Baseline Water Quality Data

Inventory and Analysis

Fort Necessity National Battlefield



Water Resources Division and Servicewide Inventory and Monitoring Program

National Park Service - Department of the Interior
Fort Collins - Denver - Washington

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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

FORT NECESSITY
NATIONAL BATTLEFIELD

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-97/131

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EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Fort Necessity National Battlefield (FONE) from six of the United States Environmental Protection Agency's (EPA) national databases: (1) Storage and Retrieval (STORET) water quality database management system; (2) River Reach File (RF3); (3) Industrial Facilities Discharge (IFD); (4) Drinking Water Supplies (DRINKS); (5) Water Gages (GAGES); and (6) Water Impoundments (DAMS). This document is one product resulting from a cooperative contractual endeavor between the National Park Service's (NPS) Servicewide Inventory and Monitoring Program, the National Park Service's Water Resources Division (WRD), and Horizon Systems Corporation to retrieve, format, and analyze surface water quality data for all units of the National Park System containing significant water resources. The primary goal of the project is to provide descriptive water quality information in a manner and format that is both consistent with the goals of the Servicewide Inventory and Monitoring Program and useable by park resource managers. The document provides: (1) a complete inventory of all retrieved water quality parameter data, water quality stations, and the entities responsible for the data collection; (2) descriptive statistics and appropriate graphical plots of water quality data characterizing period of record, annual, and seasonal central tendencies and trends; (3) a comparison of the park's water quality data to relevant EPA and WRD water quality screening criteria; and (4) an Inventory Data Evaluation and Analysis (IDEA) to determine what Servicewide Inventory and Monitoring Program "Level I" water quality parameters have been measured within the study area. Accompanying the report are disks containing digital copies of all data used in the report, as well as all components of the report (tables, figures, etc.).

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located eight industrial/municipal dischargers; two drinking water intakes; six active or inactive U. S. Geological Survey (USGS) water gages (including stream, spring, and well); and five water impoundments. The results of the STORET retrieval for the study area yielded 22,245 observations for 182 separate parameters collected by the NPS, USGS, EPA, and the Pennsylvania Department of Environmental Protection at 47 monitoring stations from 1926 through 1994. Approximately 85 percent of the observations in the study area were reported by the USGS. Of the 47 stations, only one station was located within the park boundary (see Station Period of Record Tabulation).

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Eleven stations within the study area (none within the park boundary) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Stony Fork Tributary near Gibbon Glade, PA (FONE 0003); (2) Stony Fork near Elliottsville, PA (FONE 0008); (3) Big Sandy Creek off Route 381 in Wharton Township (FONE 0010); (4) Stony Fork near Farmington, PA (FONE 0023); (5) Stony Fork at Bethel Chapel, PA (FONE 0026); and (6) Stony Fork Tributary #4 (North of Delta Site), PA (FONE 0021)[†].

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the FONE water quality criteria screen found 14 groups of parameters that exceeded screening criteria at least once within the study area. The pH, cyanide, cadmium, copper, nickel, silver, zinc, and selenium exceeded their respective EPA criteria for the protection of freshwater aquatic life. Sulfate, arsenic, beryllium, cadmium, lead, and nickel exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

[†]Water quality station location descriptions are verbatim from STORET. Any misspellings and abbreviations in STORET are replicated in this document.

The pH was measured 1,468 times at 46 monitoring stations from 1965 through 1994. Six-hundred-eighty-three observations at 36 stations throughout the study area were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life). Six-hundred-eighty-two of these 683 observations were less than or equal to pH 6.5 and one observation was equal to pH 9.0. Approximately 71 percent of the observations less than or equal to pH 6.5 were reported from five stations in Stony Fork (FONE 0008, FONE 0023, FONE 0026), the Hager Mine discharge near Bauer Estate, PA (FONE 0019), and a Stony Fork tributary near Gibbon Glade, PA (FONE 0003). The lowest pH of 2.5 SU was reported at a deep mine discharge into the Stony Fork (FONE 0006) and the Jones Mine discharge near the mouth of the Stony Fork (FONE 0007) in June 1977. The highest pH of 9.0 SU was reported in Big Sandy Creek off Route 381 in Wharton Township (FONE 0010) in June 1975.

Turbidity was measured 70 times at two monitoring stations in Big Sandy Creek (FONE 0010, FONE 0041) from 1972 through 1987. One observation of 58 turbidity units (NTU) in Big Sandy Creek off Route 381 in Wharton Township (FONE 0010) exceeded the WRD screening criterion of 50 turbidity units (JTU/FTU/NTU) in February 1986.

Fecal coliform concentrations were measured 43 times in Big Sandy Creek off Route 381 in Wharton Township (FONE 0010) from 1977 through 1987. Twenty observations equaled or exceeded the WRD bathing water screening criterion of 200 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml). The highest value of 4,100 CFU/100 ml was reported in August 1985.

Cyanide concentrations (including free in water and wastewaters and total) were measured four times in Big Sandy Creek off Route 381 in Wharton Township (FONE 0010) in 1984. All four observations exceeded the acute freshwater criterion of 22 micrograms per liter (µg/L). The highest value of 38 µg/L was reported in October 1984.

Total sulfate concentrations were measured 1,192 times at 39 monitoring stations from 1926 through 1994. Ninety-one observations at six stations in the southern portion of the study area around the Stony Fork including the Hager Mine discharge near Bauer Estate, PA (FONE 0019), the Jones Mine discharge near the mouth of the Stony Fork (FONE 0007), a Stony Fork tributary near Gibbon Glade, PA (FONE 0003), a deep mine discharge into the Stony Fork (FONE 0006), and the Stony Fork (FONE 0008, FONE 0026), exceeded the secondary drinking water criterion of 250 milligrams per liter (mg/L). Approximately 67 percent of the observations exceeding the criterion were reported from the Hager Mine discharge near Bauer Estate, PA (FONE 0019), including the highest value of 1,300 mg/L in December 1982.

Arsenic concentrations (including dissolved, inorganic total, and total) were measured 218 times at 24 monitoring stations from 1972 through 1988. One dissolved concentration of at least 50 µg/L in the Big Sandy Creek off Route 381 in Wharton Township (FONE 0010) equaled or exceeded the drinking water criterion of 50 µg/L in November 1973.

Beryllium concentrations (including dissolved and total) were measured 86 times at 24 monitoring stations during 1977 and 1978. Five observations, ranging from 7 µg/L to 22 µg/L, at two stations, the Jones Mine discharge near the mouth of the Stony Fork (FONE 0007) and the Stony Fork near Farmington, PA (FONE 0023), exceeded the drinking water criterion of 4.0 µg/L. The highest value of 22 µg/L was reported twice at the Jones Mine discharge near the mouth of the Stony Fork (FONE 0007) in October 1977.

Cadmium concentrations (including dissolved and total) were measured 212 times at 25 monitoring stations from 1971 through 1987. Of the 208 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 15 concentrations at six stations in the southern portion of the study area around the Stony Fork including, the Hager Mine discharge near Bauer Estate, PA (FONE 0019), a Stony Fork tributary near Gibbon Glade, PA (FONE 0003), the Stony Fork (FONE 0008, FONE 0023), Big Sandy Creek off Route 381 in Wharton Township (FONE 0010), and Stony Fork Tributary #4 (North of Delta Site), PA (FONE 0021), exceeded the acute freshwater criterion of 3.9 µg/L. Twelve

of these 15 concentrations also exceeded the drinking water criterion of 5.0 µg/L. The highest value of 10 µg/L was reported twice at the Hager Mine discharge near Bauer Estate, PA (FONE 0019) in March 1982 and once in Big Sandy Creek off Route 381 in Wharton Township (FONE 0010) in November 1976.

Copper concentrations (including dissolved and total) were measured 263 times at 26 monitoring stations from 1972 through 1988. Twenty-three concentrations at five stations in the southern portion of the study area around the Stony Fork including, the Hager Mine discharge near Bauer Estate, PA (FONE 0019), the Jones Mine discharge near the mouth of the Stony Fork (FONE 0007), the Stony Fork (FONE 0008, FONE 0023), and Big Sandy Creek off Route 381 in Wharton Township (FONE 0010), exceeded the acute freshwater criterion of 18 µg/L from 1972 through 1988. Approximately 61 percent of the observations exceeding the criterion were reported at the Hager Mine discharge near Bauer Estate, PA (FONE 0019) from 1979 through 1984. The highest value of 100 µg/L was reported twice at the Jones Mine discharge near the mouth of the Stony Fork (FONE 0007) in October 1977.

Lead concentrations (including dissolved and total) were measured 224 times at 26 monitoring stations from 1971 through 1988. One total concentration of 20 µg/L at the deep mine discharge on the Ivan Hagar property (FONE 0018) exceeded the drinking water criterion of 15 µg/L in March 1977.

Nickel concentrations (including dissolved and total) were measured 263 times at 26 monitoring stations from 1972 through 1988. Twenty-one concentrations at three stations near the Stony Fork, the Hager Mine discharge near Bauer Estate, PA (FONE 0019), the Jones Mine discharge near the mouth of the Stony Fork (FONE 0007), and the Stony Fork near Farmington, PA (FONE 0023), equaled or exceeded the drinking water criterion of 100 µg/L from 1977 through 1984. Seven of these 21 concentrations also exceeded the acute freshwater criterion of 1,400 µg/L. Sixteen of the 21 concentrations exceeding the drinking water criterion and all seven of the concentrations exceeding the acute freshwater criterion were reported from the Hager Mine discharge near Bauer Estate, PA (FONE 0019) from 1979 through 1984, including the highest value of 1,650 µg/L in March 1983.

Selenium concentrations (including dissolved and total) were measured 221 times at 25 monitoring stations from 1977 through 1988. One total concentration of 33 µg/L in the Stony Fork near Farmington, PA (FONE 0023) exceeded the acute freshwater criterion of 20 µg/L in April 1984.

Silver concentrations (including dissolved and total) were measured 86 times at 24 monitoring stations during 1977 and 1978. One dissolved concentration of 34 µg/L in Big Sandy Creek at Wharton Furnace (FONE 0029) and one total concentration of 9 µg/L in Big Sandy Creek at Elliottsville (FONE 0030) exceeded the acute freshwater criterion of 4.1 µg/L in March 1977.

Zinc concentrations (including dissolved and total) were measured 1,262 times at 33 monitoring stations from 1971 through 1994. Two-hundred-forty-four concentrations at nine stations, the Hager Mine discharge near Bauer Estate, PA (FONE 0019), the Stony Fork (FONE 0008, FONE 0023, FONE 0026), two Stony Fork tributaries (FONE 0003, FONE 0021), the Jones Mine discharge near the mouth of the Stony Fork (FONE 0007), Big Sandy Creek off Route 381 in Wharton Township (FONE 0010), and Meadow Run at the confluence with Deadman Run (FONE 0034), exceeded the acute freshwater criterion of 120 µg/L from 1974 through 1994. Approximately 54 percent of the concentrations exceeding the criterion were reported from the Hager Mine discharge near Bauer Estate, PA (FONE 0019) from 1978 through 1988, including the highest value of 3,800 µg/L in June 1981.

The IDEA conducted for FONE indicates that some STORET data exist for 12 of the 13 Level I parameter groups in the study area. No STORET data exist for the parameter group Chlorophyll. For nine groups, less than 25 percent of the observations were recorded since 1985. Data for five groups (Dissolved Oxygen, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorous, and Bacteria) were recorded at less than half of the 47 monitoring stations. Relative to other parameter groups, these five groups also had limited data. Results for 11 of the 126 EPA priority toxic pollutants (consisting of inorganic parameters and metals) were retrieved from STORET.

Surface water resources in the FONE study area include Meadow Run, Coolspring, Stony Fork, Big Sandy Creek, and numerous other perennial and intermittent streams; Oak Lake, Deer Lake, and other reservoirs; and many

small natural lakes, ponds, and springs. The data inventories and analyses contained in this report indicate a shortage of relatively recent observations for many parameters measured in the study area. Of the 47 monitoring stations, 32 reported only data before 1985. Of the 22,245 observations collected in the study area, approximately 82 percent were reported before 1985. Water quality data reported within the park boundaries consist of only 12 observations collected from one station (FONE 0032) in August 1977 as part of the National Uranium Resource Evaluation effort. Without adequate data it is difficult to make definitive statements regarding recent water quality within the study area; however, from the limited available data it appears sections of the study area, particularly around the Stony Fork, have been impacted by human activities. Potential anthropogenic sources of contaminants include extensive coal mining (both strip and deep mines); municipal and industrial wastewater discharges; atmospheric deposition; urban runoff; agricultural runoff; stormwater runoff; construction activities; and recreational use.

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INTRODUCTION

The National Park Service's (NPS) Organic Act of 1916 states that the mission of the NPS is to promote and regulate the use of national parks, monuments, and other units "... to conserve the scenery and the natural and historic objects and wildlife therein and to provide for the enjoyment of the same in such a manner and by such means as will leave them unimpaired for the enjoyment of future generations." One task embodied by this mission is preserving and protecting water resources and water dependent environments in parks. Ensuring the integrity of park water quality, due to its importance in sustaining natural, aquatic park ecosystems and supporting human consumptive and recreational use, is fundamental to successfully addressing this task. The first step in ensuring the integrity of park water quality is defining historic and extant water quality.

This document represents one product of an ongoing effort by the NPS Water Resources Division (WRD) and the Servicewide Inventory and Monitoring Program to characterize baseline water quality using existing data at park units containing significant natural resources. This effort was initiated in 1993 by the award of a contract to Horizon Systems Corporation to retrieve, format, and analyze surface water quality data from the Environmental Protection Agency's (EPA) Storage and Retrieval (STORET) database system. The scope of work identified in the Request For Proposals outlined several sequential, interrelated project phases, including, but not limited to: (1) determining the water quality retrieval/query area around each park; (2) downloading and assessing the quality of the data from STORET; (3) generating basic water quality summary statistics and graphic plots; (4) reformatting water quality data for compatibility with the park-based Water Quality Data Management System presently under-development; and (5) providing recommendations concerning possible hardware, software, and personnel options for storing combined park databases in a centralized NPS water quality database. This report documents the results of phases one through four of this effort for this park unit.

Goal

The goal of this document is to provide descriptive water quality information in a format usable for park planning purposes (eg. Water Resources Management Plans, Resource Management Plans, and General Management Plans). The report is designed to characterize baseline water quality rather than assess specific water quality problems at a park. This is consistent with the Servicewide Inventory and Monitoring Program's goal of obtaining basic, "Level I", water quality parameters for key waterbodies at each park (National Park Service 1993). Consequently, this report is best used as a reference document to help design new goal-driven water quality monitoring programs rather than as conclusive evidence of previous or existing water quality problems.

Purpose

The purpose of this report is to inventory existing park water quality data; establish baseline water quality at the park; identify potential water quality problems; and establish a park water quality database. This report is intended to enable park resource managers to compare and contrast water quality data collected as part of ongoing inventory and monitoring programs with historical water quality trends. Additionally, this report is intended to foster better designed park-based water quality inventory and monitoring programs in the future. The water quality databases which accompany this report will also lay the groundwork for establishing a NPS water quality database that will allow Regions and Washington Offices to generate regional and national assessments of park water quality.

Objectives

Specific objectives of the study documented in this report are to:

1. Retrieve water quality and related data from the EPA's STORET and other database systems;

2. Develop a complete inventory of all retrieved data;

3. Produce descriptive statistics and appropriate time series and box-and-whiskers plots of water quality data to characterize period of record, annual, and seasonal central tendencies and trends;

4. Compare water quality data with relevant national EPA water quality criteria on a station-by-station and study area basis;

5. Determine the presence and/or absence of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameters within the study area; and

6. Reformat water quality and other related data for use in the park-based Water Quality Data Management System, presently under-development, and other appropriate analytical tools.

Document Overview

This report is comprised of five chapters. The first chapter, this Introduction, provides a brief statement of the study's background; goal, purpose, and objectives; and the key personnel who helped produce the document. This chapter also contains this brief overview of the document's contents and important interpretive caveats to consider when referring to and using this document. The second chapter focuses on the methods, procedures, and databases that were employed to retrieve and analyze water quality data for the park. The third chapter is the user's interpretive guide to chapter four. Chapter three explains how to interpret all the tables and figures presented in chapter four. Chapter four, which likely comprises the majority of the document (unless there isn't much water quality data for the park), contains detailed inventories, descriptive statistics, graphics, and national EPA water quality criteria comparisons characterizing the park unit's water quality data on a station-by-station basis and over the entire study area. This chapter also contains a comparison of park water quality data with the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters and a listing of water quality observations that were outside the STORET edit criteria range. Chapter five, the Appendices, contains more specialized materials such as the file names and database structures included on floppy disk(s) with this report; STORET edit criteria; national EPA water quality criteria; Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters; selected water quality references; and other materials which provide background on the methods, procedures, and databases used or produced by this study.

The water quality and other related data referenced in this report accompany the document on floppy disk. The water quality parameter data file is in DBASE III+[1] format and will be useable in the park-based Water Quality Data Management System presently under-development. The water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and River Reach databases are also in DBASE III+ and/or ASCII format for ready-use in Geographic Information Systems (GIS), Computer-Aided Design Systems, or Desktop Mapping Systems.

Caveats

While intended primarily as a reference document, it is important that users peruse the first three chapters and Appendices of this report to better understand and interpret the results presented in chapter four. As a means for identifying potential areas for more intensive study, comparisons of the park's water quality data with relevant national EPA water quality criteria for appropriate designated uses[2] and with the Servicewide Inventory and

[1]The use and/or mention of specific proprietary hardware or software packages is for informational purposes only and is not intended to connote or denote an endorsement.

[2]The Environmental Protection Agency's Quality Criteria for Water 1995 Final Draft (Silver Book) was the primary source of water quality criteria. In the spirit of the other caveats offered in this section, it is important to recognize that water quality criteria are often revised when new or better information become available.

Monitoring Program's "Level I" water quality inventory parameters have been made. Extreme caution must be exercised in interpreting the results of these comparisons. Observations that exceed water quality criteria may have occurred due to any number of natural or anthropogenic factors, as well as other reasons. For example, STORET is a "user-beware" water quality database system. While there is some rudimentary edit (bounds) checking of any data entered in STORET (See Appendix C), users are basically free to enter their own data. Beyond data entry errors, the possibility of inaccurate data entering the system due to inappropriate measurement techniques, sample mistreatment, and other reasons is a serious concern. Consequently, if observations for a particular parameter frequently exceed the EPA water quality criterion over a prolonged time period, the best approach is to examine in detail the data exceeding the criterion. Questions which should be asked regarding the data include: What water source(s) are manifesting the problem? Does the data make sense? Was it collected by a reputable organization following a sound study plan and employing accepted techniques? If the answers to these questions still cause concern, a specific cause and effect water quality investigation focusing on the parameters of concern may be warranted. Similarly, the absence of particular Servicewide Inventory and Monitoring Program "Level I" water quality parameters from the park only means that no entity or organization has collected and entered this data into the EPA's STORET database. Too frequently, data that are collected in and around NPS units never make it into the EPA's national water quality database. These data may exist in published or unpublished reports, file cabinets, or other databases. Before definitively concluding that no baseline data exist for a particular parameter, these alternative resting grounds for data should be investigated. Such a detailed exploration, however, was beyond the scope of this study.

Key Personnel

Many individuals contributed to the design and implementation of this project. The primary contributors and their roles in the project are briefly mentioned below.

National Park Service, Water Resources Division:

Dean Tucker was the Contracting Officer's Technical Representative responsible for designing, coordinating, and implementing all aspects of this effort.

Mike Matz coordinated and managed the team which prepared all components of the report.

Gary Rosenlieb provided administrative oversight and was involved in quality control for all tasks related to this project.

Barry Long and Roy Irwin reviewed technical tasks and provided water quality expertise related to data analysis.

Gary Smillie provided hydrologic expertise in the determination of hydrologic seasons.

Anna Perea and Donnie Dustin helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, J. Chris Echohawk, Brad Van Deusen, Kristie Maczko, Brian Verbeck, Robert Flynn, and Dawn Grandbois, provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, Mary Beth Talty, Todd Widegren, Curtis Cooper, and Paul McElvery uploaded water quality data to STORET prior to report preparation.

Jacquie Nolan designed the cover.

Horizon Systems:

Cindy McKay served as Project Manager for Horizon Systems, performed the initial requirements analysis, and was involved in all quality control tasks related to the project.

Alan Cahoon was responsible for automating the procedures which produced the water quality databases and Water Quality Results chapter.

Sue Hanson, P.E., provided technical advice for writing this document.

Dr. Jim Loftis was the data quality analyst for the project.

Armando F. Ballofet, P.E., served as the local technical liaison between Horizon Systems and the NPS.

Other National Park Service:

Several other individuals provided invaluable technical review, comments, administrative support, and/or other assistance, including: Dan Kimball, Bill Jackson, Mark Flora, Gary Williams, John Karish, Brendhan Zubricki, Richard Hammerschlag, Randy Ferrin, Gary Vequist, Mike Martin, Kevin Berghoff, and Dyra Monroe.

METHODOLOGY

This section provides an overview of the procedures and criteria used to retrieve and analyze water quality data for each park unit. Generating baseline water quality data inventories and analyses for all NPS units is a monumental task. To accomplish this undertaking given a very limited budget, the procedures employed to produce each report had to be as generic and automated as possible. Consequently, customization of reports to individual park needs and issues was not feasible. Moreover, such customization was beyond the scope of this effort which was simply intended to produce baseline water quality data inventories for all parks rather than customized issue-driven reports. During the procedure-development stages of the project, specifications for the final product evolved, within the context of the aforementioned resource constraints, to focus on comprehensive water quality baseline data inventories and concise, descriptive statistical examinations of the available water quality data for each park unit. Detailed below are the data sources and final methods and procedures that were used to create the baseline water quality inventories, analyses, databases, and other products for each park unit. A thorough understanding of the limitations of the data sources and procedures described in this chapter and the next (Interpretive Guide to Water Quality Results) is a prerequisite to intelligent use of the results presented in this document.

Delineation of Park Study Area

The first step in retrieving water resources-related data for each park was deciding on a procedure to determine the study area boundary. Since water flows through parks, utilizing the park boundary as a simple query/study area was deemed inadequate. On the other end of the continuum, using the entire watershed as the study area was considered superfluous given: (1) the areal extent of certain park watersheds (eg. the entire Mississippi River); (2) the sheer volume of potentially irrelevant data such a large study area could generate; and (3) the resources required to specify the watershed for each park unit. The approach which was ultimately adopted - a modified hydrologic boundary - reflects a compromise between the park boundary and the entire watershed. Thus the study area employed for each park is an area extending at least three miles upstream and one mile downstream from the park boundary. Although these distances are somewhat arbitrary, this approach is easy to automate and was felt to limit the data retrieved, in most instances, to that of most importance to the park. Extending the query area one mile downstream of the park was intended to capture any data immediately downstream of the park which may reflect the quality of the water in the park. A current (as possible) copy of each park's boundary was obtained in digital format directly from the park or digitized from Regional land status maps, U.S. Geological Survey (USGS) quadrangles, or other sources. Using GIS techniques, the boundary was used to create the three miles upstream, one mile downstream buffer. For a few parks with which WRD water quality specialists were very familiar with potential water quality threats and/or valuable sources of data that may lie just outside the study area, the study area may have been tweaked (enlarged) to cover these areas of concern or interest. Unfortunately, a customized study area was not feasible for all park units. Hence, the three miles upstream, one mile downstream buffer was the primary study area employed for most parks. This study area was transferred to the EPA mainframe computer and used as the basis for all water resources-related data retrievals from the data sources described below.

Data Sources

The EPA maintains many mainframe data systems related to national water resources (U.S. Environmental Protection Agency 1992). Six of these data systems were used for this project:

- STOrage and RETrieval System (STORET) - water quality parameter data, locations of sampling stations, descriptive elements about stations and parameters;
- Industrial Facilities Discharge (IFD) - locations of industrial and municipal point source discharge facilities;

- Drinking Water Supplies (DRINKS) - locations of intake pipes for drinking water supplies;
- Water Gages (GAGES) - locations of USGS and other water gages;
- Water Impoundments (DAMS) - locations of most large water impoundments (greater than 10,000 acre feet at normal pool volume) and many smaller impoundments; and
- River Reach File, Version 3 (RF3) - 1:100,000 scale geographical representation of surface waters (rivers, lakes, etc.) with a unique identifier assigned to each surface water segment and connectivity information useful for routing and navigation.

STORET is the national water quality data repository (U.S. Environmental Protection Agency 1989). Water quality data is entered in STORET by public agencies (federal, state, or local) that collect water samples and/or perform laboratory analysis. As such, STORET is a "user-beware" data system. Although the EPA manages the STORET data system and, since November 1983, has imposed some minimum quality control criteria on the data (See Appendix C), data are generated and input to STORET by the "owner" agencies. Consequently, the EPA does not certify any data within STORET. Currently, there are over 800,000 active and inactive sampling stations and more than 225 million observations covering in excess of 13,000 water quality parameters entered in STORET. The earliest data dates back to the turn of the century. Using the bi-monthly update cycle, user agencies may store results of recent monitoring activities in STORET. Included in STORET is USGS WATSTORE water quality data, which is updated on a monthly basis. Although STORET contains a phenomenal amount of data, it is important to note that data exist in STORET only if the collectors decide to upload their data to the system. Since many agencies and researchers do not upload their data to STORET, the absence of water quality data in the system for a particular area doesn't mean that there has never been any water quality data collected for the area. The data may exist in published or unpublished reports, file cabinets, or in agency-specific databases. Identifying and retrieving these other sources of data were beyond the scope of the present effort. All parameter data and water quality station location data downloaded from STORET within the park's study area are included in DBASE III+ format files on disk(s) accompanying this report (See Appendices A and B).

The data within the IFD database are extracted from the EPA's Permit Compliance System (PCS). IFD contains the facility locations of all industrial and municipal dischargers which require a National Pollutant Discharge Elimination System (NPDES) permit to operate. Over 7,100 municipal, federal, and industrial facilities discharging into the waters of the United States are tracked by PCS and IFD. If any industrial facilities discharges exist within the study area, a file in DBASE III+ format documenting a variety of information about each discharge accompanies this report on disk (See Appendices A and B).

The EPA DRINKS database identifies locations of drinking water supply intakes. This file contains data for 850 supplies which serve more than 25,000 people, and 6,800 supplies which serve between 1,000 and 25,000 people. If any drinking water intakes exist within the study area, a file in DBASE III+ format documenting a variety of information about each intake accompanies this report on disk (See Appendices A and B).

The GAGES data originates primarily with the USGS and copies are maintained on the EPA mainframe computer for ease of integration with other EPA national data systems. Although other agency's water gages, as well as some artificial gages, may appear in GAGES, the vast majority of gages are stream gages belonging to the USGS. The GAGES database contains approximately 36,000 records for both active and inactive gaging stations. If any USGS or other agency stream gages occur within the study area, a file in DBASE III+ format documenting several fields of information about each gage accompanies this report on disk (See Appendices A and B).

The Water Impoundment database was originally compiled by the U.S. Army Corps of Engineers in response to a Congressional inquiry on dam safety hazards (GKY and Associates 1990). The EPA subsequently modified the database for use in water quality investigations. Of the 68,155 dams in the database, 2,125 are considered large (impounding 10,000 acre feet or more at normal pool volume). It is important to note that while the database includes entries for 66,030 smaller dams, estimates place the actual number of dams in the U.S. at several million

(including small farm ponds). If any water impoundments occur within the study area, a file in DBASE III+ format documenting several fields of information about each impoundment accompanies this report on disk (See Appendices A and B).

The RF3 data system is a hydrologic database of surface water features across the U.S. (excluding, at present, Idaho, Oregon and Washington, which currently operate a different system - although this data is expected to be converted to RF3 soon, Alaska and Hawaii). RF3 was created primarily from 1:100,000 scale USGS Digital Line Graph data. RF3 is made up of over 3,000,000 individual "reaches". A reach is generally defined as a portion of surface water between two confluences (U.S. Environmental Protection Agency 1993). The linework underlying RF3 contains over 95,000,000 coordinate points. RF3 is designed to facilitate hydrologic routing, identifying upstream and downstream elements, and specifying the exact location of any point on a stream network. RF3 data exists as a series of traces with associated attributes. The EPA project which is producing RF3 is being conducted in three phases: Compilation, Assessment, and Revision. The Compilation phase is complete except for Idaho, Washington, Oregon, and Alaska. The Assessment phase was completed during the first half of 1994; while the Revision phase was begun in March 1994. One important outcome of the Revision phase is that the reach codes which uniquely identify each surface water feature will change. Consequently, these codes should not be used, at this time, as keys for relating other data to RF3. The RF3 data provided with this document is provisional and should be used only to provide a geographic backdrop for the park's water quality data. RF3 data covering each USGS catalog unit (a geographic area representing a single or multiple drainage basin(s), or some other distinct hydrologic feature (U.S. Geological Survey 1982)) touched by the park's study area is included in ASCII export and DBASE III+ formats on the disk(s) accompanying this report (See Appendices A and B).

For additional information on any of these data systems, contact the EPA Office of Water at (202) 260-7028.

Data Retrieval and Analysis Procedures

The six EPA data systems discussed above reside on the EPA mainframe computer located in Research Triangle Park, N.C. Horizon Systems used a dedicated, leased telephone line with a data transfer rate of 9600 bits per second to download data occurring within the park's study area from all the databases. The bisynchronous communication software and hardware provided error checking during all data transfer procedures.

As described above, the park study/query area boundary was used to select the water quality stations, industrial facilities discharges, drinking water intakes, water gages, water impoundments, and river reaches associated with the park unit. For various reasons, screening criteria (described later in this section) were employed to select appropriate water quality stations, parameters, and observations. Horizon Systems wrote several mainframe programs to automate, to the greatest extent feasible, the STORET data retrieval and storage procedures. Once the data were extracted from the EPA data systems, they were downloaded to a microcomputer for statistical analyses and reformatted into DBASE III+ compatible format.

Specifically, once on the PC, the data were processed to:

(1) Reformat the data into DBASE III+ format and other database structures;
(2) Eliminate questionable data outside the STORET edit criteria ranges (See Appendix C);
(3) Display on a map the location of water quality monitoring stations and other water resources themes;
(4) Determine the frequency of water quality observations by station, parameter, and station/parameter;
(5) Generate descriptive period-of-record water quality statistics in a tabular format;
(6) Generate appropriate descriptive annual and seasonal analyses of the water quality data in a tabular format;
(7) Plot appropriate period of record time series and annual and seasonal box-and-whisker graphs;
(8) Compare the water quality data against relevant EPA national criteria; and

(9) Compare the water quality data against the NPS Servicewide Inventory and Monitoring Program's "Level I" water quality parameters.

Special customized microcomputer programs (primarily written in Clipper and Microsoft Professional BASIC) and procedures were created to address each of these tasks. All reformatted database files are included on disk(s) accompanying this document. The contents of these databases are described briefly below. Complete database structures are included in Appendices A and B. The descriptive water quality tabular statistics (see "Statistical Analyses" below) were computed based upon NPS specifications. Command or batch files were generated to drive STATGRAPHICS 7.0 in order to produce all the time series and box-and-whiskers plots.

Park Unit Databases

Up to seven digital databases in DBASE III+ and other formats have been created for the park by querying the water resources-related data sources described above. The disk(s) containing these databases accompany the report. The contents of each of these databases are discussed briefly below. More detailed documentation of these databases is included in Appendices A and B.

(A) Water Quality Parameter Data: This database includes all the water quality parameter data downloaded from STORET that passed the STORET Edit Criteria, Date, Station Type, and Phase 0 Parameter screens (described below) and is summarized tabularly and graphically in this document. This constitutes the park's baseline water quality data. Since it is already in digital format, more sophisticated analysis of the data is possible than the descriptive statistics and graphics presented here.

(B) Water Quality Station Locations: This database consists of the STORET header information describing each station where water quality data was collected. As the latitude and longitude of the station are included in the database, this file is easily imported into the park's GIS.

(C) Industrial Facility Discharge Locations: This database includes any industrial or municipal point source discharges located within the park's study area. As the latitude and longitude of each discharge facility are included in the database, this file is easily imported into the park's GIS.

(D) Drinking Water Intake Locations: This database includes any drinking water intakes located within the park's study area. As the latitude and longitude of each intake are included in the database, this file is easily imported into the park's GIS.

(E) Water Gage Locations: This database includes water (stream, lake, estuary, well, spring, climate, or other) gages located within the park's study area. Most of the gages will likely be stream gages belonging to the USGS. As the latitude and longitude of each gage are included in the database, this file is easily imported into the park's GIS.

(F) Water Impoundment Locations: This database includes any water impoundments (dams) located within the park's study area. As the latitude and longitude of each impoundment are included in the database, this file is easily imported into the park's GIS.

(G) River Reach Data: This database includes all stream traces (1:100,000 scale) and attributes for reaches falling within any USGS catalog unit that touches the park's study area. The traces are geo-referenced in ASCII format. The attributes are in both ASCII export and DBASE III+ formats. This information is also readily incorporated into the park's GIS.

The absence of any of these seven files from the disk(s) accompanying the report indicates that there was either no data of this type within the park's study area or the data was unavailable. Several other files are included on the disk(s) accompanying this report, including digital copies of all the figures and tables contained in the document and some other items. Refer to Appendices A and B for detailed documentation of these files. Not included on

disk is an Encyclopedia File (for WRD reference) that documents the minimum and maximum values for each water quality parameter and the parks in which those values were recorded. When Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks, this Encyclopedia File will be available upon request from the NPS WRD.

Screening Methodologies and Procedures

Developing automated or semi-automated procedures to produce baseline water quality inventories and analyses for all national park units required constant testing and debugging of procedures. Three parks, Rock Creek Park, Yellowstone National Park, and Indiana Dunes National Lakeshore, were used to pilot test and refine the automated procedures. It became evident, after a preliminary analysis of all the downloaded STORET data, especially for Indiana Dunes National Lakeshore, that the specifications for the graphical analyses could generate hundreds (possibly thousands) of plots, many of which would not necessarily be useful. Also, there were many stations; parameters; and/or observations downloaded that were not part of the study's objectives; not overly useful; or of dubious quality. In order to reduce the number of graphical plots (time series, annual and seasonal box-and-whiskers) to fit within project resources, various screening criteria were investigated. Ultimately, a comprehensive set of screening criteria were developed to reduce the number of graphical plots. After initial counts of the total number of possible time series and annual and seasonal box-and-whiskers plots were generated, these counts were used to decide which screening criteria would be applied to limit the number of these plots produced for the park unit. Additional screening criteria were employed to restrict the tabular descriptive statistics results to only those deemed useful to the park. Table A provides the categories of screening criteria and to which analyses the screens were applied. A "yes" entry in the table means that the screening category eliminated or prevented data from appearing in certain tables and plots contained in the document. Consequently, in understanding how data from STORET was used in this report, it may be helpful to keep in mind the three general types of screening criteria: (1) screens that apply to stations; (2) screens that apply to certain parameters at stations; and/or (3) screens that apply only to particular observations of parameters at stations. A detailed description of each of the screening criteria categories follows this table. *It is important to note that statistics in "Inventory" reports may not be consistent with statistics in "Overview" reports since different categories of screening criteria were applied*. Also, if attempting to replicate the results of the statistical and graphical analyses presented in this document, be sure to follow the same screening methodologies.

STORET Edit Criteria

As mentioned previously, STORET is a "user-beware" data system. As the EPA doesn't certify any data in STORET, public agencies enter and are responsible for the quality of their own data. Only data entered since November 1983 have been subjected to any rudimentary edit/bounds checking. Agencies entering data since this date can elect to override the edit/bounds checking for individual observations. USGS WATSTORE water quality data is entered into STORET without any EPA edit/bounds checking to ensure data integrity between WATSTORE and STORET. Unfortunately, during the course of our pilot tests, erroneous USGS and EPA water quality data values were discovered. In order to eliminate as much "bad" data as possible, all water quality data downloaded from STORET was subjected to automatic edit/bounds checking (STORET Edit Criteria contained in Appendix C) for the 190 most common parameters. Observations falling outside the STORET Edit Criteria were documented (See the Water Quality Observations Outside STORET Edit Criteria for Park section in the Water Quality Results chapter) and then retained or discarded from the database and all tables and plots based on whether the value was judged as being in the realm of possibility. Although the STORET Edit Criteria screen likely removed some "bad" data for these common parameters, the probability of other erroneous data in the database is high. Be sure to consult the Caveat section in the Introduction.

Table A. Categories of Screening Criteria and to Which Output Products They Apply (A "yes" Entry Means the Screening Category Eliminated or Prevented Data From Being Used in the Product):

Screening Category	Data Download	Overview Tables	Inventory Tables	Annual Tables	Seasonal Tables	Standards Tables	Plots (All)
STORET Edit Criteria	yes	yes	yes	yes	yes	yes	yes
Date	yes	yes	yes	yes	yes	yes	yes
Station Type	yes	yes	yes	yes	yes	yes	yes
Phase 0 Parameter	yes	yes	yes	yes	yes	yes	yes
Phase 1 Parameter	no	no	yes	yes	yes	yes	yes
Media Type	no	no	yes	yes	yes	yes	yes
Remark Codes	no	no	yes	yes	yes	yes	yes
Composite Type	no	no	yes	yes	yes	yes	yes
Phase 2 Parameter	no	no	no	no	no	no	yes
Observations/Period of Record	no	no	no	yes	yes	no	yes

Date Screen

Every water quality observation in STORET typically has a sampling date associated with it. Unfortunately, STORET does not prevent users from entering incorrect dates. Consequently, any water quality observation with an incorrect and/or suspect date (eg. a month greater than 12; a day greater than 31; or a sample date later than the STORET retrieval date) were discarded.

Station Type Screen

STORET contains data from a wide variety of stations classified by the type of waterbody in which samples were collected. As this project's purpose was to inventory and analyze surface-water quality, the following surface-water station types were retrieved (clarification provided in parentheses):

Station Types Included In Retrieval
(a) STREAM
(b) CANAL
(c) LAKE
(d) RESERV (Reservoir)
(e) SPRING
(f) FWTLND (Fresh Water Wetland)
(g) SWTLND (Salt Water Wetland)
(h) ESTURY (Estuary)
(i) OCEAN

Ground water and/or other station type data may have been retrieved if the entering agency classified the station type incorrectly. Rectifying this error was beyond the scope and resources of this project.

Phase 0 Parameter Screen

Nearly all water quality parameters associated with each station type listed above were retrieved. The only exception to this was the exclusion of most of the STORET administrative parameters. A complete list of STORET administrative parameters is included in Appendix D. The few administrative parameters that were included in the retrievals are as follows:

Code	STORET Administrative Parameter Description
00027	Code No. for Agency Collecting Sample
00028	Code No. for Agency Analyzing Sample
00063	Sampling Points, Number of In a Cross Section
00111	Ratio of Fecal Coliform to Fecal Streptococci
00115	Sample Treatment Code (1=Raw, 2=Treated)
34772	NPDES Number, Cross Reference
45580	Method of Analysis
74065	Stream Flow Class
74066	Annual Runoff
74067	Soil Classification
74068	Water Quality Designated Use Classification

Phase 1 Parameter Screen

Some of the data retrieved from STORET was not suitable for statistical or graphical analysis. Consequently, this screening criterion eliminated all parameters which were not suitable for statistical or graphical analysis within the context of this project. The full list of these parameters is presented in Appendix E. Examples of parameters excluded from statistical and graphical analysis include the administrative parameters mentioned above, land use acreage, encoded values, dates, latitude/longitude, etc. Excluded parameters do, however, appear in the Parameter Period of Record and Station/Parameter Period of Record (two of the "Overview" Tables), as well as in the water quality parameter file included on disk(s) accompanying this report.

Media Type Screen

Water quality samples can be taken in a variety of aqueous media. Water quality data were retrieved from STORET only if the media were WATER or VERT (vertically integrated). WATER and VERT samples comprise the overwhelming majority of samples in STORET. The media screen eliminated the following water quality sampling media:

Media Screen	Description
BOTTOM	Sampled At the Bottom
DREDGE	Sampled By Dredge
PORE	Pore Sample
CORE	Core Sample

Remark Code Screen

STORET enables the agency collecting water quality samples to provide a qualifying remark for each parameter observation. These remarks provide additional information about the measured or observed value entered into STORET (See Appendix B - Parameter Data File for a complete listing and description of all remark codes). Based on the STORET remark codes, two potential screens were applied to water quality observations based on whether the measured value was used in subsequent analyses: (1) Elimination or (2) Modification/Inclusion.

Elimination:
Non-composite water quality parameters with the remark codes presented in Table B were eliminated from the period of record, annual, and seasonal descriptive statistics and graphics. Not including observations with these remarks was justified by the fact that most of the remarks: (A) indicate either less confidence in the measured value; (B) are remarks for nominal or categorical data that doesn't lend itself to statistical analysis; or, (C) complicate the statistical analysis beyond the scope of this effort. Observations containing these remark codes comprise a very small fraction of the data. Although statistical analyses weren't undertaken on this data, all water quality observations, regardless of remark code, are included on disk(s) accompanying this report. If you re-analyze this data in order to replicate the results presented here, be sure to eliminate all non-composite observations with the remark codes presented in Table B.

Table B. Non-composite Parameters With the Following Remark Codes Were Eliminated From Statistical and Graphical Analysis:

Remark Code	Description of STORET Remark Code
F	Female Species.
J	Estimated, Not the Result of Analytic Measurement.
M	Presence Verified, But Not Quantified, Below Quantification Limit. For Species, Male. For Oxygen Reduction Potential, Indicates Negative Value.
N	Presumptive Evidence of Presence.
O	Analysis Lost.
V	Analyte Was Detected In Sample and Method Blank.
W	Less Than Lowest Value Reportable Under Remark "T".
Z	Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value.

Modification/Inclusion:
Water quality parameter observations with the remark codes presented in Table C were halved prior to inclusion in period of record, annual, and seasonal descriptive statistics and graphics. These remark codes deal with observations that were below the detection limit for the parameter. The common water quality data analysis convention for these remark codes is to use half of the detection limit in statistical analyses (Ward, Loftis, and McBride 1990; Gilbert 1987). Although this is a somewhat defensible treatment of observations below the detection limit, the statistics that may be computed using these halved values may not be defensible. Consequently, any computed statistics in inventory, annual, or seasonal tables that are comprised of 50% or more K, T, and U remark codes are footnoted "Computed with 50% or more of the total observations as values that were half the detection limit." This will provide the user with some caution in using and interpreting these results. Water quality data included on disk(s) accompanying this report that may have these remark codes are stored as the original entry (detection limit). If you re-analyze this data in order to replicate the results presented here, be sure to substitute half the detection limit value in the database whenever these remark codes are encountered.

Table C. The Value of Water Quality Parameters With the Following Remark Codes Were Halved (Half of the Detection Limit Entered In STORET) Prior to Inclusion In Descriptive Statistics and Graphics:	
Remark Code	**Description of STORET Remark Code**
K	Off-scale Low, Actual Value Not Known, But Known to Be Less Than Value Shown.
T	Less Than Detection Criteria.
U	Analyzed For But Not Detected, Value is Detection Limit For Process Used. If Species, Undetermined.

Composite Type Screen

Sometimes data entered in STORET represent something other than a single measurement at one location at one point in time. These samples are typically referred to as composite samples due to the fact that they vary temporally and spatially. Consequently, the observation entered into STORET for composite data is typically a computed value that summarizes the data over time and/or space. Such data complicate statistical and graphical analyses and must be handled separately. Such treatment was beyond the scope of this study; although composite values typically represent only a fraction of STORET observations. The composite type screen eliminates all composite observations from statistical and graphical analyses, except those with a composite type code of "A" that have a one day or less sampling period and those with a composite type code "D". All water quality observations, regardless of composite type code, are included on disk(s) accompanying this report. If you re-analyze this data in order to replicate the results presented here, be sure to exclude all composite observations except those with a code of "A" that have a one day or less sampling period and those with a code of "D". Table D presents a list of possible STORET composite type codes.

Table D. Possible STORET Composite Type Codes

Composite Type Code	STORET Composite Type Description
A	Average
H	Maximum
L	Minimum
N	Number of Observations
#	Number of Observations
S	Standard Deviation
U	Sum of Squares
V	Variance
C	Coefficient of Error
X	Coefficient of Variance
E	Skewness
F	Kurtosis
Z	Number of Obs. That Exceed An Established Limit
%	Precision
$	Accuracy
B	N/A
D	Indicates Replicate Sample

Phase 2 Parameter Screen

Due to budgetary limitations, the number of graphical plots (time series, annual and seasonal box-and-whiskers) produced had to be manageable - typically no more than 100 total plots. After scrutinizing the results of the pilot tests and the Baseline Water Quality Data Inventory and Analysis Reports produced for the first group of parks, the 19 parameters which, typically, were the most frequently measured at nearly all stations were water temperature, stage, discharge, and various meteorological measurements (See Table E). Consequently, most of the graphical plots produced would be of water temperature, stage, discharge, and meteorological conditions. Although these are important parameters, particularly in conjunction with other water quality parameters, it was felt that plotting resources would be better allocated to other water quality parameters. Consequently the STORET parameter codes listed in Table E never generated graphical plots. It is important to note, however, that these parameters are included in all other aspects of the project, including all applicable period of record, annual, and seasonal descriptive statistics tables.

Table E. Frequently Measured STORET Codes That Were Prevented From Generating Plots	
STORET Parameter Code	**STORET Parameter Description**
00003	Sampling Station Location, Vertical (Feet)
00010	Water Temperature (Degrees Centigrade)
00020	Temperature, Air (Degrees Centigrade)
00021	Temperature, Air (Degrees Fahrenheit)
00025	Barometric Pressure (MM of HG)
00032	Cloud Cover (Percent)
00035	Wind Velocity (Miles Per Hour)
00036	Wind Direction in Degrees from Trun N (Clockwise)
00040	Wind Direction (Azimuth)
00045	Precipitation, Total (Inches Per Day)
00046	Precipitation, Total (Inches Per Week)
00052	Humidity, Relative (Percent)
00061	Stream Flow, Instantaneous (CFS)
00065	Stream Stage (Feet)
81903	Depth of Bottom of Water @ Sample Site (Feet)
82553	Rainfall In 1 Day Inclusive Prior to Sample (Inches)
82554	Rainfall In 7 Days Inclusive Prior to Sample (Inches)
82371	Rainfall In 3 Days Inclusive Prior to Sample (Inches)
82372	Rainfall In 14 Days Inclusive Prior to Sample (Inches)
85599	Precipitation, Total/Period-Rain Equivalent (Cm/Sample)

Observations/Period of Record Screen

Despite never plotting water temperature, stage, discharge, and meteorological measurements, the number of plots generated by some parks still exceeded the 100 plot limit. Also, some rationale was needed to plot only those parameters with sufficient data density to make a meaningful statistical graphic. For example, time series plots comprised of only a few observations or annual or seasonal box-and-whiskers plots with limited observations and/or data in only one or two years or seasons are not very informative. Consequently, a number of plotting criteria were developed to limit the number of time series and box-and-whiskers plots to, at most, 100 informative graphics by using each parameter's number of observations and period of record. Similar, albeit less stringent criteria, were used for including results of annual and seasonal analyses in descriptive statistics tables. Consequently, there are more summaries of annual and seasonal results in tables than in graphics. Whenever an entry in an annual or seasonal table generated a plot, this entry was footnoted to notify the reader of the presence of the graphic. Due to differing quantities of data at parks, different screening criteria were employed. The same

criteria for appearance in seasonal and annual tables were used for all parks. Table F presents the least stringent plot screens.

Table F. Least Stringent Plot Screening Criteria Used to Limit the Number of Plots Generated

Time Series: To generate a time series plot, a station/parameter combination must have a period of record of at least 2 years and a total of at least 8 observations. Annual Analysis: To generate an annual box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive. Seasonal Analysis: To generate a seasonal box-and-whiskers plot, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.

The exact three plot screens used varied by park unit and are documented in the Overview section of the Water Quality Results chapter. If your park's plotting criteria deviated from these least stringent criteria, it is because too many plots would have been generated using these criteria.

The criteria used for appearance of station/parameter combinations in annual and seasonal analysis tables are presented in Table G. These tabular criteria, which are actually the least stringent plotting criteria, were constant from park to park.

Table G. Criteria Used for Generating Entries in Annual and Seasonal Analysis Tables

Annual Analysis: For an entry to appear in an annual table, a station/parameter combination must have at least 9 observations in each of at least 4 years. The years do not have to be consecutive. Seasonal Analysis: For an entry to appear in a seasonal table, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years. The years do not have to be consecutive.

