
TGRSE	11/11/96	CHCL3	BAHN 009	< 0.5	
TGRSE	11/11/96	CHCL3	BAHN 010	< 0.5	D
TGRSE	12/3/96	CHCL3	BAQE 006	< 0.5	
TGRSE	12/3/96	CHCL3	BAQE 007	< 0.5	D
TGRSE	1/7/97	CHCL3	BBCI 006	< 0.5	
TGRSE	1/7/97	CHCL3	BBCI 007	< 0.5	D
TGRSE	2/4/97	CHCL3	BBND 006	< 0.5	D
TGRSE	2/4/97	CHCL3	BBND 005	< 0.5	
TGRSE	3/3/97	CHCL3	BBSG 006	< 0.5	
TGRSE	3/3/97	CHCL3	BBSG 007	< 0.5	D
TGRSE	4/1/97	CHCL3	BCPP 006	< 0.5	
TGRSE	4/1/97	CHCL3	BCPP 007	< 0.5	D
TGRSE	5/6/97	CHCL3	BDKL 005	< 0.5	V
TGRSE	5/6/97	CHCL3	BDKL 006	< 0.5	DV
TGRSE	6/3/97	CHCL3	BFCT 002	< 1	
TGRSE	6/3/97	CHCL3	BFCT 003	< 1	D
TGRSE	7/1/97	CHCL3	BFXL 008	< 0.5	
TGRSE	7/1/97	CHCL3	BFXL 009	< 0.5	D
TGRSE	9/2/97	CHCL3	BGQT 008	< 0.5	
TGRSE	9/2/97	CHCL3	BGQT 009	< 0.5	D
TGRSE	6/3/97	CHRY	BFBT 002	< 7.4	

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration	Flag Codes/ Data Qualifiers
TGRSE	6/3/97	CL6BZ	BFBT 002	< 12	
TGRSE	6/3/97	CL6CP	BFBT 002	< 54	
TGRSE	6/3/97	CL6ET	BFBT 002	< 8.3	
TGRSE	6/3/97	CLC6H5	BFCT 002	< 1	
TGRSE	6/3/97	CLC6H5	BFCT 003	< 1	D
TGRSE	12/3/96	CO	BANV 006	< 25	
TGRSE	3/3/97	CO	BBTM 006	< 25	
TGRSE	6/3/97	CO	BFDF 006	< 25	
TGRSE	9/2/97	CO	BGQM 006	< 25	?
TGRSE	10/11/96	CR	AZOL 005	< 16.8	
TGRSE	11/11/96	CR	BACO 005	< 16.8	
TGRSE	12/3/96	CR	BANV 006	< 16.8	
TGRSE	1/7/97	CR	BBAQ 005	< 16.8	
TGRSE	2/4/97	CR	BBML 005	< 16.8	
TGRSE	3/3/97	CR	BBTM 006	< 16.8	
TGRSE	4/1/97	CR	BCRK 005	< 16.8	
TGRSE	5/6/97	CR	BDJV 005	< 16.8	V
TGRSE	6/3/97	CR	BFDF 006	< 16.8	
TGRSE	7/1/97	CR	BFVH 005	< 16.8	
TGRSE	9/2/97	CR	BGQM 006	< 16.8	?
TGRSE	6/3/97	CS2	BFCT 002	< 5	R
TGRSE	6/3/97	CS2	BFCT 003	< 5	RD
TGRSE	6/3/97	CU	BFDF 006	60.5	
TGRSE	6/3/97	DBAHA	BFBT 002	< 12	
TGRSE	6/3/97	DBHC	BDZB 003	< 0.0034	
TGRSE	6/3/97	DBRCLM	BFCT 002	< 1	
TGRSE	6/3/97	DBRCLM	BFCT 003	< 1	D
TGRSE	6/3/97	DEP	BFBT 002	< 5.9	
TGRSE	6/3/97	DLDRN	BDZB 003	< 0.0074	
TGRSE	6/3/97	DMP	BFBT 002	< 2.2	
TGRSE	6/3/97	DNBP	BFBT 002	< 33	
TGRSE	6/3/97	DNOP	BFBT 002	< 1.5	
TGRSE	6/3/97	ENDRN	BDZB 003	< 0.0176	
TGRSE	6/3/97	ENDRNA	BDZB 003	< 0.0504	
TGRSE	6/3/97	ENDRNK	BDZB 003	< 0.0025	T
TGRSE	6/3/97	ESFSO4	BDZB 003	< 0.0025	T
TGRSE	6/3/97	ETC6H5	BFCT 002	< 1	
TGRSE	6/3/97	ETC6H5	BFCT 003	< 1	D
TGRSE	6/3/97	FANT	BFBT 002	< 24	
TGRSE	6/3/97	FE	BFDF 006	5570	
TGRSE	6/3/97	FLRENE	BFBT 002	< 9.2	
TGRSE	6/3/97	GCLDAN	BDZB 003	< 0.0025	T

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
TGRSE	6/3/97	HCBD	BFBT 002	< 8.7	
TGRSE	10/11/96	HG	AZPI 005	< 0.1	V
TGRSE	11/11/96	HG	BAET 006	< 0.1	
TGRSE	12/3/96	HG	BANS 006	< 0.1	
TGRSE	1/7/97	HG	BBDP 006	< 0.1	
TGRSE	2/4/97	HG	BBKA 006	< 0.1	
TGRSE	3/3/97	HG	BBVT 006	< 0.1	
TGRSE	4/1/97	HG	BCQV 007	< 0.1	
TGRSE	5/6/97	HG	BDJD 005	< 0.1	V
TGRSE	6/3/97	HG	BFDM 006	< 0.1	
TGRSE	7/1/97	HG	BFWL 015	< 0.1	
TGRSE	9/2/97	HG	BGSD 007	< 0.1	
TGRSE	6/3/97	HPCL	BDZB 003	< 0.0025	
TGRSE	6/3/97	HPCLE	BDZB 003	< 0.0063	
TGRSE	6/3/97	ICDPYR	BFBT 002	< 21	
TGRSE	6/3/97	ISOPHR	BFBT 002	< 2.4	
TGRSE	6/3/97	K	BFDF 006	2560	
TGRSE	6/3/97	LIN	BDZB 003	< 0.0025	
TGRSE	6/3/97	MEC6H5	BFCT 002	< 1	
TGRSE	6/3/97	MEC6H5	BFCT 003	< 1	D
TGRSE	6/3/97	MEK	BFCT 002	< 10	
TGRSE	6/3/97	MEK	BFCT 003	< 10	D
TGRSE	6/3/97	MEXCLR	BDZB 003	< 0.075	
TGRSE	6/3/97	MG	BFDF 006	25800	
TGRSE	6/3/97	MIBK	BFCT 002	< 1.4	
TGRSE	6/3/97	MIBK	BFCT 003	< 1.4	D
TGRSE	12/3/96	MN	BANV 006	1260	
TGRSE	3/3/97	MN	BBTM 006	228	
TGRSE	6/3/97	MN	BFDF 006	16000	
TGRSE	9/2/97	MN	BGQM 006	267	?
TGRSE	6/3/97	MNBK	BFCT 002	< 1	R
TGRSE	6/3/97	MNBK	BFCT 003	< 1	RD
TGRSE	6/3/97	NA	BFDF 006	8540	
TGRSE	6/3/97	NAP	BFBT 002	< 0.5	
TGRSE	6/3/97	NB	BFBT 002	< 3.7	
TGRSE	10/11/96	NI	AZOL 005	< 32.1	
TGRSE	11/11/96	NI	BACO 005	< 32.1	
TGRSE	12/3/96	NI	BANV 006	< 32.1	
TGRSE	1/7/97	NI	BBAQ 005	< 32.1	
TGRSE	2/4/97	NI	BBML 005	< 32.1	E
TGRSE	3/3/97	NI	BBTM 006	< 32.1	
TGRSE	4/1/97	NI	BCRK 005	< 32.1	

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration	Flag Codes/ Data Qualifiers
TGRSE	5/6/97	NI	BDJV 005	< 32.1	V
TGRSE	6/3/97	NI	BFDF 006	38.8	
TGRSE	7/1/97	NI	BFVH 005	< 32.1	
TGRSE	9/2/97	NI	BGQM 006	< 32.1	?
TGRSE	6/3/97	NNDNPA	BFBT 002	< 6.8	
TGRSE	6/3/97	NNDPA	BFBT 002	< 3.7	
TGRSE	10/11/96	PB	AZOK 005	< 4.47	V
TGRSE	11/11/96	PB	BACQ 005	< 4.47	
TGRSE	12/3/96	PB	BANX 006	9.38	
TGRSE	1/7/97	PB	BBAS 005	< 4.47	
TGRSE	2/4/97	PB	BBMN 005	< 4.47	
TGRSE	3/3/97	PB	BBTP 006	< 4.47	
TGRSE	4/1/97	PB	BCRM 005	< 4.47	U
TGRSE	5/6/97	PB	BDJX 005	< 4.47	V
TGRSE	6/3/97	PB	BFDH 006	6.05	
TGRSE	7/1/97	PB	BFVK 005	< 4.47	
TGRSE	9/2/97	PB	BGQQ 006	< 4.47	
TGRSE	6/3/97	PCB016	BDZB 003	< 0.385	
TGRSE	6/3/97	PCB221	BDZB 003	< 0.1	T
TGRSE	6/3/97	PCB232	BDZB 003	< 0.1	T
TGRSE	6/3/97	PCB242	BDZB 003	< 0.1	T
TGRSE	6/3/97	PCB248	BDZB 003	< 0.1	T
TGRSE	6/3/97	PCB254	BDZB 003	< 0.1	T
TGRSE	6/3/97	PCB260	BDZB 003	< 0.176	
TGRSE	6/3/97	PCP	BFBT 002	< 9.1	
TGRSE	6/3/97	PHANTR	BFBT 002	< 9.9	
TGRSE	6/3/97	PHENOL	BFBT 002	< 2.2	
TGRSE	6/3/97	PPDDD	BDZB 003	< 0.0081	
TGRSE	6/3/97	PPDDE	BDZB 003	< 0.0039	
TGRSE	6/3/97	PPDDT	BDZB 003	< 0.0025	
TGRSE	6/3/97	PYR	BFBT 002	< 17	
TGRSE	12/3/96	SB	BAON 003	< 6	
TGRSE	3/3/97	SB	BBTR 003	< 6	
TGRSE	6/3/97	SB	BFDB 003	< 6	
TGRSE	9/2/97	SB	BGQN 003	< 6	
TGRSE	6/3/97	SE	BFDJ 005	< 2.53	
TGRSE	6/3/97	STYR	BFCT 002	< 5	R
TGRSE	6/3/97	STYR	BFCT 003	< 5	RD
TGRSE	6/3/97	T13DCP	BFCT 002	< 5	R
TGRSE	6/3/97	T13DCP	BFCT 003	< 5	RD
TGRSE	6/3/97	TCLEA	BFCT 002	< 1.5	
TGRSE	6/3/97	TCLEA	BFCT 003	< 1.5	D

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
TGRSE	10/11/96	TCLEE	AZTA 006	< 0.75	
TGRSE	10/11/96	TCLEE	AZTA 007	< 0.75	D
TGRSE	11/11/96	TCLEE	BAHN 009	< 0.75	
TGRSE	11/11/96	TCLEE	BAHN 010	< 0.75	D
TGRSE	12/3/96	TCLEE	BAQE 006	< 0.75	
TGRSE	12/3/96	TCLEE	BAQE 007	< 0.75	D
TGRSE	1/7/97	TCLEE	BBCI 006	< 0.75	
TGRSE	1/7/97	TCLEE	BBCI 007	< 0.75	D
TGRSE	2/4/97	TCLEE	BBND 006	< 0.75	D
TGRSE	2/4/97	TCLEE	BBND 005	< 0.75	
TGRSE	3/3/97	TCLEE	BBSG 006	< 0.75	
TGRSE	3/3/97	TCLEE	BBSG 007	< 0.75	D
TGRSE	4/1/97	TCLEE	BCPP 006	< 0.75	
TGRSE	4/1/97	TCLEE	BCPP 007	< 0.75	D
TGRSE	5/6/97	TCLEE	BDKL 005	< 0.75	V
TGRSE	5/6/97	TCLEE	BDKL 006	< 0.75	DV
TGRSE	6/3/97	TCLEE	BFCT 002	< 1	
TGRSE	6/3/97	TCLEE	BFCT 003	< 1	D
TGRSE	7/1/97	TCLEE	BFXL 008	< 0.75	
TGRSE	7/1/97	TCLEE	BFXL 009	< 0.75	D
TGRSE	9/2/97	TCLEE	BGQT 008	< 0.75	
TGRSE	9/2/97	TCLEE	BGQT 009	< 0.75	D
TGRSE	10/11/96	TCLTFE	AZTA 006	< 1	T
TGRSE	10/11/96	TCLTFE	AZTA 007	< 1	DT
TGRSE	11/11/96	TCLTFE	BAHN 009	< 1	T
TGRSE	11/11/96	TCLTFE	BAHN 010	< 1	TD
TGRSE	12/3/96	TCLTFE	BAQE 006	< 1	T
TGRSE	12/3/96	TCLTFE	BAQE 007	< 1	TD
TGRSE	1/7/97	TCLTFE	BBCI 006	< 1	T
TGRSE	1/7/97	TCLTFE	BBCI 007	< 1	TD
TGRSE	2/4/97	TCLTFE	BBND 006	< 1	TD
TGRSE	2/4/97	TCLTFE	BBND 005	< 1	T
TGRSE	3/3/97	TCLTFE	BBSG 006	< 1	T
TGRSE	3/3/97	TCLTFE	BBSG 007	< 1	DT
TGRSE	4/1/97	TCLTFE	BCPP 006	< 1	T
TGRSE	4/1/97	TCLTFE	BCPP 007	< 1	TD
TGRSE	5/6/97	TCLTFE	BDKL 005	< 1	TV
TGRSE	5/6/97	TCLTFE	BDKL 006	< 1	TDV
TGRSE	7/1/97	TCLTFE	BFXL 008	< 1	T
TGRSE	7/1/97	TCLTFE	BFXL 009	< 1	DT
TGRSE	9/2/97	TCLTFE	BGQT 008	< 1	T
TGRSE	9/2/97	TCLTFE	BGQT 009	< 1	TD

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FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration		Flag Codes/ Data Qualifiers
TGRSE	6/3/97	TL	BFDC 003	<	5	
TGRSE	10/11/96	TRCLE	AZTA 006		0.912	
TGRSE	10/11/96	TRCLE	AZTA 007	<	0.56	D
TGRSE	11/11/96	TRCLE	BAHN 009	<	0.56	
TGRSE	11/11/96	TRCLE	BAHN 010	<	0.56	D
TGRSE	12/3/96	TRCLE	BAQE 006	<	0.56	
TGRSE	12/3/96	TRCLE	BAQE 007	<	0.56	D
TGRSE	1/7/97	TRCLE	BBCI 006		1.32	
TGRSE	1/7/97	TRCLE	BBCI 007		0.857	D
TGRSE	2/4/97	TRCLE	BBND 006	<	0.56	D
TGRSE	2/4/97	TRCLE	BBND 005	<	0.56	
TGRSE	3/3/97	TRCLE	BBSG 006	<	0.56	
TGRSE	3/3/97	TRCLE	BBSG 007	<	0.56	D
TGRSE	4/1/97	TRCLE	BCPP 006		1.48	
TGRSE	4/1/97	TRCLE	BCPP 007	<	0.56	D
TGRSE	5/6/97	TRCLE	BDKL 005	<	0.56	V
TGRSE	5/6/97	TRCLE	BDKL 006	<	0.56	DV
TGRSE	6/3/97	TRCLE	BFCT 002	<	1	
TGRSE	6/3/97	TRCLE	BFCT 003	<	1	D
TGRSE	7/1/97	TRCLE	BFXL 008	<	0.56	
TGRSE	7/1/97	TRCLE	BFXL 009	<	0.56	D
TGRSE	9/2/97	TRCLE	BGQT 008	<	0.56	
TGRSE	9/2/97	TRCLE	BGQT 009	<	0.56	D
TGRSE	6/3/97	TXPHEN	BDZB 003	<	1.64	
TGRSE	6/3/97	V	BFDF 006	<	27.6	
TGRSE	6/3/97	XYLEN	BFCT 002	<	2	
TGRSE	6/3/97	XYLEN	BFCT 003	<	2	D
TGRSE	10/11/96	ZN	AZOL 005		21.4	
TGRSE	11/11/96	ZN	BACO 005	<	18	
TGRSE	12/3/96	ZN	BANV 006		27.9	
TGRSE	1/7/97	ZN	BBAQ 005		40.8	I
TGRSE	2/4/97	ZN	BBML 005	<	18	
TGRSE	3/3/97	ZN	BBTM 006	<	18	
TGRSE	4/1/97	ZN	BCRK 005		60.3	HI
TGRSE	5/6/97	ZN	BDJV 005	<	18	V
TGRSE	6/3/97	ZN	BFDF 006		131	
TGRSE	7/1/97	ZN	BFVH 005	<	18	
TGRSE	9/2/97	ZN	BGQM 006	<	18	?
TGRSI	10/11/96	111TCE	AZTA 005		126	
TGRSI	11/11/96	111TCE	BAHN 011		129	
TGRSI	12/3/96	111TCE	BAQE 005		140	
TGRSI	1/7/97	111TCE	BBCI 005		153	

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TGRS, TCAAP

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
TGRSI	2/4/97	111TCE	BBND 007	140	
TGRSI	3/3/97	111TCE	BBSG 005	128	
TGRSI	4/1/97	111TCE	BCPP 005	154	
TGRSI	5/6/97	111TCE	BDKL 007	93	V
TGRSI	6/3/97	111TCE	BFFK 005	108	
TGRSI	7/1/97	111TCE	BFXL 007	36.6	
TGRSI	9/2/97	111TCE	BGQT 007	111	
TGRSI	10/11/96	112TCE	AZTA 005	< 0.78	
TGRSI	11/11/96	112TCE	BAHN 011	< 0.78	
TGRSI	12/3/96	112TCE	BAQE 005	< 0.78	
TGRSI	1/7/97	112TCE	BBCI 005	< 0.78	
TGRSI	2/4/97	112TCE	BBND 007	< 0.78	
TGRSI	3/3/97	112TCE	BBSG 005	< 0.78	
TGRSI	4/1/97	112TCE	BCPP 005	< 0.78	
TGRSI	5/6/97	112TCE	BDKL 007	< 0.78	V
TGRSI	6/3/97	112TCE	BFFK 005	< 0.78	
TGRSI	7/1/97	112TCE	BFXL 007	< 0.78	
TGRSI	9/2/97	112TCE	BGQT 007	< 0.78	
TGRSI	10/11/96	11DCE	AZTA 005	24	
TGRSI	11/11/96	11DCE	BAHN 011	25.8	
TGRSI	12/3/96	11DCE	BAQE 005	28.1	
TGRSI	1/7/97	11DCE	BBCI 005	27	
TGRSI	2/4/97	11DCE	BBND 007	24.7	
TGRSI	3/3/97	11DCE	BBSG 005	15.1	E
TGRSI	4/1/97	11DCE	BCPP 005	26.9	
TGRSI	5/6/97	11DCE	BDKL 007	17.4	V
TGRSI	6/3/97	11DCE	BFFK 005	18	
TGRSI	7/1/97	11DCE	BFXL 007	10.3	
TGRSI	9/2/97	11DCE	BGQT 007	16.4	
TGRSI	10/11/96	11DCLE	AZTA 005	18.4	
TGRSI	11/11/96	11DCLE	BAHN 011	21.3	
TGRSI	12/3/96	11DCLE	BAQE 005	22.5	
TGRSI	1/7/97	11DCLE	BBCI 005	22.5	
TGRSI	2/4/97	11DCLE	BBND 007	22.5	
TGRSI	3/3/97	11DCLE	BBSG 005	20.8	
TGRSI	4/1/97	11DCLE	BCPP 005	25.4	
TGRSI	5/6/97	11DCLE	BDKL 007	16.6	V
TGRSI	6/3/97	11DCLE	BFFK 005	18	
TGRSI	7/1/97	11DCLE	BFXL 007	11.1	
TGRSI	9/2/97	11DCLE	BGQT 007	17.2	
TGRSI	10/11/96	12DCE	AZTA 005	11.3	
TGRSI	11/11/96	12DCE	BAHN 011	15.1	

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	Sample Date	Chemical	Lot ID	Concentration	Flag Codes/ Data Qualifiers
TGRSI	12/3/96	12DCE	BAQE 005	16.1	
TGRSI	1/7/97	12DCE	BBCI 005	15.1	
TGRSI	2/4/97	12DCE	BBND 007	15.1	
TGRSI	3/3/97	12DCE	BBSG 005	11.9	
TGRSI	4/1/97	12DCE	BCPP 005	3.42	
TGRSI	5/6/97	12DCE	BDKL 007	8.23	V
TGRSI	6/3/97	12DCE	BFFK 005	10.2	
TGRSI	7/1/97	12DCE	BFXL 007	5.05	
TGRSI	9/2/97	12DCE	BGQT 007	8.9	
TGRSI	10/11/96	12DCLE	AZTA 005	< 1.1	
TGRSI	11/11/96	12DCLE	BAHN 011	< 1.1	
TGRSI	12/3/96	12DCLE	BAQE 005	< 1.1	
TGRSI	1/7/97	12DCLE	BBCI 005	< 1.1	
TGRSI	2/4/97	12DCLE	BBND 007	< 1.1	
TGRSI	3/3/97	12DCLE	BBSG 005	< 1.1	
TGRSI	4/1/97	12DCLE	BCPP 005	< 1.1	
TGRSI	5/6/97	12DCLE	BDKL 007	< 1.1	V
TGRSI	6/3/97	12DCLE	BFFK 005	< 1.1	
TGRSI	7/1/97	12DCLE	BFXL 007	< 1.1	
TGRSI	9/2/97	12DCLE	BGQT 007	< 1.1	
TGRSI	10/11/96	12DCLP	AZTA 005	< 1	T
TGRSI	11/11/96	12DCLP	BAHN 011	< 1	T
TGRSI	12/3/96	12DCLP	BAQE 005	< 1	T
TGRSI	1/7/97	12DCLP	BBCI 005	< 1	T
TGRSI	2/4/97	12DCLP	BBND 007	< 1	T
TGRSI	3/3/97	12DCLP	BBSG 005	< 1	T
TGRSI	4/1/97	12DCLP	BCPP 005	< 1	T
TGRSI	5/6/97	12DCLP	BDKL 007	< 1	TV
TGRSI	6/3/97	12DCLP	BFFK 005	< 1	T
TGRSI	7/1/97	12DCLP	BFXL 007	< 1	T
TGRSI	9/2/97	12DCLP	BGQT 007	< 1	T
TGRSI	10/11/96	C2H3CL	AZTA 005	< 1.01	
TGRSI	11/11/96	C2H3CL	BAHN 011	< 1.01	
TGRSI	12/3/96	C2H3CL	BAQE 005	< 1.01	
TGRSI	1/7/97	C2H3CL	BBCI 005	< 1.01	
TGRSI	2/4/97	C2H3CL	BBND 007	< 1.01	
TGRSI	3/3/97	C2H3CL	BBSG 005	< 1.01	
TGRSI	4/1/97	C2H3CL	BCPP 005	< 1.01	
TGRSI	5/6/97	C2H3CL	BDKL 007	< 1.01	V
TGRSI	6/3/97	C2H3CL	BFFK 005	< 1.01	
TGRSI	7/1/97	C2H3CL	BFXL 007	< 1.01	
TGRSI	9/2/97	C2H3CL	BGQT 007	< 1.01	

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
TGRSI	10/11/96	CCL4	AZTA 005	< 0.99	
TGRSI	11/11/96	CCL4	BAHN 011	< 0.99	
TGRSI	12/3/96	CCL4	BAQE 005	< 0.99	
TGRSI	1/7/97	CCL4	BBCI 005	< 0.99	
TGRSI	2/4/97	CCL4	BBND 007	< 0.99	
TGRSI	3/3/97	CCL4	BBSG 005	< 0.99	
TGRSI	4/1/97	CCL4	BCPP 005	< 0.99	
TGRSI	5/6/97	CCL4	BDKL 007	< 0.99	V
TGRSI	6/3/97	CCL4	BFFK 005	< 0.99	
TGRSI	7/1/97	CCL4	BFXL 007	< 0.99	
TGRSI	9/2/97	CCL4	BGQT 007	< 0.99	
TGRSI	10/11/96	CH2CL2	AZTA 005	< 7.4	
TGRSI	11/11/96	CH2CL2	BAHN 011	< 7.4	
TGRSI	12/3/96	CH2CL2	BAQE 005	< 7.4	
TGRSI	1/7/97	CH2CL2	BBCI 005	< 7.4	
TGRSI	2/4/97	CH2CL2	BBND 007	< 7.4	
TGRSI	3/3/97	CH2CL2	BBSG 005	< 7.4	
TGRSI	4/1/97	CH2CL2	BCPP 005	< 7.4	
TGRSI	5/6/97	CH2CL2	BDKL 007	8.66	V
TGRSI	6/3/97	CH2CL2	BFFK 005	< 7.4	
TGRSI	7/1/97	CH2CL2	BFXL 007	< 7.4	
TGRSI	9/2/97	CH2CL2	BGQT 007	< 7.4	
TGRSI	10/11/96	CHCL3	AZTA 005	< 0.5	
TGRSI	11/11/96	CHCL3	BAHN 011	< 0.5	
TGRSI	12/3/96	CHCL3	BAQE 005	< 0.5	
TGRSI	1/7/97	CHCL3	BBCI 005	< 0.5	
TGRSI	2/4/97	CHCL3	BBND 007	< 0.5	
TGRSI	3/3/97	CHCL3	BBSG 005	0.633	
TGRSI	4/1/97	CHCL3	BCPP 005	< 0.5	
TGRSI	5/6/97	CHCL3	BDKL 007	< 0.5	V
TGRSI	6/3/97	CHCL3	BFFK 005	< 0.5	
TGRSI	7/1/97	CHCL3	BFXL 007	< 0.5	
TGRSI	9/2/97	CHCL3	BGQT 007	< 0.5	
TGRSI	10/11/96	TCLEE	AZTA 005	0.951	
TGRSI	11/11/96	TCLEE	BAHN 011	0.934	
TGRSI	12/3/96	TCLEE	BAQE 005	1.1	
TGRSI	1/7/97	TCLEE	BBCI 005	1.1	
TGRSI	2/4/97	TCLEE	BBND 007	0.846	
TGRSI	3/3/97	TCLEE	BBSG 005	< 0.75	
TGRSI	4/1/97	TCLEE	BCPP 005	1.38	
TGRSI	5/6/97	TCLEE	BDKL 007	< 0.75	V
TGRSI	6/3/97	TCLEE	BFFK 005	2.64	

APPENDIX K.2

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
TGRS, TCAAP

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
TGRSI	7/1/97	TCLEE	BFXL 007	< 0.75	
TGRSI	9/2/97	TCLEE	BGQT 007	< 0.75	
TGRSI	10/11/96	TCLTFE	AZTA 005	2.13	Z
TGRSI	11/11/96	TCLTFE	BAHN 011	1.4	Z
TGRSI	12/3/96	TCLTFE	BAQE 005	1.5	Z
TGRSI	1/7/97	TCLTFE	BBCI 005	1.5	Z
TGRSI	2/4/97	TCLTFE	BBND 007	1.3	Z
TGRSI	3/3/97	TCLTFE	BBSG 005	1.11	Z
TGRSI	4/1/97	TCLTFE	BCPP 005	2.19	Z
TGRSI	5/6/97	TCLTFE	BDKL 007	< 1	TV
TGRSI	6/3/97	TCLTFE	BFFK 005	3.7	Z
TGRSI	7/1/97	TCLTFE	BFXL 007	< 1	T
TGRSI	9/2/97	TCLTFE	BGQT 007	1.32	Z
TGRSI	10/11/96	TRCLE	AZTA 005	630	
TGRSI	11/11/96	TRCLE	BAHN 011	670	
TGRSI	12/3/96	TRCLE	BAQE 005	760	
TGRSI	1/7/97	TRCLE	BBCI 005	710	
TGRSI	2/4/97	TRCLE	BBND 007	660	
TGRSI	3/3/97	TRCLE	BBSG 005	630	
TGRSI	4/1/97	TRCLE	BCPP 005	730	
TGRSI	5/6/97	TRCLE	BDKL 007	340	V
TGRSI	6/3/97	TRCLE	BFFK 005	450	
TGRSI	7/1/97	TRCLE	BFXL 007	165	
TGRSI	9/2/97	TRCLE	BGQT 007	530	

Notes:

Concentrations in µg/L.
See Appendix G.2a for chemical abbreviation cross references.