Statistical Definitions

Since this report is intended only to characterize historical and/or existing water quality at the park rather than address specific water quality problems, only simple descriptive statistics are presented. Inferential and non-parametric statistical analysis to examine relationships and trends were beyond the scope of the study. The complete water quality dataset is provided on disk accompanying this report to afford the opportunity for more detailed exploratory data analysis. The descriptive statistics are included in the inventory, annual, and seasonal tables. Table H provides a brief definition of each descriptive statistic provided for each parameter at a station.

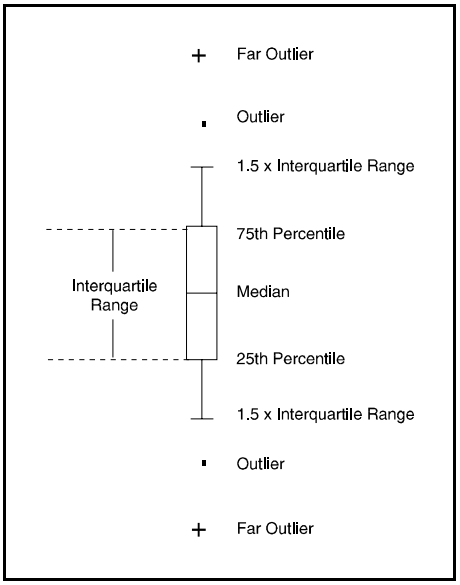
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

Observations:	The number of samples collected.
Median:	The median is the 50th percentile or the value in a dataset sorted in ascending order that exceeds 50% of all observations, yet is also exceeded by the remaining 50% of all observations.
Mean:	The sum of all observations collected divided by the number of observations.
Maximum:	The maximum value observed.
Minimum:	The minimum value observed.
Variance:	This is a measure of variability or dispersion of the observations; or, in other words, describes how many observations are close (or far), from the mean. It is calculated as the weighted average of the squared deviations from the mean.
Standard Deviation:	The positive square root of the variance.
10th Percentile:	The value in a dataset sorted in ascending order that exceeds 10% of all observations, yet is itself exceeded by the remaining 90% of all observations.
25th Percentile:	The value in a dataset sorted in ascending order that exceeds 25% of all observations, yet is itself exceeded by the remaining 75% of all observations. The 25th percentile is also known as the first quartile.
75th Percentile:	The value in a dataset sorted in ascending order that exceeds 75% of all observations, yet is itself exceeded by the remaining 25% of all observations. The 75th percentile is also known as the third quartile.
90th Percentile:	The value in a dataset sorted in ascending order that exceeds 90% of all observations, yet is itself exceeded by the remaining 10% of all observations.

As with the tabular descriptive statistics, the scope of the project limited the generation of exploratory graphics to time series plots and annual and seasonal box-and-whiskers plots. Plots were only generated, however, provided the parameter met or exceeded the relevant plotting criteria specified in the previous section.

Time series plots display the parameter concentration on the Y-axis and the date on the X-axis. This provides the user with a visual feeling for not only the parameter's concentration and variability over time, but also the density of data in different time periods. The time series plots provide a visual representation of the data in the basic station inventory. Due to software limitations, a line connects each measured value in sequence regardless of the time period between samples. Readers are cautioned not to assume that the concentration of the parameter between any two data points can be represented by a straight line. It is likely that the concentration varied between any two observations, particularly if the observations are separated by a significant time period.

The annual and seasonal box-and-whisker plots provide a graphical overview of the measured data and give the user a better understanding of the data's distribution and possible outliers. In essence, the box-and-whisker plots provide a visual representation of the data contained in the annual and/or seasonal tables. The interpretation of the boxes is provided in the figure to the right. Each box encompasses the middle 50 percent of measured values (from the 75th to 25th percentiles). The difference between the 75th and 25th percentiles is also known as the interquartile range. The horizontal line inside each box is the median or 50th percentile. The lines which extend out from each end of the box are the whiskers. The whiskers extend out from first quartile (25th percentile) and third quartile (75th percentile) to the smallest data point within 1.5 interquartile ranges from the first and third quartiles. Observations that extend beyond the whiskers are known as outliers. Far outliers are observations whose values lie more than three interquartile ranges below the first quartile or above the third quartile. These are designated with plus signs.



INTERPRETIVE GUIDE

TO WATER QUALITY RESULTS

This interpretive guide discusses each of the products presented in the next chapter - Water Quality Results. This chapter highlights how each of the tables and figures were prepared and how they can be used. Each subheading in this chapter corresponds to a particular product in the subsequent Water Quality Results chapter.

Overview

The Overview provides a brief one-page summary of the results of the various database retrievals for both the study area and the park. The study area results include the park results since the study area encompasses the park and all lands and waters within at least 3 miles upstream and 1 mile downstream of the park. Thus, the GIS estimated acreage of the study area should always be greater than the park acreage. The park acreage was computed from the digital boundary that was obtained for the park. More than likely this acreage will differ, perhaps significantly, from the "official" published acreage for the park due to the spatial and temporal accuracy of the digital boundary, treatment of inholdings, and other concerns. The number of STORET stations is the number of locations within the study area and park where an agency monitored (or intended to monitor) water quality. The number of stations with no data reveals the number of stations created in STORET for which water quality data were never entered. The number of stations with no statistical analysis reports the number of stations in the study area and park that contain data not amenable to normal parametric statistics. The number of longer term stations indicates the number of stations in the study area and park with at least 6 parameters having periods-of-record extending 2 years with an average of at least 1 observation per year over the period-of-record. The date of STORET retrieval is the calendar date when Horizon Systems downloaded all the data from STORET. Thus, the report documents all data entered in STORET prior to the retrieval date. Keep in mind that an agency can upload archival data at any time. Consequently, a retrieval date only guarantees that as of that date, this report contains all the data that had been entered into STORET. The period of record is the earliest date for which water quality data exist in STORET for the study area and park up to the date when the most recent data were entered prior to the retrieval date. The number of parameters measured is the number of unique water quality parameters measured within the study area and park and entered in STORET. The number of water quality observations is the sum of the total number of observations across all parameters within the study area and park. The number of industrial/municipal facilities discharges, drinking water intakes, water gages, and water impoundments are the number of each of these entities found within the study area and park. The number of time series, annual, and seasonal plots are the number of these different types of graphics produced by station/parameter combinations within the study area and park using the plotting criteria described in the previous chapter. The hydrologic seasons, described below, are the seasons used for the seasonal water quality data analysis. The time series, annual, and seasonal criteria are the plot and tabular screening criteria described in the previous chapter.

Regional Location Map

The Regional Location Map provides a small scale, general representation of the park and study area location within the United States. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report.

Water Quality Monitoring Locations Map(s)

The Water Quality Monitoring Locations Map(s) usually provides a larger scale representation of the park and study area than the Regional Location Map. This map indicates the locations within the study area where water quality has been monitored and the data entered into STORET. The water quality monitoring stations are labelled sequentially with the rightmost significant digits. The station names were assigned in numerically ascending order by latitude (for parks with a greater north-south extent than east-west) or longitude (for parks with a greater east-

west extent than north-south). Thus, this map serves as a visual index to the water quality data contained in the report. Since the 1:100,000 scale hydrography (from the River Reach File Ver. 3.0 or other sources) is displayed on the map, users can refer to the map to locate the station number on the reach in which they are interested and then find the appropriate section in the report that documents the water quality at that station. If the scale allows, USGS catalog units are also displayed on the map to provide an approximation of drainage basins. More than one Water Quality Monitoring Location map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are included on the disk(s) accompanying this report. The digital, geo-referenced data files documented in Appendices A and B will allow the park to create water quality monitoring stations as a coverage in their GIS.

Dischargers, Drinking Intakes, Gages, and Impoundments Map(s)

The Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) displays the same information as the Water Quality Monitoring Location Map(s) except the water quality stations are replaced by industrial/municipal facilities discharges, drinking water intakes, active and inactive gage locations, and water impoundments. This map also serves as a visual index allowing the user to determine the identification code of each discharger, drinking intake, gage, or impoundment. This number can then be used to obtain additional information about the entity on the following page of the report or to refer to the more detailed database files accompanying the report on disk. These more detailed database files are geo-referenced (See Appendices A and B), thus allowing the park to create these coverages in their GIS. More than one Dischargers, Drinking Intakes, Gages, and Impoundments map may be presented if the scale requires breaking the area into multiple maps for legibility. If multiple maps are necessary, an index map showing the geographic extent of each sub-map or panel will be present. Digital, reproducible copies of this graphic are also included on the disk(s) accompanying this report.

Industrial Facilities Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Table

This table provides some additional information about each of the discharges, drinking intakes, water gages, and water impoundments displayed on the previous map(s). This information generally includes the site identification number; the station or facility name; an address or some other indication of location; and some other pertinent information. More detailed information about each of these entities is contained in the database files on disk accompanying the report (See Appendices A and B).

Representative Mean Annual Hydrograph for Seasonal Analysis

One component of the water quality data analysis contained in the document is a seasonal analysis of the data (where adequate data exist). In order to undertake this analysis, some representation of the park's seasons was required. Seasons can be based on many factors (eg. hydrologic, climatic, recreational use, etc.). Since project resources did not allow us to contact every park and discuss with resource management staff what appropriate seasons may be for the park, WRD staff elected to adopt primarily a hydrologic/climatic definition of the seasons which uses a process of hydrograph separation to glean seasons from stream discharge patterns. The procedure employed to make these determinations was as follows:

(1) Find the nearest USGS Hydro-Climatic Data Network (HCDN) station (U.S. Geological Survey 1992) to the park that is most representative of streamflow conditions at the park. The HCDN is basically a subset of USGS streamflow stations, including only those stations that are unaffected by artificial diversions, storage, or other disruptions of the natural channel. All HCDN stations generally have at least a 20 year period of record. Consequently, discharge patterns at these stations should reflect only hydrologic and climatic influences. For the most part, selected HCDN sites were typically within 15-20 miles of the park. In some parks where WRD staff were aware of the existence of a stream gage located within the park that would be more representative of park waters even though it wasn't an HCDN site, this gage was selected.

(2) Retrieve the daily discharge values for the selected station from the USGS Daily Values File and generate a mean annual hydrograph and a box-and-whiskers plot of daily flows by month.

(3) Interpret the plots based on our knowledge of the hydrologic regime at these parks and assign seasons.

This approach, used for the majority of parks, assumes that most water quality data at the park will be found in streams and that the discharge pattern of the selected stream is representative of the seasons for all park waterbodies. Although this assumption may be weak for certain parks, project resources did not allow a more thorough investigation. For parks where there wasn't any stream gage (HCDN or otherwise) deemed representative of park waters, precipitation records from a nearby meteorological station were obtained from the National Climatic Data Center. Plotting daily average precipitation and box-and-whiskers of monthly precipitation sums allowed WRD hydrologists to make a rough approximation of climatic seasons for use in analyzing the water quality data.

Again, it is important to note the many ways of defining "seasons" and thus the limitations of the seasonal analysis contained in this document. For certain parks it may be more useful to perform a seasonal analysis with seasons defined by recreational use patterns or some other natural or anthropogenic factor. This option is available to the park since all the water quality data analyzed in this document is contained on disk(s) accompanying this report. Digital, reproducible copies of this seasonal analysis graphic are also included on the disk(s) accompanying this report.

Contacts for Agency Codes Retrieved

This table provides a list of the organizations who have entered data into STORET. A contact name at the organization and a phone number are also supplied. The agency code in the first column is the key for identifying which stations belong to that agency. This code will appear in the first line of each station's inventory. Although the agencies listed in this table are potential partners for future water quality monitoring or management endeavors, don't be surprised if the name of the contact and/or the telephone number is out of date. This information is entered when an agency first creates a station. The agency may not update this information when the initial contact moves on or the telephone number changes. Nonetheless, it is likely that the contact or someone else at the agency may be able to provide you with project reports or other information relative to the agency's data. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Quantity of Data Retrieved by Agency Code

This table displays the period-of-record; numbers of water quality stations, longer-term stations, and stations without data; total number of water quality observations; and the number of unique water quality parameters measured by each agency within the study area and park boundary. Using this table, a park can quickly determine which agencies collect the most data in and around the park and whether they have monitored recently. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station Period of Record Tabulation

The Station Period of Record Tabulation provides a quick overview of the names of all the stations within the study area where water quality has been monitored and data entered into STORET. It also furnishes the total number of observations taken at each station and the frequency of observations between certain dates: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75. The station identification number, the four character park abbreviation code followed by a four digit number, provides the means to jump from a particular station in the table to the statistical and graphical analyses for this station contained in the Station-By-Station Results section. The Station Period of Record Tabulation reveals which water

quality stations were situated within the park as defined by the park's GIS boundary. The Station Period of Record Tabulation also footnotes longer-term water quality stations. Longer-term stations are those that have at least 6 parameters with an average of one or more observations per year for those parameters during a period of record extending at least two years. Note that although a station may not be flagged as longer-term, it can still harbor much important data (albeit for only a few parameters or over a very long term with just a few observations). A digital copy of this table accompanies this report on disk (See Appendices A and B).

Parameter Period of Record Tabulation

The Parameter Period of Record Tabulation provides a complete listing of every water quality parameter ever measured in the study area and entered into STORET. This table is a summation of all the water quality observations for each parameter across all stations in the study area. Like the Station Period of Record Tabulation, the total number of observations for each parameter and the frequency of observations between: (1) 01/01/85 until the most recent date data were measured; (2) 01/01/75 - 12/31/84; and (3) prior to 01/01/75 are provided. This table is handy for quickly assessing whether particular parameters have been measured in the study area. The Parameter Period of Record Tabulation also shows how many in-park (and total) water quality stations contained data for each parameter. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station/Parameter Period of Record Tabulation

The Station/Parameter Period of Record Tabulation combines the information found in the Station Period of Record Tabulation and the Parameter Period of Record Tabulation. This table provides a listing of all the stations where a particular water quality parameter was measured in the study area and the data entered into STORET. The table provides the start and end dates of the period of record of each parameter at each station; the number of years of measurement (computed from the start and end dates); whether the station/parameter combination occurred within the park boundary; the total number of observations for each parameter at each station, and whether a time series (T), annual (A), and/or seasonal (S) plot was generated for the station/parameter combination in the Station-By-Station Results section. This table is very useful when you need to determine at which locations within the study area (or park) particular parameters were monitored and how much data was collected there. Some administrative parameters and parameters not suitable for statistical analysis within the context of this project (as discussed in the Screening Methodologies and Procedures section of the Methodology chapter) are listed in the Station/Parameter Period of Record Tabulation, but not in the Station-By-Station Results section. A digital copy of this table accompanies this report on disk (See Appendices A and B).

Station-By-Station Results

Probably the most voluminous portion of the document is the Station-By-Station Results. Here the results of the water quality analyses for each station are presented in sequence. The results include the station inventory; parameter inventory; EPA water quality criteria analysis; and, as applicable, time series graphics and annual and seasonal tables and box-and-whiskers graphics. Each of these products are discussed below.

Station Inventory for Station

Each station's data commences with its Station Inventory. The Station Inventory provides the descriptive attributes about each water quality monitoring station contained in STORET. This includes a variety of locational information such as a verbal description, the Federal Information Processing codes for county and state, latitude and longitude, and other items; the station type (stream, spring, estuary, etc.); monitoring agency; creation date; indices to the River Reach File; whether the station lies within the park boundary; and several other attributes. This water quality station location data is also contained on disk(s) accompanying the report (See Appendices A and B).

Parameter Inventory for Station

Following the descriptive attributes about a station is the Parameter Inventory for the station. The Parameter Inventory provides a complete inventory and descriptive summary of all the water quality parameter data for the station. This table furnishes the parameter STORET code and name; the period of record for this parameter at this station; and the descriptive statistics defined in the Statistical Definitions in the previous chapter. Three different footnotes can appear on a parameter's descriptive statistics. Two asterisks (**) in the 10th, 25th, 75th, or 90th percentile columns indicates that there was insufficient data to compute these statistics for this parameter. Percentiles were not computed unless the parameter had at least 9 observations. Two number signs (##) next to the number of observations indicates that more than 50 percent of the observations entered into the computations as values that were taken to be half the detection limit. Caution should be employed in interpreting and using statistical results when more than half the values are set to half the detection limit. The letter "p" following a numeric STORET parameter code in the Parameter Inventory indicates that a time series plot was produced for this parameter at this station. Digital, reproducible copies of the Parameter Inventory tables are contained on the disk(s) accompanying this report.

Two downloaded parameter groups, pH and bacteriological, received special treatment whenever descriptive statistics were computed in the Parameter Inventory (as well as subsequent annual and seasonal tables). Whenever pH appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original pH entry; (2) pH computed from conversion to and from $\mu eq/l\ H^+$; and (3) $\mu eq/l\ H^+$. The reason for these conversions is that pH is actually the negative logarithm of the hydrogen ion concentration. To be technically correct in computing descriptive statistics, pH values must be converted to $\mu eq/l\ H^+$ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as $\mu eq/l\ H^+$, the results can be converted back to pH. The three pH entries in the descriptive statistics table will all have the same STORET code.

Whenever a bacteriological parameter appears in a descriptive statistics table, the entry is increased to 3 entries: (1) the original bacteriological entry; (2) an entry computed using the log of each measured value; and (3) an entry that simply reports the geometric mean. The reason for converting to logs and displaying the geometric mean is convention. Bacteriological water quality standards typically reference the geometric mean rather than the arithmetic. The three bacteriological entries in the descriptive statistics tables will all have the same STORET code.

EPA Water Quality Criteria Analysis for Station

The EPA Water Quality Criteria Analysis table follows the Parameter Inventory. This table presents a comparison between the station's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. In most cases, the EPA water quality criteria values are single sample concentrations that can be directly compared to single sample STORET entries. There are, however, two notable exceptions to this single sample/single value comparison: ammonia and fecal-indicator bacteria. For these two parameters, criteria are either derived from or depend on the results of other chemical characteristics of the water or require a time series statistical treatment of multiple samples to determine whether the criterion has been exceeded. The EPA ammonia criterion is pH and temperature dependent. To calculate the criterion for each ammonia sample value was beyond

the scope of this project. Consequently, ammonia criteria were not included in Appendix F or the EPA Water Quality Criteria Analyses. Un-ionized ammonia criteria can be determined from formula table values included in the EPA Silver Book (Environmental Protection Agency 1995).

For the purposes of this project, fecal-indicator bacteria data were flagged as exceeding criteria when their concentrations exceeded 200, 1000, 126, and 33 (fresh)/35 (salt) colony forming units or most probable number for single samples of fecal coliform, total coliform, E. coli, and enterococci, respectively. These values represent only approximations of the criteria for primary contact recreation waters where criteria are typically expressed in terms of a geometric mean computed with no less than 5 samples during a given month. When a fecal-indicator bacterial observation exceeds a criterion in the EPA Water Quality Criteria Analysis section, the reader should refer to the corresponding geometric mean calculations in the preceding Parameter Inventory. Long-term geometric means that exceed the respective water quality criteria for multiple samples are more indicative of chronic bacteriological problems than single sample values.

Water quality observations carrying non-detection or below-detection limit remark codes (K, T, and U) required special treatment in the EPA Water Quality Criteria Analysis. As with the statistics in the Parameter Inventory, half the detection limit was the value used in the EPA Water Quality Criteria Analysis. For certain observations, however, half the detection limit may exceed a water quality criterion. For those observations it would be inappropriate to classify them as exceeding a criterion since the actual value wasn't known. Thus, it was decided that any below detection limit or non-detect observations that exceed a water quality criterion using half the detection value would be excluded from the EPA Water Quality Criteria Analysis. If non-detect or below detection limit values are excluded from the EPA Water Quality Criteria Analysis for a particular parameter, the total observations for that parameter will be footnoted with an ampersand (&). This will also explain the difference between the total observations in the Parameter Inventory and the EPA Water Quality Criteria Analysis. Non-detect or below detection limit values are included in the EPA Water Quality Criteria Analysis, however, if half the detection limit doesn't exceed the parameter's criterion.

The EPA Water Quality Criteria Analysis for each station lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis table is a good starting point for assessing potential water quality problems at the station, the reader is strongly encouraged to read the caveat section in the Introduction concerning drawing conclusions about water quality problems from this table. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Time Series Plots for Station

Following the EPA Water Quality Criteria analysis will be any Time Series Plots for each parameter that met the time series plot screening criterion selected for the park unit. If a time series plot is generated for a particular parameter at a station, a "p" will appear next to the STORET parameter code in the Parameter Inventory. If no time series plots are present for the particular station, the data did not meet the time series screening criterion listed in the Overview section of the Water Quality Results chapter. The x-axis on these plots is the period of record, listing only the 2-digit calendar year for clarity (i.e. 1983 is presented as 83). The y-axis is the concentration of the selected parameter in its measurement units. In general, the units for a given parameter are given either on the y-axis or in the parameter description in the subtitle of the graph. Subtitle and/or y-axis parameter descriptions may be truncated on the plots so as to not exceed the maximum number of plotting characters. Y-axis values less than zero are sometimes shown for better representation of the entire plot. The station identification code, parameter description, and parameter STORET code are presented in the main title. The footnote provides a descriptive location name. Observations on the plot are represented as squares. Lines are drawn connecting each successive observation. As mentioned previously in the Statistical Definitions section of the Methodology chapter, the interconnecting line is drawn only for ease of reading and provides no indication of what the actual parameter

values were between the two observed measurements. Digital, reproducible copies of all time series plots accompany the report on disk (See Appendices A and B).

For time series plots of pH, the original pH values are plotted. For time series plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a time series plot for bacteriological parameters is log-linear.

Annual Analysis for Station

If more than 9 observations exist in each of at least 4 years for a particular parameter at a station, an Annual Analysis table will be generated. Entries will be made in the table for each parameter having more than 9 observations in each of at least 4 years. The Annual Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by year, rather than the entire period of record. Although some of the years may not contain 9 observations, these years still have an entry in the table. A parameter needs only to have 9 observations in any 4 years of its period of record to qualify for the Annual Analysis table. Like the Parameter Inventory, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Annual Analysis table that also meet the annual analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Annual Box-and-Whiskers Plots for Station

Entries in the Annual Analysis table that meet the annual box-and-whisker plot screening criterion will generate Annual Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each year of the period of record, even if less than 9 observations were recorded in the year. The axis labeling and plot titling is the same as for the time series plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For annual box-and-whiskers plots of pH, μeq/l H^+ are plotted. For annual box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of an annual box-and-whiskers plot for bacteriological parameters is log-linear.

Seasonal Analysis for Station

As explained above, a park's hydrologic seasons for seasonal water quality analysis were determined using a process of hydrograph separation and other techniques. If a parameter has more than 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years, a Seasonal Analysis table will be generated for the station. The Seasonal Analysis presents the same descriptive statistics as the Parameter Inventory table, except that it provides the statistics by season, rather than the entire period of record. Although certain parameters for a season at a station may not contain 9 observations, these parameters can still have an entry in the table. A parameter needs only to have 9 observations in each of 2 seasons with a period of record of at least 6 years and observations in at least 3 of the 6 years to qualify for the Seasonal Analysis table. Consequently, some of the parameters could have fewer than 9 observations in a particular season but still generate a table entry. Like the Parameter Inventory and Annual Analysis, percentiles with fewer than 9 observations are not computed and entries computed with greater than 50 percent of the data values set to half the detection limit are flagged. Entries in the Seasonal Analysis table that also meet the seasonal analysis box-and-whisker plot screening criterion will be flagged with a "p" next to the STORET code. Digital, reproducible copies of these tables accompany the report on disk (See Appendices A and B).

Seasonal Box-and-Whiskers Plots for Station

Entries in the Seasonal Analysis table that meet the seasonal box-and-whisker plot screening criterion will generate Seasonal Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each season of the period of record, even if less than 9 observations were recorded in the season. On the x-axis, the seasons are labeled 1 through the number of seasons defined for the park through hydrograph separation. The actual calendar dates that correspond to these numerically labeled seasons exist in the Overview section and the Seasonal Analysis tables in the Water Quality Results chapter. The axis labeling and plot titling are the same as for the time series and annual box-and-whiskers plots. Digital, reproducible copies of these graphics accompany the report on disk (See Appendices A and B).

For seasonal box-and-whiskers plots of pH, μeq/l H^+ are plotted. For seasonal box-and-whiskers plots of bacteriological data, the log of the measured value is plotted. Hence, the y-axis of a seasonal box-and-whiskers plot for bacteriological parameters is log-linear.

EPA Water Quality Criteria Analysis for Entire Park Study Area

This table essentially summarizes all the individual station-by-station EPA water quality criteria analyses in the study area. (Refer to the EPA Water Quality Criteria Analysis for Station section above for more detailed information on the treatment of special cases in the EPA Water Quality Criteria Analysis for Entire Park Study Area.) This table presents a comparison between the study area's STORET water quality data and applicable national water quality criteria for freshwater and marine aquatic organisms; drinking water; and other concerns. Comparison against applicable State water quality criteria was not feasible given project resources. Appendix F provides the relevant national EPA water quality criteria values. The EPA Water Quality Criteria Analysis for the Entire Park Study Area lists the parameter; the standard type and value; the total number of observations for the parameter at this station; the number of observations that exceeded the standard value; and the proportion of observations that exceeded the standard value. Water quality observations are considered as having exceeded a criterion regardless of whether the criterion represents a maximum acceptable value or a minimum acceptable value. The table also breaks down the water quality criteria analysis on a seasonal basis to allow the reader to discern whether parameter observations tend to exceed criteria during only certain seasons or year round. Although the EPA Water Quality Criteria Analysis for the Entire Park Study Area is a good starting point for assessing potential water quality problems at the park, the reader is strongly encouraged to read the caveat section in the Introduction before drawing conclusions about water quality problems from this table. A digital, reproducible copy of this table accompanies the report on disk (See Appendices A and B).

NPS Servicewide Inventory and Monitoring Program
Level I Water Quality Inventory Data Evaluation and Analysis (IDEA)

One of the objectives of this Baseline Water Quality Data Inventory and Analysis project is to perform an IDEA - an Inventory Data Evaluation and Analysis - to determine the presence and/or absence of Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in the park's study area. The Strategic Plan for Conducting Baseline Natural Resource Inventories in the National Park Service (National Park Service 1993) identified the basic water quality parameters displayed in Table I as the parameters that all parks must have for "key" waterbodies (determined on the basis of size, uniqueness, threats, etc.) within park boundaries. Since these parameters can be measured in different ways and with different units, there are multiple STORET codes associated with each parameter; hence the concept of parameter groups. The Strategic Plan distinguishes between those parameter groups required for all parks and parameter groups required only on a case-by-case basis.

The IDEA basically compares the parameters listed in the Parameter Period of Record Tabulation and Station/Parameter Period of Record Tabulation with the "Level I" Servicewide Inventory and Monitoring water quality parameter groups, listed in Table I and in Appendix G, and notes, not only the presence or absence of each parameter group, but the total number of observations for each parameter present in the group; the number of

observations between certain time periods; and the total number of stations within the study area at which the parameter was measured. The total number of different (unique) stations measuring parameters for the group is in parentheses on each parameter group's summary line.

The first page of the IDEA lists the missing Servicewide Inventory and Monitoring Program "Level I" groups. If a parameter group appears on this list, no data for any of the parameters defining the group (See Appendix G) was retrieved for it within the study area. So-called non-priority parameter groups may appear in the missing list. Non-priority parameters are park-specific parameters (case-by-case) which may not be applicable to your park. Consequently, if you believe a particular parameter, not included in IDEA (See Appendix G), to be important for your park, you will have to consult the Parameter and Station/Parameter Period of Record Tabulations to determine the presence or absence of this parameter for the park. Although considered a "Level I" parameter, biological data, obtained through rapid bioassessment or other means, is not considered in this report which deals specifically with surface water chemistry. Following the Missing Level I Group list is the Present Level I Group list which displays the summary results for each Servicewide Inventory and Monitoring "Level I" water quality parameter group that was found.

Table I. Basic "Level I" Water Quality Parameters Identified as Required and Optional By the Servicewide Inventory and Monitoring Program for "Key" Park Waterbodies

Required Parameter Groups:
(1) Alkalinity
(2) pH
(3) Conductivity
(4) Dissolved Oxygen
(5) Rapid Bioassessment Baseline (EPA/State protocols, involving fish and macroinvertebrates)
(6) Temperature
(7) Flow

Case-By-Case Parameters Groups:
(8) Toxic Elements
(9) Clarity/Turbidity
(10) Nitrate/Nitrogen
(11) Phosphate/Phosphorus
(12) Chlorophyll
(13) Sulfates
(14) Bacteria

The last page of the IDEA summarizes the information from the Missing and Present Level I Group lists. This page provides information on the temporal and spatial distributions of the data. Included in this table are the total number of observations for each parameter group; the number of observations since January 1, 1985; the percent of the total observations since January 1, 1985; the number of stations measuring each parameter group; the percent of the total number of stations with data measuring the parameter group; the number of observations per station with data; the period-of-record for this parameter group; and the average number of observations per year of the period-of-record.

In interpreting the results of the IDEA, the reader should first consult the Missing Level I Group list. For the parameter groups listed, there was no baseline water quality data within the study area entered in STORET. Consequently, these parameter groups could be a higher priority for data collection. It is important, however, to realize that data within these parameter groups may have been already collected but not entered into STORET. The resources for this project did not enable us to pursue thorough literature and file cabinet reviews to dredge up

every last iota of data. If data exists for certain Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups in a park's file cabinet, it is the park's responsibility to factor that data into their IDEA. Consequently, the listing of a parameter group on the Missing "Level I" Group list is not a WRD endorsement to launch a study to collect these data. The IDEA is intended to simply note that no data exist for these parameter groups in STORET for the park. It is the park's responsibility to ascertain whether such data has already been collected by the park or other entities before embarking on a new study. In fact, in the future the WRD will require that any park study plan proposing to collect baseline water quality data show that they have consulted their Baseline Water Quality Data Inventory and Analysis report and searched in other locations (file cabinets, published literature, etc.) for the data they propose to collect. A similar interpretation springs from the Present "Level I" Group list. Insufficient data density in certain time periods for particular parameter groups is not necessarily cause for launching a new inventory and/or monitoring program. The park should still consult with other potential sources of data. Again, the IDEA is designed to provide only a quick check on data in STORET for the Servicewide Inventory and Monitoring Program "Level I" water quality parameter groups.

Water Quality Observations Outside STORET Edit Criteria for Park

STORET data entered after November 1983 were subjected to rudimentary edit/bounds checking for 190 common parameters (See the STORET Edit Criteria in Appendix C). None of the data entered into STORET prior to that time has been subjected to edit/bounds checking. Moreover, to maintain exact comparability with USGS WATSTORE data, WATSTORE data entered into STORET has never been subjected to the EPA edit/bounds checking. During the pilot test phase of this project, obviously incorrect data was identified from both USGS and other agency data in STORET. As a consequence, all data downloaded from STORET was filtered through the STORET edit criteria to identify parameter observation values that fall outside any edit criterion ranges. This section documents the station name, parameter, date, time, parameter value, agency, and STORET station name of every observation that fell outside the range of an edit criterion. Not all data falling outside an edit criterion are necessarily incorrect. Such data may represent unique or special conditions. Consequently, every observation falling outside a STORET edit criterion was scrutinized to determine, in our best professional judgement, whether the value was in the realm of possibility or obviously incorrect. Water quality observations that appeared to be obviously incorrect are marked with an "X" in the Disposition column of this table. These values were not retrieved or included in any of the inventory tables or graphs. Water quality values outside a STORET edit criterion but within the realm of possibility were retained and included in inventory tables and graphs. The Water Quality Observations Outside STORET Edit Criteria for Park table documents all values that were outside an edit criterion range. This documentation is also necessitated by the fact that agencies can override the STORET edit criteria for individual observations. Although the edit criteria eliminate some potentially "bad" data from the report, the probability of other incorrect data, for both the 190 parameters that are edit/bound checked and all the other STORET parameters that aren't error checked, is high. Readers should consult the Caveat section in the Introduction for guidelines on the use and interpretation of STORET data. The responsibility for correcting these observations rests with the collecting agency.

WATER QUALITY RESULTS

OVERVIEW FOR FONE

Study Area Boundary Description

The study area includes the park and all areas within at least 3 miles upstream of the park unit boundary and at least 1 mile downstream.

	Study Area	Park
GIS Estimated Acreage:	64626	942
# STORET Stations:	47	1
# Stations With No Data:	0	0
# Stations With No Stat. Analysis:	0	0
# Longer Term Stations:	11	0
Date of STORET Retrieval:	06/25/97	06/25/97
Period of Record:	10/15/26-06/28/94	08/21/77-08/21/77
# Parameters Measured:	182	12
# Water Quality Observations:	22245	12
# Industrial/Municipal Facilities:	8	0
# Drinking Water Intakes:	2	0
# Water Gages:	6	1
# Water Impoundments:	5	0
# Total Plots:	133	0
# Time Series:	35	0
# Annual:	51	0
# Seasonal:	47	0

Hydrologic Definition of Seasons:

1. July 1 - October 31
2. November 1 - March 14
3. March 15 - June 30

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 12 years and at least 56 observations.

Annual Analysis Criteria:

To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 8 years.

To be included in the annual analysis tables, a station/parameter combination must have at least 9 observations in each of at least 4 years.

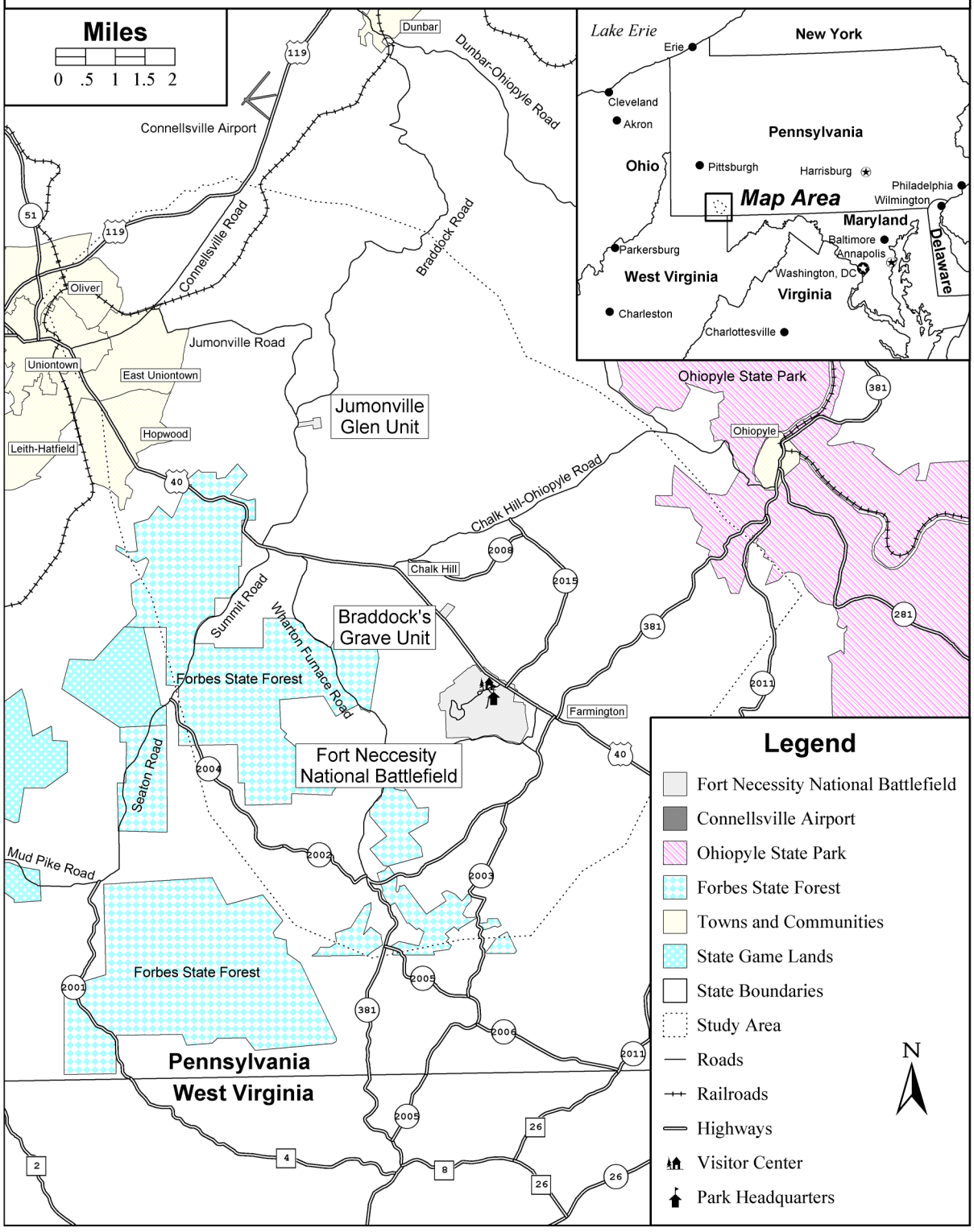
Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 12 years and observations in at least 4 of the 12 years.

To be included in the seasonal analysis tables, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 6 years and observations in at least 3 of the 6 years.

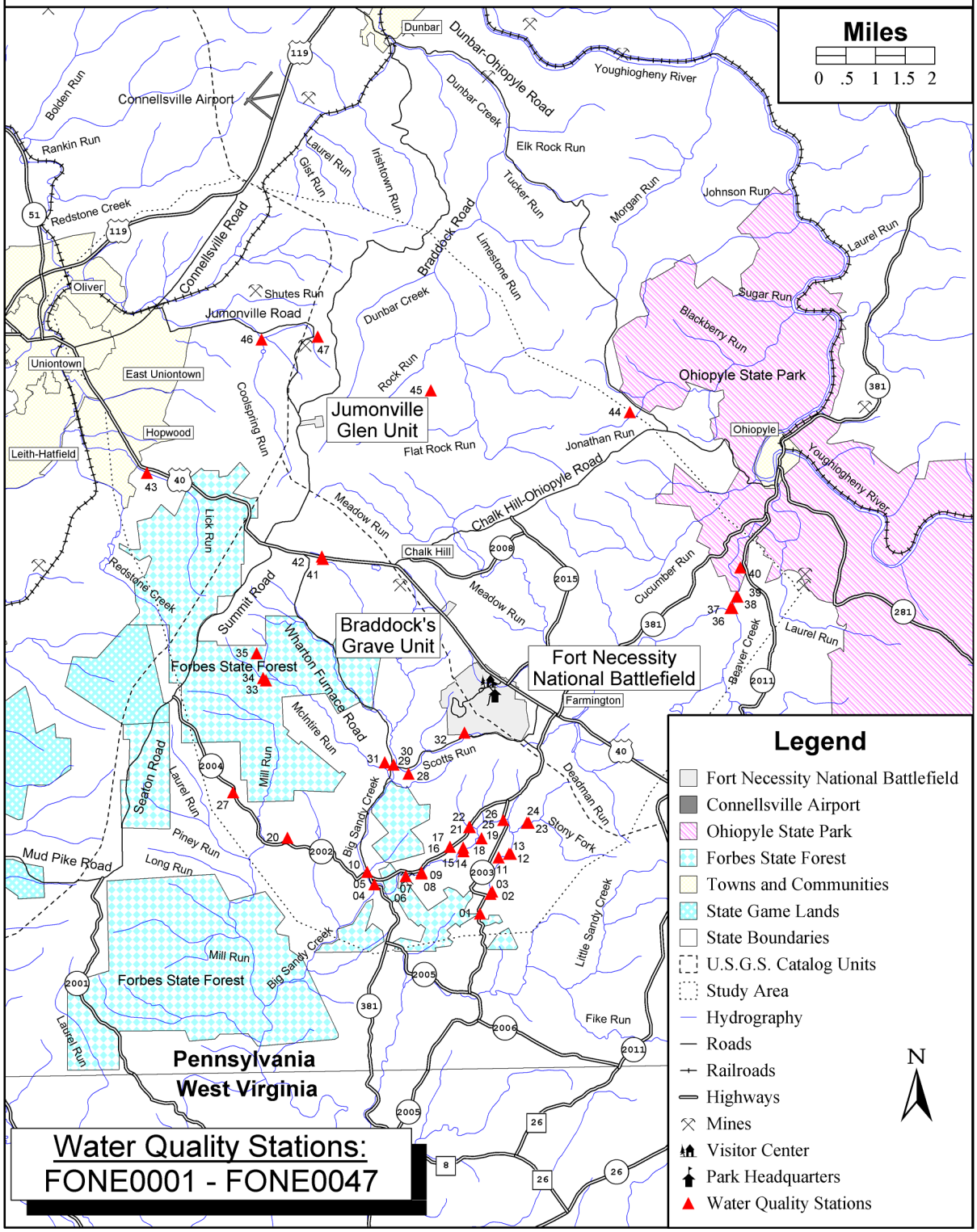
Fort Necessity National Battlefield

Regional Location Map



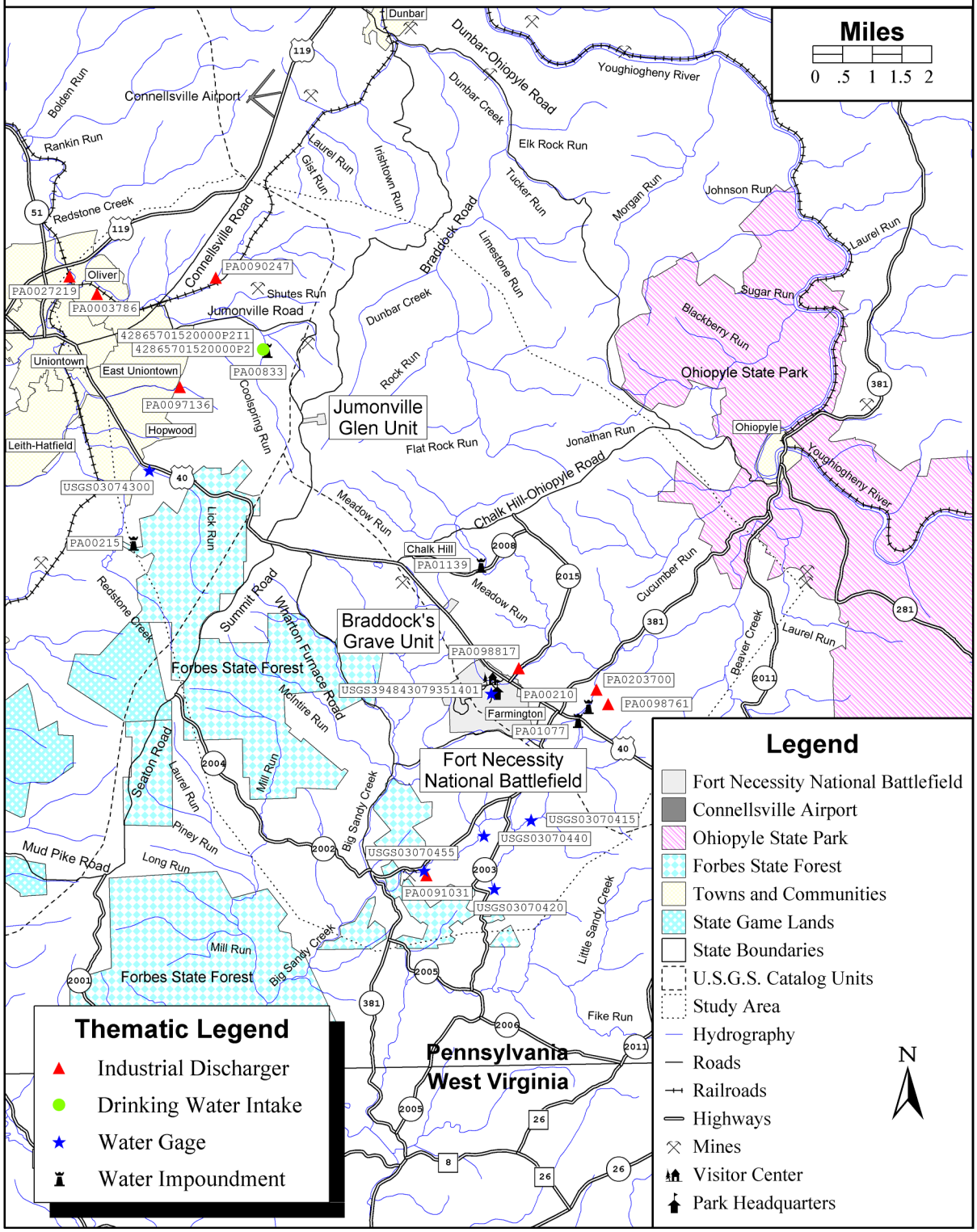
Fort Necessity National Battlefield

Water Quality Monitoring Stations



Fort Necessity National Battlefield

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the FONE Study Area

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
PA0003786	ROCKWELL MFG COMPANY UNIONTOWN	PO BOX 487	UNIONTOWN	COVE RUN
PA0027219	UNIONTOWN CITY	BUREAU OF SEWAGE	UNIONTOWN,	REDSTONE CREEK, LICK RUN
PA0090247	NORTH UNION TWP MUN SERVICES A	.....	NORTH UNION TWP	COVE RN
PA0091031	TARGET INDUSTRIES INC	.....	FAYETTE CITY	STONY FORK C
PA0097136	LAUREL LAND DEVELOPMENT	HOPWOOD VILLAGE MOBIL	HOPWOOD	REDSTONE CREEK
PA0098761	N. W. L., INC.	P. O. BOX 188	FARMINGTON	UT OF DEADMAN RUN
PA0098817	HICKORY LAND CORPORATION APART	R.D. #2, BOX 425	FARMINGTON	UT TO MEADOW RUN
PA0203700	HUTTERIAN BRETHRAN	ROUTE 40 NEW MEADOW RUN	FARMINGTON	DEADMAN RUN

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)
42865701520000P2	COOL SPRING TRT PLT	UNIONTOWN	31489	6000.00
42865701520000P2I1	COOL SPRING RUN	UNIONTOWN	31489	6000.00

Water Gages

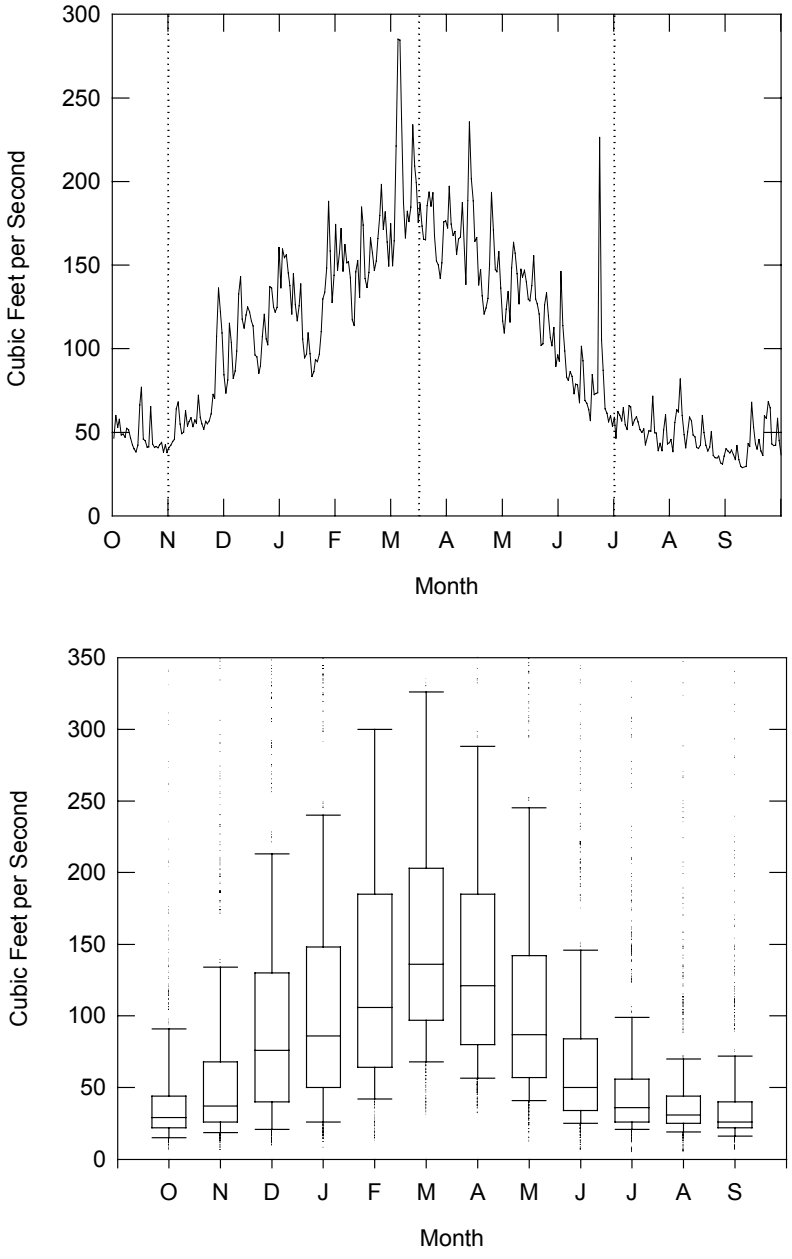
Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS03074300	LICK RUN AT HOPWOOD, PA.	Stream	380.00	1967	1979
USGS03070415	STONY FORK NEAR FARMINGTON, PA	Stream	2.50	1980	1982
USGS03070420	STONY FORK TRIB NR GIBBON GLADE, PA (67)	Stream	0.93	1977	1994
USGS03070440	HAGER MINE DISCHARGE NR BAUER ESTATE,PA	Spring			
USGS03070455	STONY FORK NEAR ELLIOTTSVILLE, PA (51)	Stream	7.44	1977	1985
USGS394843079351401	17	Well			

Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
PA00210	LAKE GEORGE DAM	ROCKWELL ESTATE	Rec.	Earth	Significant	1922
PA00215	HUTCHINSON RESERVOIR DAM NO 2	WESTERN PA WATER CO	Supply	Earth	High	1903
PA00833	COOL SPRING DAM # 2	UNIONTOWN WATER CO.	Supply	Earth	Low	1914
PA01077	OAK LAKE DAM	SOCIETY OF BROTHERS	Supply	Earth	Significant	1905
PA01139	DEER LAKE DAM	DEER LAKE IMPROV ASSOC	Rec.	Earth	Significant	1906

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

FORT NECESSITY NATIONAL BATTLEFIELD
Redstone Creek at Waltersburg, PA
03074500, 45 year record



Representative mean annual hydrograph (top) and distribution of daily flows by month (bottom) for hydrologic season determination. Box and whiskers represent a five number summary; bottom whisker cap is 10th percentile, bottom of box is 25th percentile, internal line is median, top of box is 75th percentile, and top whisker is 90th percentile. Hydrologic seasons for Fort Necessity National Battlefield are: Jul. 1 to Oct. 31, Nov. 1 to Mar. 14, and Mar. 15 to Jun. 30.