?	Control chart not yet approved by USAEC
D	Duplicate analysis.
E	The low-spike recovery is low
H	Data is rejected
I	The low-spike recovery is high
R	Non-target compound analyxed for but not detected (GC/MS methods)
T	Non-target compound analyzed for but not detected (non-GS/MS methods)
V	Sample subjected to unusual storage/preservation conditions
U	Analysis is unconfirmed
Z	Non -target compound analyzed for and detected (non-GC/MS methods)

APPENDIX L

Appendix L

TGRS Operational Data and Site K Operational Data

L.1 Fiscal Year 1997 Inspection and Maintenance Activities TGRS, TCAAP

APPENDIX L.1

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
TGRS, TCAAP

October 1996	Notes:
10/1/96	TGRS power shut off to Bldg. 116. TCAAP electrical system being repaired. TGRS shut down to allow work on TGRS raw water loop. All pumphouses Down time: 36.0 hour
10/3-4/96	Treatment Center Wet Well Pump No.2, Pumphouses B12, B11, B10, B8, B7, B3, B2 and SC4: Motor for wet well pump failed and pumphouses were shut down until repairs could be completed. Down time: 22.5 hour
10/7/96	TGRS: Labor action precludes entry to site. Meter readings are estimated. Down time: 0.0 hour
10/10/96	Treatment Center Wet Well Pump No.4: Packing was leaking. Pump was shut down while packing was being replaced. Down time: 1.5 hour
10/10/96	Treatment Center Wet Well Pump No.3, Pumphouses B2, B3, B7, B8, B10, B11, B12, and SC4: Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouses were shut down field cycling until repairs could be completed. Down time: 16.0 hour
10/14-16/96	Treatment Center Electric Check Valve No. 4, Pumphouses B2, B3, B8, B10, B12, and SC4: Electric check valve No.4 required rebuilding and was shutdown for repairs. The pumphouses were shutdown until repairs were completed to reduce well field Down time 23.5 hour
10/17/96	Pumphouse B12: Normal operation solenoid valve failed and was replaced. Down time: 0.5 hour
10/17/96	Treatment Center Electric Check Valve No.2: Normal operation solenoid valve failed and was replaced Down time: 1.0 hour
10/20/96	Pumphouses B1-B6, B8, B9 and B11: Lighting arrestor failure caused a fuse to overload which shut the pumphouses off until repairs could be completed. Down time: 21.0 hour
10/22/96	Treatment Center Electric Check Valve No. 4: The valve was shut down for replacement of gaskets and strainer screen. Down time: 3.0 hour
10/29/96	Pumphouse B4: A 15 amp fuse in the 120/240 VAC switch box failed and was replaced .

APPENDIX L.1

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
TGRS, TCAAP

November 1996	Notes:
11/11/96	Pumphouse B12: Shut down until further notice, as approved by MPCA and Alliant Techsystems. Down time: 0.0 hour
11/12/96	Pumphouse SC4: Shut down until further notice, as approved by MPCA and Alliant Techsystems. Down time: 0.0 hour
11/20/96	Daily inspection was not done due to impassable road condition. Meter readings are estimated. Down time: 0.0 hour
11/27/96	Daily inspection was missed due to technical difficulties. Meter readings are estimated.
11/28-29/96	Daily inspection was not done due to the Thanksgiving holiday. Meter readings are estimated. Down time: 0.0 hour
December 1996	**Notes:**
12/2/96	Pumphouses B1-B4, B8, B11: Frozen locks prevented access to the pumphouses. Meter readings are estimated. Down time: 0.0 hour
12/3/96	TGRS Pumphouses: Due to a snowstorm roads to pumphouses were inaccessible. Meter readings are estimated. Down time: 0.0 hour
12/14/96	Treatment Center: Electric check valve #4 had malfunctioned causing the well field to cycle. Valve was reset Down time: 3.0 hour
12/24/96	TGRS Pumphouses: Due to a snowstorm roads to pumphouses were inaccessible. Meter readings are estimated. Down time: 0.0 hour
12/25/96	TGRS system: Due to the Christmas holiday, the daily inspection was not accomplished. Meter readings are estimated. Down time: 0.0 hour
January 1997	**Notes:**
1/1/97	Treatment System: Electric check valve no. 4 malfunctioned causing the well field to cycle.

APPENDIX L.1

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
TGRS, TCAAP

1/1/97	Treatment System: Daily inspection was not performed because of the holiday. Meter readings are estimated. Down time: 0.0 hour
1/4/97	Treatment System: Electric check valve no. 4 malfunctioned causing the well field to cycle.
1/7/97	Pumphouses B7, B12: New lock with different key on access gate. Key not available at time of inspection and inspection was not performed. Meter readings are estimated.
1/10/97	Pumphouses B3, B4, B 6: Gate to B3 and B4 was frozen. Pumphouse door for B6 was frozen. Pumphouses were inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/12/97	Pumphouses B3-B10, B12: A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/14/97	Pumphouse B1: Electrical contact points for pump starter were corrode. Contact points were replaced. Down time: 2.0 hour
1/15/97	Pumphouses B1-B12, SC2: Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Pumphouses B1-B12: Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/17/97	Pumphouses B1, B3-B6, B8, B9: Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/18/97	Pumphouse B8: Snow blocked gate closed. Pumphouse was inaccessible. Meter reading is estimated. Down time: 0.0 hour
1/18/97	Treatment System: Based on treatment center flow meters and pumphouses B2, B7, B10, B11, SC2, SC3, SC5 flow meters, the system appear to have been down. The cause is unknown. Down time is estimated. Down time: 5.0 hour
1/19/97	Pumphouse B8: Snow blocked gate closed. Pumphouse was inaccessible. Meter reading is estimated. Down time: 0.0 hour

APPENDIX L.1

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
TGRS, TCAAP

1/20/97	Pumphouse B3: Flow rate adjusted. Down time: 0.0 hour
1/20/97	Pumphouse B1: Flow meter appears to be inoperable. Repair scheduled. Down time: 0.0 hour
1/22/97	Pumphouse B1: Flow meter removed and found to be plugged with sand. Well shut down and well repair scheduled. Down time: 8.5 hour
1/23-31/97	Pumphouse B1: Pump and motor pulled from well. Well has minimum of 10 feet of sand fill up. Well redevelopment scheduled for 1/30/97. Down time: 215.5 hour
February 1997	**Notes:**
2/1-14/97	Pumphouse B1: Continuing redevelopment of the well. Down time: 336.0 hour
2/4-7/97	Pumphouse SC2: The flowmeter stopped operating on 2/4/97 due to clogging with iron and manganese sludge. The meter was cleaned on 2/7/97. Down time: 0.5 hour
2/10/97	Pumphouse B3: Adjusted flowrate. Down time: 0.0 hour
2/21/97	Pumphouses B2, B4, B10: Adjusted flowrates. Down time: 0.0 hour
2/24/97	Treatment Center (blower no. 2): Belt was broken and was replaced. Down time: 1.0 hour
2/25/97	Pumphouse B2: Screen in "Y" strainer was clogged. Replaced screen. Solenoid valve had failed. Replaced valve. Down time: 0.0 hour
March 1996	**Notes:**
3/23/97	Treatment Center: Electric check valve no. 1 failed to open on command. System cycling. Valve reset, control piping flushed. Down time: 8.5 hour
3/30/97	Treatment Center: Electric check valve no. 1 failed to open on command. System cycling. Valve reset, control piping flushed. Down time: 9.5 hour
April 1997	**Notes:**

APPENDIX L.1

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
TGRS, TCAAP

4/1-3/97	Pumphouses B7, B10: NSP was onsite replacing sections of the power lines and shut off the pumphouses to facilitate the work. Down time: 72.0 hour
4/2/97	Pumphouses SC2, SC3: NSP was on site replacing sections of the power lines and shut off the pumphouses to facilitate the work. Down time: 24.0 hour
4/7-14/97	Pumphouse B2: Pumphouse was shutdown to clean the riser pipe and replace electric check valve. Down time: 192.0 hour
4/22/97	Pumphouse SC5: NSP was onsite replacing sections of the power lines, and shut off the pumphouse to facilitate the work. Down time: 24.0 hour
4/28/97	Treatment System: The treatment system was shut down to allow replacement of a control component on the TCAAP water tower altitude valve. Down time: 5.5 hour
4/30/97	Treatment System: Wet Well No. 1 disconnect switch failed and was replaced. Down time: 2.0 hour
May 1997	**Notes:**
5/2/97	Treatment Center: Electric check valve no. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 1.5 hour
5/3/97	Treatment Center: Electric check valve no. 3 operated intermittently causing the well field to cycle. Down time: 10.0 hour
5/4/97	Treatment Center: Electric check valve no. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 8.5 hour
5/5/97	Treatment Center: Electric check valve no. 1 closed due to loss of pump pressure. Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 9.0 hour
5/6/97	Treatment Center: Electric check valve no. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 8.0 hour
5/7/97	Treatment Center: Electric check valve no. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 9.0 hour

APPENDIX L.1

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
TGRS, TCAAP

5/8/97	Treatment Center: Electric check valve no. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 15.0 hour
5/8/97	Pumphouse B7: A control panel fuse burned out, shutting down the pumphouse. The fuse was replaced and the pumphouse restarted. Down time: 12.0 hour
5/9/97	Treatment Center: Electric check valve no. 1 closed without command and wet well pump no. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 7.0 hour
5/11/97	Treatment Center: System was cycled several times to check for system faults. No faults were found. Down time: 3.0 hour
5/14/97	Pumphouse SC5: The flow meter failed on May 3, 1997. The pumphouse was shut down to allow cleaning of the flowmeter. Down time: 1.0 hour
5/25/97	Treatment Center: Electric check valve no.2 had closed without command causing system cycling. The pump director was reset and wet well pump no. 2 restarted. Down time: 6.0 hour
June 1997	**Notes:**
6/2/97	Treatment Center: Electric check valve No. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 1.0 hour
6/6/97	Treatment Center: Electric check valve No. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 2.0 hour
6/11/97	Treatment Center: Electric check valve no. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 3.0 hour
6/28/97	Pumphouses B1, SC1, SC2, SC3, SC5: Lighting strikes on site downed power lines which cut power to pumphouses. Down time: 27.5 hour
6/30/97	Treatment Center: Electric check valve no. 1 closed without command and Wet Well No. 3 shut down without indicating failure. Pump nos. 1 & 3 were restarted. Down time: 8.5 hour

APPENDIX L.1

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
TGRS, TCAAP

July 1997	Notes:
7/1-2/97	Treatment Center, Pumphouses B1, B4-B6, B9, SC1: System shut down for rebuilding of electric check valve No. 3 and replacement of cover plate on electric check valve No. Down time: 34.5 hour (Treatment Center), 18.0 hour (B1, B4-B6, B9, SC1)
7/3/97	Pumphouses B2, B3, B7, B8, B10, B11, SC5: Pumphouses shut down due to failure of Wet Well No. 3 pump "On" float switch. Temporarily operate Wet Well No. 3 on Wet Well No. 4 float switches pending repair. Down Time: see 7/4-6/97.
7/4/97	No daily inspection performed due to the Fourth of July holiday. Down time: 0.0 hour
7/4-6/97	Treatment Center, Pumphouses B2, B3, B7, B8, B10, B11, SC3: Electric check valve no. 1 closed without command and would not reset. Shut down Wet Well No. 3 and pumphouses pending repairs. Pumphouse shut down to stop well field cycling. Down time: 82.0 hour (B2, B3, B7, B8, B10, B11), 66.0 hour (SC3)
7/7/97	Treatment Center: Replace 7 inch pilot on electric check valve no. 3. Down time: 2.0 hour
7/9/97	Treatment Center: System shut down for replacement of float switches. Down time: 10.0 hour
7/2-9/97	Pumphouse B4: Pumphouse flow meter failed and was replaced. Pumphouse remained in operation. Volumes are estimated. Down time: 1.0 hour
7/11-18/97	Treatment Center, Pumphouses SC1, B1, B2, B3: Electrical and wind storms caused interruption of electrical service to treatment center and pumphouses. Down time: 14.0 hour (Treatment Center), 134.0 hour (B1-B3), 168.0 hour (SC1)
7/22/97	Treatment Center: System down for annual preventive maintenance. Down time: 5.0 hour
7/23/97	Treatment Center: Wet Well No. 1 float entangled in float mount. Untangle float and changed float alignment. Down time: 23.0 hour
7/24/97	Snelling Ave. Back Pressure Valve: Valve was adjusted to maintain too high a pressure causing a reduction in treatment center capacity and well field cycling. Down time 17.0 hour
7/28-29/97	Pumphouse B2: Pump failed and was replaced. Down time: 25.0 hour

APPENDIX L.1

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
TGRS, TCAAP

August 1997	Notes:
8/1/97	Treatment System: Wet Well No. 1 had tripped one leg of the power supply circuit breaker which shut down the well and could not be reset until 08/02/97. Down time: 14.5 hour
8/4/97	Pumphouse B2: Flow meter had jammed with a fragment of metal and was shut down for repair. Down time: 1.5 hour
September 1996	**Notes:**
9/1/97	The daily inspection was not done because of the Labor Day Holiday. Down time: 0.0 hour
9/11/97	Treatment Center: Wet Well No. 4, There was excessive leaking at the pump turbine. The packing was adjusted and greased. Down time: 0.0 hour
9/11/97	Treatment Center: Wet Well Nos. 3 and 4 pressure gauges had failed and were replaced.
9/16-17/97	Pumphouses SC1, SC2, SC4, and SC5: Pumphouses were shutdown due to an electrical storm which knocked out power to those areas. Down time: 4.5 hour

L.2 1997 Events, TGRS, TCAAP

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

B1

10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour
12/2/96	Frozen locks prevented access to the pumphouse. Meter readings are estimated. Down time: 0.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/14/97	Electrical contact points for pump starter were corrode. Contact points were replaced. Down time: 2.0 hour
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/17/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/20/97	Flow meter appears to be inoperable. Repair scheduled. Down time: 0.0 hour
1/22/97	Flow meter removed and found to be plugged with sand. Well shut down and well repair scheduled. Down time: 8.5 hour
1/23-31/97	Pump and motor pulled from well. Well has minimum of 10 feet of sand fill up. Well redevelopment scheduled for 1/30/97. Down time: 215.5 hour
2/1-14/97	Continuing redevelopment of the well. Down time: 336.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

6/28/97	Lighting strikes on site downed power lines which cut power to pumphouse. Down time: 27.5 hour
7/1-2/97	System shut down for rebuilding of electric check valve No. 3 and replacement of cover plate on electric check valve No. 4. Down time: 18.0 hour
7/11-18/97	Electrical and wind storms caused interruption of electrical service to treatment center and pumphouses. Down time: 134.0 hour

B2

10/3-4/96	Motor for wet well pump failed and pumphouse was shut down until repairs could be completed. Down time: 22.5 hour
10/10/96	Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouse was shut down to reduce well field cycling until repairs could be completed Down time: 16.0 hour
10/14-16/96	Electric check valve No.4 required rebuilding and was shutdown for repairs. The pumphouse was shutdown until repairs were completed to reduce well field cycling. Down time: 23.5 hour
10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour
12/2/96	Frozen locks prevented access to the pumphouse. Meter readings are estimated. Down time: 0.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated. Down time: 0.0 hour
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated. Down time: 0.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
2/21/97	Adjusted flowrates. Down time: 0.0 hour
2/25/97	Screen in "Y" strainer was clogged. Replaced screen. Solenoid valve had failed. Replaced valve. Down time: 0.0 hour
4/7-14/97	Pumphouse was shutdown to clean the riser pipe and replace electric check valve. Down time: 192.0 hour
7/3/97	Pumphouse shut down due to failure of Wet Well No. 3 pump "On" float switch. Temporarily operate Wet Well No. 3 on Wet Well No. 4 float switches pending repair. Down Time: see 7/4-6/97.
7/4-6/97	Electric check valve no. 1 closed without command and would not reset. Shut down Wet Well No. 3 and pumphouse pending repairs. Pumphouse shut down to stop well field cycling. Down time: 82.0 hour
7/11-18/97	Electrical and wind storms caused interruption of electrical service to treatment center and pumphouses. Down time: 134.0 hour
7/28-29/97	Pump failed and was replaced. Down time: 25.0 hour
8/4/97	Flow meter had jammed with a fragment of metal and was shut down for repair. Down time: 1.5 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

B3

10/3-4/96	Motor for wet well pump failed and pumphouse was shut down until repairs could be completed. Down time: 22.5 hour
10/10/96	Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouse was shut down to reduce well field cycling until repairs could be completed Down time: 16.0 hour
10/14-16/96	Electric check valve No.4 required rebuilding and was shutdown for repairs. The pumphouse was shutdown until repairs were completed to reduce well field cycling. Down time: 23.5 hour
10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour
12/2/96	Frozen locks prevented access to the pumphouse. Meter readings are estimated. Down time: 0.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/10/97	Gate to B3 and B4 was frozen. Pumphouse door for B6 was frozen. Pumphouse was inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/12/97	A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

1/17/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/20/97	Flow rate adjusted. Down time: 0.0 hour
2/10/97	Adjusted flowrate. Down time: 0.0 hour
7/3/97	Pumphouse shut down due to failure of Wet Well No. 3 pump "On" float switch. Temporarily operate Wet Well No. 3 on Wet Well No. 4 float switches pending repair. Down Time: see 7/4-6/97.
7/4-6/97	Electric check valve no. 1 closed without command and would not reset. Shut down Wet Well No. 3 and pumphouse pending repairs. Pumphouse shut down to stop well field cycling. Down time: 82.0 hour
7/11-18/97	Electrical and wind storms caused interruption of electrical service to treatment center and pumphouses. Down time: 134.0 hour

B4

10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour
10/29/96	A 15 amp fuse in the 120/240 VAC switch box failed and was replaced . Down time: 1.0 hour
12/2/96	Frozen locks prevented access to the pumphouse. Meter readings are estimated. Down time: 0.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/10/97	Gate to B3 and B4 was frozen. Pumphouse door for B6 was frozen. Pumphouse was inaccessible. Meter readings are estimated. Down time: 0.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

1/12/97	A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/17/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
2/21/97	Adjusted flowrates. Down time: 0.0 hour
7/2-9/97	Pumphouse flow meter failed and was replaced. Pumphouse remained in operation. Volumes are estimated. Down time: 1.0 hour
7/1-2/97	System shut down for rebuilding of electric check valve No. 3 and replacement of cover plate on electric check valve No. 4. Down time: 18.0 hour

B5

10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/12/97	A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/17/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
7/1-2/97	System shut down for rebuilding of electric check valve No. 3 and replacement of cover plate on electric check valve No. 4. Down time: 18.0 hour

B6

10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/10/97	Gate to B3 and B4 was frozen. Pumphouse door for B6 was frozen. Pumphouse was inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/12/97	A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

1/17/97 Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated.
Down time: 0.0 hour

7/1-2/97 System shut down for rebuilding of electric check valve No. 3 and replacement of cover plate on electric check valve No. 4.
Down time: 18.0 hour

B7

10/3-4/96 Motor for wet well pump failed and pumphouse was shut down until repairs could be completed.
Down time: 22.5 hour

10/10/96 Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouse was shut down to reduce well field cycling until repairs could be completed
Down time: 16.0 hour

12/3/96 Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.

12/24/96 Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.

1/7/97 New lock with different key on access gate. Key not available at time of inspection and inspection was not performed. Meter readings are estimated.
Down time: 0.0 hour

1/12/97 A snowstorm made the roads inaccessible. Meter readings are estimated.
Down time: 0.0 hour

1/15/97 Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated.
Down time: 0.0 hour

1/16/97 Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated.
Down time: 0.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

4/1-3/97	NSP was onsite replacing sections of the power lines and shut off the pumphouse to facilitate the work. Down time: 72.0 hour
5/8/97	A control panel fuse burned out, shutting down the pumphouse. The fuse was replaced and the pumphouse restarted. Down time: 12.0 hour
7/3/97	Pumphouse shut down due to failure of Wet Well No. 3 pump "On" float switch. Temporarily operate Wet Well No. 3 on Wet Well No. 4 float switches pending repair. Down Time: see 7/4-6/97.
7/4-6/97	Electric check valve no. 1 closed without command and would not reset. Shut down Wet Well No. 3 and pumphouse pending repairs. Pumphouse shut down to stop well field cycling. Down time: 82.0 hour

B8

10/3-4/96	Motor for wet well pump failed and pumphouse was shut down until repairs could be completed. Down time: 22.5 hour
10/10/96	Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouse was shut down to reduce well field cycling until repairs could be completed Down time: 16.0 hour
10/14-16/96	Electric check valve No.4 required rebuilding and was shutdown for repairs. The pumphouse was shutdown until repairs were completed to reduce well field cycling. Down time: 23.5 hour
10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour
12/2/96	Frozen locks prevented access to the pumphouse. Meter readings are estimated. Down time: 0.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/12/97	A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/17/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/18/97	Snow blocked gate closed. Pumphouse was inaccessible. Meter reading is estimated. Down time: 0.0 hour
1/19/97	Snow blocked gate closed. Pumphouse was inaccessible. Meter reading is estimated. Down time: 0.0 hour
7/3/97	Pumphouse shut down due to failure of Wet Well No. 3 pump "On" float switch. Temporarily operate Wet Well No. 3 on Wet Well No. 4 float switches pending repair. Down Time: see 7/4-6/97.
7/4-6/97	Electric check valve no. 1 closed without command and would not reset. Shut down Wet Well No. 3 and pumphouse pending repairs. Pumphouse shut down to stop well field cycling. Down time: 82.0 hour

B9

10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.

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FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/12/97	A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/17/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
7/1-2/97	System shut down for rebuilding of electric check valve No. 3 and replacement of cover plate on electric check valve No. 4. Down time: 18.0 hour

B10

10/3-4/96	Motor for wet well pump failed and pumphouse was shut down until repairs could be completed. Down time: 22.5 hour
10/10/96	Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouse was shut down to reduce well field cycling until repairs could be completed Down time: 16.0 hour
10/14-16/96	Electric check valve No.4 required rebuilding and was shutdown for repairs. The pumphouse was shutdown until repairs were completed to reduce well field cycling. Down time: 23.5 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

1/12/97	A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
2/21/97	Adjusted flowrates. Down time: 0.0 hour
4/1-3/97	NSP was onsite replacing sections of the power lines and shut off the pumphouse to facilitate the work. Down time: 72.0 hour
7/3/97	Pumphouse shut down due to failure of Wet Well No. 3 pump "On" float switch. Temporarily operate Wet Well No. 3 on Wet Well No. 4 float switches pending repair. Down Time: see 7/4-6/97.
7/4-6/97	Electric check valve no. 1 closed without command and would not reset. Shut down Wet Well No. 3 and pumphouse pending repairs. Pumphouse shut down to stop well field cycling. Down time: 82.0 hour

B11

10/3-4/96	Motor for wet well pump failed and pumphouse was shut down until repairs could be completed. Down time: 22.5 hour
10/10/96	Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouse was shut down to reduce well field cycling until repairs could be completed Down time: 16.0 hour
10/20/96	Lighting arrestor failure caused a fuse to overload which shut the pumphouse off until repairs could be completed. Down time: 21.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

12/2/96	Frozen locks prevented access to the pumphouse. Meter readings are estimated. Down time: 0.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
7/3/97	Pumphouse shut down due to failure of Wet Well No. 3 pump "On" float switch. Temporarily operate Wet Well No. 3 on Wet Well No. 4 float switches pending repair. Down Time: see 7/4-6/97.
7/4-6/97	Electric check valve no. 1 closed without command and would not reset. Shut down Wet Well No. 3 and pumphouse pending repairs. Pumphouse shut down to stop well field cycling. Down time: 82.0 hour

B12

10/3-4/96	Motor for wet well pump failed and pumphouse was shut down until repairs could be completed. Down time: 22.5 hour
10/10/96	Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouse was shut down to reduce well field cycling until repairs could be completed Down time: 16.0 hour
10/14-16/96	Electric check valve No.4 required rebuilding and was shutdown for repairs. The pumphouse was shutdown until repairs were completed to reduce well field cycling. Down time: 23.5 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

10/17/96	Normal operation solenoid valve failed and was replaced. Down time: 0.5 hour
11/11/96	Shut down until further notice, as approved by MPCA and Alliant Techsystems. Down time: 0.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/7/97	New lock with different key on access gate. Key not available at time of inspection and inspection was not performed. Meter readings are estimated. Down time: 0.0 hour
1/12/97	A snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
1/16/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour

SC1

12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
6/28/97	Lighting strikes on site downed power lines which cut power to pumphouse. Down time: 27.5 hour
7/1-2/97	System shut down for rebuilding of electric check valve No. 3 and replacement of cover plate on electric check valve No. 4. Down time: 18.0 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

7/11-18/97	Electrical and wind storms caused interruption of electrical service to treatment center and pumphouse. Down time: 168.0 hour
9/16-17/97	Pumphouse was shutdown due to an electrical storm which knocked out power. Down time: 4.5 hour

SC2

12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
1/15/97	Blowing snow from recent snowstorm made the roads inaccessible. Meter readings are estimated. Down time: 0.0 hour
2/4-7/97	The flowmeter stopped operating on 2/4/97 due to clogging with iron and manganese sludge. The meter was cleaned on 2/7/97. Down time: 0.5 hour
4/2/97	NSP was on site replacing sections of the power lines and shut off the pumphouse to facilitate the work. Down time: 24.0 hour
6/28/97	Lighting strikes on site downed power lines which cut power to pumphouse. Down time: 27.5 hour
9/16-17/97	Pumphouse was shutdown due to an electrical storm which knocked out power. Down time: 4.5 hour

SC3

12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

4/2/97	NSP was on site replacing sections of the power lines and shut off the pumphouse to facilitate the work. Down time: 24.0 hour
6/28/97	Lighting strikes on site downed power lines which cut power to pumphouse. Down time: 27.5 hour
7/4-6/97	Electric check valve no. 1 closed without command and would not reset. Shut down Wet Well No. 3 and pumphouse pending repairs. Pumphouse shut down to stop well field cycling. Down time: 66.0 hour

SC4

10/3-4/96	Motor for wet well pump failed and pumphouse was shut down until repairs could be completed. Down time: 22.5 hour
10/10/96	Blown fuse in Wet Well Pump No.3. Pump director made wet well pump inoperable and thus reduced treatment center capacity. Pumphouse was shut down to reduce well field cycling until repairs could be completed Down time: 16.0 hour
10/14-16/96	Electric check valve No.4 required rebuilding and was shutdown for repairs. The pumphouse was shutdown until repairs were completed to reduce well field cycling. Down time: 23.5 hour
11/12/96	Shut down until further notice, as approved by MPCA and Alliant Techsystems. Down time: 0.0 hour
12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
9/16-17/97	Pumphouse was shutdown due to an electrical storm which knocked out power. Down time: 4.5 hour

APPENDIX L.2

FISCAL YEAR 1997 EVENTS
TGRS, TCAAP

SC5

12/3/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
12/24/96	Due to a snowstorm roads to pumphouse was inaccessible. Meter readings are estimated.
4/22/97	NSP was onsite replacing sections of the power lines, and shut off the pumphouse to facilitate the work. Down time: 24.0 hour
5/14/97	The flow meter failed on May 3, 1997. The pumphouse was shut down to allow cleaning of the flowmeter. Down time: 1.0 hour
6/28/97	Lighting strikes on site downed power lines which cut power to pumphouse. Down time: 27.5 hour
7/3/97	Pumphouse shut down due to failure of Wet Well No. 3 pump "On" float switch. Temporarily operate Wet Well No. 3 on Wet Well No. 4 float switches pending repair. Down Time: see 7/4-6/97.
9/16-17/97	Pumphouse was shutdown due to an electrical storm which knocked out power. Down time: 4.5 hour

L.3 Fiscal Year 1997 Inspection and Maintenance Activities Site K, TCAAP

APPENDIX L.3

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES SITE K, TCAAP

October 1996	**Notes:**
10/18/96	Tower packing changed out and distribution nozzle cleaned. Down time: 6.0 hours.
December 1996	**Notes:**
12/11/96	Tower packing changed out and distribution nozzle cleaned. Down time: 6.0 hours.
January 1997	**Notes:**
1/31/97	Insulated air stripping tower base. Down time: 6.0 hours.
February 1997	**Notes:**
2/18/97	Tower packing changed out and distribution nozzle cleaned. Down time: 5.5 hours.
May 1997	**Notes:**
5/5/97	Change out tower packing. Down time: 5.5 hours.
5/6/97	Clean sump pump and influent piping. Down time: 6.0 hours.
5/9/97	Remove excess tower packing. Down time: 1.0 hours.
5/12/97	Reinstall pipe coupling. Down time: 0.75 hours.
5/14/97	Replace pipe couplings. Down time: 1.0 hours.