CONTACTS FOR AGENCY CODES RETRIEVED FOR FONE

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
112WRD	WILLIAMS, OWEN	US GEOLOGICAL SURVEY	(703)648-5610	
21PAMR	STORET USER ASSISTANCE	USEPA HQ	(202)260-7050	(800)424-9067
* DATA FOR 21PAMR HAS BEEN 'RETIRED' AT THE REQUEST OF STORET USER ASSISTANCE (703)883-8861 ON 03/14/86.				
21PA	SCHREFFLER, TAMMY	PENNSYLVANIA DPT ENV PROT	(717)783-3638	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518

QUANTITY OF DATA RETRIEVED FOR FONE BY AGENCY CODE

WITHIN THE ENTIRE STUDY AREA (S.A.) AND JUST WITHIN THE PARK

Agency	Organization	Period of Record		Water Quality Stations		Longer Term[!] Stations		No Data Stations		Water Quality Observations		Water Quality Parameters	
		Study Area	Park Only	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park
112WRD	US GEOLOGICAL SURVEY	10/15/26-06/28/94	No Data in Park	23	0	10	0	0	0	18876	0	119	0
21PAMR	USEPA HQ	03/16/77-09/02/77	No Data in Park	15	0	0	0	0	0	1453	0	46	0
21PA	PENNSYLVANIA DPT ENV PROT	08/09/72-11/02/87	No Data in Park	1	0	1	0	0	0	1817	0	94	0
11NPSWRD	NATIONAL PARK SERVICE	08/21/77-10/28/77	08/21/77-08/21/77	8	1	0	0	0	0	99	12	14	12
Totals		10/15/26-06/28/94	08/21/77-08/21/77	47	1	11	0	0	0	22245	12	182	12

[!]Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Station Period of Record Tabulation
From 10/15/26 To 06/28/94

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75
FONE0001	STONY FORK TRIB ABOVE STRIP MINE	No	281	281	0	0
FONE0002	STONY FORK TRIB NR GIBBON GLADE	No	122	0	122	0
FONE0003[1]	STONY FORK TRIB NR GIBBON GLADE, PA (67)	No	3577	1261	2316	0
FONE0004	STONY FORK AT MOUTH	No	119	0	119	0
FONE0005	STONY FORK AT MOUTH AT ELLIOTTSVILLE, PA (52)	No	234	0	234	0
FONE0006	DEEP MINE DISCHARGE BELOW STA 51	No	53	0	53	0
FONE0007	JONES MINE DIS. NR MOUTH OF STONY FORK, PA (I)	No	215	0	215	0
FONE0008[1]	STONY FORK NEAR ELLIOTTSVILLE, PA (51)	No	3078	772	2306	0
FONE0009	STONY FORK NEAR ELLIOTSVILLE	No	120	0	120	0
FONE0010[1]	BIG SANDY CRK-OFF RTE 381-WHARTON TWP	No	1817	334	1202	281
FONE0011	ABANDONED STRIP PIT IVAN HAGAR	No	79	0	79	0
FONE0012	STONY FORK TRIB (BELOW GRANBAY SITE), PA (68)	No	577	0	577	0
FONE0013	STONY FORK TRIB BELOW STATION 67	No	107	0	107	0
FONE0014[1]	STONY FORK AT BAUER ESTATE, PA (47)	No	746	0	746	0
FONE0015	STONY FORK AT BAUER ESTATE	No	106	0	106	0
FONE0016	STONY FORK TRIB SOUTH OF DELTA	No	59	0	59	0
FONE0017	STONY FORK TRIB #5 (S OF DELTA SITE), PA (75)	No	394	0	394	0
FONE0018	DEEP MINE DISCHARGE IVAN HAGAR	No	97	0	97	0
FONE0019[1]	HAGER MINE DISCHARGE NR BAUER ESTATE,PA	No	1671	26	1645	0
FONE0020	PAFA517R	No	12	0	12	0
FONE0021[1]	STONY FORK TRIB #4 (N OF DELTA SITE), PA (73)	No	2289	284	2005	0
FONE0022	STONY FORK TRIB NORTH OF DELTA	No	68	0	68	0
FONE0023[1]	STONY FORK NEAR FARMINGTON, PA	No	2246	303	1943	0
FONE0024	STONY FORK AT CAMP RAIMO	No	102	0	102	0
FONE0025	STONY FORK NEAR BETHEL CHAPEL	No	118	0	118	0
FONE0026[1]	STONY FORK AT BETHEL CHAPEL, PA (44)	No	2461	306	2155	0
FONE0027	PAFA524R	No	13	0	13	0
FONE0028	DEADMAN RUN HEADWATERS AB OAK LAKE	No	58	58	0	0
FONE0029	BIG SANDY CR AT WHARTON FURNACE	No	100	0	100	0
FONE0030	BIG SANDY CREEK AT ELLIOTSVILLE	No	104	0	104	0
FONE0031	PAFA515R	No	13	0	13	0
FONE0032	PAFA514R	Yes	12	0	12	0
FONE0033	DEADMAN RUN below ALANCONNIE LAKE nr FARMINGTON	No	75	75	0	0
FONE0034	MEADOW RUN AT CONFLUENCE WITH DEADMAN RUN	No	59	59	0	0
FONE0035	UN TRIB TO MEADOW RUN NE OF FARMINGTON	No	84	84	0	0
FONE0036	BEAVER CREEK @ CONFLUENCE OF MEADOW RUN	No	71	71	0	0
FONE0037	MEADOW RUN AT CONFLUENCE OF BEAVER CREEK	No	75	75	0	0
FONE0038	MEADOW RUN AT MEADOW RUN VALLEY CHURCH	No	75	75	0	0
FONE0039[1]	MEADOW RN NR FARMINGTON, PA	No	109	0	109	0
FONE0040	PAFA598R	No	12	0	12	0
FONE0041[1]	BIG SANDY CREEK NR CHALKHILL, PA (1)	No	381	0	344	37
FONE0042	BIG SANDY CREEK AT ROUTE 40	No	99	0	99	0
FONE0043[1]	LICK RUN AT HOPWOOD, PA.	No	96	0	0	96
FONE0044	PAFA635R	No	11	0	11	0
FONE0045	PAFA512R	No	12	0	12	0
FONE0046	3 905426927	No	24	0	0	24
FONE0047	PAFA528R	No	14	0	14	0

[1]Longer Term Station With At Least 6 Parameters Having An Average of 1 Or More Observations Per Year During a Period of Record Extending At Least 2 Years.

Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Parameter Code	Name	Total Obs	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	4	0	0	4	1	0
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	4	0	0	4	1	0
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	1216	167	1038	11	47	1
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	406	162	233	11	17	0
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	862	162	700	0	21	0
00049	SURFACE AREA IN SQUARE MILES	1	0	1	0	1	0
00058	FLOW, RATE GALLONS/MIN	2	0	0	2	2	0
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	1	0	0	1	1	0
00060	FLOW, STREAM, MEAN DAILY CFS	6	0	0	6	1	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	961	112	849	0	36	0
00065	STAGE, STREAM (FEET)	280	20	260	0	9	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	27	0	16	11	2	0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	23	0	23	0	1	0
00080	COLOR (PLATINUM-COBALT UNITS)	10	0	4	6	3	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	96	0	95	1	16	0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1145	173	953	19	31	1
00300	OXYGEN, DISSOLVED MG/L	85	22	59	4	17	0
00400	PH (STANDARD UNITS)	1204	162	1031	11	46	1
00403	PH, LAB, STANDARD UNITS SU	264	109	142	13	31	0
00405	CARBON DIOXIDE (MG/L AS CO2)	1	0	0	1	1	0
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1050	120	909	21	35	0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	63	0	63	0	14	0
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	53	53	0	0	6	0
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	7	0	7	0	7	1
00435	ACIDITY, TOTAL (MG/L AS CACO3)	655	0	655	0	28	0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	117	2	103	12	7	0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	463	0	451	12	28	0
00440	BICARBONATE ION (MG/L AS HCO3)	8	0	0	8	3	0
00445	CARBONATE ION (MG/L AS CO3)	6	0	0	6	3	0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	170	124	46	0	16	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	115	112	3	0	16	0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	76	12	52	12	2	0
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	1	1	0	0	1	0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	71	12	46	13	2	0
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	2	0	0	2	2	0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	71	12	46	13	2	0
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	1	1	0	0	1	0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	1	0	0	1	1	0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	75	12	50	13	2	0
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	2	1	0	1	2	0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	1	0	0	1	1	0
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	1	0	1	0	1	0
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	1	0	1	0	1	0
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	1	0	1	0	1	0
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	2	0	2	0	1	0
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	2	0	2	0	1	0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	120	12	87	21	14	0
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	8	0	0	8	3	0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	117	77	21	19	12	0
00916	CALCIUM, TOTAL (MG/L AS CA)	50	19	31	0	7	0
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	116	77	20	19	12	0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	50	19	31	0	7	0
00929	SODIUM, TOTAL (MG/L AS NA)	33	33	0	0	13	0
00930	SODIUM, DISSOLVED (MG/L AS NA)	89	77	8	4	19	1
00931	SODIUM ADSORPTION RATIO	7	0	0	7	3	0
00932	SODIUM, PERCENT	5	0	0	5	3	0
00933	SODIUM,PLUS POTASSIUM (MG/L)	2	0	0	2	2	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	79	77	0	2	10	0
00937	POTASSIUM, TOTAL MG/L AS K)	7	7	0	0	6	0
00940	CHLORIDE,TOTAL IN WATER MG/L	183	111	51	21	18	0
00941	CHLORIDE, DISSOLVED IN WATER MG/L	8	0	8	0	8	1
00945	SULFATE, TOTAL (MG/L AS SO4)	1192	174	998	20	39	0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	4	0	3	1	4	0
00951	FLUORIDE, TOTAL (MG/L AS F)	69	69	0	0	7	0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2	0	0	2	2	0
00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	3	0	0	3	1	0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	105	13	91	1	24	0
01002	ARSENIC, TOTAL (UG/L AS AS)	110	12	95	3	24	0
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	1	0	1	0	1	0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	43	0	43	0	24	0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	43	0	43	0	24	0

Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Parameter Code	Name	Total Obs	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01022	BORON, TOTAL (UG/L AS B)	8	8	0	0	6	0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	99	5	93	1	24	0
01027	CADMIUM, TOTAL (UG/L AS CD)	113	9	101	3	25	0
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	1	0	1	0	1	0
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	1	0	1	0	1	0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	124	13	111	0	25	0
01034	CHROMIUM, TOTAL (UG/L AS CR)	137	16	118	3	26	0
01035	COBALT, DISSOLVED (UG/L AS CO)	51	8	43	0	25	0
01037	COBALT, TOTAL (UG/L AS CO)	50	7	43	0	25	0
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	1	0	1	0	1	0
01040	COPPER, DISSOLVED (UG/L AS CU)	125	13	112	0	25	0
01042	COPPER, TOTAL (UG/L AS CU)	138	16	119	3	26	0
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	1	0	1	0	1	0
01044	IRON, SUSPENDED (UG/L AS FE)	5	0	5	0	1	0
01045	IRON, TOTAL (UG/L AS FE)	1228	174	1041	13	37	0
01046	IRON, DISSOLVED (UG/L AS FE)	1109	136	971	2	31	0
01049	LEAD, DISSOLVED (UG/L AS PB)	106	13	92	1	25	0
01051	LEAD, TOTAL (UG/L AS PB)	118	16	99	3	26	0
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	1	0	1	0	1	0
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	1	0	1	0	1	0
01054	MANGANESE, SUSPENDED (UG/L AS MN)	5	0	5	0	1	0
01055	MANGANESE, TOTAL (UG/L AS MN)	670	161	506	3	34	0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	609	109	499	1	35	1
01065	NICKEL, DISSOLVED (UG/L AS NI)	125	13	112	0	25	0
01067	NICKEL, TOTAL (UG/L AS NI)	138	16	119	3	26	0
01075	SILVER, DISSOLVED (UG/L AS AG)	43	0	43	0	24	0
01077	SILVER, TOTAL (UG/L AS AG)	43	0	43	0	24	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	8	8	0	0	6	0
01082	STRONTIUM, TOTAL (UG/L AS SR)	7	7	0	0	6	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	8	0	8	0	8	1
01090	ZINC, DISSOLVED (UG/L AS ZN)	607	133	473	1	26	0
01092	ZINC, TOTAL (UG/L AS ZN)	655	164	488	3	33	0
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	1	0	1	0	1	0
01105	ALUMINUM, TOTAL (UG/L AS AL)	649	164	482	3	33	0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	620	135	485	0	34	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	111	13	98	0	25	0
01147	SELENIUM, TOTAL (UG/L AS SE)	110	12	98	0	25	0
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	1	0	1	0	1	0
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	1	0	1	0	1	0
01330	ODOR, ATMOSPHERIC (SEVERITY)	7	0	7	0	1	0
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	11	0	0	11	2	0
22703	URANIUM, NATURAL, DISSOLVED	8	0	8	0	8	1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	43	12	31	0	1	0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	3	0	3	0	1	0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	1	0	1	0	1	0
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)	20	0	16	4	1	0
46014	FAMILY HIRUDIDAE, LEECHES	1	0	1	0	1	0
46015	FAMILY ASELLIDAE, AQUATIC SOW BUG	2	2	0	0	1	0
46019	FAMILY ASTACIDAE, ALL CRAYFISH	10	2	8	0	1	0
46021	FAMILY PTERONARCIDAE, STONEFLY W/ABD. GILLS	7	2	5	0	1	0
46022	FAMILY PELTOPERLIDAE, STONEFLY, ROACHLIKE	8	2	6	0	1	0
46023	FAM NEMOURIDAE, STONEFLY W/PARA & GLOSSAE EQUAL	12	2	10	0	1	0
46024	FAMILY PERLIDAE, STONEFLY W/GILLS ON THORAX	18	2	16	0	1	0
46025	FAMILY PERLODIDAE, STONEFLY W/GILLS ON SUBMENTUM	9	2	7	0	1	0
46027	FAMILY EPHEMERIDAE, MAYFLY W/ TUSKS, BURROWER	15	2	13	0	1	0
46028	FAMILY BAETIDAE, MAYFLY, HEAD NOT DEPRESSED	16	2	14	0	1	0
46029	FAMILY HEPTAGENIIDAE MAYFLY W/ DEPRESSED HEAD	18	2	16	0	1	0
46030	FAMILY CORDULEGASTERIDAE, DRAGONFLY	2	2	0	0	1	0
46031	FAMILY LIBELLULIDAE, DRAGONFLY BOTTOM SPRAWLER	2	2	0	0	1	0
46037	FAM COENAGRIONIDAE 1ST ANTENNAE SEGMENT SHORT	3	2	1	0	1	0
46041	FAMILY GERRIDAE, WATER STRIDERS	2	2	0	0	1	0
46049	FAMILY SIALIDAE, ALDERFLY	4	2	2	0	1	0
46050	FAMILY CORYDALIDAE, HELLGRAMMITES	8	2	6	0	1	0
46051	FAMILY HYDROPTILIDAE, CADDISFLY, ABDOMEN WIDE	4	2	2	0	1	0
46053	FAMILY HYDROPSYCHIDAE, CADDISFLY W/3 S PLATES	18	2	16	0	1	0
46054	FAM RHYACOPHILIDAE CADDISFLY;LS W/ DORSAL SHIELD	10	2	8	0	1	0
46055	FAMILY PHILOPOTAMIDAE, CADDISFLY LAB SOFT	9	2	7	0	1	0
46056	FAMILY PSYCHOMYIIDAE, LAB SCLEROTIZED	8	2	6	0	1	0
46061	FAMILY ODONTOCERIDAE, CADDISFLY	3	0	3	0	1	0
46063	FAMILY BRACHYCENTRIDAE, CADDISFLY PRO W/FURROW	2	1	1	0	1	0
46066	FAMILY LIMNEPHILIDAE, CADDISFLY	15	2	13	0	1	0

Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Parameter Code	Name	Total Obs	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
46068	FAMILY GYRINIDAE, WHIRLYGIG BEETLES	1	0	1	0	1	0
46071	FAMILY PSEPHENIDAE, WATER PENNY BEETLES	15	2	13	0	1	0
46075	FAMILY ELMIDAE, BEETLE	7	2	5	0	1	0
46078	FAMILY TIPULIDAE, CRANE FLY	16	2	14	0	1	0
46083	FAMILY CERATOPOGONIDAE, BITING MIDGES	9	2	7	0	1	0
46084	FAMILY SIMULIIDAE, BLACK FLIES	7	2	5	0	1	0
46085	FAMILY EMPIDIDAE	6	2	4	0	1	0
46087	FAMILY TENDIPEDIDAE (CHIRONOMIDAE), MIDGE FLIES	17	2	15	0	1	0
46089	FAMILY RHAGIONIDAE, SNIPE FLIES	17	2	15	0	1	0
46090	FAMILY TABANIDAE, HORSEFLIES	1	0	1	0	1	0
46104	FAMILY SPHAERIIDAE,FINGERNAIL CLAMS	1	1	0	0	1	0
46106	CLASS OLIGOCHAETA, AQUATIC EARTH WORMS	4	2	2	0	1	0
46120	NITROGEN DIOXIDE, CHEMILUMINESCENT (PPM)	4	2	2	0	1	0
46124	FAMILY TAENIOPTERGIDAE STONEFLY NO/FT2	3	2	1	0	1	0
46126	FAMILY LEUCTRIDAE, STONEFLY NO/FT2	6	0	6	0	1	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	7	0	4	3	4	0
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	2	0	0	2	2	0
70302	SOLIDS, DISSOLVED-TONS PER DAY	5	0	4	1	2	0
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	6	0	4	2	3	0
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	143	112	31	0	15	0
71825	ACIDITY, TOTAL (MG/L AS H)	205	50	155	0	7	0
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	7	0	0	7	3	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	116	13	103	0	25	0
71900	MERCURY, TOTAL (UG/L AS HG)	122	12	107	3	26	0
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	1	0	1	0	1	0
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	1	0	0	1	1	0
72016	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT BELOW LSD)	1	0	0	1	1	0
72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	2	0	0	2	2	0
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	796	55	741	0	29	0
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	448	0	448	0	11	0
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	7	7	0	0	7	0
82031	COAL IN BOTTOM MATERIAL DRY WEIGHT GRAMS/KG	1	0	1	0	1	0
82037	MAGNESIUM - DISSOLVED UG/L (AS MG)	2	0	2	0	2	0
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	20	12	8	0	1	0
82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	7	0	7	0	7	1
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	8	0	8	0	8	1
82398	SAMPLING METHOD (CODES)	1	0	1	0	1	0
82550	OSMOTIC PRESSURE,TOTAL,UNF WHL WTR,MILLIOSMOLES/KG	15	4	11	0	1	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11	11	0	0	6	0
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11	11	0	0	6	0

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0010	No	00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	10/24/72-04/29/74	1	4	
FONE0010	No	00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)	10/24/72-04/29/74	1	4	
FONE0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/29/87-09/21/88	0	10	
FONE0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	0	7	
FONE0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	17	180	
FONE0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/01/77	0	7	
FONE0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/06/78	1	15	
FONE0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/77-09/01/77	0	5	
FONE0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/77-09/06/78	1	16	
FONE0008	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	17	160	
FONE0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	0	7	
FONE0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/72-11/02/87	15	41	
FONE0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/77	0	5	
FONE0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/15/78	1	47	
FONE0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	0	7	
FONE0014	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-04/03/79	2	56	
FONE0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	0	7	
FONE0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/02/77	0	5	
FONE0017	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-11/09/78	1	31	
FONE0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/01/77	0	7	
FONE0019	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	11	110	
FONE0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/77-08/21/77	0	1	
FONE0021	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	11	130	
FONE0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/02/77	0	6	
FONE0023	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	11	118	
FONE0024	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/02/77	0	6	
FONE0025	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	0	7	
FONE0026	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	11	142	
FONE0027	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/77-08/22/77	0	1	
FONE0028	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/08/87-06/09/88	0	3	
FONE0029	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/29/77-09/01/77	0	6	
FONE0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/01/77	0	7	
FONE0031	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/77-08/21/77	0	1	
FONE0032	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/77-08/21/77	0	1	
FONE0033	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-08/16/88	0	4	
FONE0034	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-06/09/88	0	3	
FONE0035	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/08/87-08/16/88	0	4	
FONE0036	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-08/15/88	0	4	
FONE0037	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-08/15/88	0	4	
FONE0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-08/15/88	0	4	
FONE0039	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/79-08/12/81	2	5	
FONE0040	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/25/77-10/25/77	0	1	
FONE0041	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/75-06/06/78	2	19	
FONE0042	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/29/77-09/01/77	0	6	
FONE0043	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/03/65-09/17/69	3	6	
FONE0044	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/28/77-10/28/77	0	1	
FONE0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/77-08/21/77	0	1	
FONE0046	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/26-10/15/26	0	1	
FONE0047	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/77-08/22/77	0	1	
FONE0001	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/29/87-09/21/88	0	10	
FONE0003	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/26/81-06/28/94	12	90	
FONE0008	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/26/81-06/28/94	12	70	
FONE0010	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/21/72-10/07/74	2	10	
FONE0019	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/26/81-06/21/88	6	36	
FONE0021	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/26/81-09/21/88	6	51	
FONE0023	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/26/81-09/21/88	6	52	
FONE0026	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/26/81-09/21/88	6	52	
FONE0028	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/08/87-06/09/88	0	3	
FONE0033	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/07/87-08/16/88	0	4	
FONE0034	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/07/87-06/09/88	0	3	
FONE0035	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/08/87-08/16/88	0	4	
FONE0036	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/07/87-08/15/88	0	4	
FONE0037	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/07/87-08/15/88	0	4	
FONE0038	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/07/87-08/15/88	0	4	
FONE0039	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/16/79-08/16/79	0	1	
FONE0041	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/26/71-08/27/76	5	8	
FONE0001	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/29/87-09/21/88	0	10	
FONE0003	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-06/28/94	16	158	
FONE0005	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-06/06/78	0	8	
FONE0007	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-09/06/78	0	11	
FONE0008	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-06/28/94	16	140	
FONE0012	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-09/15/78	0	28	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0014	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-04/03/79	1	35	
FONE0017	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-09/06/78	0	11	
FONE0019	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-06/21/88	10	88	
FONE0021	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-09/21/88	10	110	
FONE0023	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-09/21/88	10	105	
FONE0026	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-09/21/88	10	118	
FONE0028	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/08/87-06/09/88	0	3	
FONE0033	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/07/87-08/16/88	0	4	
FONE0034	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/07/87-06/09/88	0	3	
FONE0035	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/08/87-08/16/88	0	4	
FONE0036	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/07/87-08/15/88	0	4	
FONE0037	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/07/87-08/15/88	0	4	
FONE0038	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/07/87-08/15/88	0	4	
FONE0039	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/13/79-08/12/81	2	6	
FONE0041	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/04/77-06/06/78	0	8	
FONE0012	No	00049	SURFACE AREA IN SQUARE MILES	07/11/78-07/11/78	0	1	
FONE0041	No	00058	FLOW, RATE GALLONS/MIN	04/26/71-04/26/71	0	1	
FONE0046	No	00058	FLOW, RATE GALLONS/MIN	10/15/26-10/15/26	0	1	
FONE0046	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/15/26-10/15/26	0	1	
FONE0043	No	00060	FLOW, STREAM, MEAN DAILY CFS	11/03/65-09/17/69	3	6	
FONE0001	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/29/87-09/21/88	0	10	
FONE0002	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/02/77	0	5	
FONE0003	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	17	166	
FONE0004	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/01/77	0	5	
FONE0005	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-06/06/78	1	12	
FONE0006	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/77-08/03/77	0	3	
FONE0007	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/77-09/06/78	1	14	
FONE0008	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	17	145	
FONE0009	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/02/77	0	4	
FONE0011	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/07/77	0	1	
FONE0012	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/15/78	1	37	
FONE0013	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/02/77	0	4	
FONE0014	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/77-04/03/79	1	46	
FONE0015	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/77-08/03/77	0	3	
FONE0016	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/02/77	0	4	
FONE0017	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-11/09/78	1	23	
FONE0018	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-08/03/77	0	3	
FONE0019	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/21/88	11	70	
FONE0021	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	11	109	
FONE0022	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-08/03/77	0	3	
FONE0023	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	11	106	
FONE0024	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/02/77	0	5	
FONE0025	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-08/03/77	0	5	
FONE0026	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	11	122	
FONE0028	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/08/87-06/09/88	0	3	
FONE0029	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/29/77-09/01/77	0	6	
FONE0030	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/29/77-09/01/77	0	5	
FONE0033	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-08/16/88	0	4	
FONE0034	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-06/09/88	0	3	
FONE0035	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/08/87-08/16/88	0	4	
FONE0036	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-08/15/88	0	4	
FONE0037	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-08/15/88	0	4	
FONE0038	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-08/15/88	0	4	
FONE0039	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/13/79-08/12/81	2	5	
FONE0041	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/06/78	0	11	
FONE0042	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-08/02/77	0	3	
FONE0002	No	00065	STAGE, STREAM (FEET)	06/07/77-09/02/77	0	4	
FONE0003	No	00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	8	117	
FONE0005	No	00065	STAGE, STREAM (FEET)	10/04/77-06/06/78	0	5	
FONE0008	No	00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	8	118	
FONE0009	No	00065	STAGE, STREAM (FEET)	06/07/77-09/02/77	0	3	
FONE0010	No	00065	STAGE, STREAM (FEET)	04/20/78-04/20/78	0	1	
FONE0014	No	00065	STAGE, STREAM (FEET)	11/30/77-11/30/77	0	1	
FONE0021	No	00065	STAGE, STREAM (FEET)	10/21/80-11/05/80	0	2	
FONE0023	No	00065	STAGE, STREAM (FEET)	10/04/77-04/29/82	4	29	
FONE0010	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/21/72-11/22/77	5	22	
FONE0041	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/07/75-05/28/76	0	5	
FONE0010	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/21/78-11/03/82	4	23	
FONE0010	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/15/75-06/12/75	0	4	
FONE0041	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/26/71-04/26/71	0	1	
FONE0043	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/03/65-04/15/69	3	5	
FONE0002	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	03/16/77-09/02/77	0	7	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0004	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/01/77	0	7	
FONE0006	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/04/77-09/01/77	0	5	
FONE0009	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	0	7	
FONE0010	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/29/74-04/29/74	0	1	
FONE0011	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-06/28/77	0	5	
FONE0013	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	0	7	
FONE0015	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	0	7	
FONE0016	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/77-09/02/77	0	5	
FONE0018	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/01/77	0	7	
FONE0022	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/77-09/02/77	0	6	
FONE0024	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/77-09/02/77	0	6	
FONE0025	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	0	7	
FONE0029	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/29/77-09/01/77	0	6	
FONE0030	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/01/77	0	7	
FONE0042	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/29/77-09/01/77	0	6	
FONE0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/29/87-09/21/88	0	10	
FONE0003	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	17	180	T,A,S
FONE0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/06/78	1	15	
FONE0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/77-09/06/78	1	16	
FONE0008	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	17	161	T,A,S
FONE0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/21/72-11/02/87	15	69	T,S
FONE0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/15/78	1	45	
FONE0014	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-04/03/79	2	54	
FONE0017	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-11/09/78	1	31	
FONE0019	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	11	110	A
FONE0020	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/77-08/21/77	0	1	
FONE0021	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	11	128	A
FONE0023	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	11	120	A
FONE0026	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	11	139	A
FONE0027	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/77-08/22/77	0	1	
FONE0028	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/08/87-06/09/88	0	3	
FONE0031	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/77-08/21/77	0	1	
FONE0032	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/77-08/21/77	0	1	
FONE0033	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-08/16/88	0	4	
FONE0034	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-06/09/88	0	3	
FONE0035	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/08/87-08/16/88	0	4	
FONE0036	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-08/15/88	0	4	
FONE0037	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-08/15/88	0	4	
FONE0038	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-08/15/88	0	4	
FONE0039	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-08/12/81	2	5	
FONE0040	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/25/77-10/25/77	0	1	
FONE0041	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/71-06/06/78	7	22	
FONE0043	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/03/65-09/17/69	3	6	
FONE0044	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/28/77-10/28/77	0	1	
FONE0045	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/77-08/21/77	0	1	
FONE0047	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/77-08/22/77	0	1	
FONE0002	No	00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	0	5	
FONE0003	No	00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	0	5	
FONE0004	No	00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	0	4	
FONE0005	No	00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	0	4	
FONE0008	No	00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	0	4	
FONE0009	No	00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	0	4	
FONE0010	No	00300	OXYGEN, DISSOLVED MG/L	08/09/72-11/02/87	15	28	S
FONE0025	No	00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	0	5	
FONE0026	No	00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	0	5	
FONE0028	No	00300	OXYGEN, DISSOLVED MG/L	04/07/88-06/09/88	0	2	
FONE0033	No	00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/16/88	0	3	
FONE0034	No	00300	OXYGEN, DISSOLVED MG/L	04/07/88-06/09/88	0	2	
FONE0035	No	00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/16/88	0	2	
FONE0036	No	00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/15/88	0	2	
FONE0037	No	00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/15/88	0	2	
FONE0038	No	00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/15/88	0	2	
FONE0041	No	00300	OXYGEN, DISSOLVED MG/L	10/07/75-05/28/76	0	6	
FONE0001	No	00400	PH (STANDARD UNITS)	12/29/87-09/21/88	0	10	
FONE0002	No	00400	PH (STANDARD UNITS)	03/16/77-09/02/77	0	7	
FONE0003	No	00400	PH (STANDARD UNITS)	03/16/77-06/28/94	17	177	T,A,S
FONE0004	No	00400	PH (STANDARD UNITS)	03/16/77-09/01/77	0	7	
FONE0005	No	00400	PH (STANDARD UNITS)	03/16/77-06/06/78	1	15	
FONE0006	No	00400	PH (STANDARD UNITS)	05/04/77-09/01/77	0	4	
FONE0007	No	00400	PH (STANDARD UNITS)	05/04/77-09/06/78	1	16	
FONE0008	No	00400	PH (STANDARD UNITS)	03/16/77-06/28/94	17	158	T,A,S
FONE0009	No	00400	PH (STANDARD UNITS)	03/16/77-09/02/77	0	7	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0010	No	00400	PH (STANDARD UNITS)	08/09/72-11/02/87	15	45	S
FONE0011	No	00400	PH (STANDARD UNITS)	03/16/77-06/28/77	0	5	
FONE0012	No	00400	PH (STANDARD UNITS)	03/16/77-09/15/78	1	46	
FONE0013	No	00400	PH (STANDARD UNITS)	03/16/77-09/02/77	0	7	
FONE0014	No	00400	PH (STANDARD UNITS)	03/16/77-04/03/79	2	55	
FONE0015	No	00400	PH (STANDARD UNITS)	03/16/77-09/02/77	0	7	
FONE0016	No	00400	PH (STANDARD UNITS)	03/30/77-09/02/77	0	5	
FONE0017	No	00400	PH (STANDARD UNITS)	03/30/77-11/09/78	1	31	
FONE0018	No	00400	PH (STANDARD UNITS)	03/16/77-09/01/77	0	7	
FONE0019	No	00400	PH (STANDARD UNITS)	03/16/77-06/21/88	11	109	A
FONE0020	No	00400	PH (STANDARD UNITS)	08/21/77-08/21/77	0	1	
FONE0021	No	00400	PH (STANDARD UNITS)	03/30/77-09/21/88	11	130	A
FONE0022	No	00400	PH (STANDARD UNITS)	03/30/77-09/02/77	0	6	
FONE0023	No	00400	PH (STANDARD UNITS)	03/30/77-09/21/88	11	120	A
FONE0024	No	00400	PH (STANDARD UNITS)	03/30/77-09/02/77	0	6	
FONE0025	No	00400	PH (STANDARD UNITS)	03/16/77-09/02/77	0	7	
FONE0026	No	00400	PH (STANDARD UNITS)	03/16/77-09/21/88	11	141	A
FONE0027	No	00400	PH (STANDARD UNITS)	08/22/77-08/22/77	0	1	
FONE0028	No	00400	PH (STANDARD UNITS)	04/07/88-06/09/88	0	2	
FONE0029	No	00400	PH (STANDARD UNITS)	03/29/77-09/01/77	0	6	
FONE0030	No	00400	PH (STANDARD UNITS)	03/16/77-09/01/77	0	7	
FONE0031	No	00400	PH (STANDARD UNITS)	08/21/77-08/21/77	0	1	
FONE0032	Yes	00400	PH (STANDARD UNITS)	08/21/77-08/21/77	0	1	
FONE0033	No	00400	PH (STANDARD UNITS)	04/07/88-08/16/88	0	3	
FONE0034	No	00400	PH (STANDARD UNITS)	04/07/88-06/09/88	0	2	
FONE0035	No	00400	PH (STANDARD UNITS)	04/07/88-08/16/88	0	3	
FONE0036	No	00400	PH (STANDARD UNITS)	04/07/88-08/15/88	0	3	
FONE0037	No	00400	PH (STANDARD UNITS)	04/07/88-08/15/88	0	3	
FONE0038	No	00400	PH (STANDARD UNITS)	04/07/88-08/15/88	0	3	
FONE0039	No	00400	PH (STANDARD UNITS)	06/13/79-08/12/81	2	5	
FONE0040	No	00400	PH (STANDARD UNITS)	10/25/77-10/25/77	0	1	
FONE0041	No	00400	PH (STANDARD UNITS)	04/26/71-06/06/78	7	19	
FONE0042	No	00400	PH (STANDARD UNITS)	03/29/77-09/01/77	0	6	
FONE0043	No	00400	PH (STANDARD UNITS)	11/03/65-09/17/69	3	6	
FONE0044	No	00400	PH (STANDARD UNITS)	10/28/77-10/28/77	0	1	
FONE0045	No	00400	PH (STANDARD UNITS)	08/21/77-08/21/77	0	1	
FONE0047	No	00400	PH (STANDARD UNITS)	08/22/77-08/22/77	0	1	
FONE0001	No	00403	PH, LAB, STANDARD UNITS SU	12/29/87-09/21/88	0	10	
FONE0002	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	0	7	
FONE0003	No	00403	PH, LAB, STANDARD UNITS SU	03/27/87-06/28/94	7	40	
FONE0004	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/01/77	0	7	
FONE0006	No	00403	PH, LAB, STANDARD UNITS SU	05/04/77-09/01/77	0	5	
FONE0008	No	00403	PH, LAB, STANDARD UNITS SU	10/28/87-06/28/94	6	22	
FONE0009	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	0	7	
FONE0010	No	00403	PH, LAB, STANDARD UNITS SU	08/09/72-11/02/87	15	70	T,S
FONE0011	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-06/28/77	0	5	
FONE0013	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	0	7	
FONE0015	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	0	7	
FONE0016	No	00403	PH, LAB, STANDARD UNITS SU	03/30/77-09/02/77	0	5	
FONE0018	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/01/77	0	7	
FONE0019	No	00403	PH, LAB, STANDARD UNITS SU	06/21/88-06/21/88	0	1	
FONE0021	No	00403	PH, LAB, STANDARD UNITS SU	03/29/88-09/21/88	0	3	
FONE0022	No	00403	PH, LAB, STANDARD UNITS SU	03/30/77-09/02/77	0	6	
FONE0023	No	00403	PH, LAB, STANDARD UNITS SU	12/29/87-09/21/88	0	4	
FONE0024	No	00403	PH, LAB, STANDARD UNITS SU	03/30/77-09/02/77	0	6	
FONE0025	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	0	7	
FONE0026	No	00403	PH, LAB, STANDARD UNITS SU	12/29/87-09/21/88	0	4	
FONE0028	No	00403	PH, LAB, STANDARD UNITS SU	12/08/87-04/07/88	0	2	
FONE0029	No	00403	PH, LAB, STANDARD UNITS SU	03/29/77-09/01/77	0	6	
FONE0030	No	00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/01/77	0	7	
FONE0033	No	00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	0	2	
FONE0034	No	00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	0	2	
FONE0035	No	00403	PH, LAB, STANDARD UNITS SU	12/08/87-12/08/87	0	1	
FONE0036	No	00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	0	2	
FONE0037	No	00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	0	2	
FONE0038	No	00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	0	2	
FONE0039	No	00403	PH, LAB, STANDARD UNITS SU	03/24/81-08/12/81	0	2	
FONE0042	No	00403	PH, LAB, STANDARD UNITS SU	03/29/77-09/01/77	0	6	
FONE0041	No	00405	CARBON DIOXIDE (MG/L AS CO2)	04/26/71-04/26/71	0	1	
FONE0002	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	0	7	
FONE0003	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	17	156	T,A,S
FONE0004	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/01/77	0	7	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/06/78	1	15	
FONE0008	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	17	148	T,A,S
FONE0009	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	0	7	
FONE0010	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	15	70	T,S
FONE0011	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/77	0	5	
FONE0012	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/15/78	1	46	
FONE0013	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	0	7	
FONE0014	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-04/03/79	2	54	
FONE0015	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	0	7	
FONE0016	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/02/77	0	5	
FONE0017	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-11/09/78	1	28	
FONE0019	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/78-09/28/84	6	20	
FONE0021	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	8	124	A
FONE0022	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/02/77	0	6	
FONE0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	8	112	A
FONE0024	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/02/77	0	6	
FONE0025	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	0	7	
FONE0026	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	8	134	A
FONE0028	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/08/87-06/09/88	0	3	
FONE0029	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/29/77-09/01/77	0	6	
FONE0030	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/01/77	0	7	
FONE0033	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-08/16/88	0	4	
FONE0034	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-06/09/88	0	3	
FONE0035	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/08/87-08/16/88	0	4	
FONE0036	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-08/15/88	0	4	
FONE0037	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-08/15/88	0	4	
FONE0038	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-08/15/88	0	4	
FONE0039	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/13/79-08/12/81	2	5	
FONE0041	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/71-06/06/78	7	22	
FONE0042	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/29/77-09/01/77	0	6	
FONE0043	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/03/65-09/17/69	3	6	
FONE0046	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/15/26-10/15/26	0	1	
FONE0002	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	0	5	
FONE0004	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/01/77	0	5	
FONE0006	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/28/77-06/28/77	0	1	
FONE0009	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	0	5	
FONE0011	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/05/77-06/28/77	0	3	
FONE0013	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	0	5	
FONE0015	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	0	5	
FONE0016	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	0	4	
FONE0022	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	0	5	
FONE0024	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	0	5	
FONE0025	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	0	5	
FONE0029	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/77-09/01/77	0	5	
FONE0030	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/77-09/01/77	0	5	
FONE0042	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/77-09/01/77	0	5	
FONE0001	No	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	12/29/87-09/21/88	0	10	
FONE0003	No	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	02/27/87-09/21/88	1	21	
FONE0008	No	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	10/28/87-09/21/88	0	11	
FONE0021	No	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	03/29/88-09/21/88	0	3	
FONE0023	No	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	12/29/87-09/21/88	0	4	
FONE0026	No	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	12/29/87-09/21/88	0	4	
FONE0020	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/21/77-08/21/77	0	1	
FONE0027	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/22/77-08/22/77	0	1	
FONE0031	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/21/77-08/21/77	0	1	
FONE0032	Yes	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/21/77-08/21/77	0	1	
FONE0040	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/25/77-10/25/77	0	1	
FONE0045	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/21/77-08/21/77	0	1	
FONE0047	No	00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/22/77-08/22/77	0	1	
FONE0002	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	0	5	
FONE0003	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	5	81	
FONE0004	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/01/77	0	5	
FONE0005	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-06/06/78	1	13	
FONE0006	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/01/77	0	5	
FONE0007	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/06/78	1	16	
FONE0008	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	5	79	
FONE0009	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	0	5	
FONE0011	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/05/77-06/28/77	0	3	
FONE0012	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/15/78	1	25	
FONE0013	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	0	5	
FONE0014	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/03/79	1	33	
FONE0015	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	0	5	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0016	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	0	4	
FONE0017	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-11/09/78	1	17	
FONE0018	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-09/01/77	0	4	
FONE0019	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	5	67	
FONE0021	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	5	82	
FONE0022	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	0	5	
FONE0023	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	5	75	
FONE0024	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	0	5	
FONE0025	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	0	5	
FONE0026	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	5	82	
FONE0029	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/01/77	0	5	
FONE0030	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/01/77	0	5	
FONE0039	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/03/80-04/03/80	0	1	
FONE0041	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-06/06/78	1	13	
FONE0042	No	00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/01/77	0	5	
FONE0003	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	09/08/88-09/08/88	0	1	
FONE0006	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	05/04/77-09/01/77	0	5	
FONE0007	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	05/04/77-09/06/78	1	16	
FONE0010	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/09/72-02/09/83	10	49	
FONE0018	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	03/30/77-09/01/77	0	6	
FONE0019	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	03/30/77-06/21/88	11	33	
FONE0041	No	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	10/07/75-08/27/76	0	7	
FONE0002	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	0	5	
FONE0003	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/06/78	1	37	
FONE0004	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/01/77	0	6	
FONE0005	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-06/06/78	1	14	
FONE0006	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	05/04/77-09/01/77	0	5	
FONE0007	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	05/04/77-09/06/78	1	16	
FONE0008	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/06/78	1	42	
FONE0009	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	0	5	
FONE0010	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/09/72-11/22/77	5	26	
FONE0011	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-06/28/77	0	5	
FONE0012	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/15/78	1	37	
FONE0013	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	0	5	
FONE0014	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/15/78	1	39	
FONE0015	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	0	7	
FONE0016	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/02/77	0	4	
FONE0017	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/06/78	1	19	
FONE0018	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/01/77	0	7	
FONE0019	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/06/78	1	37	
FONE0021	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/15/78	1	31	
FONE0022	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/02/77	0	4	
FONE0023	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/06/78	1	27	
FONE0024	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/02/77	0	6	
FONE0025	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	0	6	
FONE0026	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/15/78	1	41	
FONE0029	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/29/77-09/01/77	0	4	
FONE0030	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/01/77	0	5	
FONE0041	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	10/07/75-06/06/78	2	19	
FONE0042	No	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/29/77-09/01/77	0	4	
FONE0041	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/26/71-04/26/71	0	1	
FONE0043	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/03/65-09/17/69	3	6	
FONE0046	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/15/26-10/15/26	0	1	
FONE0041	No	00445	CARBONATE ION (MG/L AS CO3)	04/26/71-04/26/71	0	1	
FONE0043	No	00445	CARBONATE ION (MG/L AS CO3)	11/03/65-09/06/68	2	4	
FONE0046	No	00445	CARBONATE ION (MG/L AS CO3)	10/15/26-10/15/26	0	1	
FONE0001	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/29/87-09/21/88	0	10	
FONE0003	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/27/87-06/28/94	7	42	
FONE0008	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/28/87-06/28/94	6	22	
FONE0010	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/15/75-11/02/87	12	53	S
FONE0019	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/88-06/21/88	0	1	
FONE0021	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	03/29/88-09/21/88	0	3	
FONE0023	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/29/87-09/21/88	0	4	
FONE0026	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/29/87-09/21/88	0	4	
FONE0028	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/08/87-06/09/88	0	3	
FONE0033	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-08/16/88	0	4	
FONE0034	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-06/09/88	0	3	
FONE0035	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/08/87-08/16/88	0	4	
FONE0036	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-08/15/88	0	4	
FONE0037	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-08/15/88	0	4	
FONE0038	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-08/15/88	0	4	
FONE0041	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/75-08/27/76	0	5	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0001	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/29/87-09/21/88	0	10	
FONE0002	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/30/77-03/30/77	0	1	
FONE0003	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/30/77-06/28/94	17	43	S
FONE0008	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/28/87-06/28/94	6	22	
FONE0010	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/25/79-10/25/79	0	1	
FONE0019	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/21/88-06/21/88	0	1	
FONE0021	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/29/88-09/21/88	0	3	
FONE0023	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/29/87-09/21/88	0	4	
FONE0026	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/29/87-09/21/88	0	4	
FONE0028	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/08/87-06/09/88	0	3	
FONE0033	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-08/16/88	0	4	
FONE0034	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-06/09/88	0	3	
FONE0035	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/08/87-08/16/88	0	4	
FONE0036	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-08/15/88	0	4	
FONE0037	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-08/15/88	0	4	
FONE0038	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-08/15/88	0	4	
FONE0010	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/21/72-11/02/87	15	69	T,S
FONE0041	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/75-08/27/76	0	7	
FONE0035	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/07/88-04/07/88	0	1	
FONE0010	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	15	67	T,S
FONE0041	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/16/76-08/27/76	0	4	
FONE0041	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/26/71-04/26/71	0	1	
FONE0046	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/15/26-10/15/26	0	1	
FONE0010	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	15	67	T,S
FONE0041	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/07/75-08/27/76	0	4	
FONE0035	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/07/88-04/07/88	0	1	
FONE0041	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/26/71-04/26/71	0	1	
FONE0010	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/09/72-11/02/87	15	69	T,S
FONE0041	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/75-08/27/76	0	6	
FONE0035	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/07/88-04/07/88	0	1	
FONE0041	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/26/71-04/26/71	0	1	
FONE0010	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/28/73-06/28/73	0	1	
FONE0039	No	00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/23/80-08/23/80	0	1	
FONE0039	No	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/23/80-08/23/80	0	1	
FONE0039	No	00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	08/23/80-08/23/80	0	1	
FONE0010	No	00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	07/16/84-10/16/84	0	2	
FONE0010	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/84-10/16/84	0	2	
FONE0002	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-06/28/77	0	4	
FONE0003	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-06/28/77	0	4	
FONE0004	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-08/03/77	0	5	
FONE0005	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-08/03/77	0	5	
FONE0008	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-08/03/77	0	5	
FONE0009	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-08/03/77	0	5	
FONE0010	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	15	67	T,S
FONE0018	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-03/30/77	0	1	
FONE0019	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-03/30/77	0	1	
FONE0025	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-06/28/77	0	4	
FONE0026	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-06/28/77	0	4	
FONE0041	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/26/71-08/27/76	5	8	
FONE0043	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/03/65-09/17/69	3	6	
FONE0046	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/15/26-10/15/26	0	1	
FONE0041	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/26/71-04/26/71	0	1	
FONE0043	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/03/65-09/17/69	3	6	
FONE0046	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/15/26-10/15/26	0	1	
FONE0001	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-09/21/88	0	10	
FONE0003	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/27/87-06/28/94	7	33	
FONE0008	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-06/28/94	6	21	
FONE0010	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/72-11/22/77	5	27	
FONE0019	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/21/88-06/21/88	0	1	
FONE0021	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/29/88-09/21/88	0	3	
FONE0023	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-09/21/88	0	4	
FONE0026	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-09/21/88	0	4	
FONE0035	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/07/88-04/07/88	0	1	
FONE0041	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/26/71-08/27/76	5	8	
FONE0043	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/02/68-09/17/69	1	4	
FONE0046	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/26-10/15/26	0	1	
FONE0001	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	0	1	
FONE0003	No	00916	CALCIUM, TOTAL (MG/L AS CA)	06/30/87-09/21/88	1	2	
FONE0008	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	0	1	
FONE0010	No	00916	CALCIUM, TOTAL (MG/L AS CA)	02/21/78-11/02/87	9	43	
FONE0021	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	0	1	
FONE0023	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	0	1	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0026	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	0	1	
FONE0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-09/21/88	0	10	
FONE0003	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/27/87-06/28/94	7	33	
FONE0008	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-06/28/94	6	21	
FONE0010	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/72-09/20/77	5	26	
FONE0019	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/21/88-06/21/88	0	1	
FONE0021	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/29/88-09/21/88	0	3	
FONE0023	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-09/21/88	0	4	
FONE0026	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-09/21/88	0	4	
FONE0035	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/07/88-04/07/88	0	1	
FONE0041	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/26/71-08/27/76	5	8	
FONE0043	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/68-09/17/69	1	4	
FONE0046	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/26-10/15/26	0	1	
FONE0001	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	0	1	
FONE0003	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/30/87-09/21/88	1	2	
FONE0008	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	0	1	
FONE0010	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/21/78-11/02/87	9	43	
FONE0021	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	0	1	
FONE0023	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	0	1	
FONE0026	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	0	1	
FONE0001	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	0	1	
FONE0003	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/30/87-09/21/88	1	2	
FONE0008	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	0	1	
FONE0021	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	0	1	
FONE0023	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	0	1	
FONE0026	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	0	1	
FONE0028	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/08/87-06/09/88	0	3	
FONE0033	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-08/16/88	0	4	
FONE0034	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-06/09/88	0	3	
FONE0035	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/08/87-08/16/88	0	4	
FONE0036	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-08/15/88	0	4	
FONE0037	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-08/15/88	0	4	
FONE0038	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-08/15/88	0	4	
FONE0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-09/21/88	0	10	
FONE0003	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/27/87-06/28/94	7	33	
FONE0008	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-06/28/94	6	21	
FONE0019	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/21/88-06/21/88	0	1	
FONE0020	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/77-08/21/77	0	1	
FONE0021	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/29/88-09/21/88	0	3	
FONE0023	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-09/21/88	0	4	
FONE0026	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-09/21/88	0	4	
FONE0027	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/22/77-08/22/77	0	1	
FONE0031	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/77-08/21/77	0	1	
FONE0032	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/77-08/21/77	0	1	
FONE0035	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/07/88-04/07/88	0	1	
FONE0040	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/25/77-10/25/77	0	1	
FONE0041	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/26/71-04/26/71	0	1	
FONE0043	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/03/65-04/13/67	1	2	
FONE0044	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/28/77-10/28/77	0	1	
FONE0045	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/77-08/21/77	0	1	
FONE0046	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/26-10/15/26	0	1	
FONE0047	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/22/77-08/22/77	0	1	
FONE0041	No	00931	SODIUM ADSORPTION RATIO	04/26/71-04/26/71	0	1	
FONE0043	No	00931	SODIUM ADSORPTION RATIO	11/03/65-04/15/69	3	5	
FONE0046	No	00931	SODIUM ADSORPTION RATIO	10/15/26-10/15/26	0	1	
FONE0041	No	00932	SODIUM, PERCENT	04/26/71-04/26/71	0	1	
FONE0043	No	00932	SODIUM, PERCENT	11/03/65-04/15/69	3	3	
FONE0046	No	00932	SODIUM, PERCENT	10/15/26-10/15/26	0	1	
FONE0043	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	04/15/69-04/15/69	0	1	
FONE0046	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/15/26-10/15/26	0	1	
FONE0001	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-09/21/88	0	10	
FONE0003	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/27/87-06/28/94	7	33	
FONE0008	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-06/28/94	6	21	
FONE0019	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/21/88-06/21/88	0	1	
FONE0021	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/29/88-09/21/88	0	3	
FONE0023	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-09/21/88	0	4	
FONE0026	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-09/21/88	0	4	
FONE0035	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/07/88-04/07/88	0	1	
FONE0041	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/26/71-04/26/71	0	1	
FONE0046	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/26-10/15/26	0	1	
FONE0001	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	0	1	
FONE0003	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/30/87-09/21/88	1	2	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0008	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	0	1	
FONE0021	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	0	1	
FONE0023	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	0	1	
FONE0026	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	0	1	
FONE0001	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-09/08/88	0	9	
FONE0003	No	00940	CHLORIDE,TOTAL IN WATER MG/L	02/27/87-06/28/94	7	35	
FONE0008	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/28/94	6	20	
FONE0010	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/72-11/02/87	15	69	T,S
FONE0019	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/21/88-06/21/88	0	1	
FONE0021	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/29/88-06/21/88	0	2	
FONE0023	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/21/88	0	3	
FONE0026	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/21/88	0	3	
FONE0028	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/08/87-06/09/88	0	3	
FONE0033	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-08/16/88	0	4	
FONE0034	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-06/09/88	0	3	
FONE0035	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/08/87-08/16/88	0	4	
FONE0036	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-08/15/88	0	4	
FONE0037	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-08/15/88	0	4	
FONE0038	No	00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-08/15/88	0	4	
FONE0041	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/26/71-08/27/76	5	8	
FONE0043	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/03/65-09/17/69	3	6	
FONE0046	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/15/26-10/15/26	0	1	
FONE0020	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/77-08/21/77	0	1	
FONE0027	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/22/77-08/22/77	0	1	
FONE0031	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/77-08/21/77	0	1	
FONE0032	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/77-08/21/77	0	1	
FONE0040	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/25/77-10/25/77	0	1	
FONE0044	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/28/77-10/28/77	0	1	
FONE0045	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/77-08/21/77	0	1	
FONE0047	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/22/77-08/22/77	0	1	
FONE0001	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/29/87-09/21/88	0	10	
FONE0002	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	0	7	
FONE0003	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	17	176	T,A,S
FONE0004	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/01/77	0	7	
FONE0005	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/06/78	1	15	
FONE0006	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/77-09/01/77	0	5	
FONE0007	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/77-09/06/78	1	16	
FONE0008	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	17	156	T,A,S
FONE0009	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	0	7	
FONE0010	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/72-11/02/87	15	68	T,S
FONE0011	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/77	0	5	
FONE0012	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/06/78	1	46	
FONE0013	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	0	7	
FONE0014	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-04/03/79	2	51	
FONE0015	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	0	6	
FONE0016	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/02/77	0	5	
FONE0017	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-11/09/78	1	28	
FONE0018	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/01/77	0	7	
FONE0019	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	11	105	A
FONE0021	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	11	123	A
FONE0022	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/02/77	0	6	
FONE0023	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	11	112	A
FONE0024	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/02/77	0	6	
FONE0025	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	0	7	
FONE0026	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	11	133	A
FONE0028	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/08/87-06/09/88	0	3	
FONE0029	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/29/77-09/01/77	0	6	
FONE0030	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/01/77	0	6	
FONE0033	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-08/16/88	0	4	
FONE0034	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-06/09/88	0	3	
FONE0035	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/08/87-08/16/88	0	4	
FONE0036	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-08/15/88	0	4	
FONE0037	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-08/15/88	0	4	
FONE0038	No	00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-08/15/88	0	4	
FONE0039	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/79-08/12/81	2	5	
FONE0041	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/71-06/06/78	7	22	
FONE0042	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/29/77-09/01/77	0	6	
FONE0043	No	00945	SULFATE, TOTAL (MG/L AS SO4)	11/03/65-09/17/69	3	6	
FONE0046	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/15/26-10/15/26	0	1	
FONE0027	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/22/77-08/22/77	0	1	
FONE0031	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/21/77-08/21/77	0	1	
FONE0041	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/26/71-04/26/71	0	1	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0047	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/22/77-08/22/77	0	1	
FONE0001	No	00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-09/08/88	0	9	
FONE0003	No	00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	6	31	
FONE0008	No	00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	6	20	
FONE0019	No	00951	FLUORIDE, TOTAL (MG/L AS F)	06/21/88-06/21/88	0	1	
FONE0021	No	00951	FLUORIDE, TOTAL (MG/L AS F)	03/29/88-06/21/88	0	2	
FONE0023	No	00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/21/88	0	3	
FONE0026	No	00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/21/88	0	3	
FONE0041	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/26/71-04/26/71	0	1	
FONE0046	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/15/26-10/15/26	0	1	
FONE0010	No	00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	09/21/72-10/07/74	2	3	
FONE0001	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/21/88-09/21/88	0	1	
FONE0002	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0003	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/21/88	11	16	
FONE0004	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0005	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-10/04/77	0	2	
FONE0007	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/04/77-10/04/77	0	1	
FONE0008	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/21/88	11	13	
FONE0009	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0010	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/07/73-11/07/73	0	1	
FONE0011	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0012	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-10/04/77	0	2	
FONE0013	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0014	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-11/09/78	1	3	
FONE0015	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0017	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/04/77-11/09/78	1	2	
FONE0018	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0019	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/28/84	7	11	
FONE0021	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/04/77-09/21/88	10	13	
FONE0023	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/21/88	11	14	
FONE0024	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0025	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0026	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/21/88	11	14	
FONE0041	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/77-10/04/77	0	2	
FONE0042	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/77-03/29/77	0	1	
FONE0001	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/21/88-09/21/88	0	1	
FONE0002	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0003	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/21/88	11	15	
FONE0004	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0005	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-10/04/77	0	2	
FONE0007	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/04/77-10/04/77	0	1	
FONE0008	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/21/88	11	14	
FONE0009	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0010	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/21/72-10/16/84	12	5	
FONE0011	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0012	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-10/04/77	0	2	
FONE0013	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0014	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-11/09/78	1	3	
FONE0015	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0017	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/04/77-11/09/78	1	2	
FONE0018	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0019	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/28/84	7	11	
FONE0021	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/04/77-09/21/88	10	13	
FONE0023	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/21/88	11	14	
FONE0024	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0025	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	0	1	
FONE0026	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/21/88	11	14	
FONE0041	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/75-10/04/77	1	3	
FONE0042	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/29/77-03/29/77	0	1	
FONE0039	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/23/80-08/23/80	0	1	
FONE0002	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0003	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0004	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0005	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-10/04/77	0	2	
FONE0007	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/04/77-07/11/78	0	2	
FONE0008	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0009	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0011	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0012	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0013	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0014	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0015	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0017	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/04/77-07/11/78	0	2	
FONE0018	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0019	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0021	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/04/77-07/11/78	0	2	
FONE0023	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0024	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0025	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0026	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0029	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/29/77-03/29/77	0	1	
FONE0030	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/29/77-03/29/77	0	1	
FONE0041	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/29/77-10/04/77	0	2	
FONE0042	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/29/77-03/29/77	0	1	
FONE0002	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0003	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0004	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0005	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-10/04/77	0	2	
FONE0007	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/04/77-07/11/78	0	2	
FONE0008	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0009	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0011	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0012	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0013	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0014	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0015	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0017	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/04/77-07/11/78	0	2	
FONE0018	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0019	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0021	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/04/77-07/11/78	0	2	
FONE0023	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0024	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0025	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	0	1	
FONE0026	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	1	3	
FONE0029	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/29/77-03/29/77	0	1	
FONE0030	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/29/77-03/29/77	0	1	
FONE0041	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/29/77-10/04/77	0	2	
FONE0042	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/29/77-03/29/77	0	1	
FONE0001	No	01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	0	1	
FONE0003	No	01022	BORON, TOTAL (UG/L AS B)	02/27/87-09/21/88	1	3	
FONE0008	No	01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	0	1	
FONE0021	No	01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	0	1	
FONE0023	No	01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	0	1	
FONE0026	No	01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	0	1	
FONE0002	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0003	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/28/85	7	13	
FONE0004	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0005	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-10/04/77	0	2	
FONE0007	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/04/77-10/04/77	0	1	
FONE0008	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/28/85	7	12	
FONE0009	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0011	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0012	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-10/04/77	0	2	
FONE0013	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0014	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-11/09/78	1	3	
FONE0015	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0017	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/04/77-11/09/78	1	2	
FONE0018	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0019	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-09/28/84	7	11	
FONE0021	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/04/77-03/28/85	7	12	
FONE0023	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/28/85	7	13	
FONE0024	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0025	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0026	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/28/85	7	13	
FONE0029	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/77-03/29/77	0	1	
FONE0030	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/77-03/29/77	0	1	
FONE0041	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/26/71-10/04/77	6	3	
FONE0042	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/77-03/29/77	0	1	
FONE0002	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0003	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/28/85	7	13	
FONE0004	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0005	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-10/04/77	0	2	
FONE0007	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/04/77-10/04/77	0	1	
FONE0008	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/28/85	7	13	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0009	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0010	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/21/72-08/25/87	14	13	S
FONE0011	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0012	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-10/04/77	0	2	
FONE0013	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0014	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-11/09/78	1	3	
FONE0015	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0017	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/04/77-11/09/78	1	2	
FONE0018	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0019	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-09/28/84	7	11	
FONE0021	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/04/77-03/28/85	7	12	
FONE0023	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/28/85	7	13	
FONE0024	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0025	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	0	1	
FONE0026	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/28/85	7	13	
FONE0029	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/29/77-03/29/77	0	1	
FONE0030	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/29/77-03/29/77	0	1	
FONE0041	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/75-10/04/77	1	3	
FONE0042	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/29/77-03/29/77	0	1	
FONE0039	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/23/80-08/23/80	0	1	
FONE0039	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/23/80-08/23/80	0	1	
FONE0001	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/21/88-09/21/88	0	1	
FONE0002	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0003	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/21/88	11	18	
FONE0004	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0005	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-10/04/77	0	2	
FONE0007	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/04/77-07/11/78	0	2	
FONE0008	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/21/88	11	16	
FONE0009	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0011	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0012	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-07/11/78	1	3	
FONE0013	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0014	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-11/09/78	1	5	
FONE0015	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0017	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/04/77-11/09/78	1	4	
FONE0018	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0019	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/28/84	7	13	
FONE0021	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/04/77-09/21/88	10	15	
FONE0023	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/21/88	11	16	
FONE0024	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0025	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0026	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/21/88	11	15	
FONE0029	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/77-03/29/77	0	1	
FONE0030	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/77-03/29/77	0	1	
FONE0041	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/77-10/04/77	0	2	
FONE0042	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/77-03/29/77	0	1	
FONE0001	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/21/88-09/21/88	0	1	
FONE0002	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0003	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/21/88	11	17	
FONE0004	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0005	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-10/04/77	0	2	
FONE0007	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/04/77-07/11/78	0	2	
FONE0008	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/21/88	11	16	
FONE0009	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0010	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/21/72-08/25/87	14	13	S
FONE0011	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0012	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-07/11/78	1	3	
FONE0013	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0014	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-11/09/78	1	5	
FONE0015	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0017	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/04/77-11/09/78	1	4	
FONE0018	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0019	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/28/84	7	13	
FONE0021	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/04/77-09/21/88	10	15	
FONE0023	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/21/88	11	16	
FONE0024	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0025	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	0	1	
FONE0026	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/21/88	11	15	
FONE0029	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/29/77-03/29/77	0	1	
FONE0030	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/29/77-03/29/77	0	1	
FONE0041	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/75-10/04/77	1	3	
FONE0042	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/29/77-03/29/77	0	1	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0001	No	01035	COBALT, DISSOLVED (UG/L AS CO)	09/21/88-09/21/88	0	1	
FONE0002	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0003	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-09/21/88	11	6	
FONE0004	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0005	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-10/04/77	0	2	
FONE0007	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/04/77-07/11/78	0	2	
FONE0008	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-09/21/88	11	4	
FONE0009	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0011	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0012	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-07/11/78	1	3	
FONE0013	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0014	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-07/11/78	1	3	
FONE0015	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0017	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/04/77-07/11/78	0	2	
FONE0018	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0019	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-07/11/78	1	3	
FONE0021	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/04/77-09/21/88	10	3	
FONE0023	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-09/21/88	11	4	
FONE0024	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0025	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0026	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-09/21/88	11	4	
FONE0029	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/77-03/29/77	0	1	
FONE0030	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/77-03/29/77	0	1	
FONE0041	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/77-10/04/77	0	2	
FONE0042	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/77-03/29/77	0	1	
FONE0001	No	01037	COBALT, TOTAL (UG/L AS CO)	09/21/88-09/21/88	0	1	
FONE0002	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0003	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-09/21/88	11	5	
FONE0004	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0005	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-10/04/77	0	2	
FONE0007	No	01037	COBALT, TOTAL (UG/L AS CO)	10/04/77-07/11/78	0	2	
FONE0008	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-09/21/88	11	4	
FONE0009	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0011	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0012	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-07/11/78	1	3	
FONE0013	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0014	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-07/11/78	1	3	
FONE0015	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0017	No	01037	COBALT, TOTAL (UG/L AS CO)	10/04/77-07/11/78	0	2	
FONE0018	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0019	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-07/11/78	1	3	
FONE0021	No	01037	COBALT, TOTAL (UG/L AS CO)	10/04/77-09/21/88	10	3	
FONE0023	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-09/21/88	11	4	
FONE0024	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0025	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	0	1	
FONE0026	No	01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-09/21/88	11	4	
FONE0029	No	01037	COBALT, TOTAL (UG/L AS CO)	03/29/77-03/29/77	0	1	
FONE0030	No	01037	COBALT, TOTAL (UG/L AS CO)	03/29/77-03/29/77	0	1	
FONE0041	No	01037	COBALT, TOTAL (UG/L AS CO)	03/29/77-10/04/77	0	2	
FONE0042	No	01037	COBALT, TOTAL (UG/L AS CO)	03/29/77-03/29/77	0	1	
FONE0039	No	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/23/80-08/23/80	0	1	
FONE0001	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/21/88-09/21/88	0	1	
FONE0002	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0003	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/21/88	11	18	
FONE0004	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0005	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-10/04/77	0	2	
FONE0007	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/04/77-07/11/78	0	2	
FONE0008	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/21/88	11	16	
FONE0009	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0011	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0012	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-07/11/78	1	3	
FONE0013	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0014	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-11/09/78	1	5	
FONE0015	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0017	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/04/77-11/09/78	1	4	
FONE0018	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0019	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/28/84	7	13	
FONE0021	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/04/77-09/21/88	10	15	
FONE0023	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/21/88	11	16	
FONE0024	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0025	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0026	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/21/88	11	16	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0029	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/77-03/29/77	0	1	
FONE0030	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/77-03/29/77	0	1	
FONE0041	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/77-10/04/77	0	2	
FONE0042	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/77-03/29/77	0	1	
FONE0001	No	01042	COPPER, TOTAL (UG/L AS CU)	09/21/88-09/21/88	0	1	
FONE0002	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0003	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/21/88	11	17	
FONE0004	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0005	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-10/04/77	0	2	
FONE0007	No	01042	COPPER, TOTAL (UG/L AS CU)	10/04/77-07/11/78	0	2	
FONE0008	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/21/88	11	16	
FONE0009	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0010	No	01042	COPPER, TOTAL (UG/L AS CU)	09/21/72-08/25/87	14	13	S
FONE0011	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0012	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-07/11/78	1	3	
FONE0013	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0014	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-11/09/78	1	5	
FONE0015	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0017	No	01042	COPPER, TOTAL (UG/L AS CU)	10/04/77-11/09/78	1	4	
FONE0018	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0019	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/28/84	7	13	
FONE0021	No	01042	COPPER, TOTAL (UG/L AS CU)	10/04/77-09/21/88	10	15	
FONE0023	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/21/88	11	16	
FONE0024	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0025	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	0	1	
FONE0026	No	01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/21/88	11	16	
FONE0029	No	01042	COPPER, TOTAL (UG/L AS CU)	03/29/77-03/29/77	0	1	
FONE0030	No	01042	COPPER, TOTAL (UG/L AS CU)	03/29/77-03/29/77	0	1	
FONE0041	No	01042	COPPER, TOTAL (UG/L AS CU)	10/07/75-10/04/77	1	3	
FONE0042	No	01042	COPPER, TOTAL (UG/L AS CU)	03/29/77-03/29/77	0	1	
FONE0039	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/23/80-08/23/80	0	1	
FONE0039	No	01044	IRON, SUSPENDED (UG/L AS FE)	06/13/79-08/12/81	2	5	
FONE0001	No	01045	IRON, TOTAL (UG/L AS FE)	12/29/87-09/21/88	0	10	
FONE0002	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	0	7	
FONE0003	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	17	180	T,A,S
FONE0004	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/01/77	0	7	
FONE0005	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/06/78	1	15	
FONE0006	No	01045	IRON, TOTAL (UG/L AS FE)	05/04/77-09/01/77	0	5	
FONE0007	No	01045	IRON, TOTAL (UG/L AS FE)	05/04/77-09/06/78	1	16	
FONE0008	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	17	159	T,A,S
FONE0009	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	0	7	
FONE0010	No	01045	IRON, TOTAL (UG/L AS FE)	08/09/72-11/02/87	15	72	S
FONE0011	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/77	0	5	
FONE0012	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/15/78	1	47	
FONE0013	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	0	7	
FONE0014	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-04/03/79	2	55	
FONE0015	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	0	6	
FONE0016	No	01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/02/77	0	5	
FONE0017	No	01045	IRON, TOTAL (UG/L AS FE)	03/30/77-11/09/78	1	31	
FONE0018	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/01/77	0	7	
FONE0019	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	11	110	A
FONE0021	No	01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	11	130	A
FONE0022	No	01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0023	No	01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	11	117	A
FONE0024	No	01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0025	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	0	7	
FONE0026	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	11	142	A
FONE0028	No	01045	IRON, TOTAL (UG/L AS FE)	12/08/87-06/09/88	0	3	
FONE0029	No	01045	IRON, TOTAL (UG/L AS FE)	03/29/77-09/01/77	0	6	
FONE0030	No	01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/01/77	0	6	
FONE0033	No	01045	IRON, TOTAL (UG/L AS FE)	12/07/87-08/16/88	0	4	
FONE0034	No	01045	IRON, TOTAL (UG/L AS FE)	12/07/87-06/09/88	0	3	
FONE0035	No	01045	IRON, TOTAL (UG/L AS FE)	12/08/87-08/16/88	0	4	
FONE0036	No	01045	IRON, TOTAL (UG/L AS FE)	12/07/87-08/15/88	0	4	
FONE0037	No	01045	IRON, TOTAL (UG/L AS FE)	12/07/87-08/15/88	0	4	
FONE0038	No	01045	IRON, TOTAL (UG/L AS FE)	12/07/87-08/15/88	0	4	
FONE0039	No	01045	IRON, TOTAL (UG/L AS FE)	06/13/79-08/12/81	2	5	
FONE0041	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/75-06/06/78	2	20	
FONE0042	No	01045	IRON, TOTAL (UG/L AS FE)	03/29/77-09/01/77	0	6	
FONE0001	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/29/87-09/21/88	0	10	
FONE0002	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0003	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	17	179	T,A,S