APPENDIX L.3

FISCAL YEAR 1997 INSPECTION AND MAINTENANCE ACTIVITIES
SITE K, TCAAP

6/24/97	Clean influent piping. Down time: 2.0 hours.
June 1997	**Notes:**
6/12/97	Replace influent flow meter. Down time: 1.0 hours.
6/16-17/97	Clean influent collection manhole. Down time: 8.0 hours.
6/24/97	Clean influent piping. Down time: 2.0 hours.
July 1997	**Notes:**
7/23/97	Tower packing changed out and distribution nozzle cleaned. Down time: 7.5 hours.
September 1997	**Notes:**
9/10/97	Tower packing changed out and distribution nozzle cleaned. Down time: 16.5 hours.

APPENDIX M

Appendix M

PGRS Hydraulic, Operational and Chemical Data

M.1 Historical Groundwater Elevations (FT. AMSL) PGRS, TCAAP

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*TOC Elevation*	*3/30/94*	*3/31/94*	*4/10/94*	*4/17/94*	*4/18/94 (AM)*	*4/18/94 (noon)*
03U673	897.84	843.91	844.33	844.11	843.94	844.70	844.74
03L673	898.44	843.01	843.37	843.15	842.99	843.94	843.95
04U673	898.34	843.16	843.54	843.32	843.16	844.13	844.13
03U832	886.82	834.71	835.06	834.98	835.03	835.52	835.54
03L832	886.85	834.58	834.90	834.89	834.95	835.40	835.42
04U832	885.31	834.45	834.74	834.79	835.29	835.29	835.29
03L841	911.91	842.37	842.76	842.53	842.26	843.29	843.31
04U841	912.47	842.56	842.91	842.70	842.45	843.50	843.52
04U844	886.74	834.39	834.72	834.69	834.76	835.23	835.24
04U845	894.91	-	836.46	836.43	836.43	836.99	836.98
03L846	888.54	-	-	-	832.63	832.95	832.89
04U846	889.46	831.87	831.96	832.13	832.31	832.56	832.06
03M848	904.12	840.95	841.39	841.15	841.02	841.77	841.80
03L848	903.91	841.44	841.84	841.61	841.47	842.28	842.30
04U848	903.92	842.18	842.57	842.37	842.18	843.11	843.15
04U851	914.51	831.29	831.38	831.63	831.81	832.05	831.69
04U852	905.66	829.18	829.28	829.61	829.76	830.03	829.71
03L854	892.41	838.39	838.88	838.58	838.55	839.16	839.19
04U854	891.95	834.73	835.14	835.20	835.27	835.66	835.71
03L859	903.55	838.96	839.48	839.16	839.08	839.77	839.79
04U859	903.73	841.83	842.22	841.98	841.81	842.75	842.78
03L860	896.79	838.65	839.10	838.83	838.81	839.43	839.45
04U860	896.61	834.70	835.04	835.11	835.18	835.61	835.61
03L861	891.35	836.95	837.47	837.18	837.15	837.77	837.80
04U861	890.91	834.90	835.25	835.28	835.31	835.77	835.76
04U863	895.33	834.31	834.59	834.67	834.79	835.13	835.13
04U864	908.67	832.60	832.70	832.91	833.07	833.25	832.07
04J864	908.79	827.76	828.03	828.45	829.15	829.53	829.42
04U865	915.60	833.15	833.30	833.45	833.63	833.83	832.46
04U866	910.60	831.97	832.05	832.27	832.44	832.60	831.25
04J866	910.69	828.46	828.73	829.14	829.87	830.19	830.07
04U877	923.08	831.31	831.30	831.57	831.77	831.95	831.53
MPCA1L3	898.25	-	838.03	837.71	837.65	838.30	838.35
MPCA1U4	898.60	-	836.33	836.18	836.13	836.74	836.75
MPCA2L3	872.05	-	833.60	833.59	833.68	834.10	833.95
MPCA2U4	872.19	-	832.71	832.78	832.93	833.29	832.99
414U4	893.95	834.05	834.33	834.45	834.61	834.94	834.85
MW15H	911.52	-	834.81	834.67	834.77	835.28	835.27
NB WELL 13	914.66	-	-	-	-	-	820.66

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*TOC Elevation*	*4/18/94 (PM)*	*4/19/94*	*4/20/94*	*4/21/94*	*4/22/94*	*4/25/94*
03U673	897.84	844.74	844.10	844.00	844.04	844.13	844.67
03L673	898.44	843.86	843.12	843.09	843.09	843.17	843.58
04U673	898.34	844.04	843.29	843.27	843.26	843.34	843.73
03U832	886.82	835.43	834.87	834.98	835.08	835.17	835.37
03L832	886.85	835.27	834.71	834.85	834.99	835.07	835.24
04U832	885.31	835.11	834.59	834.74	834.89	834.98	835.12
03L841	911.91	843.21	842.42	842.39	842.39	842.50	842.90
04U841	912.47	843.42	842.59	842.59	842.56	842.67	843.03
04U844	886.74	835.08	834.47	834.64	834.76	834.83	835.01
04U845	894.91	836.84	836.26	836.38	836.47	836.53	836.80
03L846	888.54	832.81	832.48	832.63	832.71	832.72	832.83
04U846	889.46	831.91	831.51	832.16	832.27	832.22	832.31
03M848	904.12	841.79	841.15	841.11	841.15	841.25	841.69
03L848	903.91	842.27	841.58	841.55	841.59	841.70	842.11
04U848	903.92	843.07	842.32	842.29	842.28	842.42	842.80
04U851	914.51	831.44	830.98	831.45	831.70	831.65	831.76
04U852	905.66	829.40	828.94	829.32	829.49	829.41	829.59
03L854	892.41	839.21	838.66	838.62	838.70	838.93	839.27
04U854	891.95	835.50	834.97	835.11	835.22	835.40	835.49
03L859	903.55	839.79	839.21	839.16	838.72	839.47	839.77
04U859	903.73	842.68	841.93	841.92	841.92	842.12	842.39
03L860	896.79	839.45	838.92	838.89	838.94	839.06	839.52
04U860	896.61	835.46	834.89	835.08	835.21	835.23	835.46
03L861	891.35	837.80	837.24	837.21	837.29	837.54	837.83
04U861	890.91	835.61	835.06	835.22	835.36	835.49	835.60
04U863	895.33	834.93	834.44	834.63	834.70	834.88	835.06
04U864	908.67	831.80	831.30	832.26	833.04	833.04	833.16
04J864	908.79	829.15	828.31	828.54	828.52	828.28	828.45
04U865	915.60	832.16	831.66	832.80	833.64	833.69	833.79
04U866	910.60	830.96	830.51	831.60	832.40	832.39	832.46
04J866	910.69	829.79	828.94	829.23	829.21	829.22	829.13
04U877	923.08	831.34	830.95	831.54	831.71	831.64	831.76
MPCA1L3	898.25	838.34	837.76	837.73	837.81	838.02	838.33
MPCA1U4	898.60	836.68	836.08	836.14	836.20	836.36	836.57
MPCA2L3	872.05	833.83	833.33	833.60	833.74	833.74	833.88
MPCA2U4	872.19	832.85	832.39	832.83	832.93	832.93	832.98
414U4	893.95	834.61	834.10	834.37	834.59	834.65	834.82
MW15H	911.52	835.23	834.61	834.72	834.83	834.92	835.14
NB WELL 13	914.66	-	824.16	829.86	-	832.78	-

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*TOC Elevation*	*4/26/94*	*4/28/94*	*4/29/94*	*5/2/94* *0.49*	*5/9/94* *0.43*	*5/16/94* *0.48*
03U673	897.84	844.90	843.92	843.92	844.20	844.37	843.97
03L673	898.44	843.76	842.98	842.94	843.21	843.27	842.91
04U673	898.34	843.91	843.15	843.11	843.38	843.43	843.08
03U832	886.82	835.44	834.81	834.82	835.25	835.04	834.44
03L832	886.85	835.28	834.64	834.70	835.13	834.91	834.31
04U832	885.31	835.15	834.50	834.61	835.02	834.81	834.19
03L841	911.91	843.10	842.28	842.26	842.52	842.56	842.26
04U841	912.47	843.22	842.45	842.44	842.69	842.72	842.39
04U844	886.74	835.00	834.39	834.45	834.86	834.65	834.05
04U845	894.91	836.84	836.20	836.30	836.69	836.51	835.93
03L846	888.54	832.87	832.39	832.44	832.69	832.45	832.07
04U846	889.46	832.01	831.32	831.91	832.15	831.68	831.18
03M848	904.12	841.90	841.04	841.02	841.30	841.41	841.01
03L848	903.91	842.31	841.46	841.45	841.72	841.81	841.40
04U848	903.92	842.96	842.20	842.17	842.42	842.46	842.10
04U851	914.51	831.66	830.84	830.88	831.60	831.26	830.60
04U852	905.66	829.48	828.93	828.86	829.51	829.29	828.53
03L854	892.41	839.51	838.57	838.58	838.88	839.03	838.55
04U854	891.95	835.52	834.87	835.10	835.49	835.23	834.58
03L859	903.55	840.02	839.09	839.08	839.40	839.50	839.04
04U859	903.73	842.59	841.78	841.79	842.05	842.08	841.71
03L860	896.79	839.72	838.84	838.81	839.12	839.28	838.78
04U860	896.61	835.39	834.84	835.00	835.35	835.11	834.47
03L861	891.35	838.04	837.14	837.15	837.47	837.54	836.99
04U861	890.91	835.62	835.00	835.13	835.53	835.30	834.71
04U863	895.33	834.94	834.38	834.40	834.95	834.73	834.02
04U864	908.67	832.61	831.25	831.28	832.89	832.27	830.77
04J864	908.79	828.25	828.26	827.87	828.51	828.76	827.29
04U865	915.60	832.15	831.59	831.62	833.75	832.68	831.35
04U866	910.60	830.94	830.35	830.44	832.08	831.65	830.15
04J866	910.69	828.84	828.98	828.54	829.17	829.48	827.90
04U877	923.08	831.58	830.62	830.83	831.45	831.11	830.61
MPCA1L3	898.25	838.54	837.63	837.64	837.97	838.01	837.51
MPCA1U4	898.60	836.67	835.95	836.02	836.38	836.19	835.69
MPCA2L3	872.05	833.91	833.25	833.32	833.77	833.45	832.93
MPCA2U4	872.19	832.94	832.24	832.41	832.89	832.52	831.96
414U4	893.95	834.60	834.02	834.04	834.72	834.45	833.68
MW15H	911.52	835.24	834.60	834.62	835.04	834.76	834.14
NB WELL 13	914.66	822.66	822.16	822.21	822.66	830.87	821.81

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*TOC Elevation*	*5/23/94*	*6/20/94* *0.49*	*7/19/94* *0.60*	*10/10/94*	*1/27/95*	*3/6/95*
03U673	897.84	844.35	844.01	845.00	843.06	843.42	843.31
03L673	898.44	843.20	842.81	844.33	842.23	842.24	842.12
04U673	898.34	843.34	842.95	843.93	842.43	842.39	842.24
03U832	886.82	834.31	833.55	833.48	832.65	833.36	833.24
03L832	886.85	834.14	833.33	833.25	832.49	833.20	833.48
04U832	885.31	833.99	833.19	833.09	832.39	833.07	833.14
03L841	911.91	842.50	842.10	843.37	841.48	841.55	841.42
04U841	912.47	842.60	842.20	843.55	841.71	841.65	841.53
04U844	886.74	833.90	833.18	833.20	832.29	833.09	833.16
04U845	894.91	835.83	835.16	835.29	834.23	834.94	834.94
03L846	888.54	831.96	831.16	830.78	830.16	830.74	830.92
04U846	889.46	830.91	830.06	829.74	829.44	830.11	830.23
03M848	904.12	841.31	840.84	841.46	839.75	840.21	840.14
03L848	903.91	841.69	841.18	841.95	840.28	840.62	frozen
04U848	903.92	842.36	841.94	843.02	841.27	841.40	841.27
04U851	914.51	830.23	829.20	829.01	828.85	829.72	829.87
04U852	905.66	827.90	plugged	826.62	826.83	827.91	828.13
03L854	892.41	838.81	838.26	838.30	836.93	837.56	837.59
04U854	891.95	834.44	833.63	833.60	832.83	833.52	833.54
03L859	903.55	839.30	838.79	839.07	837.48	838.14	838.15
04U859	903.73	841.92	841.51	842.57	840.83	840.96	840.88
03L860	896.79	839.09	838.51	838.54	837.22	837.86	837.84
04U860	896.61	834.31	833.57	833.41	832.75	833.38	833.43
03L861	891.35	837.17	836.55	836.54	835.25	835.99	836.03
04U861	890.91	834.53	833.78	833.76	832.97	833.63	833.66
04U863	895.33	833.82	832.92	832.79	832.18	832.85	832.95
04U864	908.67	830.76	829.72	829.55	829.07	829.71	829.88
04J864	908.79	826.49	825.46	825.93	825.04	826.81	826.92
04U865	915.60	831.14	830.22	830.04	829.54	830.14	830.24
04U866	910.60	829.96	828.90	828.72	828.28	828.97	829.22
04J866	910.69	827.25	826.26	826.71	825.71	827.46	827.57
04U877	923.08	830.30	829.34	828.98	828.84	829.50	829.76
MPCA1L3	898.25	837.70	837.13	837.27	835.82	836.58	836.59
MPCA1U4	898.60	835.64	835.03	835.22	834.05	834.74	834.80
MPCA2L3	872.05	832.75	831.94	831.81	831.12	831.89	831.93
MPCA2U4	872.19	831.78	830.93	830.71	830.14	830.91	830.99
414U4	893.95	833.44	832.55	832.43	831.91	832.59	832.67
MW15H	911.52	834.12	833.30	833.12	832.36	833.11	833.19
NB WELL 13	914.66	-	820.58	820.26	819.41	819.66	819.66

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*TOC Elevation*	*6/21/95 8:00 A.M.*	*9/5/95*	*12/14/95*	*3/5/96*	*5/28/96*	*9/16/96*
03U673	897.84	843.59	842.55	843.33	843.28	843.84	842.44
03L673	898.44	842.76	841.34	842.14	842.23	842.84	840.97
04U673	898.34	842.96	841.49	842.29	842.38	843.00	841.08
03U832	886.82	833.02	832.57	833.26	833.55	834.26	831.27
03L832	886.85	832.82	832.40	833.11	833.40	834.55	831.09
04U832	885.31	832.63	832.27	832.97	833.27	833.89	830.93
03L841	911.91	842.03	840.53	841.48	841.47	842.13	840.18
04U841	912.47	842.23	840.69	841.59	841.63	842.30	840.27
04U844	886.74	832.59	832.22	833.00	833.26	833.75	830.99
04U845	894.91	834.64	834.06	834.87	835.07	835.70	832.94
03L846	888.54	830.62	830.20	830.51	830.94	831.51	828.83
04U846	889.46	829.35	829.25	829.69	830.08	830.17	827.71
03M848	904.12	840.39	839.38	840.18	frozen	840.85	838.97
03L848	903.91	840.91	840.48	840.61	frozen	841.28	839.39
04U848	903.92	841.82	840.49	841.33	frozen	841.99	840.08
04U851	914.51	828.58	828.55	829.49	829.91	829.86	827.25
04U852	905.66	826.08	826.04	827.66	828.16	827.76	obstructed
03L854	892.41	837.56	836.87	837.63	837.65	838.41	836.06
04U854	891.95	833.00	832.68	833.46	833.71	834.36	831.41
03L859	903.55	838.12	837.33	838.14	838.13	838.95	836.53
04U859	903.73	841.42	840.09	840.95	841.00	841.63	839.47
03L860	896.79	837.83	837.11	837.90	837.92	838.66	836.58
04U860	896.61	832.98	832.57	833.40	833.59	834.30	831.38
03L861	891.35	835.86	835.23	836.03	836.09	836.89	834.22
04U861	890.91	833.20	832.80	833.59	833.75	834.45	831.56
04U863	895.33	832.42	832.09	832.76	833.14	833.75	830.86
04U864	908.67	829.10	829.01	829.50	829.97	830.23	827.63
04J864	908.79	824.22	824.77	827.23	827.49	826.50	823.55
04U865	915.60	829.50	829.33	829.67	830.41	830.63	827.84
04U866	910.60	828.24	828.14	828.40	829.06	829.14	826.74
04J866	910.69	825.13	825.55	827.80	828.07	827.17	824.83
04U877	923.08	828.63	828.71	829.14	829.53	829.48	827.06
MPCA1L3	898.25	836.45	835.79	836.58	836.63	837.35	834.80
MPCA1U4	898.60	834.49	833.89	834.68	834.85	835.45	832.73
MPCA2L3	872.05	831.43	831.08	831.63	832.03	832.55	829.74
MPCA2U4	872.19	830.31	830.07	830.62	830.99	831.36	828.69
414U4	893.95	832.03	830.77	832.48	832.90	833.36	830.57
MW15H	911.52	832.85	832.41	833.02	833.34	834.10	831.10
NB WELL 13	914.66	819.66	819.66	816.10	820.01	819.66	819.66

HISTORICAL GROUNDWATER ELEVATIONS (FT. AMSL)
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Location	*TOC Elevation*	*12/3/96*	*5/30/97*	*9/2/97*
03U673	897.84	*842.16*	*842.39*	
03L673	898.44	840.99	841.06	
04U673	898.34	841.13	841.21	
03U832	886.82	832.31	831.36	
03L832	886.85	832.16	831.22	
04U832	885.31	832.04	831.11	
03L841	911.91	840.31	840.34	
04U841	912.47	840.48	840.42	
04U844	886.74	832.02	831.23	
04U845	894.91	833.93	833.23	
03L846	888.54	829.46	828.41	
04U846	889.46	828.49	827.60	
03M848	904.12	839.01	838.99	
03L848	903.91	frozen	839.40	
04U848	903.92	840.22	840.18	
04U851	914.51	828.46	827.97	
04U852	905.66	obstructed	obstructed	
03L854	892.41	836.38	836.20	
04U854	891.95	832.56	831.68	
03L859	903.55	836.68	836.77	
04U859	903.73	839.84	839.82	
03L860	896.79	836.68	836.49	
04U860	896.61	832.53	831.41	
03L861	891.35	834.79	834.41	
04U861	890.91	832.65	831.79	
04U863	895.33	831.88	830.92	
04U864	908.67	828.59	828.68	
04J864	908.79	825.99	825.07	
04U865	915.60	829.01	829.05	
04U866	910.60	827.43	826.23	
04J866	910.69	826.54	825.76	
04U877	923.08	827.85	827.45	
MPCA1L3	898.25	835.34	835.04	
MPCA1U4	898.60	833.66	832.99	
MPCA2L3	872.05	830.62	829.66	
MPCA2U4	872.19	829.54	828.58	
414U4	893.95	831.64	830.72	830.40
MW15H	911.52	832.11	831.08	
NB WELL 13	914.66	818.33	827.94	

M.2 Daily Pumping Summary for Fiscal Year 1997
(in 1,000 Gallons)
PGRS, TCAAP

APPENDIX M.2

DAILY PUMPING SUMMARY FOR FISCAL YEAR 1997
(IN 1,000 GALLONS)
PGRS, TCAAP

Day	*October 1996*	*November 1996*	*December 1996*	*January 1997*	*February 1997*	*March 1997*	*April 1997*	*May 1997*	*June 1997*	*July 1997*	*August 1997*	*September 1997*
1	1483	1057	1460	1591	1540	1394	1444	1424	1343	1660	1450	1530
2	1360	1028	1388	1268	1433	1581	1377	1440	1418	1670	1541	1428
3	1449	1067	1401	1443	1326	1403	1415	1378	1493	1735	1371	575
4	1397	1068	1399	1390	1394	1401	1411	1568	1361	1589	1375	1312
5	1541	1026	1436	1386	1540	1424	1445	1323	1666	1637	1407	1457
6	1360	927	1284	1479	1371	1445	1366	1511	1663	1792	1404	1351
7	1421	1049	1527	1439	1367	1399	1452	1324	1761	1707	1452	1498
8	1378	1027	485	1399	1455	1486	1367	1448	1775	1678	436	1375
9	1443	1121	1256	1744	1429	1400	1453	1531	1614	1714	1222	1563
10	1402	1053	1448	1622	1413	1422	1404	1325	1700	1665	1533	1283
11	1446	1044	1395	1660	1386	1395	1459	1440	1710	1740	1309	1440
12	1443	840	1448	1650	1449	1444	1376	1388	1753	1573	1446	1384
13	1456	1027	1316	1650	1531	1399	1422	1402	1620	1729	1370	1506
14	1358	1358	1295	1669	1313	1459	1496	1448	1785	1777	0	1385
15	1451	1433	1135	1748	1485	1343	1396	1395	1832	1726	1058	1399
16	1384	1515	1293	1708	1500	1475	1456	1457	1525	1665	1411	1402
17	1455	1308	1398	1675	1207	1430	1388	1449	1750	1739	1436	1448
18	1396	1460	1458	1517	1358	1447	1453	1466	1649	1667	0	1396
19	1460	1464	1388	1993	1390	1400	1416	1331	1746	1814	0	1432
20	1448	1376	1464	1707	1604	1444	1446	1465	1694	1645	0	1420
21	1408	1460	1390	1597	1247	1513	1386	1403	1722	1662	0	1328
22	1127	1367	1467	1657	1513	1440	1443	1435	1519	1645	0	1390
23	1042	1477	1482	1525	1320	1107	1405	1397	1508	1389	0	1457
24	1049	1058	1447	1406	1489	1516	1446	1409	1726	1453	0	1397
25	1031	1677	1391	1352	1385	1357	1399	1365	1720	1394	1388	1453
26	1003	1443	1469	1430	1441	1505	1446	1433	1609	1549	1436	1445
27	1071	90	1395	1480	1481	1410	1439	1403	1753	1374	1402	1432
28	1192	1260	1571	1407	1361	1448	1413	1454	1688	1374	1445	1475
29	995	1496	1371	1443	--	1327	1403	1392	1807	1393	1421	1329
30	1053	1279	1374	1419	--	1437	1448	1491	1623	1460	1314	1446
31	1026	--	1391	1427	--	1491	--	1416	--	1391	1530	--
Total	40528	35855	42422	47881	39728	44142	42670	44111	49533	50006	31157	41736

M.3 Fiscal Year 1997 Influent/Effluent Database
PGRS, TCAAP

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
NB13E	10/1/96	111TCE	AZNF 006	< 0.76	V
NB13E	11/11/96	111TCE	BAHN 007	< 0.76	
NB13E	12/3/96	111TCE	BAQE 008	< 0.76	
NB13E	12/3/96	111TCE	BAQE 009	< 0.76	D
NB13E	1/7/97	111TCE	BBCH 005	< 0.76	
NB13E	2/4/97	111TCE	BBNC 005	< 0.76	
NB13E	3/3/97	111TCE	BBSF 007	< 0.76	
NB13E	4/1/97	111TCE	BCPN 006	< 0.76	
NB13E	5/6/97	111TCE	BDKM 006	< 0.76	V
NB13E	6/4/97	111TCE	BFFK 013	< 0.76	
NB13E	7/1/97	111TCE	BFXL 006	< 0.76	
NB13E	9/2/97	111TCE	BGQT 011	< 0.76	
NB13E	10/1/96	112TCE	AZNF 006	< 0.78	V
NB13E	11/11/96	112TCE	BAHN 007	< 0.78	
NB13E	12/3/96	112TCE	BAQE 008	< 0.78	
NB13E	12/3/96	112TCE	BAQE 009	< 0.78	D
NB13E	1/7/97	112TCE	BBCH 005	< 0.78	
NB13E	2/4/97	112TCE	BBNC 005	< 0.78	
NB13E	3/3/97	112TCE	BBSF 007	< 0.78	
NB13E	4/1/97	112TCE	BCPN 006	< 0.78	
NB13E	5/6/97	112TCE	BDKM 006	< 0.78	V
NB13E	6/4/97	112TCE	BFFK 013	< 0.78	
NB13E	7/1/97	112TCE	BFXL 006	< 0.78	
NB13E	9/2/97	112TCE	BGQT 011	< 0.78	
NB13E	10/1/96	11DCE	AZNF 006	< 1.7	V
NB13E	11/11/96	11DCE	BAHN 007	< 1.7	
NB13E	12/3/96	11DCE	BAQE 008	< 1.7	
NB13E	12/3/96	11DCE	BAQE 009	< 1.7	D
NB13E	1/7/97	11DCE	BBCH 005	< 1.7	
NB13E	2/4/97	11DCE	BBNC 005	< 1.7	
NB13E	3/3/97	11DCE	BBSF 007	< 1.7	
NB13E	4/1/97	11DCE	BCPN 006	< 1.7	
NB13E	5/6/97	11DCE	BDKM 006	< 1.7	V
NB13E	6/4/97	11DCE	BFFK 013	< 1.7	
NB13E	7/1/97	11DCE	BFXL 006	< 1.7	
NB13E	9/2/97	11DCE	BGQT 011	< 1.7	
NB13E	10/1/96	11DCLE	AZNF 006	< 0.73	V
NB13E	11/11/96	11DCLE	BAHN 007	< 0.73	
NB13E	12/3/96	11DCLE	BAQE 008	< 0.73	
NB13E	12/3/96	11DCLE	BAQE 009	< 0.73	D

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
NB13E	1/7/97	11DCLE	BBCH 005	< 0.73	
NB13E	2/4/97	11DCLE	BBNC 005	< 0.73	
NB13E	3/3/97	11DCLE	BBSF 007	< 0.73	
NB13E	4/1/97	11DCLE	BCPN 006	< 0.73	
NB13E	5/6/97	11DCLE	BDKM 006	< 0.73	V
NB13E	6/4/97	11DCLE	BFFK 013	< 0.73	
NB13E	7/1/97	11DCLE	BFXL 006	< 0.73	
NB13E	9/2/97	11DCLE	BGQT 011	< 0.73	
NB13E	10/1/96	12DCE	AZNF 006	< 0.76	V
NB13E	11/11/96	12DCE	BAHN 007	< 0.76	
NB13E	12/3/96	12DCE	BAQE 008	< 0.76	
NB13E	12/3/96	12DCE	BAQE 009	< 0.76	D
NB13E	1/7/97	12DCE	BBCH 005	< 0.76	
NB13E	2/4/97	12DCE	BBNC 005	< 0.76	
NB13E	3/3/97	12DCE	BBSF 007	< 0.76	
NB13E	4/1/97	12DCE	BCPN 006	< 0.76	
NB13E	5/6/97	12DCE	BDKM 006	< 0.76	V
NB13E	6/4/97	12DCE	BFFK 013	< 0.76	
NB13E	7/1/97	12DCE	BFXL 006	< 0.76	
NB13E	9/2/97	12DCE	BGQT 011	< 0.76	
NB13E	10/1/96	12DCLE	AZNF 006	< 1.1	V
NB13E	11/11/96	12DCLE	BAHN 007	< 1.1	
NB13E	12/3/96	12DCLE	BAQE 008	< 1.1	
NB13E	12/3/96	12DCLE	BAQE 009	< 1.1	D
NB13E	1/7/97	12DCLE	BBCH 005	< 1.1	
NB13E	2/4/97	12DCLE	BBNC 005	< 1.1	
NB13E	3/3/97	12DCLE	BBSF 007	< 1.1	
NB13E	4/1/97	12DCLE	BCPN 006	< 1.1	
NB13E	5/6/97	12DCLE	BDKM 006	< 1.1	V
NB13E	6/4/97	12DCLE	BFFK 013	< 1.1	
NB13E	7/1/97	12DCLE	BFXL 006	< 1.1	
NB13E	9/2/97	12DCLE	BGQT 011	< 1.1	
NB13E	10/1/96	12DCLP	AZNF 006	< 1	VT
NB13E	11/11/96	12DCLP	BAHN 007	< 1	T
NB13E	12/3/96	12DCLP	BAQE 008	< 1	T
NB13E	12/3/96	12DCLP	BAQE 009	< 1	TD
NB13E	1/7/97	12DCLP	BBCH 005	< 1	T
NB13E	2/4/97	12DCLP	BBNC 005	< 1	T
NB13E	3/3/97	12DCLP	BBSF 007	< 1	T
NB13E	4/1/97	12DCLP	BCPN 006	< 1	T