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0004	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/01/77	0	6	
FONE0005	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/06/78	1	14	
FONE0006	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/04/77-09/01/77	0	5	
FONE0007	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/04/77-09/06/78	1	16	
FONE0008	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	17	157	T,A,S
FONE0009	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0011	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/77	0	4	
FONE0012	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/15/78	1	46	
FONE0013	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0014	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-04/03/79	2	55	
FONE0015	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0016	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	0	5	
FONE0017	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-11/09/78	1	31	
FONE0018	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/16/77-09/01/77	0	6	
FONE0019	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	11	107	A
FONE0021	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	11	130	A
FONE0022	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0023	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	11	117	A
FONE0024	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0025	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	0	6	
FONE0026	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	11	141	A
FONE0029	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/29/77-09/01/77	0	6	
FONE0030	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/29/77-09/01/77	0	5	
FONE0035	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/07/88-04/07/88	0	1	
FONE0039	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/13/79-08/12/81	2	5	
FONE0041	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/26/71-06/06/78	7	14	
FONE0042	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/29/77-09/01/77	0	6	
FONE0046	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/15/26-10/15/26	0	1	
FONE0001	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/21/88-09/21/88	0	1	
FONE0002	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0003	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/21/88	11	14	
FONE0004	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0005	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-10/04/77	0	2	
FONE0007	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/04/77-10/04/77	0	1	
FONE0008	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/21/88	11	14	
FONE0009	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0011	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0012	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-10/04/77	0	2	
FONE0013	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0014	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-11/09/78	1	3	
FONE0015	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0017	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/04/77-11/09/78	1	2	
FONE0018	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0019	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/28/84	7	11	
FONE0021	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/04/77-09/21/88	10	13	
FONE0023	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/21/88	11	14	
FONE0024	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0025	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0026	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/21/88	11	14	
FONE0029	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/77-03/29/77	0	1	
FONE0030	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/77-03/29/77	0	1	
FONE0041	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/26/71-10/04/77	6	3	
FONE0042	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/77-03/29/77	0	1	
FONE0001	No	01051	LEAD, TOTAL (UG/L AS PB)	09/21/88-09/21/88	0	1	
FONE0002	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0003	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/21/88	11	13	
FONE0004	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0005	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-10/04/77	0	2	
FONE0007	No	01051	LEAD, TOTAL (UG/L AS PB)	10/04/77-10/04/77	0	1	
FONE0008	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/21/88	11	14	
FONE0009	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0010	No	01051	LEAD, TOTAL (UG/L AS PB)	09/21/72-08/25/87	14	13	S
FONE0011	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0012	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-10/04/77	0	2	
FONE0013	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0014	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-11/09/78	1	3	
FONE0015	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0017	No	01051	LEAD, TOTAL (UG/L AS PB)	10/04/77-11/09/78	1	2	
FONE0018	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0019	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/28/84	7	11	
FONE0021	No	01051	LEAD, TOTAL (UG/L AS PB)	10/04/77-09/21/88	10	13	
FONE0023	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/21/88	11	14	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0024	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0025	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	0	1	
FONE0026	No	01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/21/88	11	14	
FONE0029	No	01051	LEAD, TOTAL (UG/L AS PB)	03/29/77-03/29/77	0	1	
FONE0030	No	01051	LEAD, TOTAL (UG/L AS PB)	03/29/77-03/29/77	0	1	
FONE0041	No	01051	LEAD, TOTAL (UG/L AS PB)	10/07/75-10/04/77	1	3	
FONE0042	No	01051	LEAD, TOTAL (UG/L AS PB)	03/29/77-03/29/77	0	1	
FONE0039	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/23/80-08/23/80	0	1	
FONE0039	No	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/23/80-08/23/80	0	1	
FONE0039	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/13/79-08/12/81	2	5	
FONE0001	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/29/87-09/21/88	0	10	
FONE0002	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0003	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	17	129	T,A,S
FONE0004	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0005	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-10/04/77	0	2	
FONE0007	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-07/11/78	0	2	
FONE0008	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	17	109	T,A,S
FONE0009	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0010	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/21/72-08/25/87	14	17	S
FONE0011	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0012	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-07/11/78	1	3	
FONE0013	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0014	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-04/03/79	2	10	
FONE0015	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0017	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-11/09/78	1	4	
FONE0018	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0019	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	11	73	
FONE0021	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	10	88	
FONE0023	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	11	88	
FONE0024	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0025	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0026	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	11	89	
FONE0028	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/08/87-06/09/88	0	3	
FONE0029	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/29/77-03/29/77	0	1	
FONE0030	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/29/77-03/29/77	0	1	
FONE0033	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-08/16/88	0	4	
FONE0034	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-06/09/88	0	3	
FONE0035	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/08/87-08/16/88	0	4	
FONE0036	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-08/15/88	0	4	
FONE0037	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-08/15/88	0	4	
FONE0038	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-08/15/88	0	4	
FONE0039	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/79-08/12/81	2	5	
FONE0041	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/75-10/04/77	1	3	
FONE0042	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/29/77-03/29/77	0	1	
FONE0001	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/29/87-09/21/88	0	10	
FONE0002	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0003	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	17	115	T,A,S
FONE0004	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0005	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-10/04/77	0	2	
FONE0007	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-07/11/78	0	2	
FONE0008	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	17	101	T,S
FONE0009	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0011	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0012	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-07/11/78	1	3	
FONE0013	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0014	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-04/03/79	2	10	
FONE0015	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0017	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-11/09/78	1	4	
FONE0018	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0019	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	11	71	
FONE0020	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/77-08/21/77	0	1	
FONE0021	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	10	87	
FONE0023	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	11	86	
FONE0024	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0025	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	0	1	
FONE0026	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	11	89	
FONE0027	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/22/77-08/22/77	0	1	
FONE0029	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/77-03/29/77	0	1	
FONE0030	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/77-03/29/77	0	1	
FONE0031	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/77-08/21/77	0	1	
FONE0032	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/77-08/21/77	0	1	
FONE0035	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/07/88-04/07/88	0	1	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0039	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/13/79-08/12/81	2	5	
FONE0040	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/25/77-10/25/77	0	1	
FONE0041	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/26/71-10/04/77	6	3	
FONE0042	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/77-03/29/77	0	1	
FONE0044	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/28/77-10/28/77	0	1	
FONE0045	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/77-08/21/77	0	1	
FONE0047	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/22/77-08/22/77	0	1	
FONE0001	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/21/88-09/21/88	0	1	
FONE0002	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0003	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/21/88	11	18	
FONE0004	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0005	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-10/04/77	0	2	
FONE0007	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/04/77-07/11/78	0	2	
FONE0008	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/21/88	11	16	
FONE0009	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0011	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0012	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-07/11/78	1	3	
FONE0013	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0014	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-11/09/78	1	5	
FONE0015	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0017	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/04/77-11/09/78	1	4	
FONE0018	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0019	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/28/84	7	13	
FONE0021	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/04/77-09/21/88	10	15	
FONE0023	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/21/88	11	16	
FONE0024	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0025	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0026	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/21/88	11	16	
FONE0029	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/29/77-03/29/77	0	1	
FONE0030	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/29/77-03/29/77	0	1	
FONE0041	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/29/77-10/04/77	0	2	
FONE0042	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/29/77-03/29/77	0	1	
FONE0001	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/21/88-09/21/88	0	1	
FONE0002	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0003	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/21/88	11	17	
FONE0004	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0005	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-10/04/77	0	2	
FONE0007	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/04/77-07/11/78	0	2	
FONE0008	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/21/88	11	16	
FONE0009	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0010	No	01067	NICKEL, TOTAL (UG/L AS NI)	09/21/72-08/25/87	14	13	S
FONE0011	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0012	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-07/11/78	1	3	
FONE0013	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0014	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-11/09/78	1	5	
FONE0015	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0017	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/04/77-11/09/78	1	4	
FONE0018	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0019	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/28/84	7	13	
FONE0021	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/04/77-09/21/88	10	15	
FONE0023	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/21/88	11	16	
FONE0024	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0025	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	0	1	
FONE0026	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/21/88	11	16	
FONE0029	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/29/77-03/29/77	0	1	
FONE0030	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/29/77-03/29/77	0	1	
FONE0041	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/75-10/04/77	1	3	
FONE0042	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/29/77-03/29/77	0	1	
FONE0002	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0003	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0004	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0005	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-10/04/77	0	2	
FONE0007	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/04/77-07/11/78	0	2	
FONE0008	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0009	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0011	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0012	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0013	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0014	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0015	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0017	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/04/77-07/11/78	0	2	
FONE0018	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0019	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0021	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/04/77-07/11/78	0	2	
FONE0023	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0024	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0025	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0026	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0029	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/77-03/29/77	0	1	
FONE0030	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/77-03/29/77	0	1	
FONE0041	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/77-10/04/77	0	2	
FONE0042	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/77-03/29/77	0	1	
FONE0002	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0003	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0004	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0005	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-10/04/77	0	2	
FONE0007	No	01077	SILVER, TOTAL (UG/L AS AG)	10/04/77-07/11/78	0	2	
FONE0008	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0009	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0011	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0012	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0013	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0014	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0015	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0017	No	01077	SILVER, TOTAL (UG/L AS AG)	10/04/77-07/11/78	0	2	
FONE0018	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0019	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0021	No	01077	SILVER, TOTAL (UG/L AS AG)	10/04/77-07/11/78	0	2	
FONE0023	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0024	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0025	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	0	1	
FONE0026	No	01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	1	3	
FONE0029	No	01077	SILVER, TOTAL (UG/L AS AG)	03/29/77-03/29/77	0	1	
FONE0030	No	01077	SILVER, TOTAL (UG/L AS AG)	03/29/77-03/29/77	0	1	
FONE0041	No	01077	SILVER, TOTAL (UG/L AS AG)	03/29/77-10/04/77	0	2	
FONE0042	No	01077	SILVER, TOTAL (UG/L AS AG)	03/29/77-03/29/77	0	1	
FONE0001	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0003	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	02/27/87-09/21/88	1	3	
FONE0008	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0021	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0023	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0026	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0001	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0003	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	06/30/87-09/21/88	1	2	
FONE0008	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0021	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0023	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0026	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	0	1	
FONE0020	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/21/77-08/21/77	0	1	
FONE0027	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/22/77-08/22/77	0	1	
FONE0031	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/21/77-08/21/77	0	1	
FONE0032	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/21/77-08/21/77	0	1	
FONE0040	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/25/77-10/25/77	0	1	
FONE0044	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/28/77-10/28/77	0	1	
FONE0045	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/21/77-08/21/77	0	1	
FONE0047	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/22/77-08/22/77	0	1	
FONE0001	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	12/29/87-09/21/88	0	10	
FONE0002	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0003	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	17	125	T,A,S
FONE0004	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0005	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-10/04/77	0	2	
FONE0007	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-10/04/77	0	1	
FONE0008	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	17	108	T,A,S
FONE0009	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0011	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0012	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-10/04/77	0	2	
FONE0013	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0014	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-04/03/79	2	9	
FONE0015	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0017	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-11/09/78	1	3	
FONE0018	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0019	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	11	69	
FONE0021	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	10	87	
FONE0023	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	11	86	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0024	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0025	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0026	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	11	89	
FONE0029	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/77-03/29/77	0	1	
FONE0030	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/77-03/29/77	0	1	
FONE0035	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/07/88-04/07/88	0	1	
FONE0041	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/26/71-10/04/77	6	3	
FONE0042	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/77-03/29/77	0	1	
FONE0001	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/29/87-09/21/88	0	10	
FONE0002	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0003	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	17	128	T,A,S
FONE0004	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0005	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-10/04/77	0	2	
FONE0007	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-10/04/77	0	1	
FONE0008	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	17	109	T,A,S
FONE0009	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0010	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/21/72-08/25/87	14	13	S
FONE0011	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0012	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-10/04/77	0	2	
FONE0013	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0014	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-04/03/79	2	9	
FONE0015	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0017	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-11/09/78	1	3	
FONE0018	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0019	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	11	72	
FONE0021	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	10	88	
FONE0023	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	11	89	
FONE0024	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0025	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	0	1	
FONE0026	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	11	88	
FONE0028	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/08/87-06/09/88	0	3	
FONE0029	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/29/77-03/29/77	0	1	
FONE0030	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/29/77-03/29/77	0	1	
FONE0033	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-08/16/88	0	4	
FONE0034	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-06/09/88	0	3	
FONE0035	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/08/87-08/16/88	0	4	
FONE0036	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-08/15/88	0	4	
FONE0037	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-08/15/88	0	4	
FONE0038	No	01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-08/15/88	0	4	
FONE0041	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/75-10/04/77	1	3	
FONE0042	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/29/77-03/29/77	0	1	
FONE0039	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/23/80-08/23/80	0	1	
FONE0001	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/29/87-09/21/88	0	10	
FONE0002	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0003	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	17	127	T,A,S
FONE0004	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0005	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-10/04/77	0	2	
FONE0007	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-10/04/77	0	1	
FONE0008	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	17	109	T,A,S
FONE0009	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0010	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/21/72-08/25/87	14	13	S
FONE0011	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0012	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-10/04/77	0	2	
FONE0013	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0014	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-04/03/79	2	9	
FONE0015	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0017	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-11/09/78	1	3	
FONE0018	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0019	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	11	71	
FONE0021	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	10	86	
FONE0023	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	11	86	
FONE0024	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0025	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0026	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	11	89	
FONE0028	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/08/87-06/09/88	0	3	
FONE0029	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/29/77-03/29/77	0	1	
FONE0030	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/29/77-03/29/77	0	1	
FONE0033	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-08/16/88	0	4	
FONE0034	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-06/09/88	0	3	
FONE0035	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/08/87-08/16/88	0	4	
FONE0036	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-08/15/88	0	4	
FONE0037	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-08/15/88	0	4	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0038	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-08/15/88	0	4	
FONE0041	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/75-10/04/77	1	3	
FONE0042	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/29/77-03/29/77	0	1	
FONE0001	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	12/29/87-09/21/88	0	10	
FONE0002	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0003	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	17	127	T,A,S
FONE0004	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0005	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-10/04/77	0	2	
FONE0007	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-10/04/77	0	1	
FONE0008	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	17	108	T,A,S
FONE0009	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0011	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0012	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-10/04/77	0	2	
FONE0013	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0014	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-04/03/79	2	9	
FONE0015	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0017	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-11/09/78	1	3	
FONE0018	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0019	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	11	70	
FONE0020	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/77-08/21/77	0	1	
FONE0021	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	10	88	
FONE0023	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	11	87	
FONE0024	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0025	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	0	1	
FONE0026	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	11	90	
FONE0027	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/22/77-08/22/77	0	1	
FONE0029	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/29/77-03/29/77	0	1	
FONE0030	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/29/77-03/29/77	0	1	
FONE0031	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/77-08/21/77	0	1	
FONE0032	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/77-08/21/77	0	1	
FONE0035	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/07/88-04/07/88	0	1	
FONE0040	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/25/77-10/25/77	0	1	
FONE0041	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/29/77-10/04/77	0	2	
FONE0042	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/29/77-03/29/77	0	1	
FONE0044	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/28/77-10/28/77	0	1	
FONE0045	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/77-08/21/77	0	1	
FONE0047	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/22/77-08/22/77	0	1	
FONE0001	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/21/88-09/21/88	0	1	
FONE0002	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0003	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-09/21/88	11	16	
FONE0004	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0005	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-10/04/77	0	2	
FONE0007	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/04/77-07/11/78	0	2	
FONE0008	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-09/21/88	11	14	
FONE0009	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0011	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0012	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-07/11/78	1	3	
FONE0013	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0014	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-11/09/78	1	4	
FONE0015	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0017	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/04/77-11/09/78	1	3	
FONE0018	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0019	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-04/09/84	7	11	
FONE0021	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/04/77-09/21/88	10	13	
FONE0023	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-09/21/88	11	14	
FONE0024	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0025	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0026	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-09/21/88	11	14	
FONE0029	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/77-03/29/77	0	1	
FONE0030	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/77-03/29/77	0	1	
FONE0041	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/77-10/04/77	0	2	
FONE0042	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/77-03/29/77	0	1	
FONE0001	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/21/88-09/21/88	0	1	
FONE0002	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0003	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-09/21/88	11	15	
FONE0004	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0005	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-10/04/77	0	2	
FONE0007	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/04/77-07/11/78	0	2	
FONE0008	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-09/21/88	11	14	
FONE0009	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0011	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0012	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-07/11/78	1	3	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0013	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0014	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-11/09/78	1	4	
FONE0015	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0017	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/04/77-11/09/78	1	3	
FONE0018	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0019	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-04/09/84	7	11	
FONE0021	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/04/77-09/21/88	10	13	
FONE0023	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-09/21/88	11	14	
FONE0024	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0025	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	0	1	
FONE0026	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-09/21/88	11	14	
FONE0029	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/77-03/29/77	0	1	
FONE0030	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/77-03/29/77	0	1	
FONE0041	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/77-10/04/77	0	2	
FONE0042	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/77-03/29/77	0	1	
FONE0039	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/23/80-08/23/80	0	1	
FONE0039	No	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/23/80-08/23/80	0	1	
FONE0010	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	10/07/75-11/26/76	1	7	
FONE0010	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	09/21/72-10/07/74	2	10	
FONE0041	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	04/26/71-04/26/71	0	1	
FONE0020	No	22703	URANIUM, NATURAL, DISSOLVED	08/21/77-08/21/77	0	1	
FONE0027	No	22703	URANIUM, NATURAL, DISSOLVED	08/22/77-08/22/77	0	1	
FONE0031	No	22703	URANIUM, NATURAL, DISSOLVED	08/21/77-08/21/77	0	1	
FONE0032	Yes	22703	URANIUM, NATURAL, DISSOLVED	08/21/77-08/21/77	0	1	
FONE0040	No	22703	URANIUM, NATURAL, DISSOLVED	10/25/77-10/25/77	0	1	
FONE0044	No	22703	URANIUM, NATURAL, DISSOLVED	10/28/77-10/28/77	0	1	
FONE0045	No	22703	URANIUM, NATURAL, DISSOLVED	08/21/77-08/21/77	0	1	
FONE0047	No	22703	URANIUM, NATURAL, DISSOLVED	08/22/77-08/22/77	0	1	
FONE0010	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	10	43	
FONE0010	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/01/84-10/16/84	0	3	
FONE0010	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	08/02/82-08/02/82	0	1	
FONE0010	No	46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)	10/24/72-11/14/78	6	20	
FONE0010	No	46014	FAMILY HIRUDIDAE, LEECHES	10/10/84-10/10/84	0	1	
FONE0010	No	46015	FAMILY ASELLIDAE, AQUATIC SOW BUG	10/22/86-09/23/87	0	2	
FONE0010	No	46019	FAMILY ASTACIDAE, ALL CRAYFISH	09/17/76-09/23/87	11	10	
FONE0010	No	46021	FAMILY PTERONARCIDAE, STONEFLY W/ABD. GILLS	04/17/79-09/23/87	8	7	
FONE0010	No	46022	FAMILY PELTOPERLIDAE, STONEFLY, ROACHLIKE	04/17/79-09/23/87	8	8	
FONE0010	No	46023	FAM NEMOURIDAE, STONEFLY W/PARA & GLOSSAE EQUAL	02/15/75-09/23/87	12	12	
FONE0010	No	46024	FAMILY PERLIDAE, STONEFLY W/GILLS ON THORAX	02/15/75-09/23/87	12	18	
FONE0010	No	46025	FAMILY PERLODIDAE, STONEFLY W/GILLS ON SUBMENTUM	05/13/75-09/23/87	12	9	
FONE0010	No	46027	FAMILY EPHEMERIDAE, MAYFLY W/ TUSKS, BURROWER	08/15/75-09/23/87	12	15	
FONE0010	No	46028	FAMILY BAETIDAE, MAYFLY, HEAD NOT DEPRESSED	02/15/75-09/23/87	12	16	
FONE0010	No	46029	FAMILY HEPTAGENIIDAE MAYFLY W/ DEPRESSED HEAD	02/15/75-09/23/87	12	18	
FONE0010	No	46030	FAMILY CORDULEGASTERIDAE, DRAGONFLY	10/22/86-09/23/87	0	2	
FONE0010	No	46031	FAMILY LIBELLULIDAE, DRAGONFLY BOTTOM SPRAWLER	10/22/86-09/23/87	0	2	
FONE0010	No	46037	FAM COENAGRIONIDAE 1ST ANTENNAE SEGMENT SHORT	03/25/82-09/23/87	5	3	
FONE0010	No	46041	FAMILY GERRIDAE, WATER STRIDERS	10/22/86-09/23/87	0	2	
FONE0010	No	46049	FAMILY SIALIDAE, ALDERFLY	05/06/81-09/23/87	6	4	
FONE0010	No	46050	FAMILY CORYDALIDAE, HELLGRAMMITES	05/13/75-09/23/87	12	8	
FONE0010	No	46051	FAMILY HYDROPTILIDAE, CADDISFLY, ABDOMEN WIDE	05/06/81-09/23/87	6	4	
FONE0010	No	46053	FAMILY HYDROPSYCHIDAE, CADDISFLY W/3 S PLATES	02/15/75-09/23/87	12	18	
FONE0010	No	46054	FAM RHYACOPHILIDAE CADDISFLY;LS W/ DORSAL SHIELD	05/18/77-09/23/87	10	10	
FONE0010	No	46055	FAMILY PHILOPOTAMIDAE, CADDISFLY LAB SOFT	03/07/78-09/23/87	9	9	
FONE0010	No	46056	FAMILY PSYCHOMYIIDAE, LAB SCLEROTIZED	04/17/79-09/23/87	8	8	
FONE0010	No	46061	FAMILY ODONTOCERIDAE, CADDISFLY	08/25/75-09/17/76	1	3	
FONE0010	No	46063	FAMILY BRACHYCENTRIDAE, CADDISFLY PRO W/FURROW	03/25/82-09/23/87	5	2	
FONE0010	No	46066	FAMILY LIMNEPHILIDAE, CADDISFLY	02/15/75-09/23/87	12	15	
FONE0010	No	46068	FAMILY GYRINIDAE, WHIRLYGIG BEETLES	03/25/82-03/25/82	0	1	
FONE0010	No	46071	FAMILY PSEPHENIDAE, WATER PENNY BEETLES	02/15/75-09/23/87	12	15	
FONE0010	No	46075	FAMILY ELMIDAE, BEETLE	05/18/77-09/23/87	10	7	
FONE0010	No	46078	FAMILY TIPULIDAE, CRANE FLY	02/15/75-09/23/87	12	16	
FONE0010	No	46083	FAMILY CERATOPOGONIDAE, BITING MIDGES	03/07/78-09/23/87	9	9	
FONE0010	No	46084	FAMILY SIMULIIDAE, BLACK FLIES	05/18/77-09/23/87	10	7	
FONE0010	No	46085	FAMILY EMPIDIDAE	05/06/81-09/23/87	6	6	
FONE0010	No	46087	FAMILY TENDIPEDIDAE (CHIRONOMIDAE), MIDGE FLIES	02/15/75-09/23/87	12	17	
FONE0010	No	46089	FAMILY RHAGIONIDAE, SNIPE FLIES	02/15/75-09/23/87	12	17	
FONE0010	No	46090	FAMILY TABANIDAE, HORSEFLIES	10/10/84-10/10/84	0	1	
FONE0010	No	46104	FAMILY SPHAERIIDAE,FINGERNAIL CLAMS	09/23/87-09/23/87	0	1	
FONE0010	No	46106	CLASS OLIGOCHAETA, AQUATIC EARTH WORMS	05/18/77-09/23/87	10	4	
FONE0010	No	46120	NITROGEN DIOXIDE, CHEMILUMINESCENT (PPM)	10/14/83-09/23/87	3	4	
FONE0010	No	46124	FAMILY TAENIOPTERGIDAE STONEFLY NO/FT2	04/17/79-09/23/87	8	3	
FONE0010	No	46126	FAMILY LEUCTRIDAE, STONEFLY NO/FT2	05/18/77-03/25/82	4	6	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0039	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/03/80-08/12/81	1	4	
FONE0041	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/26/71-04/26/71	0	1	
FONE0043	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/15/69-04/15/69	0	1	
FONE0046	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/15/26-10/15/26	0	1	
FONE0041	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/26/71-04/26/71	0	1	
FONE0046	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/15/26-10/15/26	0	1	
FONE0039	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/03/80-08/12/81	1	4	
FONE0043	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/15/69-04/15/69	0	1	
FONE0039	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/03/80-08/12/81	1	4	
FONE0041	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/26/71-04/26/71	0	1	
FONE0043	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/15/69-04/15/69	0	1	
FONE0001	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/29/87-09/21/88	0	10	
FONE0003	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/27/87-06/28/94	7	42	
FONE0008	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/28/87-06/28/94	6	22	
FONE0010	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/21/78-11/02/87	9	43	
FONE0019	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/21/88-06/21/88	0	1	
FONE0021	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	03/29/88-09/21/88	0	3	
FONE0023	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/29/87-09/21/88	0	4	
FONE0026	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/29/87-09/21/88	0	4	
FONE0028	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/08/87-04/07/88	0	2	
FONE0033	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-06/09/88	0	3	
FONE0034	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-04/07/88	0	2	
FONE0035	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/08/87-12/08/87	0	1	
FONE0036	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-04/07/88	0	2	
FONE0037	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-04/07/88	0	2	
FONE0038	No	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-04/07/88	0	2	
FONE0003	No	71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	2	36	
FONE0008	No	71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	2	36	
FONE0019	No	71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/28/84	1	24	
FONE0021	No	71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	2	36	
FONE0023	No	71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	2	36	
FONE0026	No	71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	2	36	
FONE0039	No	71825	ACIDITY, TOTAL (MG/L AS H)	04/03/80-04/03/80	0	1	
FONE0041	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/26/71-04/26/71	0	1	
FONE0043	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/03/65-04/15/69	3	5	
FONE0046	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/15/26-10/15/26	0	1	
FONE0001	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/21/88-09/21/88	0	1	
FONE0002	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0003	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/21/88	11	17	
FONE0004	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0005	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-10/04/77	0	2	
FONE0007	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/04/77-07/11/78	0	2	
FONE0008	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/21/88	11	14	
FONE0009	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0011	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0012	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-07/11/78	1	3	
FONE0013	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0014	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-11/09/78	1	4	
FONE0015	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0017	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/04/77-11/09/78	1	3	
FONE0018	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0019	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/28/84	7	12	
FONE0021	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/04/77-09/21/88	10	14	
FONE0023	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/21/88	11	15	
FONE0024	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0025	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0026	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/21/88	11	15	
FONE0029	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/77-03/29/77	0	1	
FONE0030	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/77-03/29/77	0	1	
FONE0041	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/77-10/04/77	0	2	
FONE0042	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/77-03/29/77	0	1	
FONE0001	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/21/88-09/21/88	0	1	
FONE0002	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0003	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/21/88	11	16	
FONE0004	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0005	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-10/04/77	0	2	
FONE0007	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/04/77-07/11/78	0	2	
FONE0008	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/21/88	11	15	
FONE0009	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0010	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/21/72-10/16/84	12	5	
FONE0011	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0012	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-07/11/78	1	3	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0013	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0014	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-11/09/78	1	4	
FONE0015	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0017	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/04/77-11/09/78	1	3	
FONE0018	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0019	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/28/84	7	12	
FONE0021	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/04/77-09/21/88	10	14	
FONE0023	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/21/88	11	15	
FONE0024	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0025	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	0	1	
FONE0026	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/21/88	11	15	
FONE0029	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/29/77-03/29/77	0	1	
FONE0030	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/29/77-03/29/77	0	1	
FONE0041	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/75-10/04/77	1	3	
FONE0042	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/29/77-03/29/77	0	1	
FONE0039	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/23/80-08/23/80	0	1	
FONE0041	No	72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	04/26/71-04/26/71	0	1	
FONE0041	No	72016	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT BELOW LSD)	04/26/71-04/26/71	0	1	
FONE0041	No	72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	04/26/71-04/26/71	0	1	
FONE0046	No	72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	10/15/26-10/15/26	0	1	
FONE0002	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/02/77	0	5	
FONE0003	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	8	128	A
FONE0004	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/01/77	0	6	
FONE0005	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-06/06/78	1	10	
FONE0008	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	8	123	A
FONE0009	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/02/77	0	6	
FONE0012	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-10/03/78	1	34	
FONE0013	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/02/77	0	5	
FONE0014	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-04/03/79	2	47	
FONE0015	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/02/77	0	5	
FONE0016	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/02/77	0	3	
FONE0017	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-11/09/78	1	25	
FONE0021	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	8	115	A
FONE0022	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/02/77	0	3	
FONE0023	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	8	109	A
FONE0024	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/02/77	0	5	
FONE0025	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/02/77	0	5	
FONE0026	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	8	123	A
FONE0029	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/29/77-09/01/77	0	6	
FONE0030	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/29/77-09/01/77	0	6	
FONE0033	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	0	1	
FONE0034	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	0	1	
FONE0035	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	0	1	
FONE0036	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	0	1	
FONE0037	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	0	1	
FONE0038	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	0	1	
FONE0039	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/13/79-08/12/81	2	5	
FONE0041	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/29/77-06/06/78	1	10	
FONE0042	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/29/77-09/01/77	0	6	
FONE0003	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	5	97	
FONE0005	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/78-06/06/78	0	3	
FONE0008	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	5	90	
FONE0012	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/07/77-09/15/78	1	18	
FONE0014	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/08/77-04/03/79	1	27	
FONE0017	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/07/77-11/09/78	1	8	
FONE0021	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/03/77-09/24/82	5	62	
FONE0023	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-09/24/82	5	64	
FONE0026	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/30/77-09/24/82	5	69	
FONE0039	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/13/79-08/12/81	2	5	
FONE0041	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/07/77-06/06/78	0	5	
FONE0028	No	80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	0	1	
FONE0033	No	80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	0	1	
FONE0034	No	80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	0	1	
FONE0035	No	80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	0	1	
FONE0036	No	80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	0	1	
FONE0037	No	80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	0	1	
FONE0038	No	80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	0	1	
FONE0039	No	82031	COAL IN BOTTOM MATERIAL DRY WEIGHT GRAMS/KG	08/23/80-08/23/80	0	1	
FONE0027	No	82037	MAGNESIUM - DISSOLVED UG/L (AS MG)	08/22/77-08/22/77	0	1	
FONE0047	No	82037	MAGNESIUM - DISSOLVED UG/L (AS MG)	08/22/77-08/22/77	0	1	
FONE0010	No	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/09/83-11/02/87	4	20	
FONE0020	No	82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/21/77-08/21/77	0	1	