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
NB13E	5/6/97	12DCLP	BDKM 006	< 1	TV
NB13E	6/4/97	12DCLP	BFFK 013	< 1	T
NB13E	7/1/97	12DCLP	BFXL 006	< 1	T
NB13E	9/2/97	12DCLP	BGQT 011	< 1	T
NB13E	10/1/96	C2H3CL	AZNF 006	< 1.01	V
NB13E	11/11/96	C2H3CL	BAHN 007	< 1.01	
NB13E	12/3/96	C2H3CL	BAQE 008	< 1.01	
NB13E	12/3/96	C2H3CL	BAQE 009	< 1.01	D
NB13E	1/7/97	C2H3CL	BBCH 005	< 1.01	
NB13E	2/4/97	C2H3CL	BBNC 005	< 1.01	
NB13E	3/3/97	C2H3CL	BBSF 007	< 1.01	
NB13E	4/1/97	C2H3CL	BCPN 006	< 1.01	P
NB13E	5/6/97	C2H3CL	BDKM 006	< 1.01	V
NB13E	6/4/97	C2H3CL	BFFK 013	< 1.01	
NB13E	7/1/97	C2H3CL	BFXL 006	< 1.01	
NB13E	9/2/97	C2H3CL	BGQT 011	< 1.01	
NB13E	10/1/96	CCL4	AZNF 006	< 0.99	V
NB13E	11/11/96	CCL4	BAHN 007	< 0.99	
NB13E	12/3/96	CCL4	BAQE 008	< 0.99	
NB13E	12/3/96	CCL4	BAQE 009	< 0.99	D
NB13E	1/7/97	CCL4	BBCH 005	< 0.99	
NB13E	2/4/97	CCL4	BBNC 005	< 0.99	
NB13E	3/3/97	CCL4	BBSF 007	< 0.99	
NB13E	4/1/97	CCL4	BCPN 006	< 0.99	
NB13E	5/6/97	CCL4	BDKM 006	< 0.99	V
NB13E	6/4/97	CCL4	BFFK 013	< 0.99	
NB13E	7/1/97	CCL4	BFXL 006	< 0.99	
NB13E	9/2/97	CCL4	BGQT 011	< 0.99	
NB13E	10/1/96	CH2CL2	AZNF 006	< 7.4	V
NB13E	11/11/96	CH2CL2	BAHN 007	< 7.4	
NB13E	12/3/96	CH2CL2	BAQE 008	< 7.4	
NB13E	12/3/96	CH2CL2	BAQE 009	< 7.4	D
NB13E	1/7/97	CH2CL2	BBCH 005	< 7.4	
NB13E	2/4/97	CH2CL2	BBNC 005	< 7.4	
NB13E	3/3/97	CH2CL2	BBSF 007	< 7.4	
NB13E	4/1/97	CH2CL2	BCPN 006	< 7.4	
NB13E	5/6/97	CH2CL2	BDKM 006	10.3	V
NB13E	6/4/97	CH2CL2	BFFK 013	< 7.4	
NB13E	7/1/97	CH2CL2	BFXL 006	< 7.4	
NB13E	9/2/97	CH2CL2	BGQT 011	< 7.4	

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	Chemical	Lot ID	Concentration		Flag Codes/ Data Qualifiers
NB13E	10/1/96	CHCL3	AZNF 006	<	0.5	V
NB13E	11/11/96	CHCL3	BAHN 007	<	0.5	
NB13E	12/3/96	CHCL3	BAQE 008	<	0.5	
NB13E	12/3/96	CHCL3	BAQE 009	<	0.5	D
NB13E	1/7/97	CHCL3	BBCH 005	<	0.5	
NB13E	2/4/97	CHCL3	BBNC 005	<	0.5	
NB13E	3/3/97	CHCL3	BBSF 007	<	0.5	
NB13E	4/1/97	CHCL3	BCPN 006	<	0.5	
NB13E	5/6/97	CHCL3	BDKM 006	<	0.5	V
NB13E	6/4/97	CHCL3	BFFK 013	<	0.5	
NB13E	7/1/97	CHCL3	BFXL 006	<	0.5	
NB13E	9/2/97	CHCL3	BGQT 011	<	0.5	
NB13E	10/1/96	TCLEE	AZNF 006	<	0.75	V
NB13E	11/11/96	TCLEE	BAHN 007	<	0.75	
NB13E	12/3/96	TCLEE	BAQE 008	<	0.75	
NB13E	12/3/96	TCLEE	BAQE 009	<	0.75	D
NB13E	1/7/97	TCLEE	BBCH 005	<	0.75	
NB13E	2/4/97	TCLEE	BBNC 005	<	0.75	
NB13E	3/3/97	TCLEE	BBSF 007	<	0.75	
NB13E	4/1/97	TCLEE	BCPN 006	<	0.75	
NB13E	5/6/97	TCLEE	BDKM 006	<	0.75	V
NB13E	6/4/97	TCLEE	BFFK 013	<	0.75	
NB13E	7/1/97	TCLEE	BFXL 006	<	0.75	
NB13E	9/2/97	TCLEE	BGQT 011	<	0.75	
NB13E	10/1/96	TCLTFE	AZNF 006	<	1	VT
NB13E	11/11/96	TCLTFE	BAHN 007	<	1	T
NB13E	12/3/96	TCLTFE	BAQE 008	<	1	T
NB13E	12/3/96	TCLTFE	BAQE 009	<	1	TD
NB13E	1/7/97	TCLTFE	BBCH 005	<	1	T
NB13E	2/4/97	TCLTFE	BBNC 005	<	1	T
NB13E	3/3/97	TCLTFE	BBSF 007	<	1	T
NB13E	4/1/97	TCLTFE	BCPN 006	<	1	T
NB13E	5/6/97	TCLTFE	BDKM 006	<	1	TV
NB13E	6/4/97	TCLTFE	BFFK 013	<	1	T
NB13E	7/1/97	TCLTFE	BFXL 006	<	1	T
NB13E	9/2/97	TCLTFE	BGQT 011	<	1	T
NB13E	10/1/96	TRCLE	AZNF 006	<	0.56	V
NB13E	11/11/96	TRCLE	BAHN 007	<	0.56	
NB13E	12/3/96	TRCLE	BAQE 008	<	0.56	
NB13E	12/3/96	TRCLE	BAQE 009	<	0.56	D

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
NB13E	1/7/97	TRCLE	BBCH 005	< 0.56	
NB13E	2/4/97	TRCLE	BBNC 005	< 0.56	
NB13E	3/3/97	TRCLE	BBSF 007	< 0.56	
NB13E	4/1/97	TRCLE	BCPN 006	< 0.56	
NB13E	5/6/97	TRCLE	BDKM 006	< 0.56	V
NB13E	6/4/97	TRCLE	BFFK 013	< 0.56	
NB13E	7/1/97	TRCLE	BFXL 006	< 0.56	
NB13E	9/2/97	TRCLE	BGQT 011	< 0.56	
NB13I	10/1/96	111TCE	AZNF 005	< 0.76	V
NB13I	11/11/96	111TCE	BAHN 005	< 0.76	
NB13I	11/11/96	111TCE	BAHN 006	< 0.76	D
NB13I	12/3/96	111TCE	BAQE 010	< 0.76	
NB13I	1/7/97	111TCE	BBCH 006	< 0.76	
NB13I	2/4/97	111TCE	BBNC 007	< 0.76	D
NB13I	2/4/97	111TCE	BBNC 006	< 0.76	
NB13I	3/3/97	111TCE	BBSF 005	< 0.76	
NB13I	3/3/97	111TCE	BBSF 006	< 0.76	D
NB13I	4/1/97	111TCE	BCPN 005	< 0.76	
NB13I	5/6/97	111TCE	BDKM 005	< 0.76	V
NB13I	6/4/97	111TCE	BFFK 014	< 0.76	
NB13I	6/4/97	111TCE	BFFK 015	< 0.76	D
NB13I	7/1/97	111TCE	BFXL 005	< 0.76	
NB13I	9/2/97	111TCE	BGQT 010	< 0.76	
NB13I	10/1/96	112TCE	AZNF 005	< 0.78	V
NB13I	11/11/96	112TCE	BAHN 005	< 0.78	
NB13I	11/11/96	112TCE	BAHN 006	< 0.78	D
NB13I	12/3/96	112TCE	BAQE 010	< 0.78	
NB13I	1/7/97	112TCE	BBCH 006	< 0.78	
NB13I	2/4/97	112TCE	BBNC 007	< 0.78	D
NB13I	2/4/97	112TCE	BBNC 006	< 0.78	
NB13I	3/3/97	112TCE	BBSF 005	< 0.78	
NB13I	3/3/97	112TCE	BBSF 006	< 0.78	D
NB13I	4/1/97	112TCE	BCPN 005	< 0.78	
NB13I	5/6/97	112TCE	BDKM 005	< 0.78	V
NB13I	6/4/97	112TCE	BFFK 014	< 0.78	
NB13I	6/4/97	112TCE	BFFK 015	< 0.78	D
NB13I	7/1/97	112TCE	BFXL 005	< 0.78	
NB13I	9/2/97	112TCE	BGQT 010	< 0.78	
NB13I	10/1/96	11DCE	AZNF 005	< 1.7	V
NB13I	11/11/96	11DCE	BAHN 005	< 1.7	

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	Sample Date	Chemical	Lot ID	Concentration		Flag Codes/ Data Qualifiers
NB13I	11/11/96	11DCE	BAHN 006	<	1.7	D
NB13I	12/3/96	11DCE	BAQE 010	<	1.7	
NB13I	1/7/97	11DCE	BBCH 006	<	1.7	
NB13I	2/4/97	11DCE	BBNC 007	<	1.7	D
NB13I	2/4/97	11DCE	BBNC 006	<	1.7	
NB13I	3/3/97	11DCE	BBSF 005	<	1.7	
NB13I	3/3/97	11DCE	BBSF 006	<	1.7	D
NB13I	4/1/97	11DCE	BCPN 005	<	1.7	
NB13I	5/6/97	11DCE	BDKM 005	<	1.7	V
NB13I	6/4/97	11DCE	BFFK 014	<	1.7	
NB13I	6/4/97	11DCE	BFFK 015	<	1.7	D
NB13I	7/1/97	11DCE	BFXL 005	<	1.7	
NB13I	9/2/97	11DCE	BGQT 010	<	1.7	
NB13I	10/1/96	11DCLE	AZNF 005	<	0.73	V
NB13I	11/11/96	11DCLE	BAHN 005	<	0.73	
NB13I	11/11/96	11DCLE	BAHN 006	<	0.73	D
NB13I	12/3/96	11DCLE	BAQE 010	<	0.73	
NB13I	1/7/97	11DCLE	BBCH 006	<	0.73	
NB13I	2/4/97	11DCLE	BBNC 007	<	0.73	D
NB13I	2/4/97	11DCLE	BBNC 006	<	0.73	
NB13I	3/3/97	11DCLE	BBSF 005	<	0.73	
NB13I	3/3/97	11DCLE	BBSF 006	<	0.73	D
NB13I	4/1/97	11DCLE	BCPN 005	<	0.73	
NB13I	5/6/97	11DCLE	BDKM 005	<	0.73	V
NB13I	6/4/97	11DCLE	BFFK 014	<	0.73	
NB13I	6/4/97	11DCLE	BFFK 015	<	0.73	D
NB13I	7/1/97	11DCLE	BFXL 005	<	0.73	
NB13I	9/2/97	11DCLE	BGQT 010	<	0.73	
NB13I	10/1/96	12DCE	AZNF 005	<	0.76	V
NB13I	11/11/96	12DCE	BAHN 005	<	0.76	
NB13I	11/11/96	12DCE	BAHN 006	<	0.76	D
NB13I	12/3/96	12DCE	BAQE 010	<	0.76	
NB13I	1/7/97	12DCE	BBCH 006	<	0.76	
NB13I	2/4/97	12DCE	BBNC 007	<	0.76	D
NB13I	2/4/97	12DCE	BBNC 006	<	0.76	
NB13I	3/3/97	12DCE	BBSF 005	<	0.76	
NB13I	3/3/97	12DCE	BBSF 006	<	0.76	D
NB13I	4/1/97	12DCE	BCPN 005	<	0.76	
NB13I	5/6/97	12DCE	BDKM 005	<	0.76	V
NB13I	6/4/97	12DCE	BFFK 014	<	0.76	

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
NB13I	6/4/97	12DCE	BFFK 015	< 0.76	D
NB13I	7/1/97	12DCE	BFXL 005	< 0.76	
NB13I	9/2/97	12DCE	BGQT 010	< 0.76	
NB13I	10/1/96	12DCLE	AZNF 005	< 1.1	V
NB13I	11/11/96	12DCLE	BAHN 005	< 1.1	
NB13I	11/11/96	12DCLE	BAHN 006	< 1.1	D
NB13I	12/3/96	12DCLE	BAQE 010	< 1.1	
NB13I	1/7/97	12DCLE	BBCH 006	< 1.1	
NB13I	2/4/97	12DCLE	BBNC 007	< 1.1	D
NB13I	2/4/97	12DCLE	BBNC 006	< 1.1	
NB13I	3/3/97	12DCLE	BBSF 005	< 1.1	
NB13I	3/3/97	12DCLE	BBSF 006	< 1.1	D
NB13I	4/1/97	12DCLE	BCPN 005	< 1.1	
NB13I	5/6/97	12DCLE	BDKM 005	< 1.1	V
NB13I	6/4/97	12DCLE	BFFK 014	< 1.1	
NB13I	6/4/97	12DCLE	BFFK 015	< 1.1	D
NB13I	7/1/97	12DCLE	BFXL 005	< 1.1	
NB13I	9/2/97	12DCLE	BGQT 010	< 1.1	
NB13I	10/1/96	12DCLP	AZNF 005	< 1	VT
NB13I	11/11/96	12DCLP	BAHN 005	< 1	T
NB13I	11/11/96	12DCLP	BAHN 006	< 1	TD
NB13I	12/3/96	12DCLP	BAQE 010	< 1	T
NB13I	1/7/97	12DCLP	BBCH 006	< 1	T
NB13I	2/4/97	12DCLP	BBNC 007	< 1	TD
NB13I	2/4/97	12DCLP	BBNC 006	< 1	T
NB13I	3/3/97	12DCLP	BBSF 005	< 1	T
NB13I	3/3/97	12DCLP	BBSF 006	< 1	TD
NB13I	4/1/97	12DCLP	BCPN 005	< 1	T
NB13I	5/6/97	12DCLP	BDKM 005	< 1	TV
NB13I	6/4/97	12DCLP	BFFK 014	< 1	T
NB13I	6/4/97	12DCLP	BFFK 015	< 1	DT
NB13I	7/1/97	12DCLP	BFXL 005	< 1	T
NB13I	9/2/97	12DCLP	BGQT 010	< 1	T
NB13I	12/3/96	AS	BAVM 005	< 2.35	
NB13I	3/3/97	AS	BBTN 006	< 2.35	
NB13I	6/4/97	AS	BFDG 006	< 2.35	
NB13I	9/2/97	AS	BGPZ 005	< 2.35	
NB13I	10/1/96	C2H3CL	AZNF 005	< 1.01	V
NB13I	11/11/96	C2H3CL	BAHN 005	< 1.01	
NB13I	11/11/96	C2H3CL	BAHN 006	< 1.01	D