[1]T=Times Series Plot, A=Annual Plot, and S=Seasonal Plot

Station/Parameter Period of Record Tabulation
From 10/15/26 To 06/28/94

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
FONE0031	No	82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/21/77-08/21/77	0	1	
FONE0032	Yes	82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/21/77-08/21/77	0	1	
FONE0040	No	82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	10/25/77-10/25/77	0	1	
FONE0044	No	82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	10/28/77-10/28/77	0	1	
FONE0045	No	82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/21/77-08/21/77	0	1	
FONE0047	No	82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/22/77-08/22/77	0	1	
FONE0020	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/21/77-08/21/77	0	1	
FONE0027	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/22/77-08/22/77	0	1	
FONE0031	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/21/77-08/21/77	0	1	
FONE0032	Yes	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/21/77-08/21/77	0	1	
FONE0040	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	10/25/77-10/25/77	0	1	
FONE0044	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	10/28/77-10/28/77	0	1	
FONE0045	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/21/77-08/21/77	0	1	
FONE0047	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/22/77-08/22/77	0	1	
FONE0039	No	82398	SAMPLING METHOD (CODES)	08/16/79-08/16/79	0	1	
FONE0010	No	82550	OSMOTIC PRESSURE,TOTAL,UNF WHL WTR,MILLIOSMOLES/KG	08/12/81-11/14/85	4	15	
FONE0028	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/07/88-06/09/88	0	2	
FONE0033	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/16/88-08/16/88	0	1	
FONE0034	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/07/88-06/09/88	0	2	
FONE0035	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	12/08/87-08/16/88	0	2	
FONE0037	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/07/88-08/15/88	0	2	
FONE0038	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/07/88-08/15/88	0	2	
FONE0028	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/07/88-06/09/88	0	2	
FONE0033	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/16/88-08/16/88	0	1	
FONE0034	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/07/88-06/09/88	0	2	
FONE0035	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	12/08/87-08/16/88	0	2	
FONE0037	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/07/88-08/15/88	0	2	
FONE0038	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/07/88-08/15/88	0	2	

[1]T=Time Series Plot, A=Annual Plot, S=Seasonal Plot

Station-By-Station Results

Station Inventory for Station: FONE0001

NPS Station ID: FONE0001
LAT/LON: 39.758892/ -79.591115
Agency: 112WRD
Date Created: 04/22/89
Location: STONY FORK TRIB ABOVE STRIP MINE
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070418
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003904.58
RF3 Mile Point: 4.58
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/29/87-09/21/88	10	13.5	11.75	22.	0.5	54.736	7.398	0.65	2.75	16.75	21.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/29/87-09/21/88	10	0.2	0.263	0.8	0.007	0.069	0.264	0.008	0.043	0.425	0.77
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/29/87-09/21/88	10	135.	164.	325.	90.	6265.556	79.155	91.	103.75	230.	318.5
00400	PH (STANDARD UNITS)	12/29/87-09/21/88	10	7.075	7.089	7.68	6.67	0.109	0.331	6.678	6.825	7.265	7.67
00400	CONVERTED PH (STANDARD UNITS)	12/29/87-09/21/88	10	7.074	6.994	7.68	6.67	0.12	0.346	6.678	6.825	7.265	7.67
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/29/87-09/21/88	10	0.084	0.101	0.214	0.021	0.004	0.063	0.021	0.058	0.15	0.21
00403	PH, LAB, STANDARD UNITS SU	12/29/87-09/21/88	10	6.45	6.49	6.9	6.	0.074	0.273	6.02	6.35	6.725	6.89
00403	CONVERTED PH, LAB, STANDARD UNITS	12/29/87-09/21/88	10	6.447	6.412	6.9	6.	0.081	0.285	6.02	6.35	6.725	6.89
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/29/87-09/21/88	10	0.357	0.388	1.	0.126	0.068	0.261	0.129	0.189	0.456	0.963
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	12/29/87-09/21/88	10	25.	32.8	72.	14.	521.067	22.827	14.	14.	50.5	71.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/29/87-09/21/88	10	89.	109.	264.	18.	4520.222	67.233	21.6	75.	149.	252.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/29/87-09/21/88	10 ##	1.	13.1	94.	1.	868.767	29.475	1.	1.	9.5	87.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-09/21/88	10	10.7	13.23	28.7	5.6	59.698	7.726	5.74	7.	18.95	27.98
00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	1	13.6	13.6	13.6	13.6	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-09/21/88	10	2.8	3.13	6.3	1.8	1.885	1.373	1.82	2.075	4.	6.07
00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	1	7.26	7.26	7.26	7.26	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-09/21/88	10	9.38	11.758	28.	3.91	55.124	7.425	4.003	6.625	16.775	26.99
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-09/21/88	10	1.105	1.603	3.99	0.93	0.934	0.966	0.931	0.962	1.983	3.817
00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	1	1.82	1.82	1.82	1.82	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-09/08/88	9	23.	21.	35.	8.	75.5	8.689	8.	14.	28.	35.
00945	SULFATE, TOTAL (MG/L AS SO4)	12/29/87-09/21/88	10	19.	29.7	85.	5.	600.233	24.5	6.1	18.25	38.	82.7
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-09/08/88	9 ##	0.05	0.108	0.28	0.05	0.009	0.094	0.05	0.05	0.195	0.28
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/21/88-09/21/88	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/21/88-09/21/88	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	1 ##	125.	125.	125.	125.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/21/88-09/21/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/21/88-09/21/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	09/21/88-09/21/88	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	09/21/88-09/21/88	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/21/88-09/21/88	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/21/88-09/21/88	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/29/87-09/21/88	10	480.5	637.5	1930.	168.	263529.833	513.352	176.1	279.	815.	1826.6
01046	IRON, DISSOLVED (UG/L AS FE)	12/29/87-09/21/88	10	125.5	151.6	303.	51.	5682.489	75.382	55.1	106.25	191.5	297.7
01049	LEAD, DISSOLVED (UG/L AS PB)	09/21/88-09/21/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/21/88-09/21/88	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/29/87-09/21/88	10	100.5	116.9	247.	46.	5083.211	71.297	46.1	50.75	183.25	241.9
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/29/87-09/21/88	10	73.5	111.3	259.	44.	5601.789	74.845	44.2	50.5	180.5	251.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/21/88-09/21/88	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	09/21/88-09/21/88	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	1	47.	47.	47.	47.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	12/29/87-09/21/88	10	28.5	30.7	57.	13.	188.233	13.72	13.4	18.5	38.75	56.
01092	ZINC, TOTAL (UG/L AS ZN)	12/29/87-09/21/88	10	33.	32.2	57.	13.	187.956	13.71	13.4	18.5	41.5	55.9
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/29/87-09/21/88	10	230.5	394.55	1640.	67.5	214453.025	463.091	75.65	150.5	502.75	1530.1
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	12/29/87-09/21/88	10 ##	107.75	172.05	620.	67.5	29083.136	170.538	67.5	67.5	207.5	582.5
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/21/88-09/21/88	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/21/88-09/21/88	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/29/87-09/21/88	10	0.	7.2	22.	0.	97.067	9.852	0.	0.	19.	22.
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/21/88-09/21/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/21/88-09/21/88	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	10	6	0.60	4	2	0.50	3	3	1.00	3	1	0.33			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00			
		Drinking Water	250.	9	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	9	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	0 &	0	0.00												
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
		Drinking Water	5000.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
		Drinking Water	5000.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0002

NPS Station ID: FONE0002
LAT/LON: 39.763615/ -79.587782
Agency: 21PAMR
Date Created: 07/25/77
Location: STONY FORK TRIB NR GIBBON GLADE
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010670 /03070320
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020004010700.00
RF3 Mile Point: 0.08
Distance from RF3: 0.03
On/Off RF3:
Description:
STONY FORK TRIBUTARY NEAR GIBBON GLADE PA. USGS WATER QUALITY MONITORING STATION 2.8 MILES NORTH OF GIBBON GLADE NEAR KENNEDY MINE SITE(3374SM74)

Parameter Inventory for Station: FONE0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	7	17.5	16.714	22.5	10.5	19.821	4.452	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/02/77	5	2.	1.628	3.	0.04	2.19	1.48	**	**	**	**
00065	STAGE, STREAM (FEET)	06/07/77-09/02/77	4	1.35	1.325	1.4	1.2	0.009	0.096	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	7	85.	87.857	150.	58.	1138.143	33.736	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	5	8.4	7.98	8.9	6.5	0.957	0.978	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/02/77	7	7.	6.936	7.35	6.6	0.092	0.304	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/02/77	7	7.	6.85	7.35	6.6	0.101	0.318	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.1	0.141	0.251	0.045	0.008	0.09	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	7	6.7	6.7	7.	6.5	0.027	0.163	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-09/02/77	7	6.7	6.676	7.	6.5	0.027	0.165	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.2	0.211	0.316	0.1	0.005	0.07	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	7	20.	29.	70.	6.	584.667	24.18	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	5	21.	23.	44.	10.	208.	14.422	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	5	3.	3.4	6.	2.	2.8	1.673	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/30/77-03/30/77	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-06/28/77	4	29.	30.5	42.	22.	75.667	8.699	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	7	6.	6.857	10.	4.	5.476	2.34	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	7	1140.	2511.429	11350.	520.	15287780.952	3909.959	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	6	295.	304.167	530.	105.	20224.167	142.212	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	45.	45.	45.	45.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	117.	117.	117.	117.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/02/77	5	30.	31.	55.	11.	311.5	17.649	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	1	0	0.00				4	0	0.00			
00400	PH	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	2	0	0.00				5	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	1	0.14	2	0	0.00				5	1	0.20			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	2	0	0.00				5	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/01-10/31---------- Obs	Exceed	Prop.	----------11/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0003

NPS Station ID: FONE0003
LAT/LON: 39.764171/ -79.587226
Agency: 112WRD
Date Created: 06/29/78
Location: STONY FORK TRIB NR GIBBON GLADE, PA (67)
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070420
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 25.40
On/Off RF1:
RF3 Index: 05020004024900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	180	12.75	11.793	27.5	0.	47.891	6.92	1.32	6.125	17.5	20.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	165	0.7	1.804	17.	0.	9.268	3.044	0.07	0.2	2.	5.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	117	1.46	1.48	2.02	1.17	0.03	0.172	1.27	1.36	1.56	1.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	180	90.	172.7	1842.	40.	73007.451	270.199	63.	72.25	130.	301.9
00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	5	8.4	7.98	8.9	6.5	0.957	0.978	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	177	6.7	6.645	7.7	3.27	0.255	0.505	6.088	6.4	7.	7.2
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	177	6.7	5.469	7.7	3.27	1.645	1.283	6.088	6.4	7.	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	177	0.2	3.397	537.032	0.02	1627.392	40.341	0.063	0.1	0.398	0.818
00403	PH, LAB, STANDARD UNITS SU	03/27/87-06/28/94	40	6.45	6.42	7.2	3.1	0.395	0.629	6.	6.3	6.8	6.9
00403	CONVERTED PH, LAB, STANDARD UNITS	03/27/87-06/28/94	40	6.447	4.693	7.2	3.1	3.453	1.858	6.	6.3	6.8	6.9
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/87-06/28/94	40	0.357	20.254	794.328	0.063	15757.892	125.53	0.126	0.158	0.501	1.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	156	16.	20.122	76.	1.	212.34	14.572	6.	10.	27.5	40.
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	02/27/87-09/21/88	21	26.	33.429	114.	0.	609.257	24.683	14.	17.	43.	67.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	81	4.	5.136	16.	0.	8.669	2.944	2.	4.	6.	9.6
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	09/08/88-09/08/88	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/06/78	37	0.	0.068	1.	0.	0.058	0.24	0.	0.	0.	0.1
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/27/87-06/28/94	42	205.	392.905	1804.	4.	163927.552	404.88	77.8	109.5	528.25	1092.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/30/77-06/28/94	43	12.	32.	842.	1.	16095.476	126.868	1.	4.	18.	26.8
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-06/28/77	4	29.	30.5	42.	22.	75.667	8.699	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/27/87-06/28/94	33	23.6	55.67	209.	6.3	3533.097	59.44	9.	16.	96.55	166.4
00916	CALCIUM, TOTAL (MG/L AS CA)	06/30/87-09/21/88	2	38.1	38.1	61.7	14.5	1113.92	33.375	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/27/87-06/28/94	33	5.4	13.367	54.5	1.7	205.199	14.325	2.3	4.	21.1	39.52
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/30/87-09/21/88	2	9.05	9.05	15.3	2.8	78.125	8.839	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/30/87-09/21/88	2	3.975	3.975	4.76	3.19	1.232	1.11	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/27/87-06/28/94	33	5.1	13.496	123.	1.92	674.944	25.98	2.282	3.11	8.33	49.24
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/27/87-06/28/94	33	2.36	2.378	5.73	1.14	1.053	1.026	1.29	1.485	2.94	3.766
00937	POTASSIUM, TOTAL MG/L AS K)	06/30/87-09/21/88	2	2.595	2.595	2.86	2.33	0.14	0.375	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/27/87-06/28/94	35	8.	8.943	26.	4.	21.644	4.652	4.6	6.	10.	14.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	176	12.	54.946	1087.	2.5	19517.078	139.704	6.	8.	24.25	119.8
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	31	## 0.1	0.122	0.64	0.05	0.011	0.107	0.05	0.1	0.1	0.208
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/21/88	16	## 3.5	3.031	5.	0.5	4.416	2.101	0.5	0.5	5.	5.
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/21/88	15	## 5.	3.2	5.	0.5	4.243	2.06	0.5	0.5	5.	5.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	3	## 5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	3	## 5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	02/27/87-09/21/88	3	## 125.	125.	125.	125.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/28/85	13	## 1.	1.538	5.	0.	2.186	1.478	0.2	0.5	2.	4.6
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/28/85	13	## 1.	2.269	9.	0.5	6.609	2.571	0.5	0.5	3.5	7.4
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/21/88	18	## 5.	9.5	25.	1.	57.441	7.579	4.6	5.	10.	25.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/21/88	17 ##	5.	8.882	25.	1.	44.36	6.66	4.2	5.	10.	25.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-09/21/88	6 ##	6.75	6.75	12.5	1.	39.675	6.299	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-09/21/88	5 ##	2.	5.8	12.5	1.	37.575	6.13	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/21/88	18 ##	5.	6.667	10.	5.	5.882	2.425	5.	5.	10.	10.
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/21/88	17 ##	10.	7.941	10.	5.	6.434	2.536	5.	5.	10.	10.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	180	1015.	2629.311	54500.	220.	36926529.467	6076.72	451.	632.5	1950.	5312.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	179	260.	718.134	32700.	12.	7138224.959	2671.746	110.	170.	400.	822.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/21/88	14 ##	5.	8.214	25.	1.	89.258	9.448	1.	1.	13.75	25.
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/21/88	13 ##	5.	6.846	25.	1.	67.808	8.235	1.	1.5	5.	25.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	129	170.	754.55	14700.	5.	3258617.624	1805.164	80.	120.	407.5	1680.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	115	150.	716.791	14700.	20.	3445209.237	1856.127	70.	94.	380.	1236.
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/21/88	18 ##	7.5	9.028	20.	5.	25.102	5.01	5.	5.	12.5	20.
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/21/88	17 ##	10.	11.176	30.	5.	66.498	8.155	5.	5.	12.5	30.
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	02/27/87-09/21/88	3	54.	81.667	146.	45.	3124.333	55.896	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	06/30/87-09/21/88	2	98.5	98.5	151.	46.	5512.5	74.246	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	125	20.	34.944	800.	5.	6106.827	78.146	10.	13.	30.	51.2
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	128	30.	43.852	800.	5.	6172.694	78.566	10.	20.	44.	70.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	127	420.	1239.685	51600.	50.	27734148.983	5266.322	135.4	210.	730.	1328.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	127	67.5	161.909	3960.	5.	171882.954	414.588	29.	50.	140.	218.4
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-09/21/88	16 ##	5.	4.625	5.	3.	0.65	0.806	3.	5.	5.	5.
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-09/21/88	15 ##	5.	4.733	5.	3.	0.495	0.704	3.	5.	5.	5.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/27/87-06/28/94	42	0.	6.905	118.	0.	375.844	19.387	0.	0.	3.75	23.4
71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	36	0.08	0.107	0.4	0.02	0.007	0.085	0.04	0.045	0.1	0.23
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/21/88	17 ##	0.5	0.426	0.5	0.25	0.014	0.117	0.25	0.25	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/21/88	16 ##	0.5	0.422	0.5	0.25	0.014	0.12	0.25	0.25	0.5	0.5
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	128	22.5	81.281	3181.	3.	91622.708	302.692	9.	13.	40.	146.9
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	97	0.03	2.33	103.	0.	129.896	11.397	0.	0.01	0.26	4.02

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0003

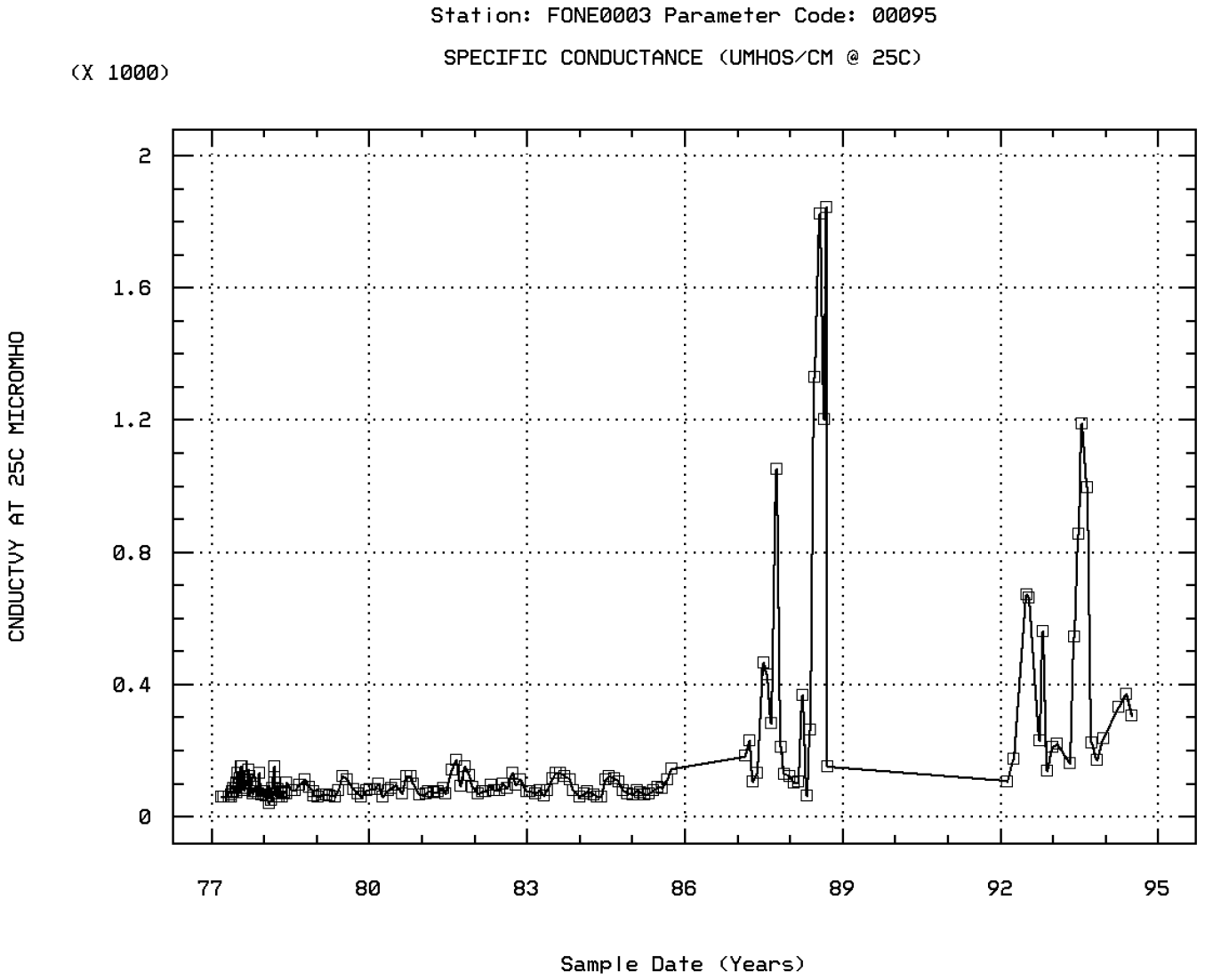
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	1	0	0.00				4	0	0.00			
00400	PH	Other-Hi Lim.	9.	177	0	0.00	60	0	0.00	55	0	0.00	62	0	0.00			
		Other-Lo Lim.	6.5	177	65	0.37	60	18	0.30	55	27	0.49	62	20	0.32			
00403	PH, LAB	Other-Hi Lim.	9.	40	0	0.00	15	0	0.00	10	0	0.00	15	0	0.00			
		Other-Lo Lim.	6.5	40	23	0.58	15	5	0.33	10	8	0.80	15	10	0.67			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	35	0	0.00	10	0	0.00	10	0	0.00	15	0	0.00			
		Drinking Water	250.	35	0	0.00	10	0	0.00	10	0	0.00	15	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	176	11	0.06	58	8	0.14	56	0	0.00	62	3	0.05			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	31	0	0.00	10	0	0.00	9	0	0.00	12	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	16	0	0.00	6	0	0.00	3	0	0.00	7	0	0.00			
		Drinking Water	50.	16	0	0.00	6	0	0.00	3	0	0.00	7	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	15	0	0.00	6	0	0.00	2	0	0.00	7	0	0.00			
		Drinking Water	50.	15	0	0.00	6	0	0.00	2	0	0.00	7	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	12 &	1	0.08	5	1	0.20	2	0	0.00	5	0	0.00			
		Drinking Water	5.	12 &	0	0.00	5	0	0.00	2	0	0.00	5	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	13	3	0.23	5	1	0.20	2	0	0.00	6	2	0.33			
		Drinking Water	5.	13	3	0.23	5	1	0.20	2	0	0.00	6	2	0.33			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	18	0	0.00	8	0	0.00	3	0	0.00	7	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	17	0	0.00	8	0	0.00	2	0	0.00	7	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	18	0	0.00	8	0	0.00	3	0	0.00	7	0	0.00			
		Drinking Water	1300.	18	0	0.00	8	0	0.00	3	0	0.00	7	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

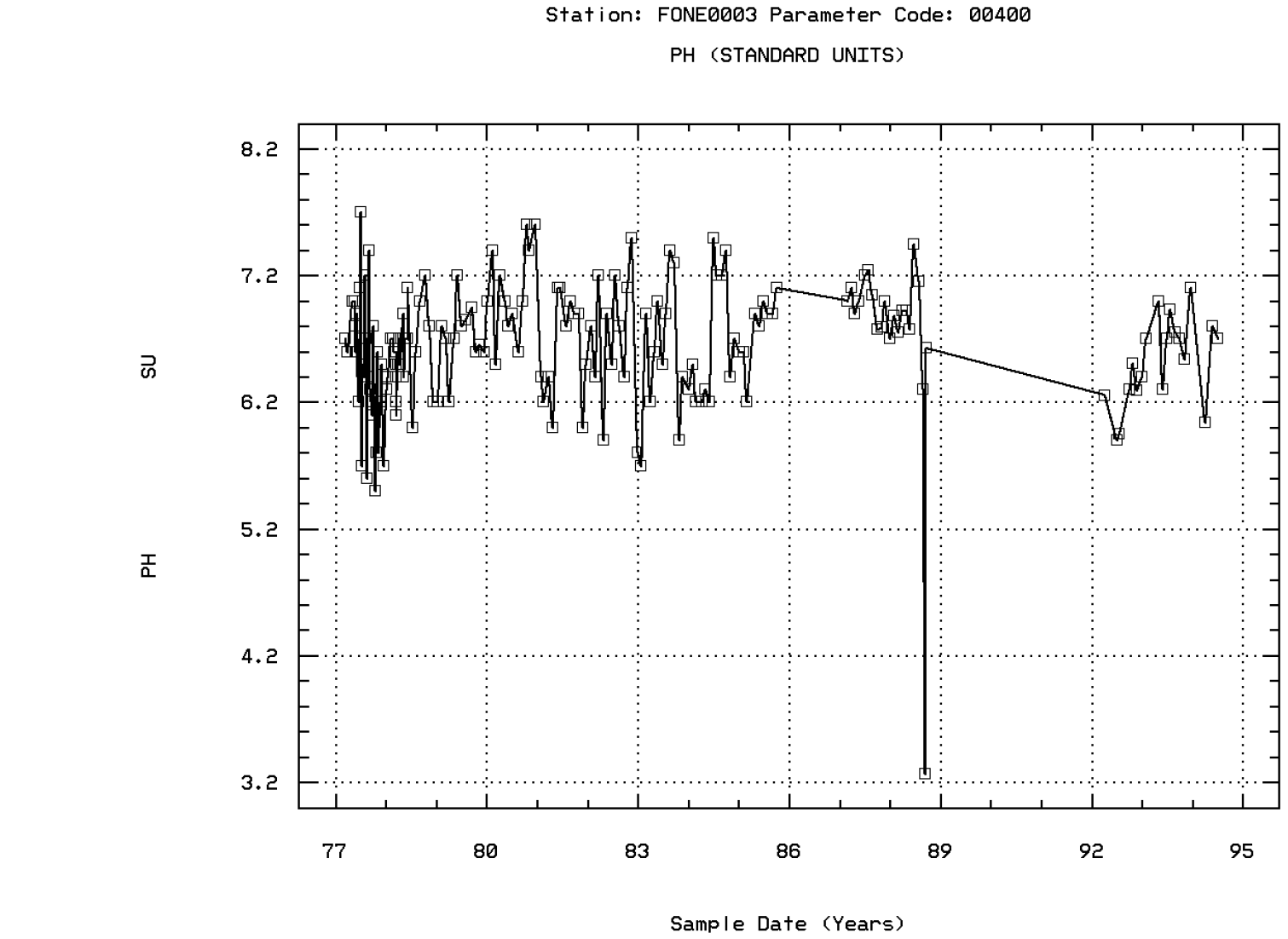
EPA Water Quality Criteria Analysis for Station: FONE0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01042	COPPER, TOTAL	Fresh Acute	18.	17	0	0.00	8	0	0.00	2	0	0.00	7	0	0.00			
		Drinking Water	1300.	17	0	0.00	8	0	0.00	2	0	0.00	7	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	14	0	0.00	5	0	0.00	3	0	0.00	6	0	0.00			
		Drinking Water	15.	11 &	0	0.00	4	0	0.00	2	0	0.00	5	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	13	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	15.	11 &	0	0.00	4	0	0.00	2	0	0.00	5	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	18	0	0.00	8	0	0.00	3	0	0.00	7	0	0.00			
		Drinking Water	100.	18	0	0.00	8	0	0.00	3	0	0.00	7	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	17	0	0.00	8	0	0.00	2	0	0.00	7	0	0.00			
		Drinking Water	100.	17	0	0.00	8	0	0.00	2	0	0.00	7	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	125	4	0.03	40	2	0.05	42	1	0.02	43	1	0.02			
		Drinking Water	5000.	125	0	0.00	40	0	0.00	42	0	0.00	43	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	128	4	0.03	44	3	0.07	41	0	0.00	43	1	0.02			
		Drinking Water	5000.	128	0	0.00	44	0	0.00	41	0	0.00	43	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	16	0	0.00	6	0	0.00	3	0	0.00	7	0	0.00			
		Drinking Water	50.	16	0	0.00	6	0	0.00	3	0	0.00	7	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	15	0	0.00	6	0	0.00	2	0	0.00	7	0	0.00			
		Drinking Water	50.	15	0	0.00	6	0	0.00	2	0	0.00	7	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	17	0	0.00	7	0	0.00	3	0	0.00	7	0	0.00			
		Drinking Water	2.	17	0	0.00	7	0	0.00	3	0	0.00	7	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	16	0	0.00	7	0	0.00	2	0	0.00	7	0	0.00			
		Drinking Water	2.	16	0	0.00	7	0	0.00	2	0	0.00	7	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



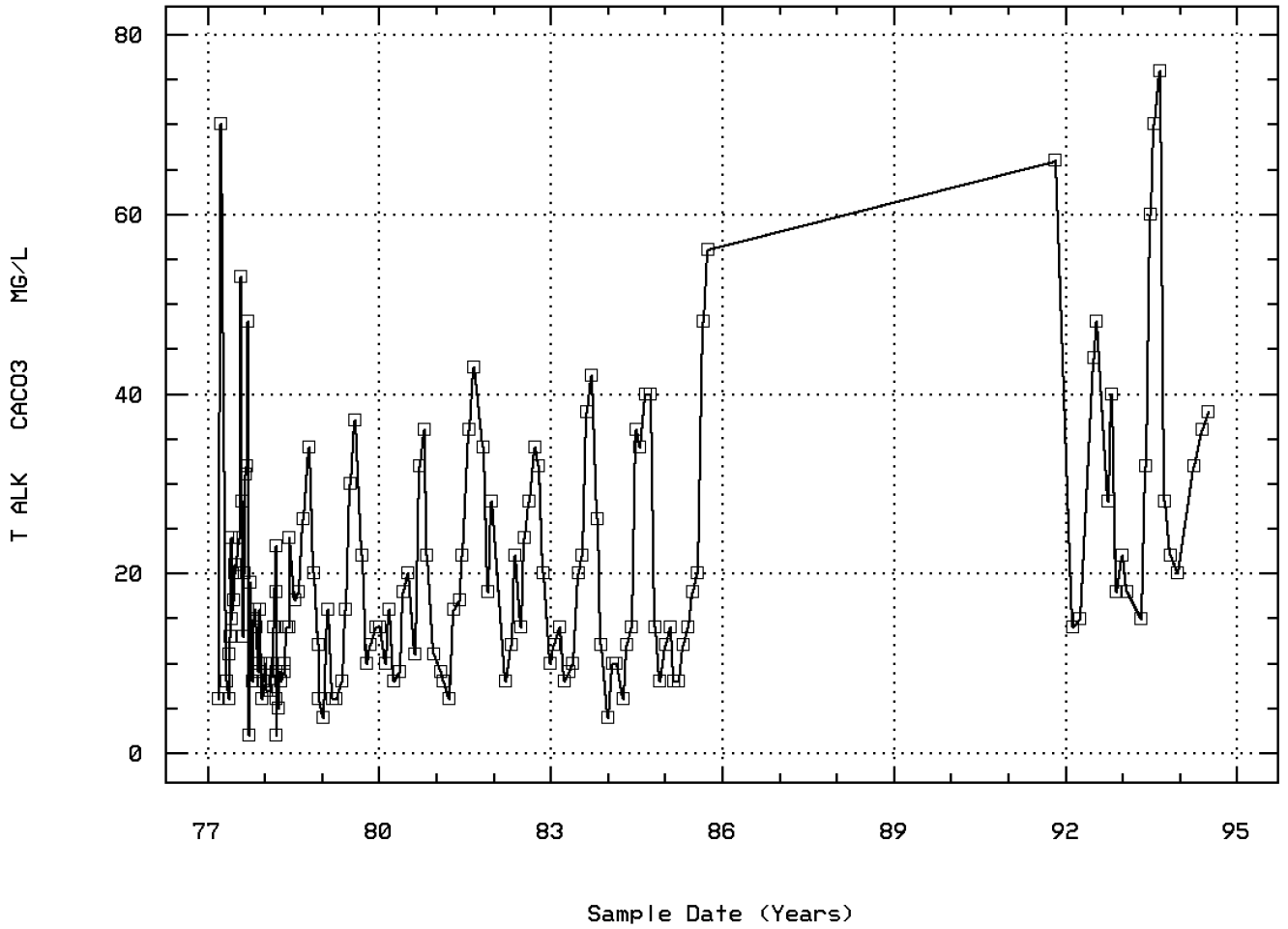
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 00410

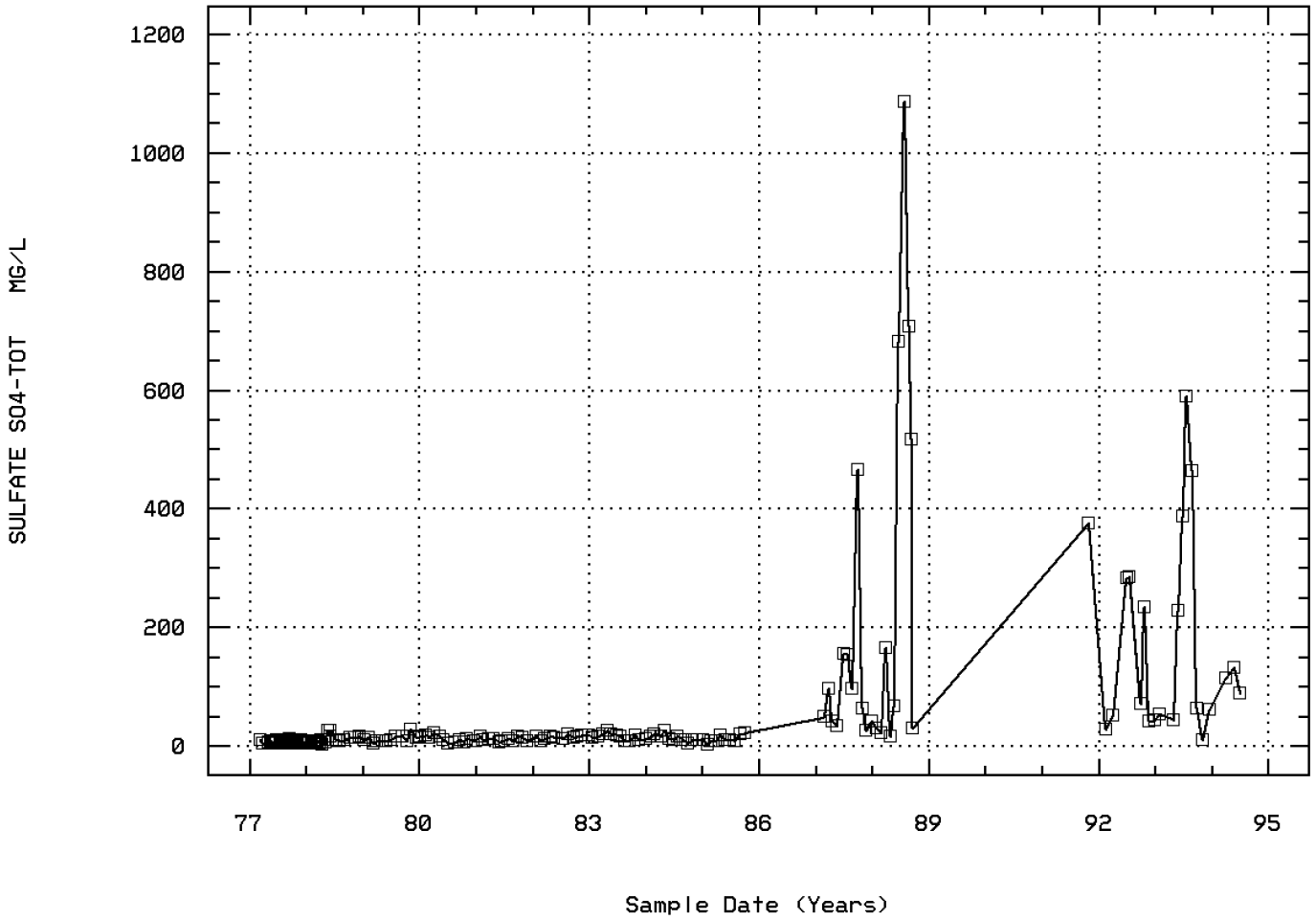
ALKALINITY, TOTAL (MG/L AS CACO3)



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 00945

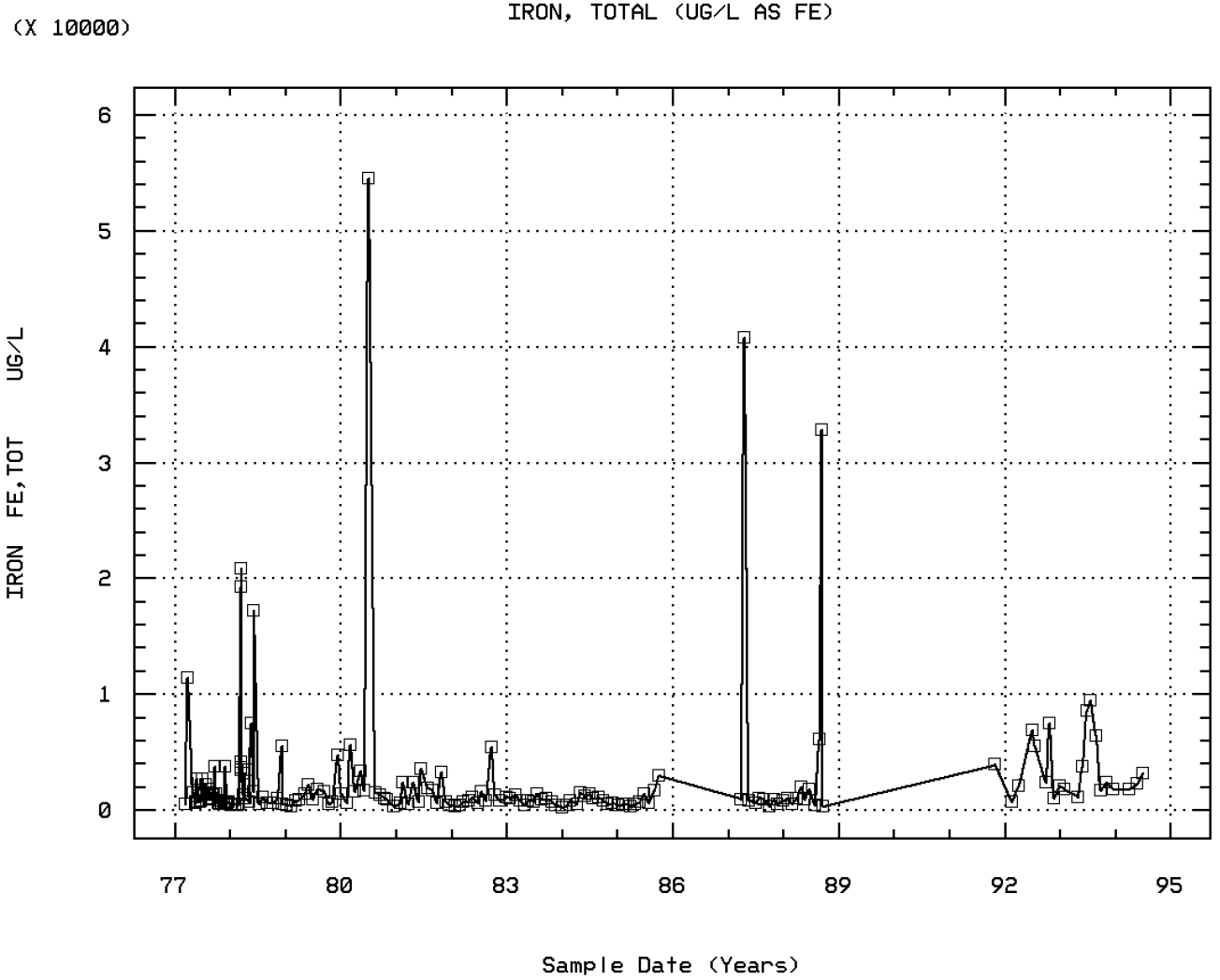
SULFATE, TOTAL (MG/L AS SO4)



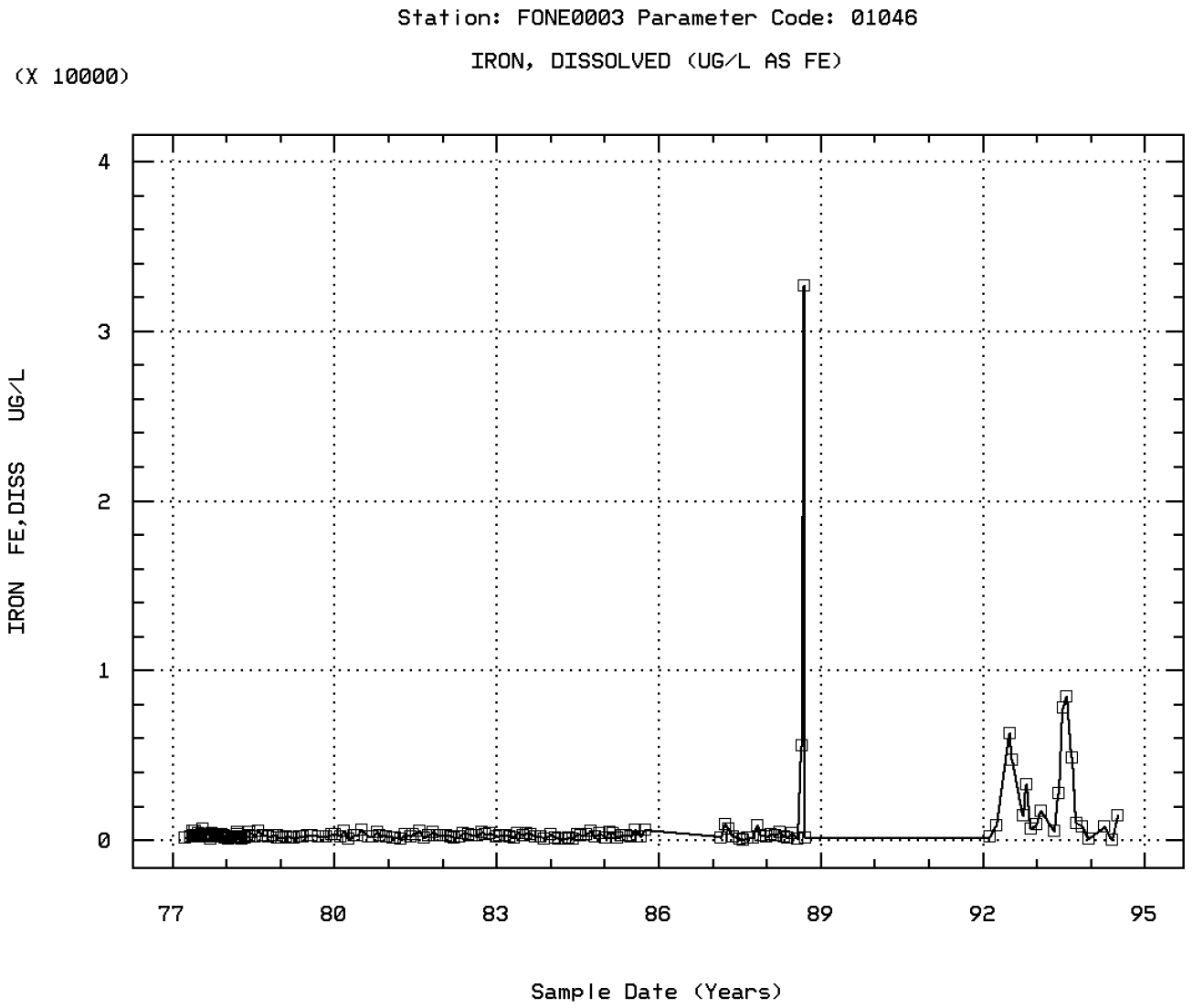
STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01045

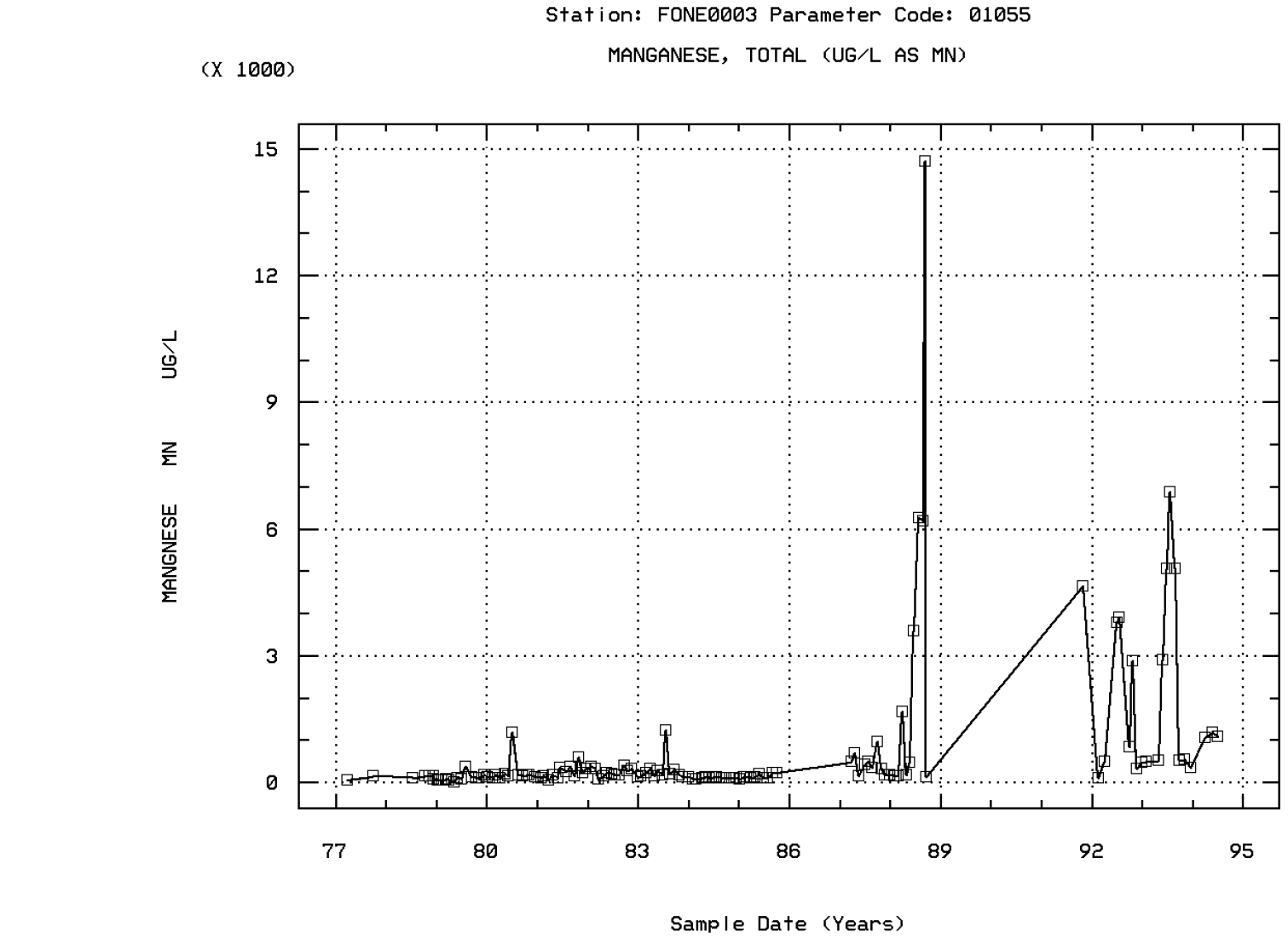
IRON, TOTAL (UG/L AS FE)



STONY FORK TRIB NR GIBBON GLADE, PA (67



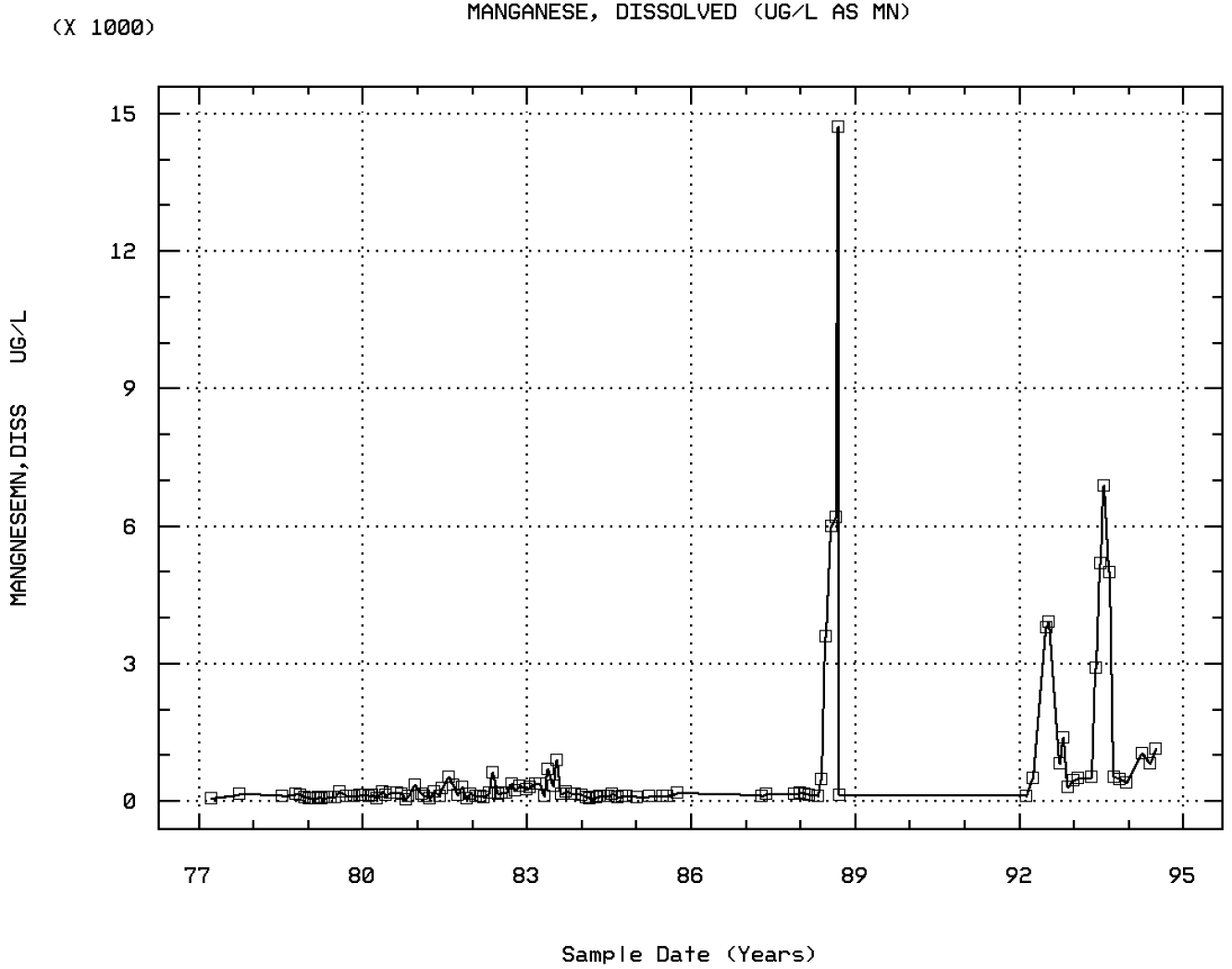
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01056

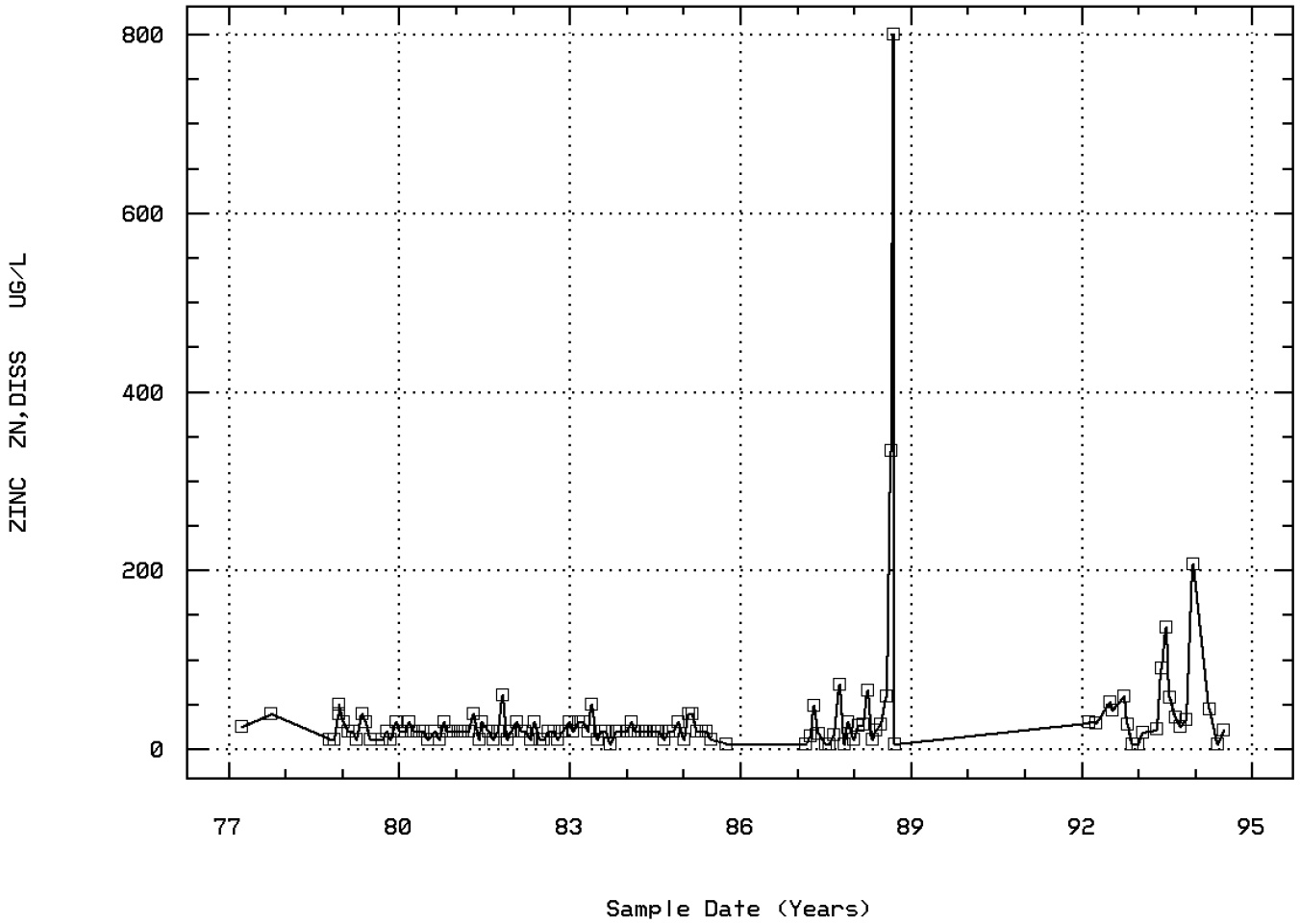
MANGANESE, DISSOLVED (UG/L AS MN)



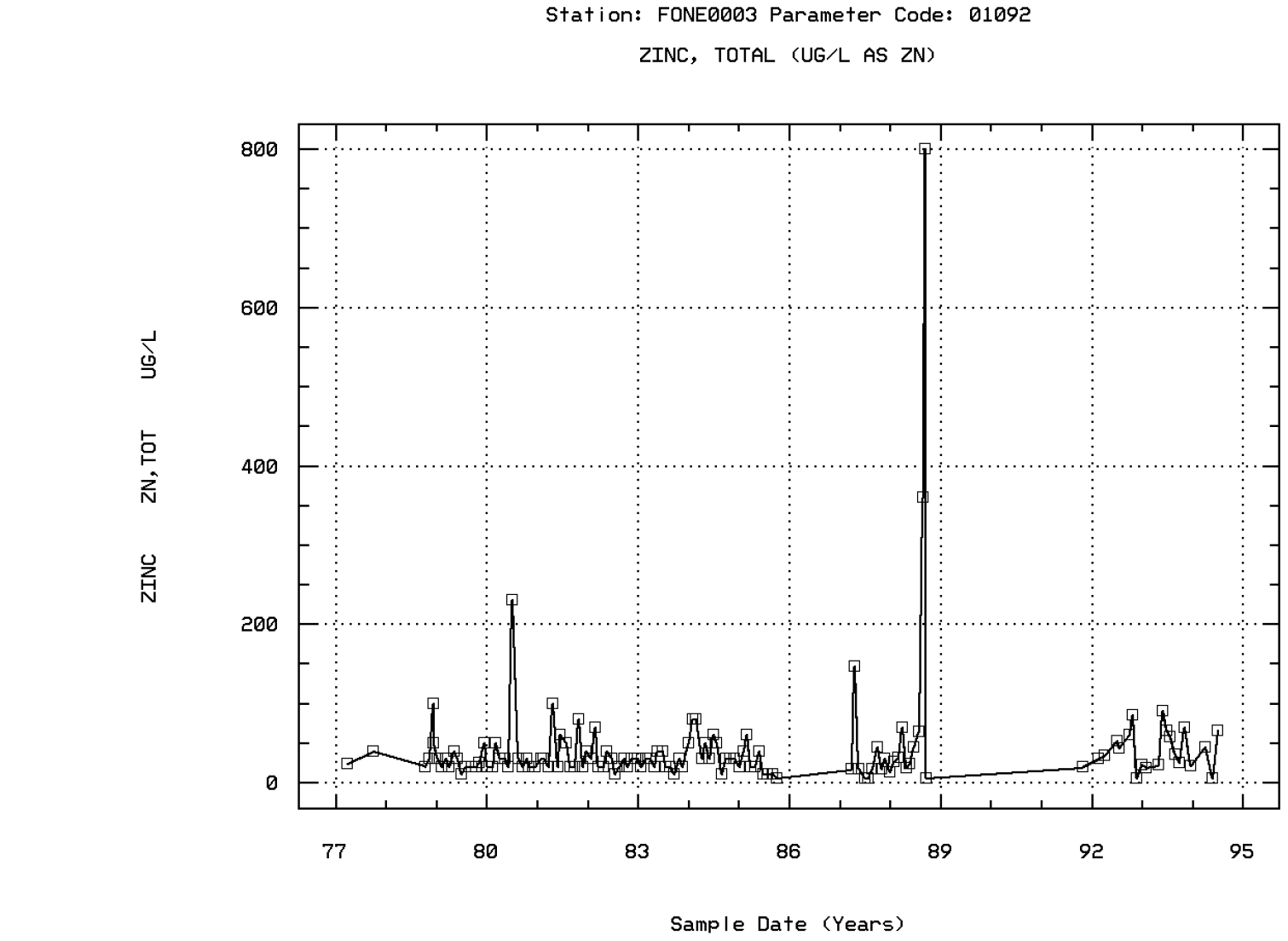
STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01090

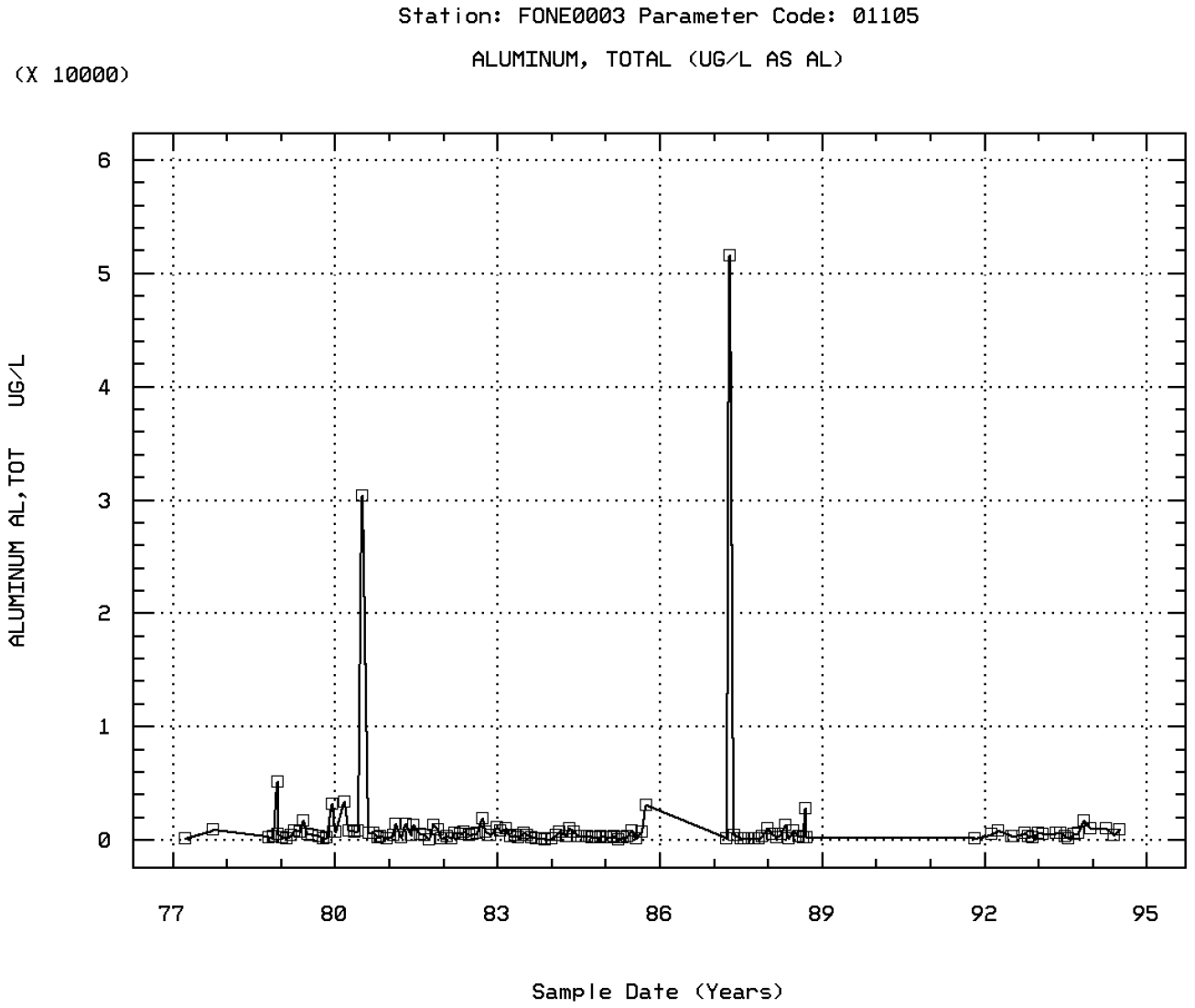
ZINC, DISSOLVED (UG/L AS ZN)



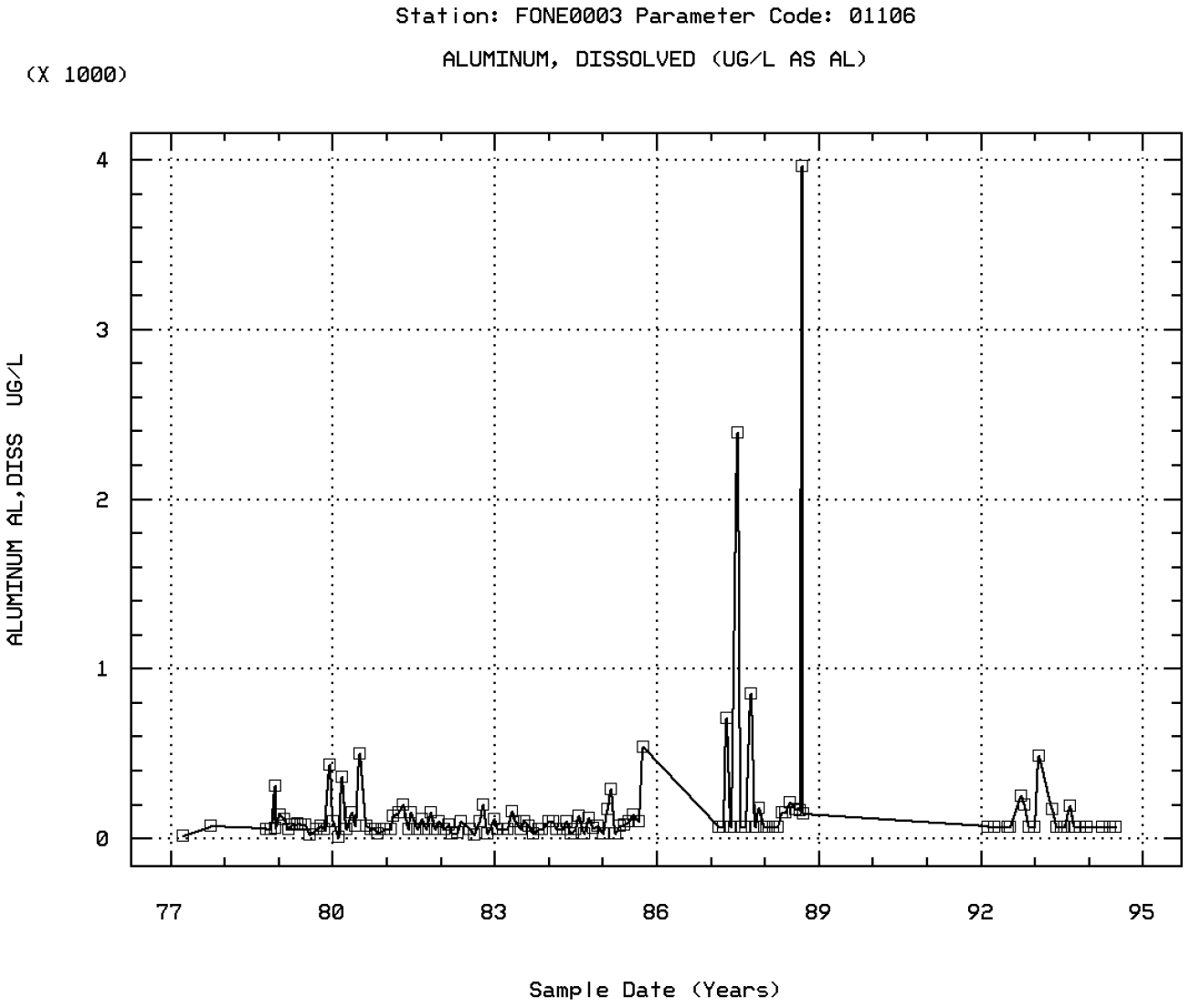
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67

Annual Analysis for 1977 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	33	17.5	15.621	27.5	1.	42.891	6.549	6.	11.5	20.	23.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	29	0.3	0.659	4.	0.03	0.983	0.991	0.05	0.095	0.95	1.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	29	1.4	1.401	1.65	1.2	0.014	0.12	1.21	1.32	1.49	1.52
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	33	85.	90.879	150.	58.	738.672	27.179	59.4	69.	109.	136.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	32	6.55	6.484	7.7	5.5	0.282	0.531	5.7	6.2	6.8	7.17
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	32	6.547	6.193	7.7	5.5	0.37	0.608	5.7	6.2	6.8	7.17
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	32	0.284	0.642	3.162	0.02	0.632	0.795	0.068	0.158	0.631	1.995
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	30	15.5	19.433	70.	2.	227.495	15.083	6.	8.75	24.	46.4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	11	3.	3.182	10.	0.	9.164	3.027	0.	0.	5.	9.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	30	7.	7.133	12.	4.	4.947	2.224	4.	5.	9.	10.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	33	1140.	1583.333	11350.	480.	3798816.667	1949.055	550.	670.	1490.	3294.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	32	265.	279.844	660.	90.	15204.007	123.305	138.	200.	327.5	482.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	2	110.	110.	160.	60.	5000.	70.711	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	2	97.5	97.5	150.	45.	5512.5	74.246	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	2	32.5	32.5	40.	25.	112.5	10.607	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	2	32.	32.	40.	24.	128.	11.314	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	2	488.5	488.5	860.	117.	276024.5	525.38	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	2	42.5	42.5	70.	15.	1512.5	38.891	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	26	21.5	30.538	162.	5.	945.618	30.751	9.7	15.75	34.	60.7
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	24	0.01	0.105	1.7	0.	0.12	0.346	0.	0.003	0.03	0.23

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	25	6.5	7.2	20.5	0.3	43.933	6.628	0.5	0.5	13.75	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	25	2.	4.35	17.	0.06	27.729	5.266	0.2	0.45	7.	13.6
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	23	1.57	1.595	2.02	1.2	0.051	0.225	1.354	1.4	1.78	1.948
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	25	77.	80.36	150.	40.	562.407	23.715	54.8	63.5	92.5	114.4
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	25	6.6	6.56	7.2	6.	0.093	0.306	6.16	6.35	6.7	7.04
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	25	6.6	6.463	7.2	6.	0.103	0.321	6.16	6.35	6.7	7.04
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	25	0.251	0.344	1.	0.063	0.056	0.236	0.092	0.2	0.45	0.696
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	25	10.	13.28	34.	2.	58.46	7.646	5.6	7.5	18.	24.8
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	19	4.	4.737	8.	2.	2.316	1.522	3.	4.	6.	7.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	25	8.	10.	25.	3.	32.667	5.715	4.6	6.5	14.	19.6
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	25	1130.	3966.8	20800.	390.	36156839.333	6013.056	440.	515.	3880.	18040.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	25	200.	228.8	510.	100.	12019.333	109.633	106.	150.	275.	440.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	5	140.	126.	160.	70.	1330.	36.469	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	5	100.	102.	140.	70.	1070.	32.711	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	4 ##	25.	27.5	50.	10.	425.	20.616	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	4	40.	50.	100.	20.	1266.667	35.59	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	4	380.	1510.	5080.	200.	5675866.667	2382.408	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	4	55.	117.5	310.	50.	16491.667	128.42	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	23	40.	157.957	984.	5.	61366.134	247.722	9.4	18.	169.	619.4
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	23	0.11	3.91	43.	0.01	82.005	9.056	0.01	0.02	4.	9.18

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	10.25	11.292	22.	0.	51.43	7.171	0.3	7.	17.375	21.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	12	1.	2.24	12.	0.08	11.067	3.327	0.116	0.425	3.	9.6
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	11	1.5	1.513	1.88	1.25	0.026	0.161	1.28	1.42	1.59	1.83

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	67.5	76.167	120.	60.	394.333	19.858	60.	61.	81.5	117.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.7	6.688	7.2	6.2	0.08	0.282	6.2	6.6	6.837	7.125
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.7	6.599	7.2	6.2	0.088	0.297	6.2	6.6	6.837	7.125
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.2	0.252	0.631	0.063	0.034	0.185	0.078	0.146	0.251	0.631
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	13.	15.083	37.	4.	102.447	10.122	4.6	6.5	20.5	34.9
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	4.	3.75	5.	3.	0.386	0.622	3.	3.	4.	4.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	12	10.	11.75	28.	5.	36.023	6.002	5.9	8.	14.5	24.1
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	870.	1326.667	4700.	280.	1453333.333	1205.543	322.	550.	1695.	3929.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	180.	187.5	300.	110.	3856.818	62.103	110.	125.	245.	288.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	85.	108.75	380.	5.	9046.023	95.111	21.5	60.	115.	320.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	12	80.	90.	190.	50.	1545.455	39.312	50.	62.5	100.	172.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	11	20.	20.909	40.	10.	109.091	10.445	10.	10.	30.	38.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	22.5	26.25	50.	10.	114.205	10.687	13.	20.	30.	47.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	415.	716.667	3130.	150.	752096.97	867.235	150.	220.	737.5	2692.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	12	80.	103.583	430.	20.	11521.356	107.338	29.	50.	103.25	343.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	25.	39.167	186.	4.	2454.879	49.547	6.1	12.25	43.	150.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	12	0.08	0.594	6.	0.	2.908	1.705	0.003	0.015	0.238	4.29

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	10.75	9.875	20.	0.5	48.824	6.987	0.8	2.375	16.375	19.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	12	0.9	3.163	12.	0.06	18.45	4.295	0.072	0.225	6.75	11.4
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	6	1.51	1.568	1.88	1.32	0.047	0.216	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	84.5	87.917	120.	60.	378.083	19.444	61.5	71.	99.25	120.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	7.	7.083	7.6	6.5	0.132	0.364	6.53	6.825	7.4	7.6
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	7.	6.951	7.6	6.5	0.152	0.389	6.53	6.825	7.4	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.1	0.112	0.316	0.025	0.008	0.091	0.025	0.04	0.15	0.297
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	15.	17.25	36.	8.	81.477	9.026	8.3	10.25	21.5	34.8
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	5.	5.667	12.	4.	5.515	2.348	4.	4.	6.75	10.5
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	12	10.5	11.667	22.	4.	29.879	5.466	4.6	6.5	16.	20.8
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	1410.	6139.167	54500.	330.	234012626.515	15297.471	414.	930.	2942.5	39839.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	265.	305.833	600.	100.	23190.152	152.283	127.	210.	435.	582.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	155.	231.667	1180.	90.	90469.697	300.782	90.	120.	180.	886.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	12	125.	138.333	340.	20.	6687.879	81.779	29.	92.5	177.5	298.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	12	20.	20.	30.	10.	36.364	6.03	10.	20.	20.	30.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	25.	43.333	230.	20.	3533.333	59.442	20.	20.	30.	176.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	11	710.	3493.636	30310.	70.	79887525.455	8937.982	90.	310.	830.	24920.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	12	60.	123.333	500.	5.	22728.788	150.761	11.	50.	137.5	458.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	45.	362.545	3181.	10.	893220.073	945.103	10.2	11.	73.	2643.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	11	0.1	10.776	103.	0.	950.344	30.828	0.	0.01	1.6	85.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	9.75	10.125	22.	0.	55.824	7.472	0.	4.25	17.5	21.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	12	0.85	2.135	9.	0.02	8.346	2.889	0.074	0.45	2.75	8.4
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	3	1.45	1.483	1.56	1.44	0.004	0.067	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	87.5	101.25	170.	70.	1255.841	35.438	70.	72.75	136.25	164.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.65	6.608	7.1	6.	0.168	0.41	6.	6.25	6.975	7.1
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.625	6.434	7.1	6.	0.201	0.448	6.	6.25	6.975	7.1

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.237	0.368	1.	0.079	0.116	0.34	0.079	0.106	0.573	1.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	11	18.	21.545	43.	6.	151.273	12.299	6.4	9.	34.	41.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	11	7.	7.	12.	3.	6.8	2.608	3.4	5.	8.	11.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	11	11.	11.091	16.	7.	10.491	3.239	7.2	8.	14.	16.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	1170.	1543.333	3550.	430.	1292660.606	1136.952	448.	562.5	2395.	3466.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	255.	258.333	510.	90.	19633.333	140.119	96.	127.5	337.5	504.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	200.	235.	590.	60.	22481.818	149.939	69.	117.5	332.5	524.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	12	160.	199.167	510.	60.	18335.606	135.409	60.	92.5	290.	462.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	12	20.	23.333	60.	10.	206.061	14.355	10.	12.5	27.5	54.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	30.	40.833	100.	20.	717.424	26.785	20.	20.	57.5	94.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	420.	688.333	1400.	50.	281796.97	530.846	80.	240.	1310.	1400.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	12	105.	104.083	200.	50.	2765.902	52.592	50.	50.	150.	185.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	22.	43.333	170.	3.	2433.879	49.334	3.9	9.25	62.25	148.1
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	12	0.045	0.559	4.1	0.	1.532	1.238	0.	0.02	0.323	3.44

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Annual Analysis for 1982 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	12.	11.875	20.5	2.	31.051	5.572	2.9	7.	17.125	19.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	12	0.4	0.967	4.	0.2	1.344	1.159	0.2	0.225	1.75	3.4
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	12	1.39	1.432	1.68	1.32	0.013	0.114	1.32	1.343	1.53	1.641
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	82.5	89.	130.	70.	316.545	17.792	71.5	75.	98.75	124.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.8	6.708	7.5	5.8	0.275	0.525	5.83	6.4	7.175	7.41
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.8	6.413	7.5	5.8	0.371	0.609	5.83	6.4	7.175	7.41
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.158	0.386	1.585	0.032	0.255	0.505	0.041	0.067	0.398	1.487
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	17.	17.167	34.	1.	126.697	11.256	1.	8.5	27.	33.4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	4.	5.083	12.	2.	10.811	3.288	2.	2.25	7.5	11.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	11	16.	14.909	20.	8.	11.491	3.39	8.8	12.	18.	19.6
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	815.	1240.833	5380.	290.	1833153.788	1353.94	320.	645.	1272.5	4240.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	275.	289.167	440.	150.	10353.788	101.754	156.	192.5	390.	437.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	205.	230.833	390.	80.	9717.424	98.577	95.	162.5	317.5	384.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	12	175.	229.167	620.	80.	22681.061	150.602	86.	122.5	292.5	548.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	12	20.	19.167	30.	10.	62.879	7.93	10.	10.	27.5	30.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	30.	29.167	70.	10.	226.515	15.05	13.	20.	30.	61.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	535.	651.667	1880.	150.	202342.424	449.825	204.	422.5	715.	1640.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	11	50.	71.818	200.	20.	2931.364	54.142	21.	25.	100.	182.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	19.	25.667	105.	6.	693.152	26.328	6.9	12.25	28.25	84.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	12	0.025	0.059	0.35	0.01	0.009	0.095	0.01	0.013	0.058	0.275

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Annual Analysis for 1983 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	11	11.	12.909	25.	1.5	64.241	8.015	1.8	6.	20.	24.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	11	0.8	1.283	4.	0.02	1.521	1.233	0.034	0.1	2.	3.6
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	11	1.47	1.455	1.67	1.2	0.021	0.145	1.216	1.31	1.56	1.652
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	11	80.	95.727	130.	63.	641.818	25.334	64.4	75.	120.	130.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	11	6.6	6.618	7.4	5.7	0.298	0.546	5.74	6.2	7.	7.38
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	11	6.6	6.318	7.4	5.7	0.397	0.63	5.74	6.2	7.	7.38
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	11	0.251	0.481	1.995	0.04	0.379	0.615	0.042	0.1	0.631	1.848
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	11	14.	19.364	42.	8.	137.255	11.716	8.2	10.	26.	41.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	4	10.	10.	16.	4.	34.667	5.888	**	**	**	**

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Annual Analysis for 1983 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	11	16.	15.727	25.	8.	28.818	5.368	8.	10.	20.	24.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	11	790.	843.636	1350.	360.	100605.455	317.184	374.	670.	1020.	1346.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	11	250.	247.273	410.	90.	10421.818	102.087	98.	170.	320.	408.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	11	190.	302.727	1240.	130.	100681.818	317.304	134.	160.	300.	1058.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	11	300.	338.182	880.	110.	59976.364	244.901	118.	150.	380.	842.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	11	20.	22.273	50.	5.	136.818	11.697	6.	20.	30.	46.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	11	20.	25.455	40.	10.	87.273	9.342	12.	20.	30.	40.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	11	350.	381.818	1000.	50.	91116.364	301.855	60.	150.	640.	952.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	11	50.	69.091	160.	25.	1414.091	37.604	30.	50.	100.	148.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	22.	19.818	32.	7.	81.364	9.02	7.6	10.	28.	31.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-03/28/83	3	0.16	0.167	0.28	0.06	0.012	0.11	**	**	**	**

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Annual Analysis for 1984 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	10.5	11.167	21.	0.5	39.47	6.282	0.95	7.5	16.625	20.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	10	0.95	1.266	3.	0.08	1.553	1.246	0.08	0.245	3.	3.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	12	1.51	1.49	1.77	1.27	0.022	0.149	1.27	1.365	1.6	1.719
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	72.5	82.5	120.	60.	538.636	23.209	60.	61.25	108.75	118.5
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.45	6.675	7.5	6.2	0.257	0.507	6.2	6.225	7.2	7.47
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.447	6.476	7.5	6.2	0.3	0.547	6.2	6.225	7.2	7.47
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.357	0.334	0.631	0.032	0.061	0.246	0.034	0.063	0.599	0.631
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	13.	19.	40.	4.	197.455	14.052	4.6	8.5	35.5	40.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	12	12.	13.417	25.	5.	28.629	5.351	6.5	10.	16.	23.5
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	810.	815.	1470.	220.	162609.091	403.248	265.	465.	1127.5	1440.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	230.	237.5	510.	90.	18784.091	137.055	90.	105.	307.5	480.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	110.	106.667	130.	70.	387.879	19.695	73.	92.5	127.5	130.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	11	90.	92.727	140.	60.	501.818	22.401	62.	80.	100.	136.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	12	20.	20.833	30.	10.	26.515	5.149	13.	20.	20.	30.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	40.	44.167	80.	10.	462.879	21.515	16.	30.	57.5	80.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	305.	406.667	1030.	150.	68751.515	262.205	168.	222.5	622.5	928.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	12	65.	73.333	130.	25.	1274.242	35.697	25.	50.	100.	127.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	13.	25.	83.	10.	484.	22.	10.2	11.	35.	74.4

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Annual Analysis for 1985 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	10	15.	12.6	20.	1.5	45.711	6.761	1.8	4.875	18.5	20.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	10	1.455	1.433	1.7	1.17	0.024	0.154	1.178	1.31	1.52	1.685
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	10	80.	86.5	145.	65.	596.722	24.428	65.2	69.25	95.	141.5
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	9	6.9	6.778	7.1	6.2	0.074	0.273	6.2	6.6	6.95	7.1
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	9	6.9	6.687	7.1	6.2	0.084	0.289	6.2	6.6	6.95	7.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	9	0.126	0.205	0.631	0.079	0.029	0.171	0.079	0.113	0.251	0.631
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	10	14.	21.	56.	8.	284.667	16.872	8.	11.	27.	55.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	10	10.	11.65	22.	2.5	38.781	6.227	3.05	8.	18.5	21.8
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	10	575.	944.	2910.	340.	677315.556	822.992	344.	440.	1472.5	2785.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	10	285.	332.	600.	110.	30595.556	174.916	115.	190.	500.	599.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	10	125.	136.	220.	80.	2982.222	54.61	81.	90.	197.5	220.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	5	90.	104.	180.	70.	1880.	43.359	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	8	20.	20.625	40.	5.	174.554	13.212	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	10	20.	23.5	60.	5.	311.389	17.646	5.5	10.	40.	58.

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Annual Analysis for 1985 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	10	265.	593.	3020.	50.	782134.444	884.384	59.	185.	735.	2793.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	10	100.	154.	540.	25.	24398.889	156.201	25.	58.75	200.	515.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	10	22.5	19.8	32.	6.	98.4	9.92	6.2	8.75	28.	31.9

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	11	9.	11.264	21.5	1.7	52.267	7.23	1.76	4.5	17.2	21.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	11	0.2	1.097	7.	0.03	4.548	2.133	0.034	0.09	0.5	6.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	11	210.	303.	1050.	104.	76280.4	276.189	107.2	128.	430.	933.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	11	7.	6.978	7.24	6.7	0.03	0.172	6.716	6.79	7.1	7.232
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	11	7.	6.947	7.24	6.7	0.031	0.176	6.716	6.79	7.1	7.232
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	11	0.1	0.113	0.2	0.058	0.002	0.045	0.059	0.079	0.162	0.193
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	11	64.	111.273	466.	26.	15910.218	126.136	27.6	41.	153.	404.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	10	839.5	4753.1	40800.	334.	160459915.656	12667.277	351.2	584.	948.5	36821.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	11	178.	328.182	890.	34.	97724.964	312.61	45.4	133.	655.	881.4
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	10	385.5	423.8	953.	138.	64610.844	254.187	142.3	181.75	552.	927.6
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	4	143.5	139.5	166.	105.	661.667	25.723	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	11	15.	20.818	72.	5.	468.764	21.651	5.	5.	30.	67.4
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	10	17.	31.3	147.	5.	1790.233	42.311	5.	11.	33.75	136.8
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	10	142.	5389.	51600.	67.5	263723362.778	16239.562	67.5	67.5	571.5	46542.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	11 ##	67.5	418.136	2390.	67.5	508140.455	712.84	67.5	67.5	710.	2082.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1988 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	10	14.8	14.02	21.	2.	43.491	6.595	2.15	11.	20.25	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	10	0.75	0.685	2.	0.	0.401	0.633	0.005	0.088	1.	1.9
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	10	314.	724.5	1842.	63.	547861.167	740.176	67.	104.5	1453.5	1840.2
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	10	6.83	6.505	7.45	3.27	1.384	1.176	3.573	6.547	6.978	7.42
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	10	6.827	4.269	7.45	3.27	6.94	2.634	3.573	6.547	6.977	7.42
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	10	0.149	53.859	537.032	0.035	28821.742	169.77	0.039	0.108	0.301	483.379
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	10	115.5	332.	1087.	15.	149513.556	386.67	15.7	27.25	688.25	1049.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	10	994.	4681.9	32800.	296.	100468527.878	10023.399	309.3	513.	3015.	30129.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	10	272.5	4024.7	32700.	59.	104341783.122	10214.783	63.6	139.5	1749.	29988.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	10	1079.	3352.	14700.	135.	21932569.556	4683.222	136.6	157.75	6210.	13857.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	9	470.	3492.333	14700.	94.	24196519.25	4918.996	94.	131.	6085.	14700.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	10	27.	137.5	800.	5.	63657.833	252.305	5.6	18.5	132.25	753.4
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	10	37.5	144.1	800.	5.	63922.989	252.83	6.3	22.5	141.75	756.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	10	391.	685.9	2710.	152.	632545.878	795.328	153.2	200.	945.25	2566.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	10	151.5	515.25	3960.	67.5	1467407.681	1211.366	67.5	67.5	180.75	3585.

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Annual Analysis for 1991 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	1	66.	66.	66.	66.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1991 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	1	376.	376.	376.	376.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	1	3920.	3920.	3920.	3920.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	1	4630.	4630.	4630.	4630.	0.	0.	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	1 ##	67.5	67.5	67.5	67.5	0.	0.	**	**	**	**

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Annual Analysis for 1992 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	8	10.8	11.238	19.	4.4	22.143	4.706	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	8	0.85	1.5	7.	0.1	5.36	2.315	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	8	219.	343.	670.	104.	59018.286	242.937	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	7	6.29	6.229	6.51	5.9	0.051	0.225	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	7	6.29	6.176	6.51	5.9	0.054	0.232	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	7	0.513	0.666	1.259	0.309	0.137	0.37	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	8	25.	28.625	48.	14.	185.411	13.617	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	8	61.5	129.375	284.	27.	13248.554	115.102	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	8	2250.	3515.75	7460.	666.	7287995.929	2699.629	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	8	1190.5	2304.875	6270.	188.	4921642.411	2218.477	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	8	665.5	1598.375	3900.	110.	2671275.411	1634.404	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	8	655.	1403.75	3900.	105.	2417885.643	1554.955	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	8	29.5	31.5	59.	5.	396.571	19.914	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	8	38.5	41.5	85.	5.	610.	24.698	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	8	396.	445.125	817.	196.	44336.125	210.561	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	8 ##	67.5	107.125	252.	67.5	5576.482	74.676	**	**	**	**

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Annual Analysis for 1993 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	9	15.	12.089	18.	1.3	37.161	6.096	1.3	6.05	16.75	18.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	9	0.7	0.897	2.	0.04	0.788	0.888	0.04	0.065	2.	2.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	9	235.	510.222	1189.	161.	162073.194	402.583	161.	195.	925.	1189.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	9	6.7	6.747	7.1	6.3	0.059	0.243	6.3	6.62	6.965	7.1
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	9	6.7	6.684	7.1	6.3	0.063	0.252	6.3	6.62	6.965	7.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	9	0.2	0.207	0.501	0.079	0.016	0.127	0.079	0.109	0.244	0.501
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	9	28.	37.889	76.	15.	574.611	23.971	15.	19.	65.	76.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	9	64.	211.111	590.	10.	47030.611	216.865	10.	48.5	425.5	590.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	9	2340.	4083.333	9430.	1130.	10383075.	3222.278	1130.	1685.	7500.	9430.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	9	1680.	3107.111	8480.	79.	10198739.861	3193.547	79.	668.5	6325.	8480.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	9	530.	2481.889	6880.	352.	6585221.611	2566.169	352.	514.	5055.	6880.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	9	529.	2485.889	6880.	402.	6624995.361	2573.907	402.	484.	5080.	6880.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	9	36.	69.667	207.	18.	4146.5	64.393	18.	24.	113.5	207.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	9	36.	45.333	91.	18.	702.5	26.505	18.	22.	68.	91.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	9	547.	629.722	1640.	67.5	196451.694	443.229	67.5	401.5	760.5	1640.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	9 ##	67.5	139.333	486.	67.5	19359.313	139.138	67.5	67.5	181.5	486.