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
NB13I	12/3/96	C2H3CL	BAQE 010	< 1.01	
NB13I	1/7/97	C2H3CL	BBCH 006	< 1.01	
NB13I	2/4/97	C2H3CL	BBNC 007	< 1.01	D
NB13I	2/4/97	C2H3CL	BBNC 006	< 1.01	
NB13I	3/3/97	C2H3CL	BBSF 005	< 1.01	
NB13I	3/3/97	C2H3CL	BBSF 006	< 1.01	D
NB13I	4/1/97	C2H3CL	BCPN 005	< 1.01	P
NB13I	5/6/97	C2H3CL	BDKM 005	< 1.01	V
NB13I	6/4/97	C2H3CL	BFFK 014	< 1.01	
NB13I	6/4/97	C2H3CL	BFFK 015	< 1.01	D
NB13I	7/1/97	C2H3CL	BFXL 005	< 1.01	
NB13I	9/2/97	C2H3CL	BGQT 010	< 1.01	
NB13I	10/1/96	CCL4	AZNF 005	< 0.99	V
NB13I	11/11/96	CCL4	BAHN 005	< 0.99	
NB13I	11/11/96	CCL4	BAHN 006	< 0.99	D
NB13I	12/3/96	CCL4	BAQE 010	< 0.99	
NB13I	1/7/97	CCL4	BBCH 006	< 0.99	
NB13I	2/4/97	CCL4	BBNC 007	< 0.99	D
NB13I	2/4/97	CCL4	BBNC 006	< 0.99	
NB13I	3/3/97	CCL4	BBSF 005	< 0.99	
NB13I	3/3/97	CCL4	BBSF 006	< 0.99	D
NB13I	4/1/97	CCL4	BCPN 005	< 0.99	
NB13I	5/6/97	CCL4	BDKM 005	< 0.99	V
NB13I	6/4/97	CCL4	BFFK 014	< 0.99	
NB13I	6/4/97	CCL4	BFFK 015	< 0.99	D
NB13I	7/1/97	CCL4	BFXL 005	< 0.99	
NB13I	9/2/97	CCL4	BGQT 010	< 0.99	
NB13I	10/1/96	CH2CL2	AZNF 005	< 7.4	V
NB13I	11/11/96	CH2CL2	BAHN 005	< 7.4	
NB13I	11/11/96	CH2CL2	BAHN 006	< 7.4	D
NB13I	12/3/96	CH2CL2	BAQE 010	< 7.4	
NB13I	1/7/97	CH2CL2	BBCH 006	< 7.4	
NB13I	2/4/97	CH2CL2	BBNC 007	< 7.4	D
NB13I	2/4/97	CH2CL2	BBNC 006	< 7.4	
NB13I	3/3/97	CH2CL2	BBSF 005	< 7.4	
NB13I	3/3/97	CH2CL2	BBSF 006	< 7.4	D
NB13I	4/1/97	CH2CL2	BCPN 005	< 7.4	
NB13I	5/6/97	CH2CL2	BDKM 005	< 7.4	V
NB13I	6/4/97	CH2CL2	BFFK 014	< 7.4	
NB13I	6/4/97	CH2CL2	BFFK 015	< 7.4	D

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
NB13I	7/1/97	CH2CL2	BFXL 005	< 7.4	
NB13I	9/2/97	CH2CL2	BGQT 010	< 7.4	
NB13I	10/1/96	CHCL3	AZNF 005	< 0.5	V
NB13I	11/11/96	CHCL3	BAHN 005	< 0.5	
NB13I	11/11/96	CHCL3	BAHN 006	< 0.5	D
NB13I	12/3/96	CHCL3	BAQE 010	< 0.5	
NB13I	1/7/97	CHCL3	BBCH 006	< 0.5	
NB13I	2/4/97	CHCL3	BBNC 007	< 0.5	D
NB13I	2/4/97	CHCL3	BBNC 006	< 0.5	
NB13I	3/3/97	CHCL3	BBSF 005	< 0.5	
NB13I	3/3/97	CHCL3	BBSF 006	< 0.5	D
NB13I	4/1/97	CHCL3	BCPN 005	< 0.5	
NB13I	5/6/97	CHCL3	BDKM 005	< 0.5	V
NB13I	6/4/97	CHCL3	BFFK 014	< 0.5	
NB13I	6/4/97	CHCL3	BFFK 015	< 0.5	D
NB13I	7/1/97	CHCL3	BFXL 005	< 0.5	
NB13I	9/2/97	CHCL3	BGQT 010	< 0.5	
NB13I	10/1/96	TCLEE	AZNF 005	< 0.75	V
NB13I	11/11/96	TCLEE	BAHN 005	< 0.75	
NB13I	11/11/96	TCLEE	BAHN 006	< 0.75	D
NB13I	12/3/96	TCLEE	BAQE 010	< 0.75	
NB13I	1/7/97	TCLEE	BBCH 006	< 0.75	
NB13I	2/4/97	TCLEE	BBNC 007	< 0.75	D
NB13I	2/4/97	TCLEE	BBNC 006	< 0.75	
NB13I	3/3/97	TCLEE	BBSF 005	< 0.75	
NB13I	3/3/97	TCLEE	BBSF 006	< 0.75	D
NB13I	4/1/97	TCLEE	BCPN 005	< 0.75	
NB13I	5/6/97	TCLEE	BDKM 005	< 0.75	V
NB13I	6/4/97	TCLEE	BFFK 014	< 0.75	
NB13I	6/4/97	TCLEE	BFFK 015	< 0.75	D
NB13I	7/1/97	TCLEE	BFXL 005	< 0.75	
NB13I	9/2/97	TCLEE	BGQT 010	< 0.75	
NB13I	10/1/96	TCLTFE	AZNF 005	< 1	VT
NB13I	11/11/96	TCLTFE	BAHN 005	< 1	T
NB13I	11/11/96	TCLTFE	BAHN 006	< 1	TD
NB13I	12/3/96	TCLTFE	BAQE 010	< 1	T
NB13I	1/7/97	TCLTFE	BBCH 006	< 1	T
NB13I	2/4/97	TCLTFE	BBNC 007	< 1	TD
NB13I	2/4/97	TCLTFE	BBNC 006	< 1	T
NB13I	3/3/97	TCLTFE	BBSF 005	< 1	T

APPENDIX M.3

FISCAL YEAR 1997 INFLUENT/EFFLUENT DATABASE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Site ID	*Sample Date*	*Chemical*	*Lot ID*	*Concentration*	*Flag Codes/ Data Qualifiers*
NB13I	3/3/97	TCLTFE	BBSF 006	< 1	TD
NB13I	4/1/97	TCLTFE	BCPN 005	< 1	T
NB13I	5/6/97	TCLTFE	BDKM 005	< 1	TV
NB13I	6/4/97	TCLTFE	BFFK 014	< 1	T
NB13I	6/4/97	TCLTFE	BFFK 015	< 1	DT
NB13I	7/1/97	TCLTFE	BFXL 005	< 1	T
NB13I	9/2/97	TCLTFE	BGQT 010	< 1	T
NB13I	10/1/96	TRCLE	AZNF 005	7.23	V
NB13I	11/11/96	TRCLE	BAHN 005	7.69	
NB13I	11/11/96	TRCLE	BAHN 006	6.81	D
NB13I	12/3/96	TRCLE	BAQE 010	7.14	
NB13I	1/7/97	TRCLE	BBCH 006	6.04	
NB13I	2/4/97	TRCLE	BBNC 007	4.29	D
NB13I	2/4/97	TRCLE	BBNC 006	4.07	
NB13I	3/3/97	TRCLE	BBSF 005	3.15	
NB13I	3/3/97	TRCLE	BBSF 006	3.01	D
NB13I	4/1/97	TRCLE	BCPN 005	3.62	
NB13I	5/6/97	TRCLE	BDKM 005	2.96	V
NB13I	6/4/97	TRCLE	BFFK 014	2.09	
NB13I	6/4/97	TRCLE	BFFK 015	2.09	D
NB13I	7/1/97	TRCLE	BFXL 005	1.87	
NB13I	9/2/97	TRCLE	BGQT 010	1.08	

Notes:

Concentrations in µg/L.
See Appendix J.3a for chemical abbreviation cross references.

D Duplicate analysis.
P High spike recoveries excessively different
T Non-target compound analyzed for but not detected (non-GS/MS methods)
V Sample subjected to unusual storage/preservation conditions

M.3a Chemical Abbreviation Cross Reference
PGRS, TCAAP

APPENDIX M.3a

CHEMICAL ABBREVIATION CROSS REFERENCE
PGRS, TCAAP
NEW BRIGHTON, MINNESOTA

Abreviation	*Chemical Name*
111TCE	1,1,1-Trichloroethane
112TCE	1,1,2-Trichloroethane
11DCE	1,1-Dichloroethene
11DCLE	1,1-Dichloroethane
12DCE	1,2-Dichloroethene
12DCLE	1,2-Dichloroethane
12DCLP	1,2-Dichloropropane
C2H3CL	Vinyl chloride
CCL4	Carbon tetrachloride
CH2CL2	Methylene chloride
CHCL3	Chloroform
TCLEE	Tetrachloroethene
TCLTFE	1,1,2-Trichloro-1,2,2-trifuoroethane
TRCLE	Trichloroethene
AS	Arsenic

APPENDIX N

Appendix N

Other Installation Restoration Activities During FY 1997

Appendix N

Other Installation Restoration Activities During FY 1997

This appendix is intended to give the reader a brief overview of other activities at TCAAP which are related to the Installation Restoration Program, but are not required by the RODs for OU1 through OU3. These activities are not part of the performance evaluation or the performance monitoring programs.

A. BACKGROUND MONITORING

1. Deep Groundwater

In order to periodically assess the quality of deep groundwater flowing from off-site to beneath TCAAP, monitoring is performed at locations near the upgradient side of TCAAP (the northeast corner and east side). During FY 1997, monitoring for this purpose was performed at well location:

03U007, 03L007, 03U009, 04U007, 04U510

The results of the analyses (presented in Appendix C.2) show that there were no detections of halogenated VOCs during FY 1997. These locations will be sampled again in FY 1999 as shown in Appendix I.1 (the wells are listed under TGRS in the appendix).

2. Surface Water

Surface water monitoring during FY 1997 at TCAAP consisted of sampling at fifteen locations, including six locations required by the former TCAAP National Pollutant Discharge Elimination System (NPDES) permit (in effect prior to FY 1997), and an additional nine locations monitored

by Alliant on behalf of the Army. Monitoring was performed for VOCs, PCBs, metals, and various inorganic parameters.

The surface water monitoring was in accordance with the FY 1997 Surface Water Monitoring Plan, which was submitted and approved as part of the FY 1995 Annual Monitoring Report. A copy of the plan is included in Appendix B.3, and has been marked to show missing data. Explanations for missing data are included in Appendix B.2.

The surface water monitoring was performed by CRA and the laboratory analysis was performed by DataChem and Interpoll Laboratories. All data for surface water monitoring were submitted to PRI for entry into the IRDMIS. CRA retrieved the data from the IRDMIS and provided it to Wenck electronically. The data were converted into Microsoft Excel databases and are presented as Appendix F.1 (PCB data), Appendix F.2 (organic data), and Appendix F.3 (inorganic data). Figure VI.A-1 is a map showing the surface water monitoring locations.

Location 20201 (now labeled Outfall 010) is the effluent from the Site K groundwater treatment system which is discussed in Section IV.E. The data for 20201 is not included in Appendix F, but is provided in Table IV.E-4, where it is listed as "effluent."

The FY 1999 - FY 2002 Surface Water Monitoring Plan is presented in Appendix I.3. The FY 1998 monitoring was previously submitted and approved as part of the FY 1996 Annual Monitoring Report. This plan reflects the discussions between the U.S. Army, Alliant Techsystems Inc., and the Point Source Compliance Section-Water Quality Division of the MPCA. Although an NPDES permit is no longer in effect, monitoring for the Building 103 (Site K) treatment system effluent (Outfall 010) is being done to meet the Final Modified Substantive Requirements Document (MN U000579) dated November 19, 1997. In addition, the Army has chosen to monitor Rice Creek as it enters and exits TCAAP (monitoring points 20700 and 20800, respectively). Proposed changes for FY 1999 - FY 2002 are making the monitoring requirements for the Rice Creek-In (20700) and Rice Creek-Out (20800) identical to the requirements for Outfall 010.

B. AQUATIC STUDIES

The U.S. Army Center for Health Promotion and Preventative Medicine (USACHPPM) led the following studies for Sunfish Lake and Round Lake during FY 1997:

- Tier I Screening Risk Assessment (completed)
- Tier II Bioavailability Study (submitted for regulatory review)
- Tier II Sediment Toxicity Study (under Army review)

A planned activity is to conduct a Tier II Ecological Risk Assessment for surface water and sediments.

C. GRENADE RANGE

Alliant Techsystems prepared and submitted an Engineering Evaluation/Cost Analysis (EE/CA) during FY 1997. The final EE/CA is expected to be completed in early FY 1998. Pending the availability of funds, the removal action to address contaminated soils may begin in FY 1998.

D. OUTDOOR FIRING RANGE

Alliant Techsystems prepared and submitted an Engineering Evaluation/Cost Analysis (EE/CA) during FY 1997. The final EE/CA is expected to be completed in early FY 1998. Pending the availability of funds, the removal action to address contaminated soils may begin in FY 1998.

E. NATURAL ATTENUATION STUDY

The USEPA funded and led a study of natural attenuation processes for the deep groundwater beneath TCAAP. Two rounds of water quality sampling were performed in FY 1997 and a report is expected in FY 1998.

F. PHYTOREMEDIATION STUDY

In FY 1997, the U.S. Army Environmental Center agreed to fund and lead a demonstration study of phytoremediation of soil at TCAAP. A work plan and initiation of the study is planned for FY 1998.