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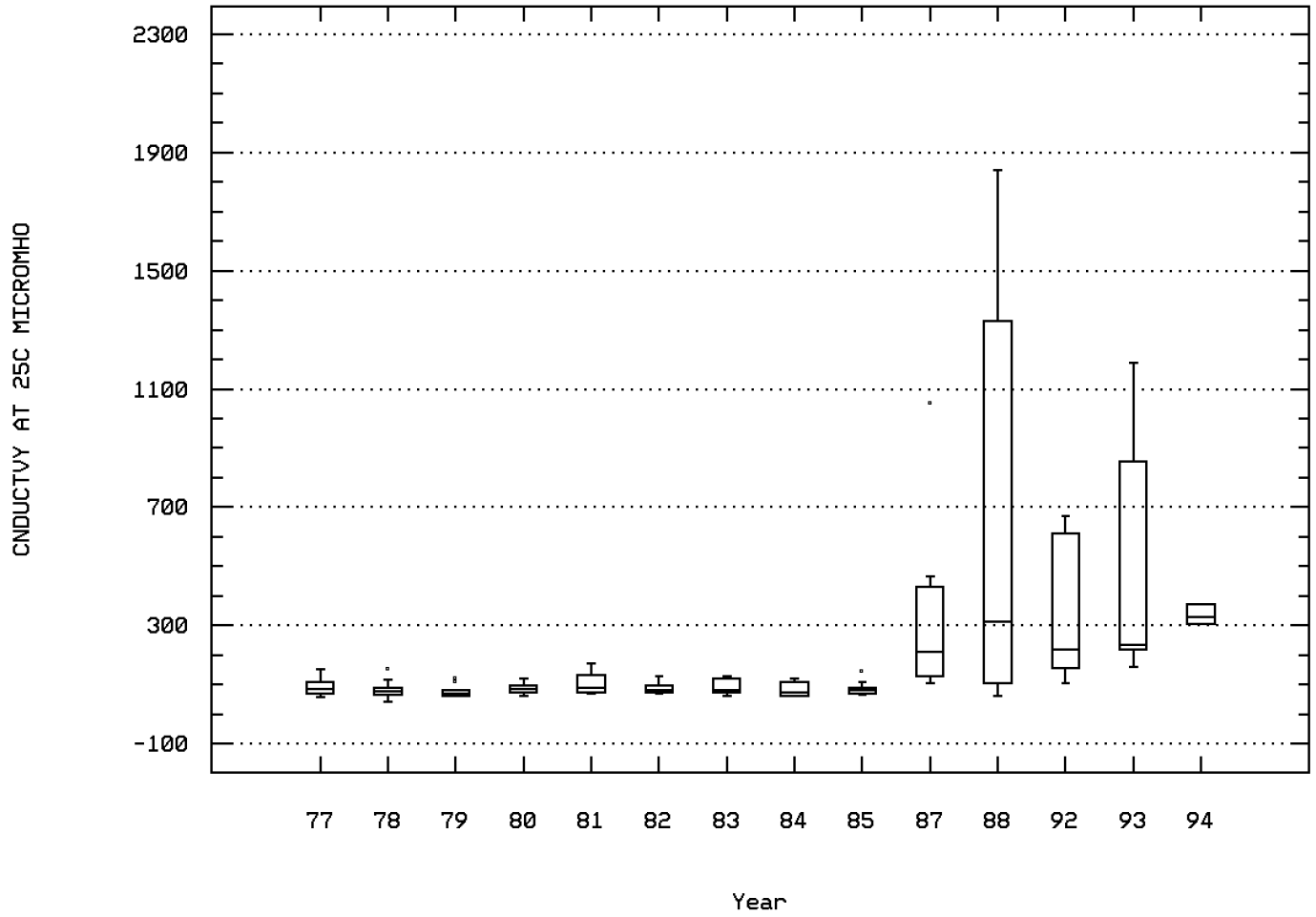
Annual Analysis for 1994 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	3	15.5	14.833	18.5	10.5	16.333	4.041	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	3	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	3	330.	334.667	370.	304.	1105.333	33.247	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	3	6.7	6.513	6.8	6.04	0.171	0.413	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	3	6.7	6.373	6.8	6.04	0.2	0.447	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	3	0.2	0.423	0.912	0.158	0.18	0.424	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	3	36.	35.333	38.	32.	9.333	3.055	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	3	115.	111.333	131.	88.	472.333	21.733	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	3	2240.	2403.333	3190.	1780.	517033.333	719.05	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	3	779.	743.667	1440.	12.	510732.333	714.655	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	3	1090.	1110.	1190.	1050.	5200.	72.111	**	**	**	**
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	3	1030.	998.	1140.	824.	25732.	160.412	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	3	21.	23.333	44.	5.	384.333	19.604	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	3	44.	38.333	66.	5.	954.333	30.892	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	3	918.	752.667	974.	366.	112917.333	336.032	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	3 ##	67.5	67.5	67.5	67.5	0.	0.	**	**	**	**

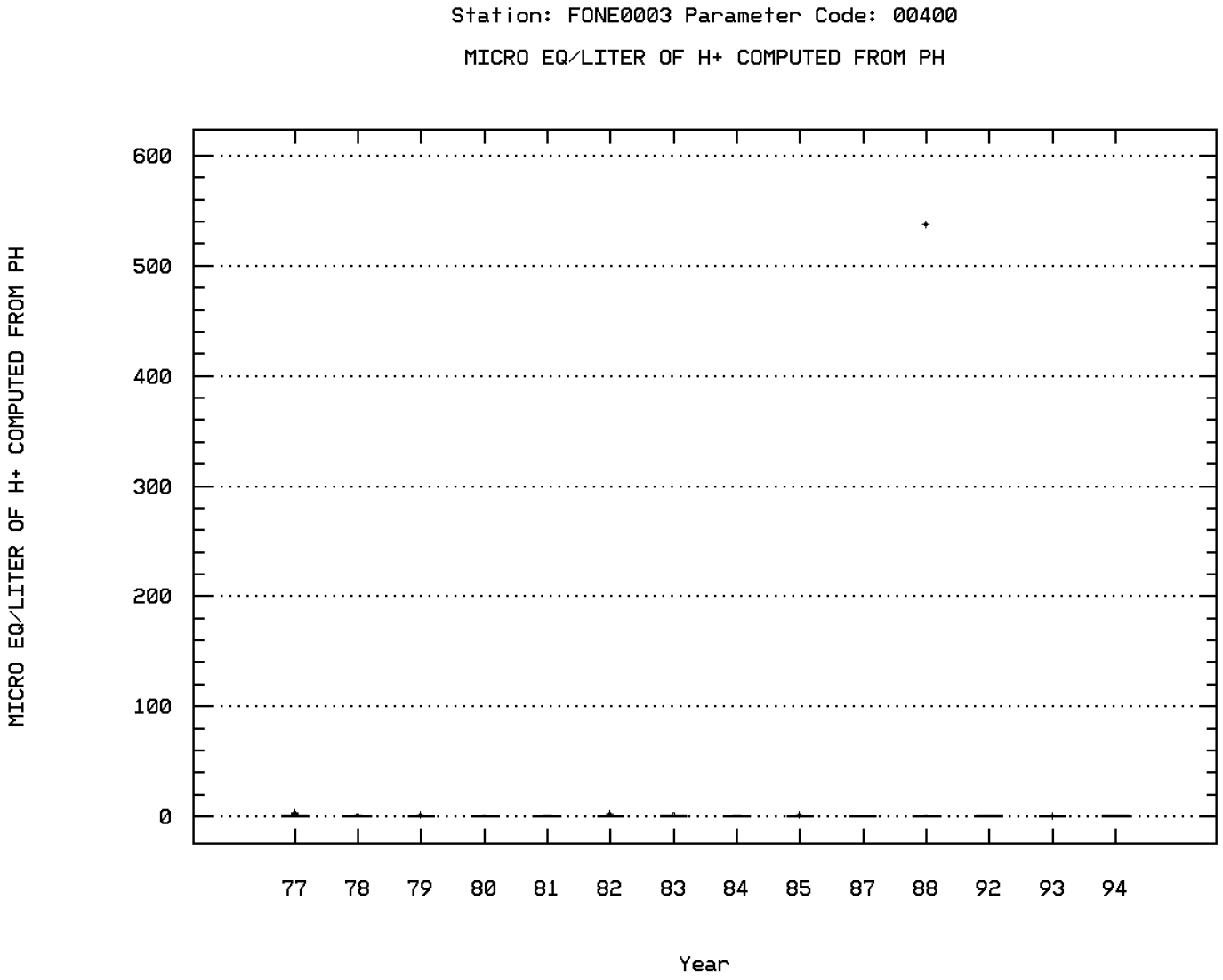
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0003 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



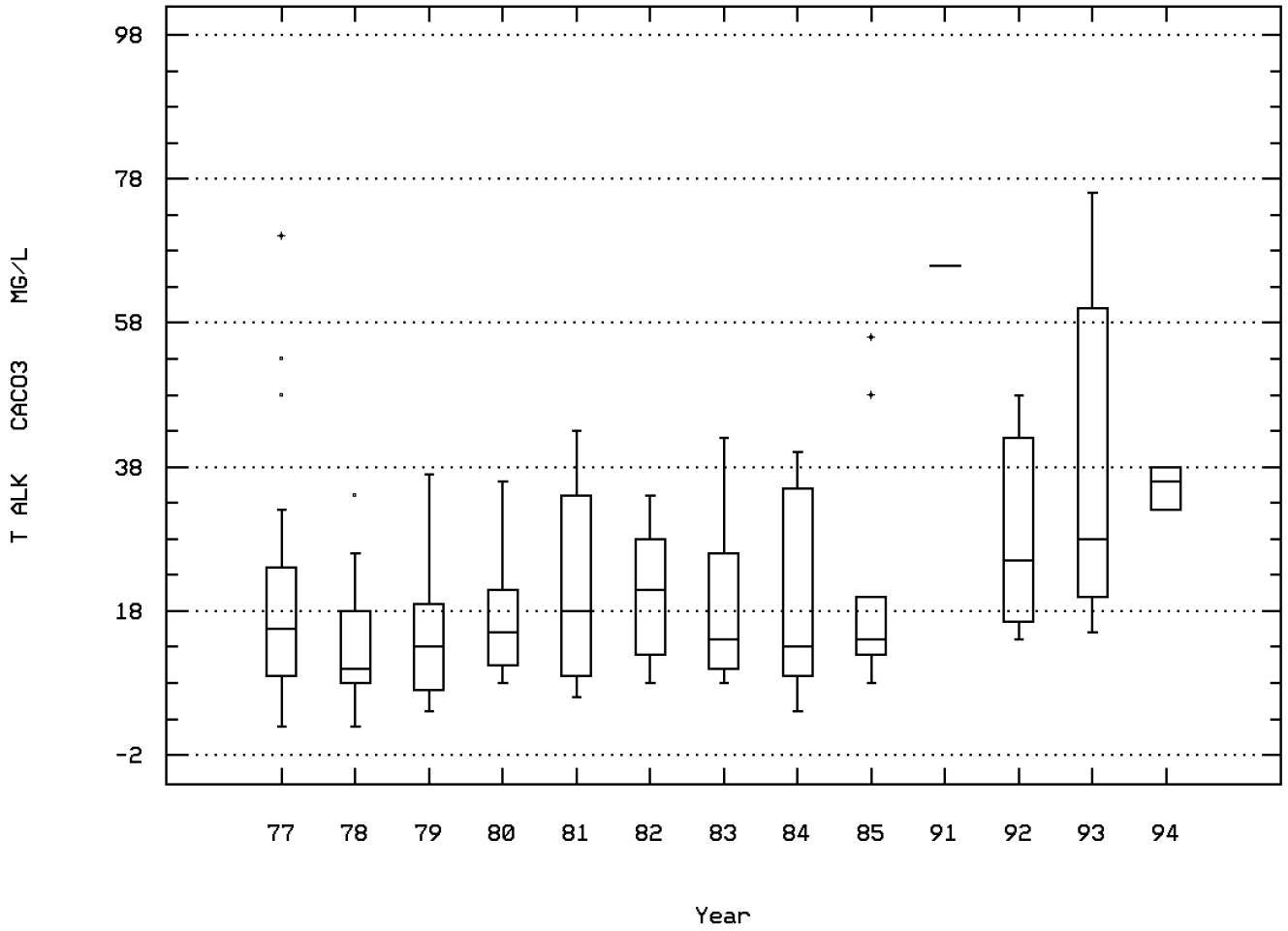
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 00410

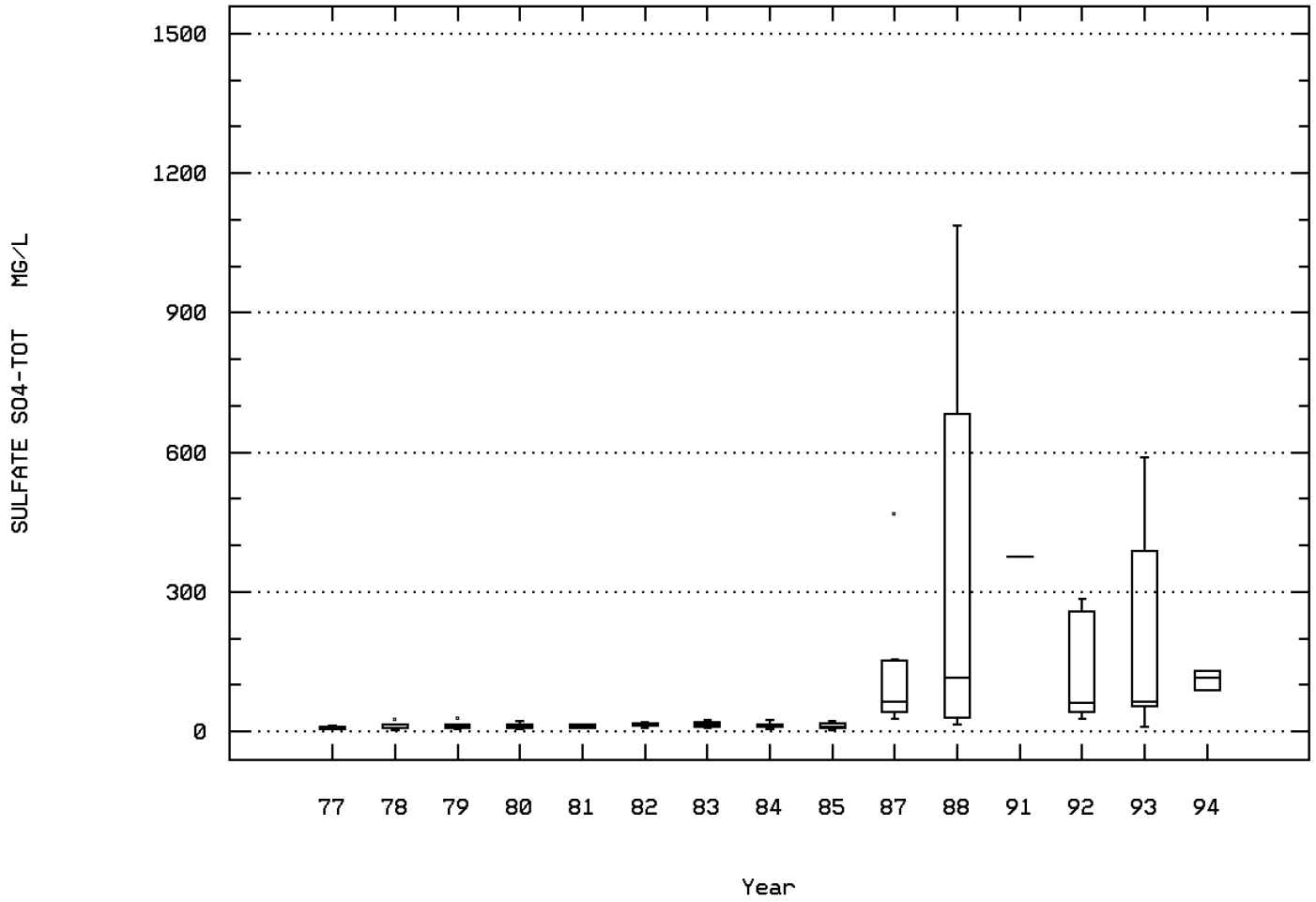
ALKALINITY, TOTAL (MG/L AS CACO3)



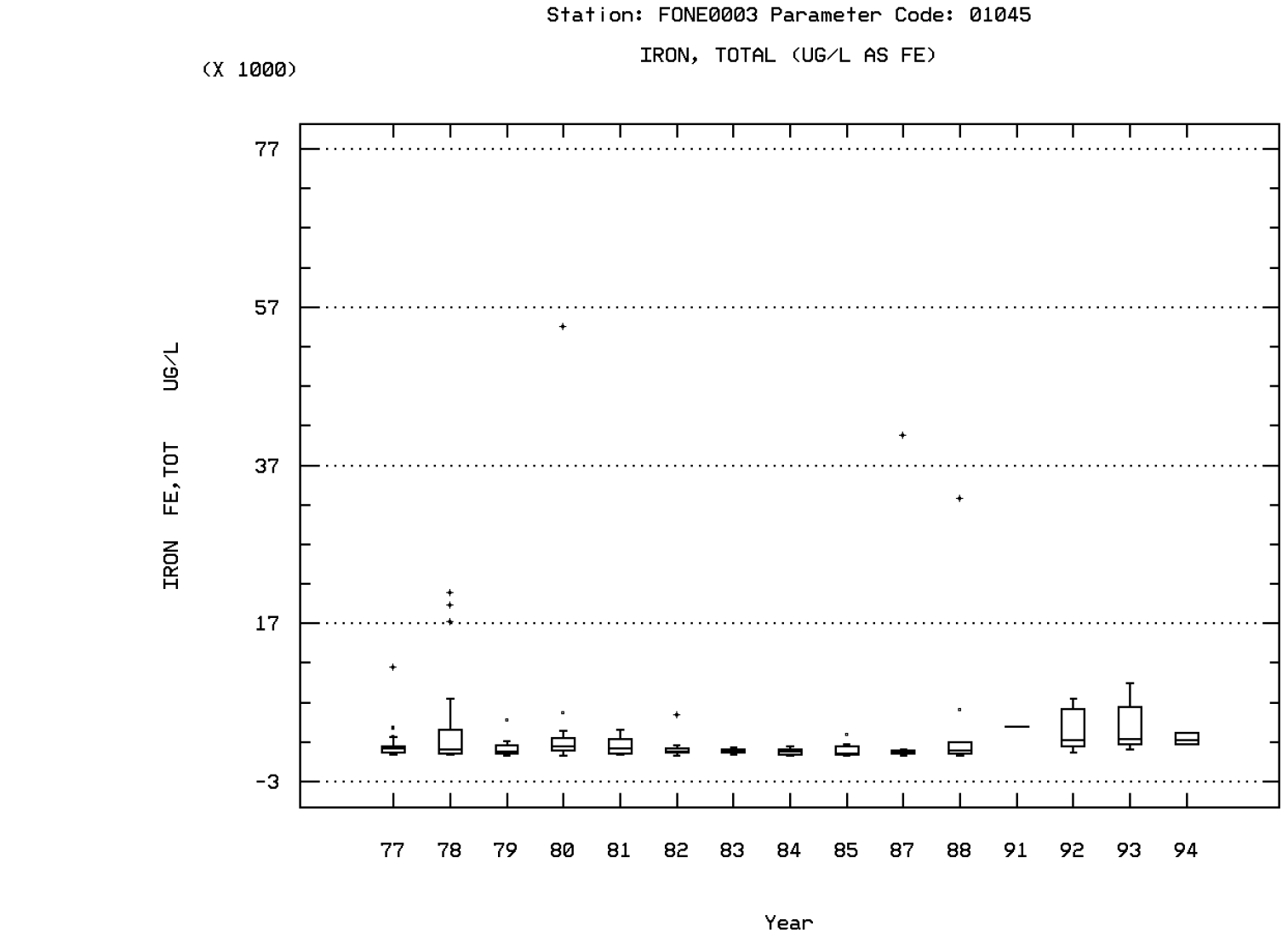
STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 00945

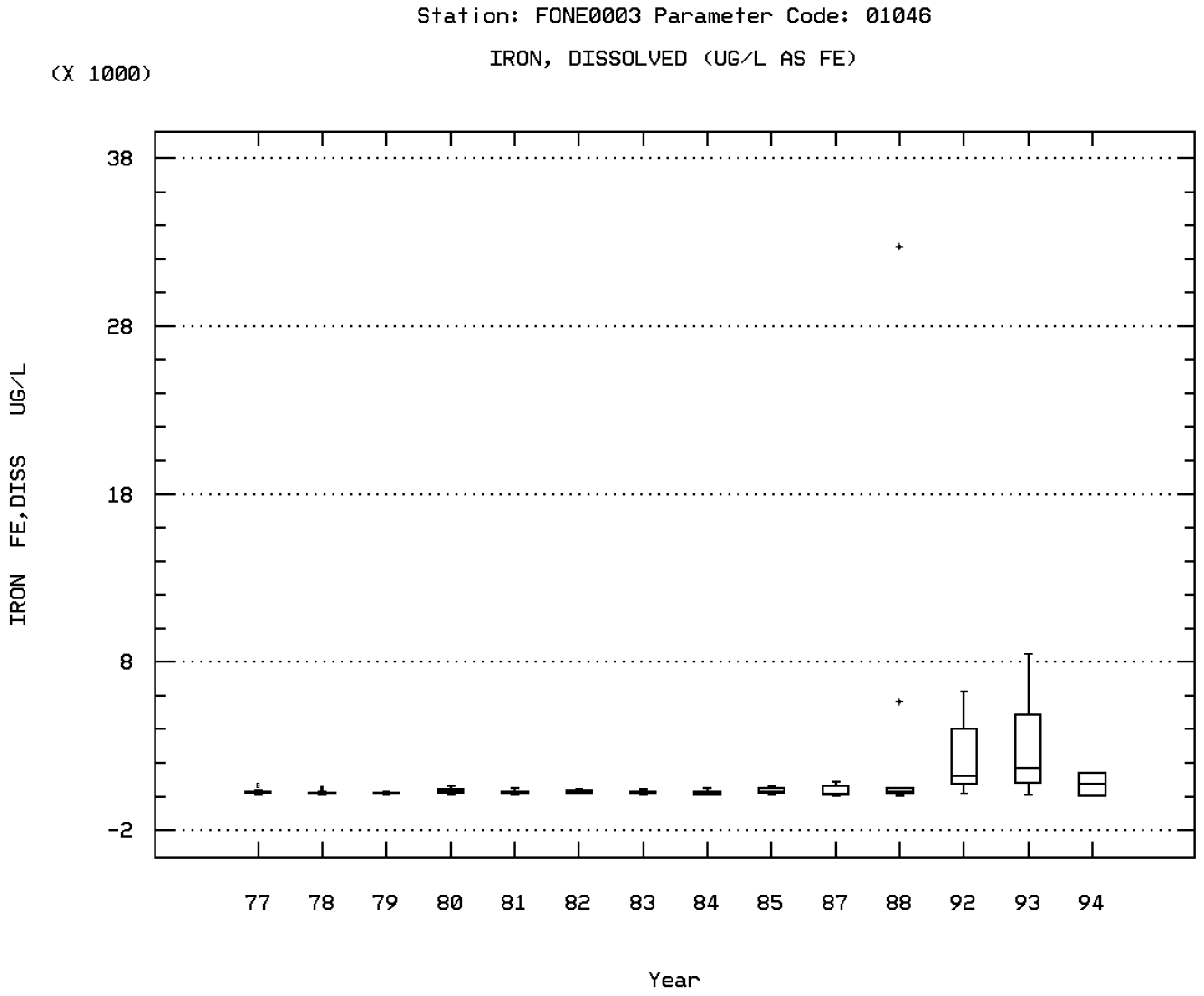
SULFATE, TOTAL (MG/L AS SO4)



STONY FORK TRIB NR GIBBON GLADE, PA (67



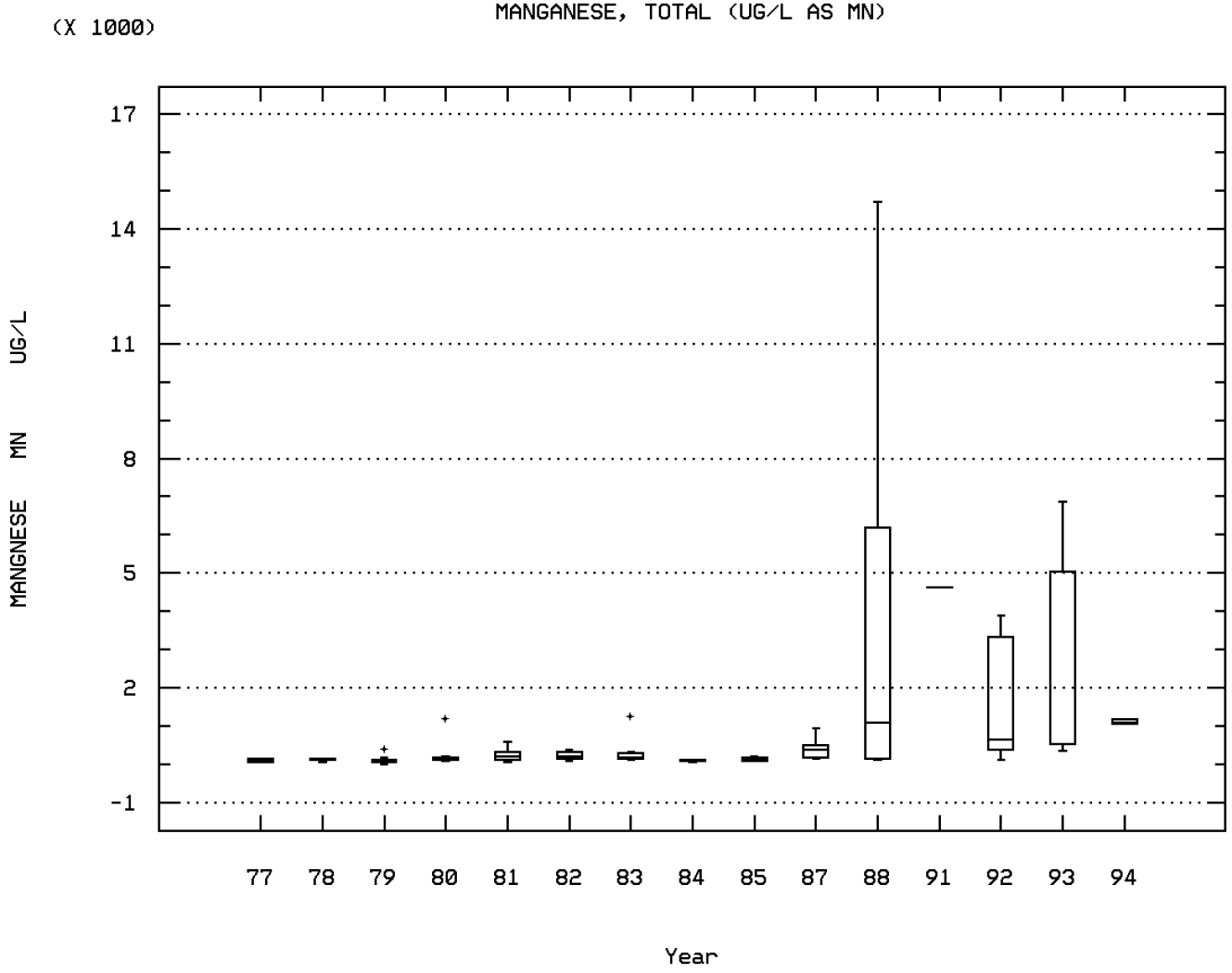
STONY FORK TRIB NR GIBBON GLADE, PA (67



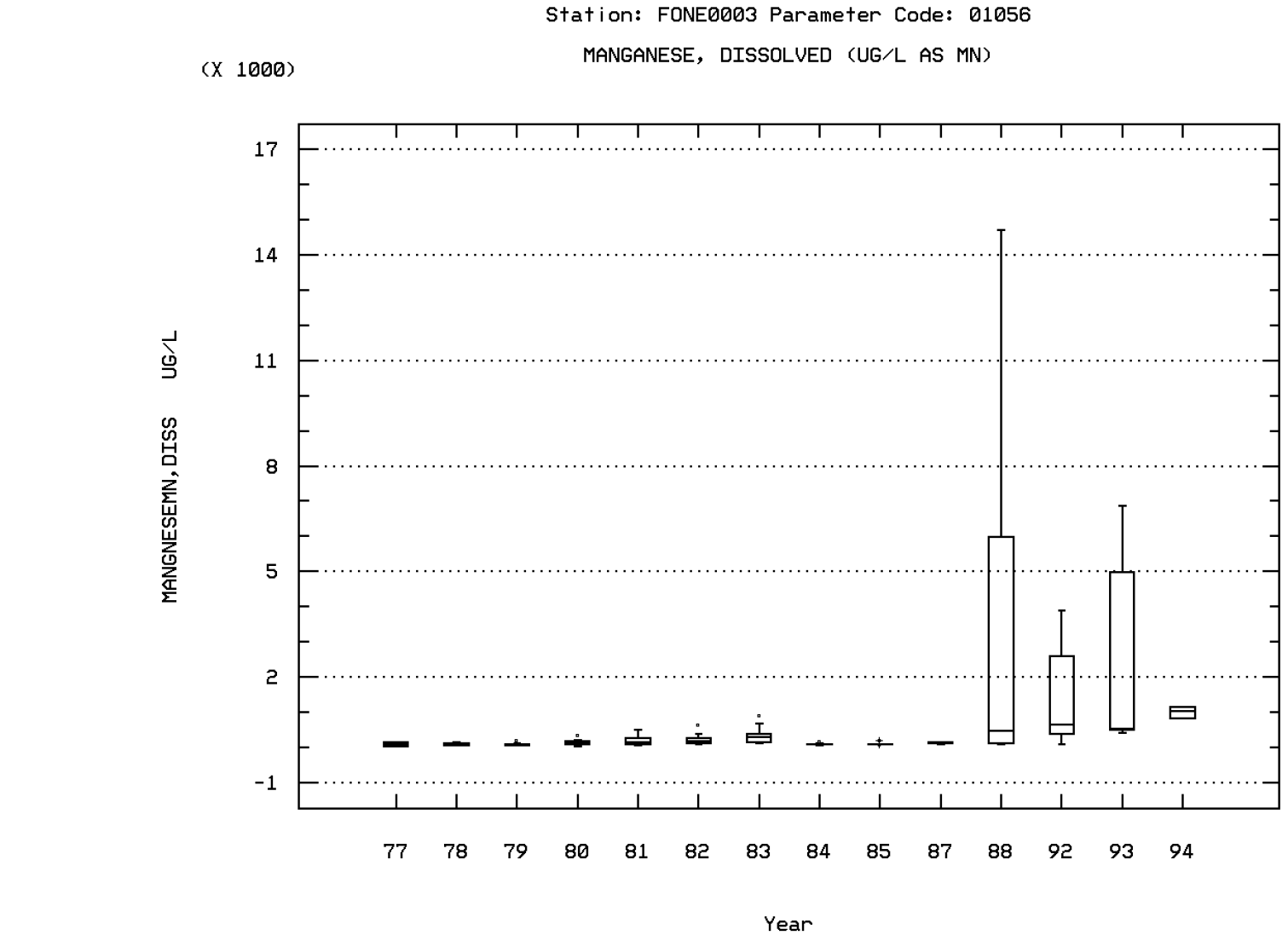
STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01055

MANGANESE, TOTAL (UG/L AS MN)



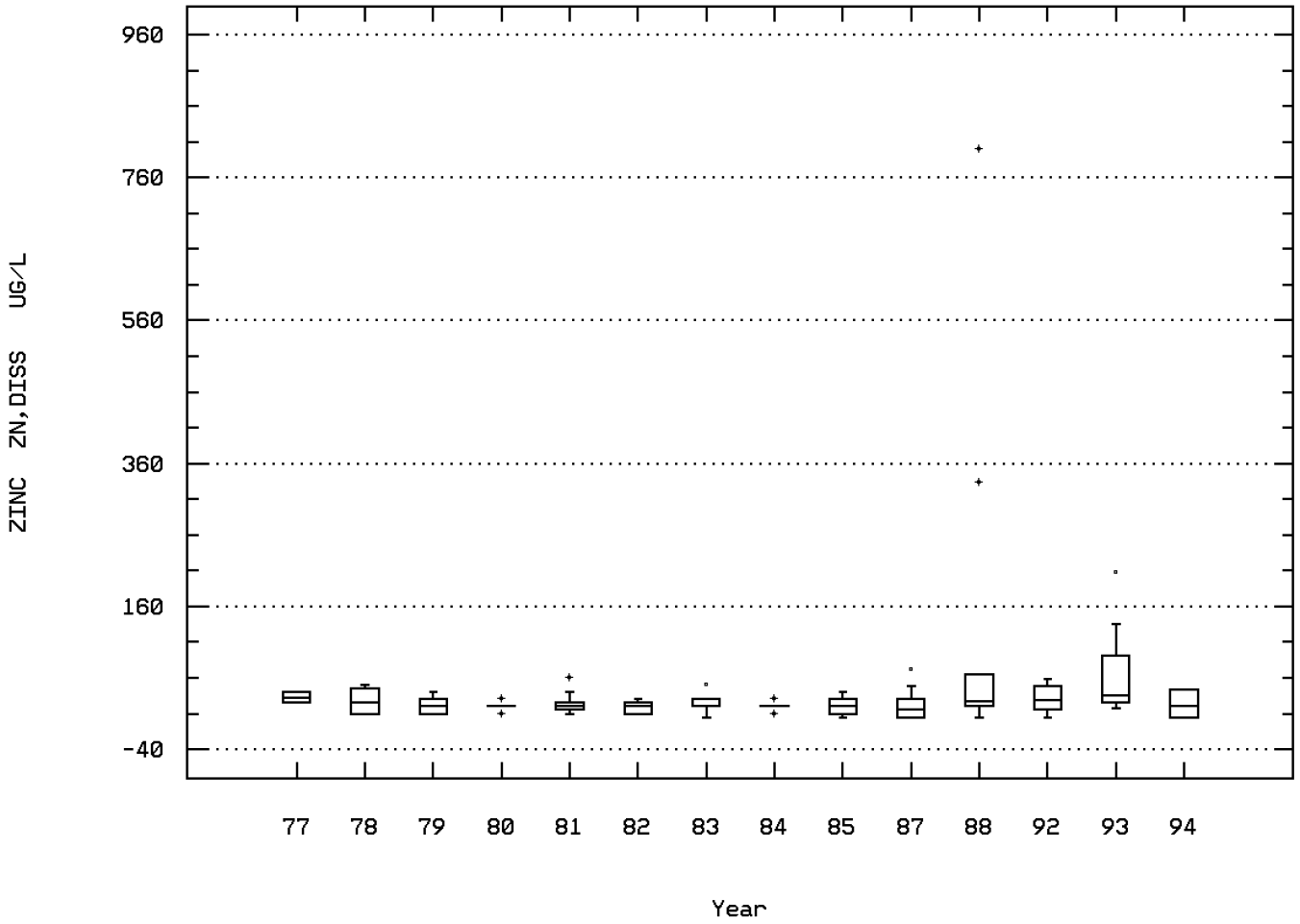
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01090

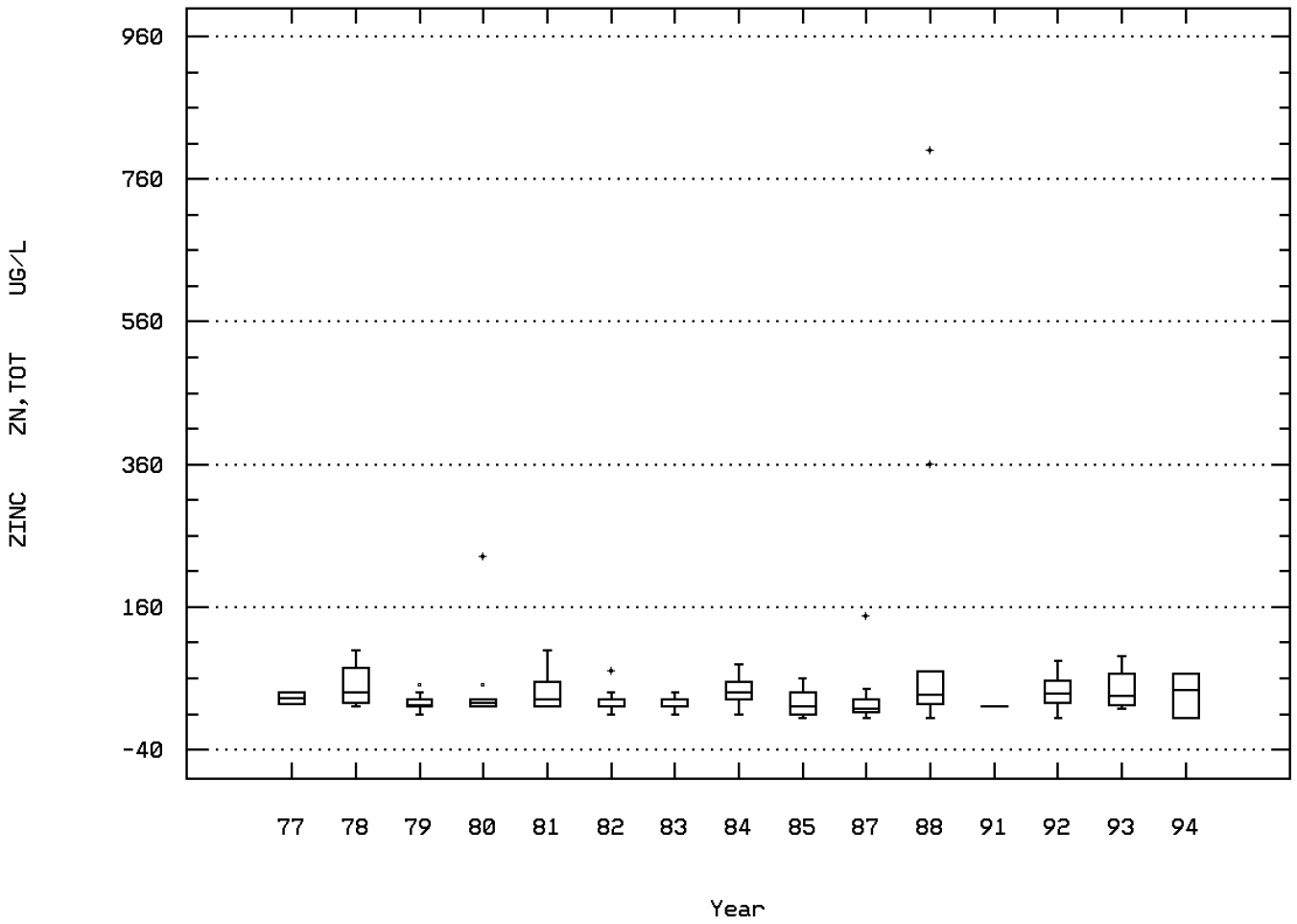
ZINC, DISSOLVED (UG/L AS ZN)



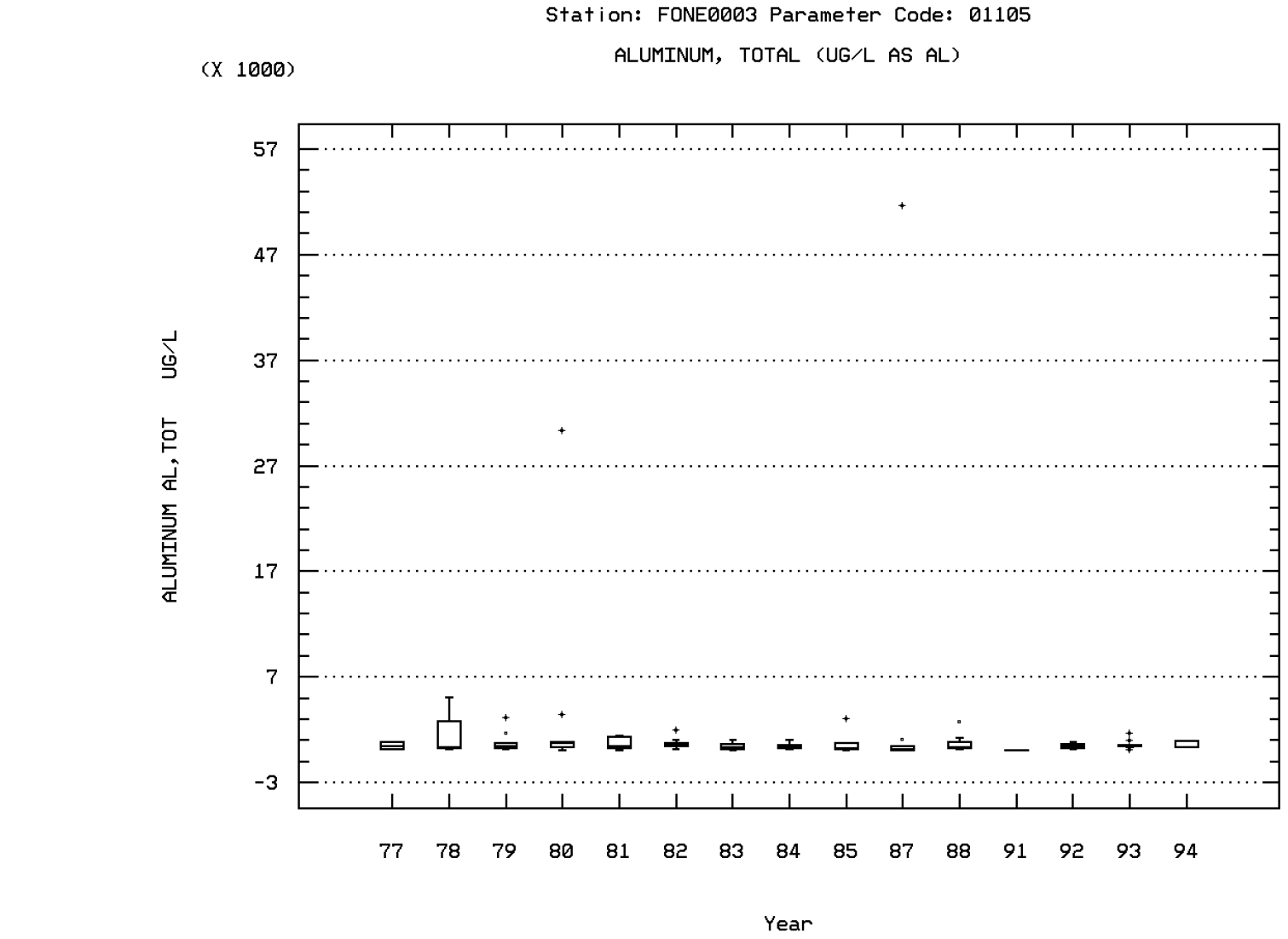
STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01092

ZINC, TOTAL (UG/L AS ZN)



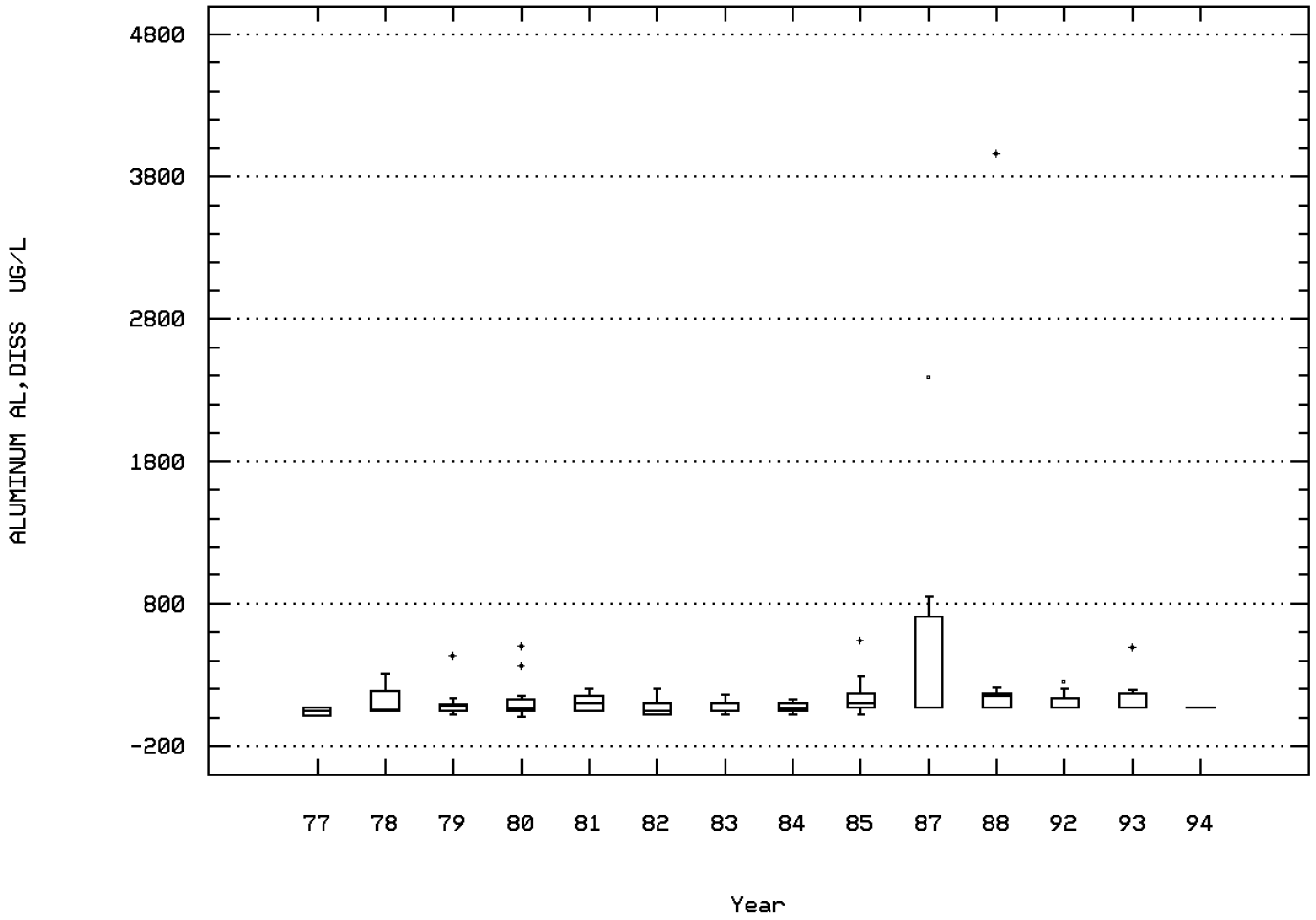
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01106

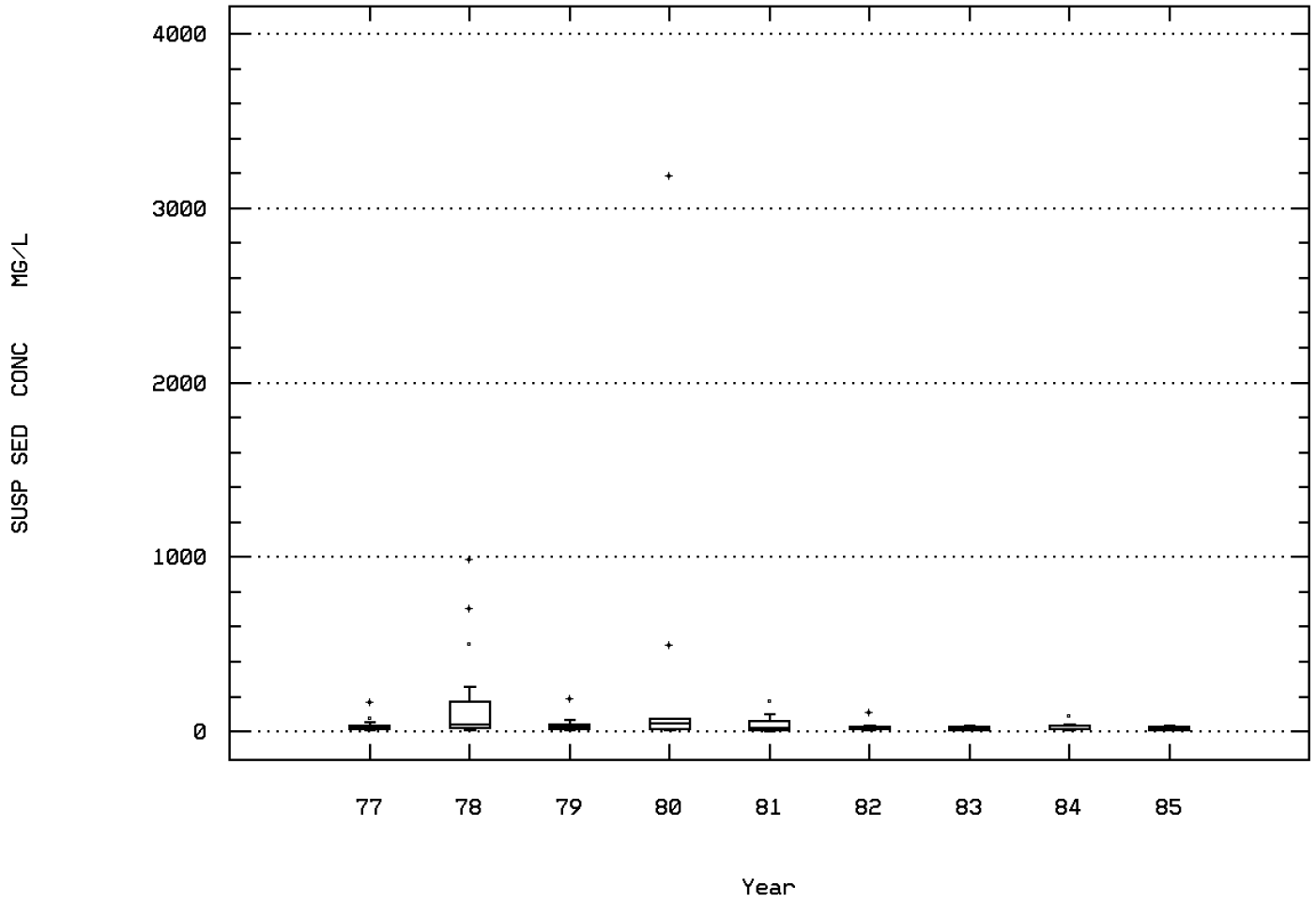
ALUMINUM, DISSOLVED (UG/L AS AL)



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



STONY FORK TRIB NR GIBBON GLADE, PA (67

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	60	17.	16.555	27.5	7.	20.996	4.582	10.1	13.	20.	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	57	0.2	0.627	12.	0.	3.478	1.865	0.03	0.06	0.5	0.92
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	39	1.34	1.37	1.88	1.17	0.022	0.149	1.2	1.26	1.45	1.52
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	60	120.	263.95	1842.	68.	156574.15	395.695	80.	95.	150.	961.5
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	60	6.8	6.674	7.7	3.27	0.44	0.663	5.905	6.4	7.087	7.294
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	60	6.8	5.03	7.7	3.27	3.189	1.786	5.905	6.4	7.087	7.294
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	60	0.158	9.328	537.032	0.02	4800.213	69.284	0.051	0.082	0.398	1.245
00403	PH, LAB, STANDARD UNITS SU	03/27/87-06/28/94	15	6.7	6.42	7.2	3.1	0.949	0.974	4.78	6.3	6.8	7.14
00403	CONVERTED PH, LAB, STANDARD UNITS	03/27/87-06/28/94	15	6.7	4.274	7.2	3.1	5.884	2.426	4.78	6.3	6.8	7.14
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/87-06/28/94	15	0.2	53.237	794.328	0.063	42031.97	205.017	0.073	0.158	0.501	318.487
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	49	31.	31.694	76.	2.	243.842	15.615	13.	20.	40.	53.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/27/87-06/28/94	15	505.	588.	1804.	82.	226318.143	475.729	120.4	162.	846.	1379.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/30/77-06/28/94	15	8.	10.933	48.	1.	150.067	12.25	1.	1.	18.	30.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/27/87-06/28/94	10	99.55	97.59	209.	14.3	5368.27	73.268	15.23	24.725	168.75	208.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/27/87-06/28/94	10	23.	23.04	54.5	2.7	318.683	17.852	2.92	5.275	37.7	53.21
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/27/87-06/28/94	10	7.095	27.092	123.	3.13	1689.249	41.1	3.151	4.323	38.45	118.76
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/27/87-06/28/94	10	3.1	3.308	5.73	2.39	0.941	0.97	2.399	2.653	3.658	5.546
00940	CHLORIDE,TOTAL IN WATER MG/L	02/27/87-06/28/94	10	9.	10.	21.	6.	20.444	4.522	6.	6.75	11.	20.3
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	58	12.	97.534	1087.	4.	43972.639	209.697	5.9	8.	37.75	464.2
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	10 ##	0.1	0.134	0.23	0.1	0.003	0.055	0.1	0.1	0.203	0.228
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	61	1320.	3230.18	54500.	296.	63620451.85	7976.243	502.	845.	2015.	5978.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	60	290.	1298.633	32700.	34.	19281409.084	4391.06	150.7	192.5	510.	3107.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	45	250.	1380.156	14700.	80.	7557984.589	2749.179	106.	145.	895.5	5506.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	39	170.	1311.949	14700.	20.	8295750.26	2880.234	90.	130.	524.	5980.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	40	20.	50.375	800.	5.	17494.753	132.268	5.	10.	34.5	59.9
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	44	20.	58.068	800.	5.	16806.251	129.639	10.	17.75	44.5	82.5
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	44	295.	1173.364	30310.	50.	20591791.469	4537.818	67.5	155.	565.	1595.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	43	70.	219.465	3960.	20.	364969.171	604.127	35.	50.	150.	400.8
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/27/87-06/28/94	15	0.	8.8	118.	0.	925.6	30.424	0.	0.	0.	55.6
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	46	21.	95.978	3181.	5.	216666.288	465.474	9.7	12.75	32.25	73.3

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	57	4.	4.175	13.	0.	11.35	3.369	0.5	1.	6.7	9.16
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	53	1.	2.64	16.	0.1	12.064	3.473	0.24	0.75	3.	8.6
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	40	1.52	1.555	1.98	1.35	0.022	0.149	1.363	1.463	1.63	1.779
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	57	77.	94.158	235.	40.	1721.635	41.493	62.4	69.	104.5	154.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	55	6.54	6.551	7.6	5.7	0.17	0.412	6.12	6.29	6.75	7.04
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	55	6.54	6.372	7.6	5.7	0.202	0.45	6.12	6.29	6.75	7.04
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	55	0.288	0.424	1.995	0.025	0.193	0.439	0.092	0.178	0.513	0.779
00403	PH, LAB, STANDARD UNITS SU	03/27/87-06/28/94	10	6.4	6.38	6.6	6.	0.037	0.193	6.02	6.2	6.525	6.6
00403	CONVERTED PH, LAB, STANDARD UNITS	03/27/87-06/28/94	10	6.4	6.338	6.6	6.	0.039	0.198	6.02	6.2	6.525	6.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/87-06/28/94	10	0.398	0.459	1.	0.251	0.054	0.233	0.251	0.3	0.631	0.963
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	52	12.	12.423	28.	1.	35.974	5.998	4.6	8.	16.	21.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/27/87-06/28/94	11	105.	124.273	348.	4.	7300.618	85.444	17.6	84.	151.	310.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/30/77-06/28/94	11	11.	11.545	28.	1.	91.873	9.585	1.	3.	18.	27.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/27/87-06/28/94	10	14.75	14.33	19.5	8.6	21.462	4.633	8.64	9.	18.675	19.5
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/27/87-06/28/94	10	3.45	3.47	4.9	2.2	1.071	1.035	2.21	2.3	4.45	4.87
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/27/87-06/28/94	10	5.36	6.039	15.1	2.21	13.494	3.673	2.294	3.523	7.413	14.413
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/27/87-06/28/94	10	1.485	1.654	2.71	1.27	0.203	0.45	1.275	1.328	1.955	2.642
00940	CHLORIDE,TOTAL IN WATER MG/L	02/27/87-06/28/94	10	9.	11.4	26.	6.	36.267	6.022	6.1	7.	14.25	24.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	56	11.5	16.027	61.	2.5	170.313	13.05	5.	8.	18.	41.3
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	9 ##	0.1	0.083	0.1	0.05	0.001	0.025	0.05	0.05	0.1	0.1
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	56	670.	1810.839	20800.	220.	14086731.519	3753.229	377.	462.5	1280.	4049.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	57	237.	289.053	1680.	79.	62609.836	250.22	110.	170.	309.	484.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	41	140.	185.024	530.	60.	14781.674	121.58	70.	105.	225.	366.4
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	38	125.	175.026	503.	50.	16344.08	127.844	60.	85.	255.	405.8
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	42	20.	27.286	207.	5.	909.087	30.151	10.	20.	30.	40.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	41	30.	35.146	100.	5.	421.478	20.53	20.	20.	45.	70.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	40	420.	743.3	5080.	50.	994798.831	997.396	150.	217.5	835.	1616.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	42	67.5	108.607	486.	5.	11751.336	108.404	32.5	50.	110.	304.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/27/87-06/28/94	11	3.	7.455	26.	0.	99.073	9.954	0.	0.	18.	25.2
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	37	18.	94.811	984.	3.	42215.435	205.464	6.8	10.	40.	247.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

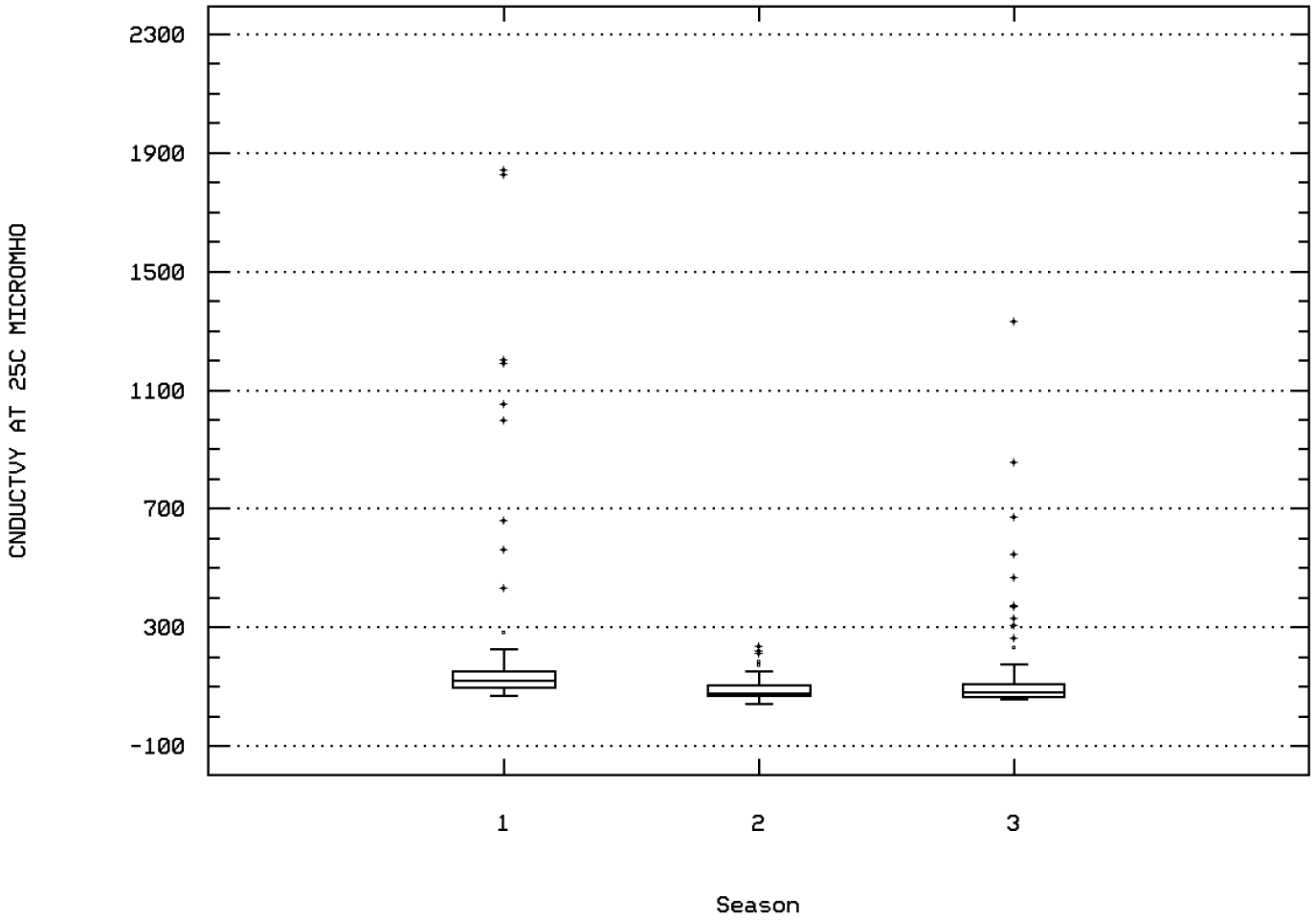
Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	63	15.	14.151	24.	0.5	27.094	5.205	6.7	10.5	18.	20.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-06/28/94	55	1.	2.22	17.	0.08	10.6	3.256	0.1	0.3	3.	6.4
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	38	1.46	1.516	2.02	1.31	0.027	0.163	1.339	1.4	1.6	1.717
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	63	80.	156.857	1330.	58.	46242.189	215.04	59.4	65.	110.	368.8
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	62	6.7	6.699	7.5	5.9	0.147	0.383	6.2	6.4	7.	7.17
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	62	6.7	6.529	7.5	5.9	0.176	0.42	6.2	6.4	7.	7.17
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	62	0.2	0.296	1.259	0.032	0.083	0.288	0.068	0.1	0.398	0.631
00403	PH, LAB, STANDARD UNITS SU	03/27/87-06/28/94	15	6.3	6.447	7.	6.	0.127	0.356	6.	6.1	6.9	6.94
00403	CONVERTED PH, LAB, STANDARD UNITS	03/27/87-06/28/94	15	6.3	6.329	7.	6.	0.142	0.376	6.	6.1	6.9	6.94
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/27/87-06/28/94	15	0.501	0.468	1.	0.1	0.098	0.313	0.116	0.126	0.794	1.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	55	14.	17.091	70.	5.	170.825	13.07	6.	8.	20.	36.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/27/87-06/28/94	16	324.	394.688	1278.	30.	140986.096	375.481	62.2	112.25	486.75	1213.6
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/30/77-06/28/94	17	14.	63.824	842.	3.	40282.154	200.704	3.8	10.	21.	198.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/27/87-06/28/94	13	37.9	55.223	172.	6.3	2490.509	49.905	9.74	18.45	81.65	154.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/27/87-06/28/94	13	10.	13.538	44.	1.7	147.751	12.155	2.7	4.6	18.3	38.56
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/27/87-06/28/94	13	3.39	8.774	65.8	1.92	298.254	17.27	2.06	2.35	6.1	43.272
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/27/87-06/28/94	13	2.04	2.22	4.33	1.14	0.765	0.875	1.188	1.53	2.67	3.858
00940	CHLORIDE,TOTAL IN WATER MG/L	02/27/87-06/28/94	15	6.	6.6	11.	4.	5.114	2.261	4.	5.	9.	10.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	62	12.	50.258	682.	3.	11611.408	107.756	6.	8.	27.25	148.5
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	12 ##	0.1	0.141	0.64	0.05	0.026	0.162	0.05	0.063	0.1	0.508
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	63	1150.	2775.048	40800.	340.	31564121.111	5618.196	556.	700.	2380.	5816.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	62	230.	550.839	7770.	12.	1590925.121	1261.319	100.	150.75	403.75	849.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	43	180.	642.884	5060.	5.	1250317.724	1118.176	68.	100.	503.	2418.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	38	149.	647.737	5170.	45.	1398966.848	1182.779	59.	90.	551.75	2978.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	43	20.	28.07	136.	5.	563.305	23.734	10.	17.	30.	51.8
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	43	30.	37.605	147.	5.	731.578	27.048	17.	20.	44.	67.8
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	43	566.	1769.302	51600.	50.	60670187.204	7789.107	131.	311.	820.	1294.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	42	68.75	156.286	2390.	15.	136186.392	369.034	26.5	55.75	150.	191.6
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/27/87-06/28/94	16	0.	4.75	30.	0.	88.6	9.413	0.	0.	5.25	25.8
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	45	26.	55.133	500.	6.	7247.027	85.129	10.6	17.	49.5	142.4

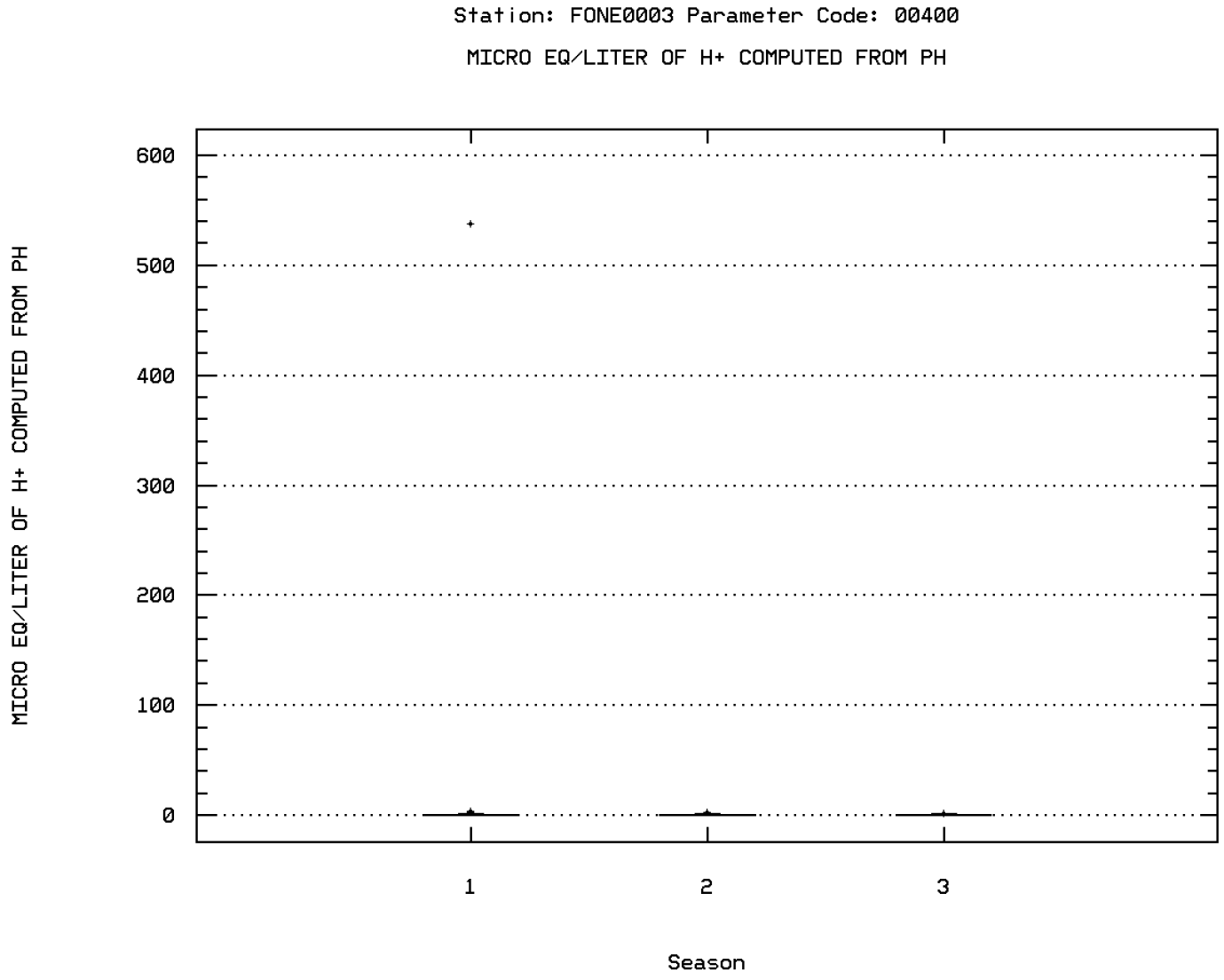
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0003 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



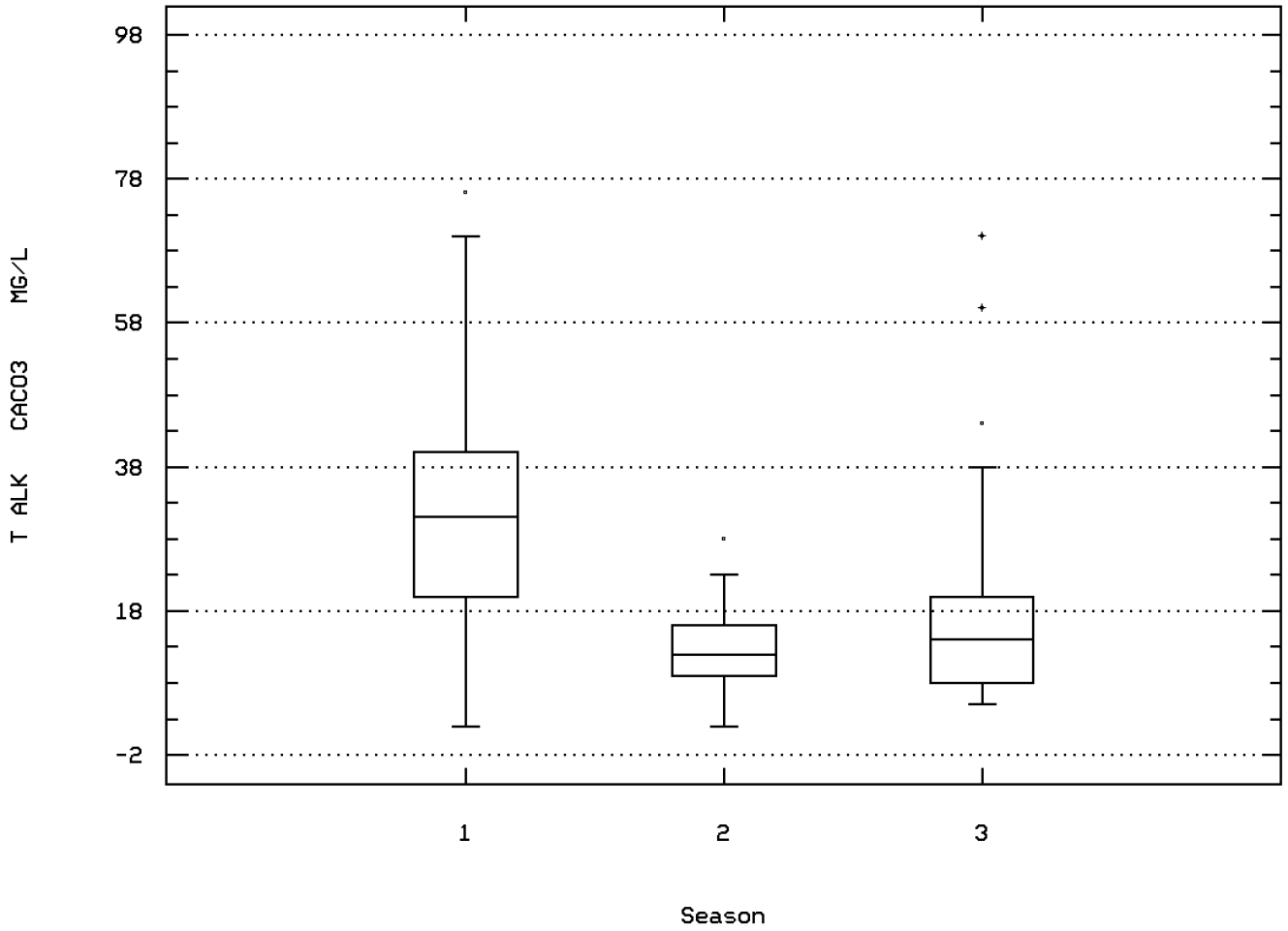
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 00410

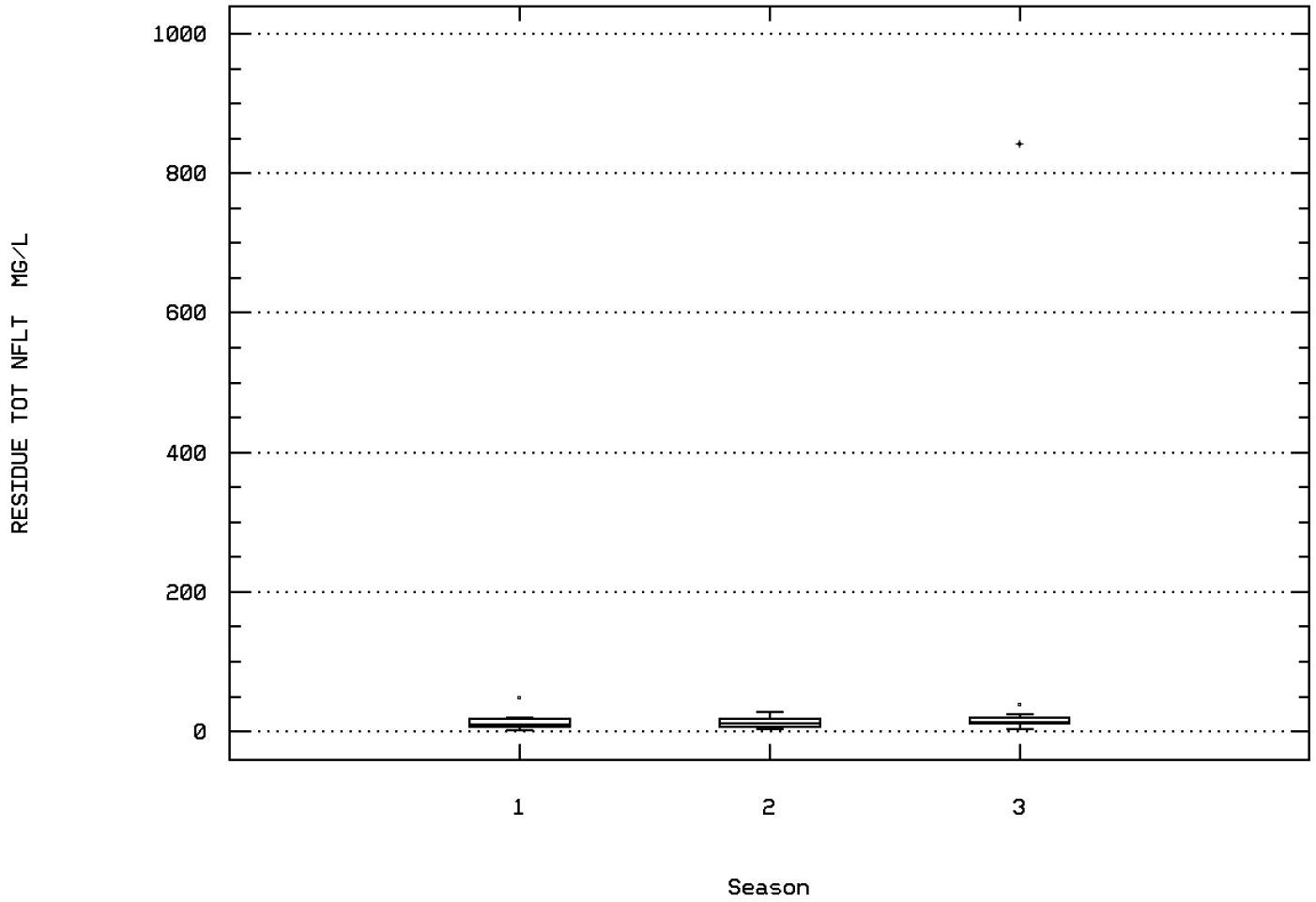
ALKALINITY, TOTAL (MG/L AS CACO3)



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 00530

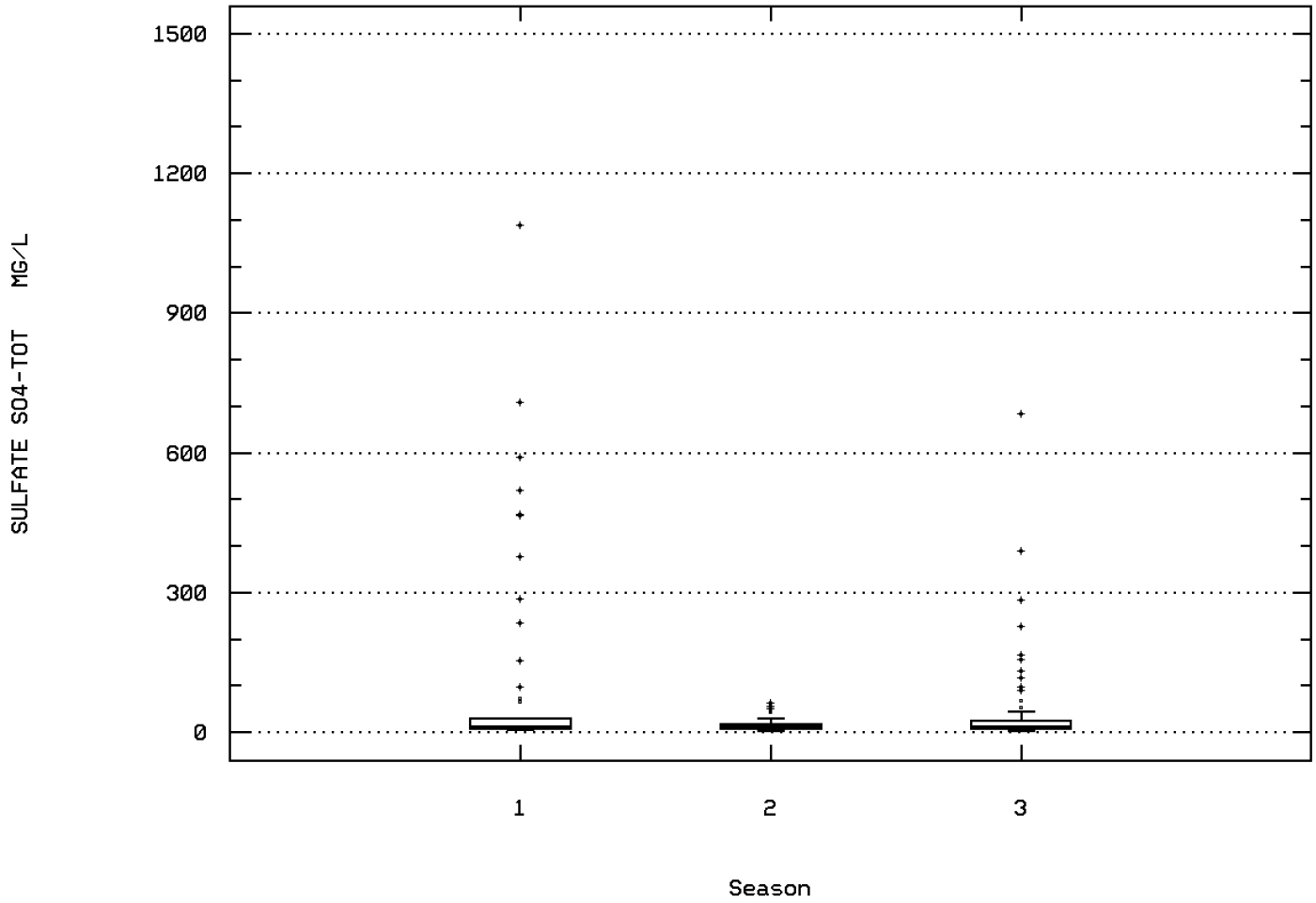
RESIDUE, TOTAL NONFILTRABLE (MG/L)



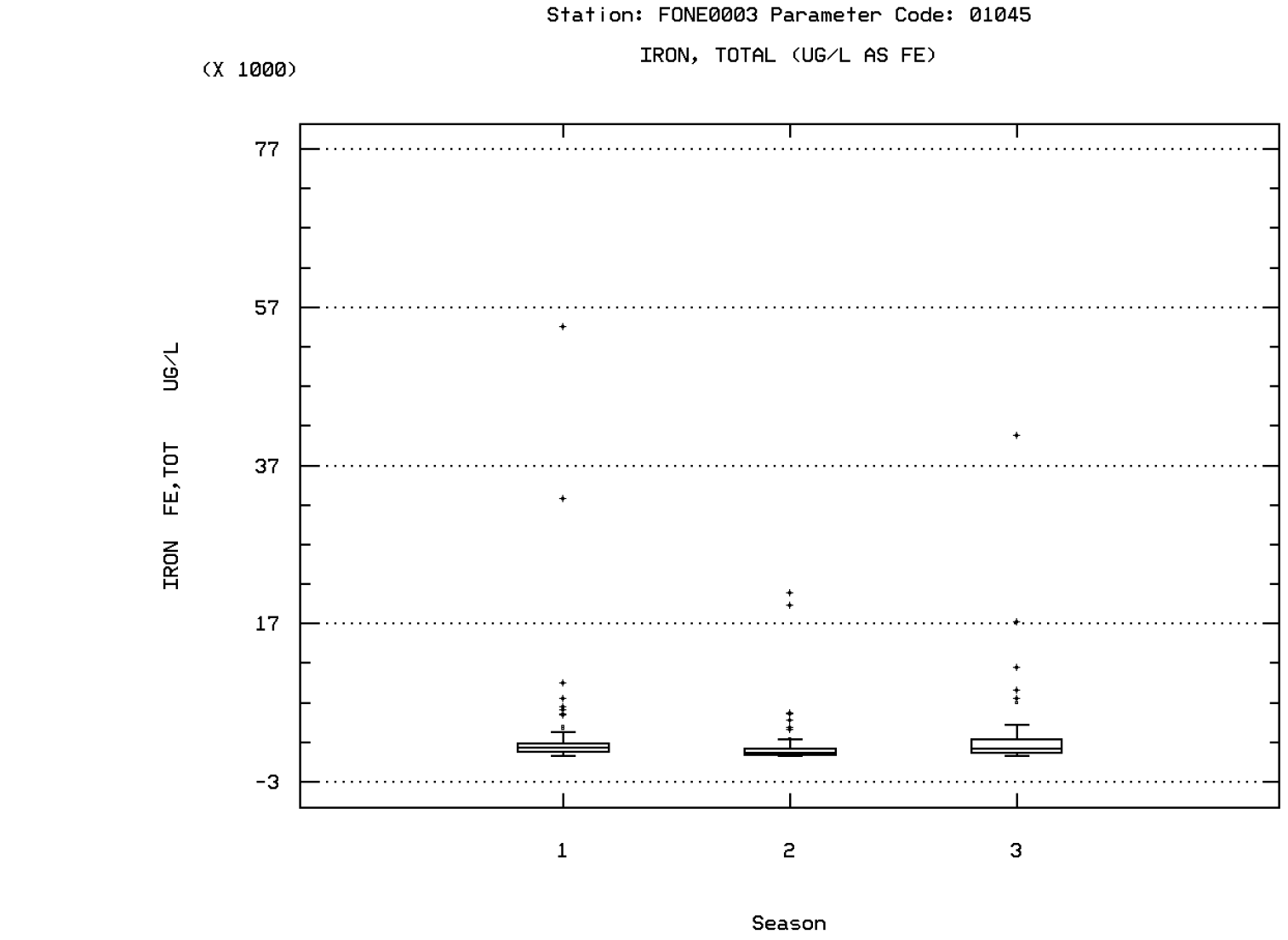
STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 00945

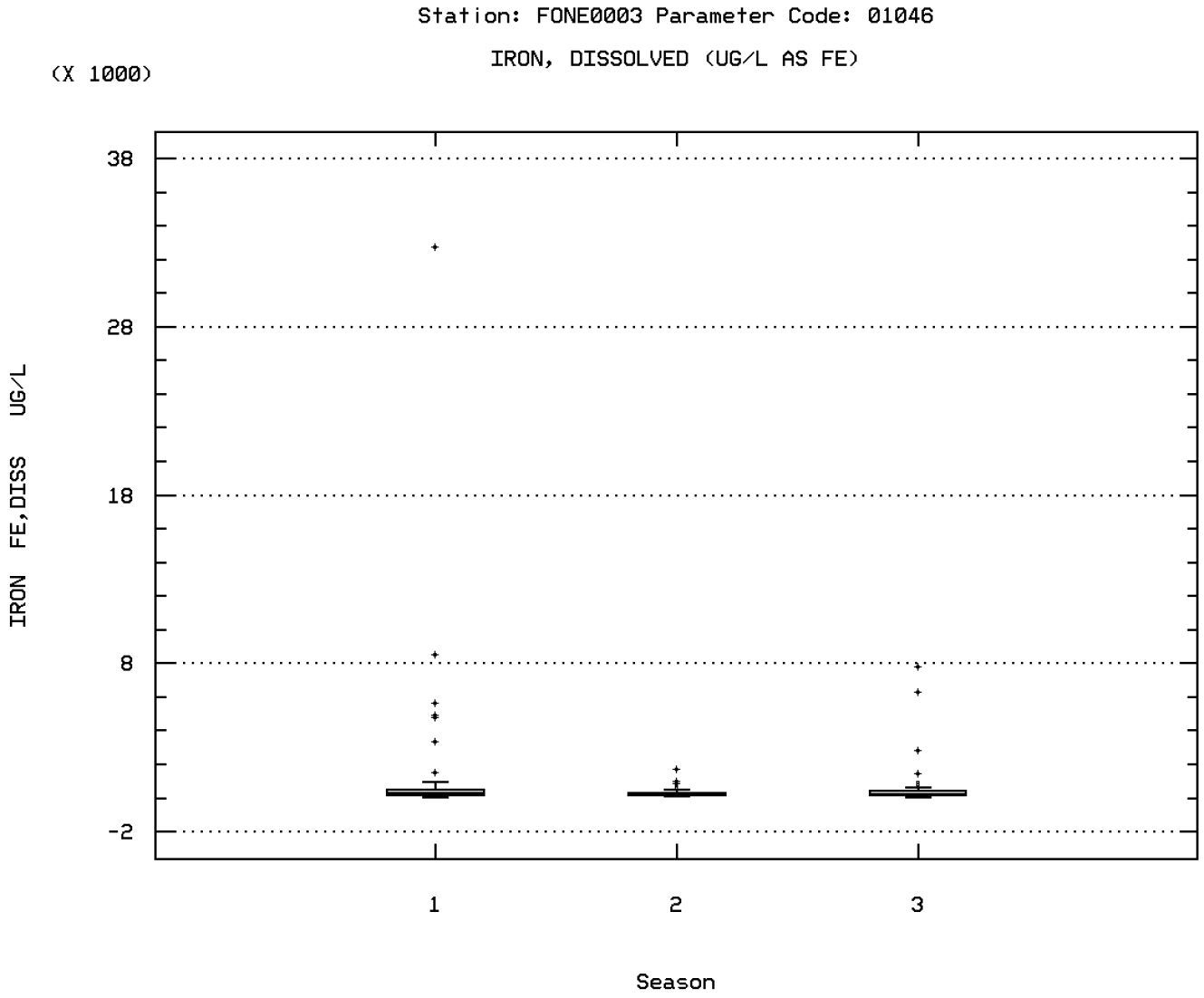
SULFATE, TOTAL (MG/L AS SO4)



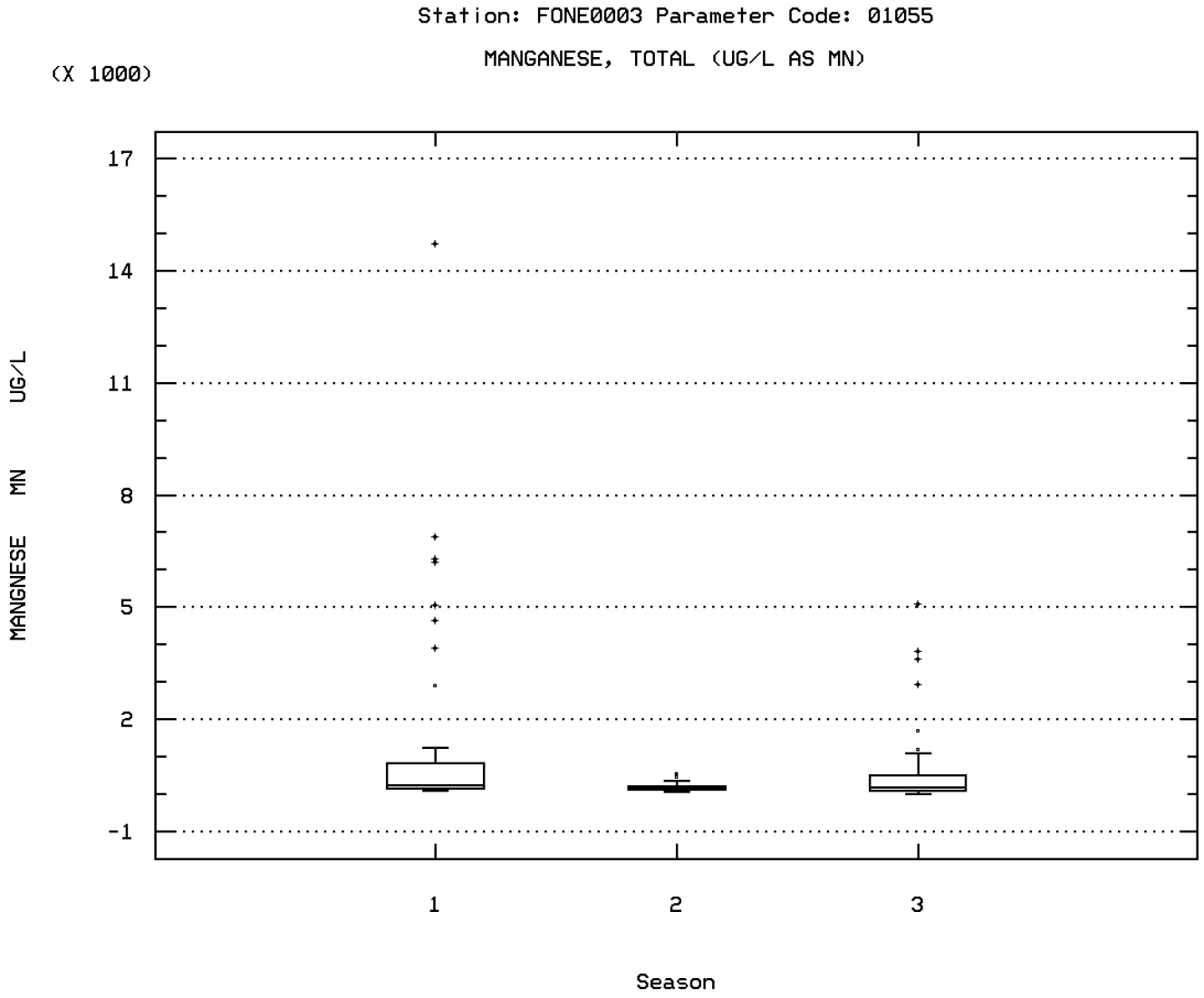
STONY FORK TRIB NR GIBBON GLADE, PA (67



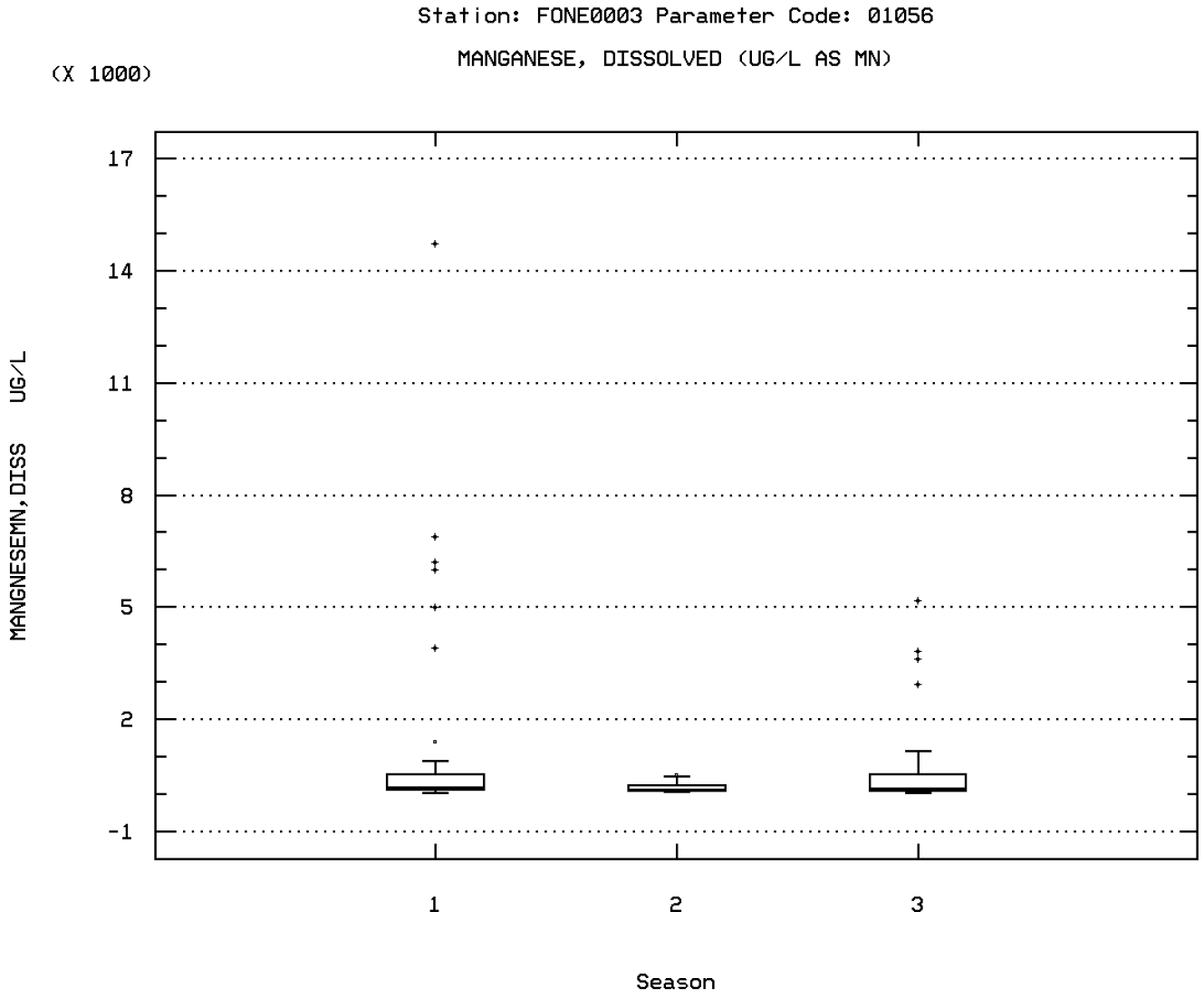
STONY FORK TRIB NR GIBBON GLADE, PA (67



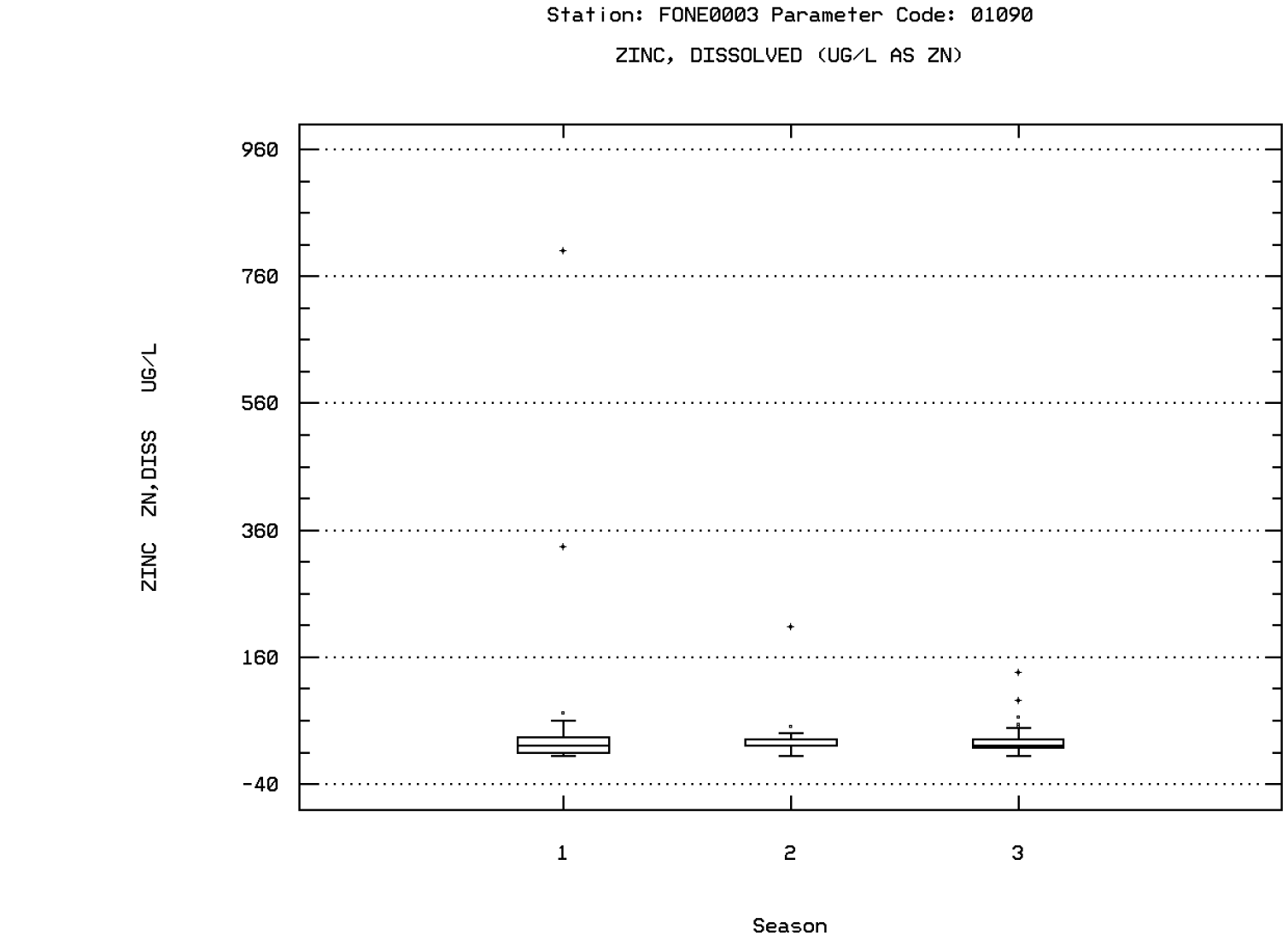
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67



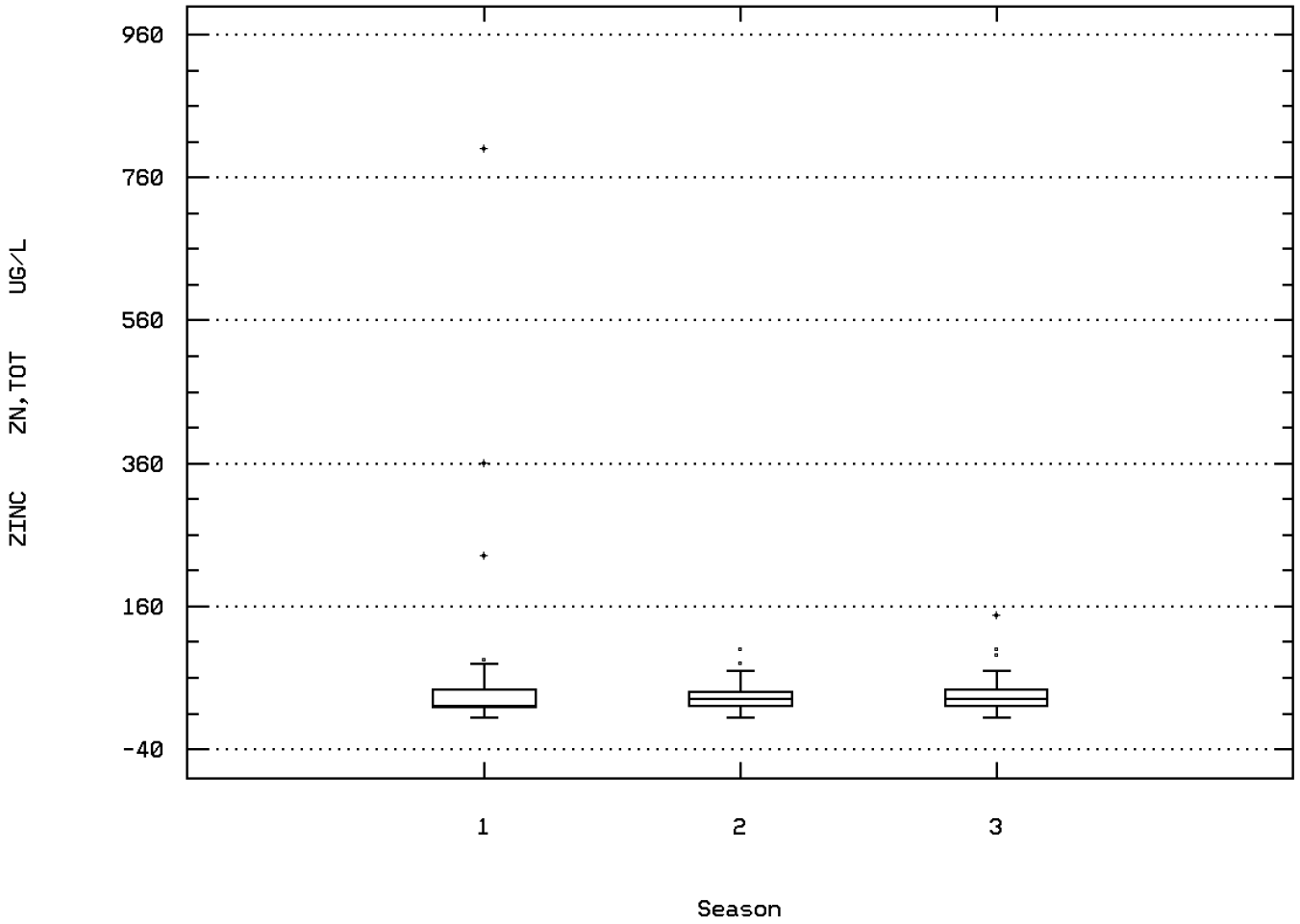
STONY FORK TRIB NR GIBBON GLADE, PA (67



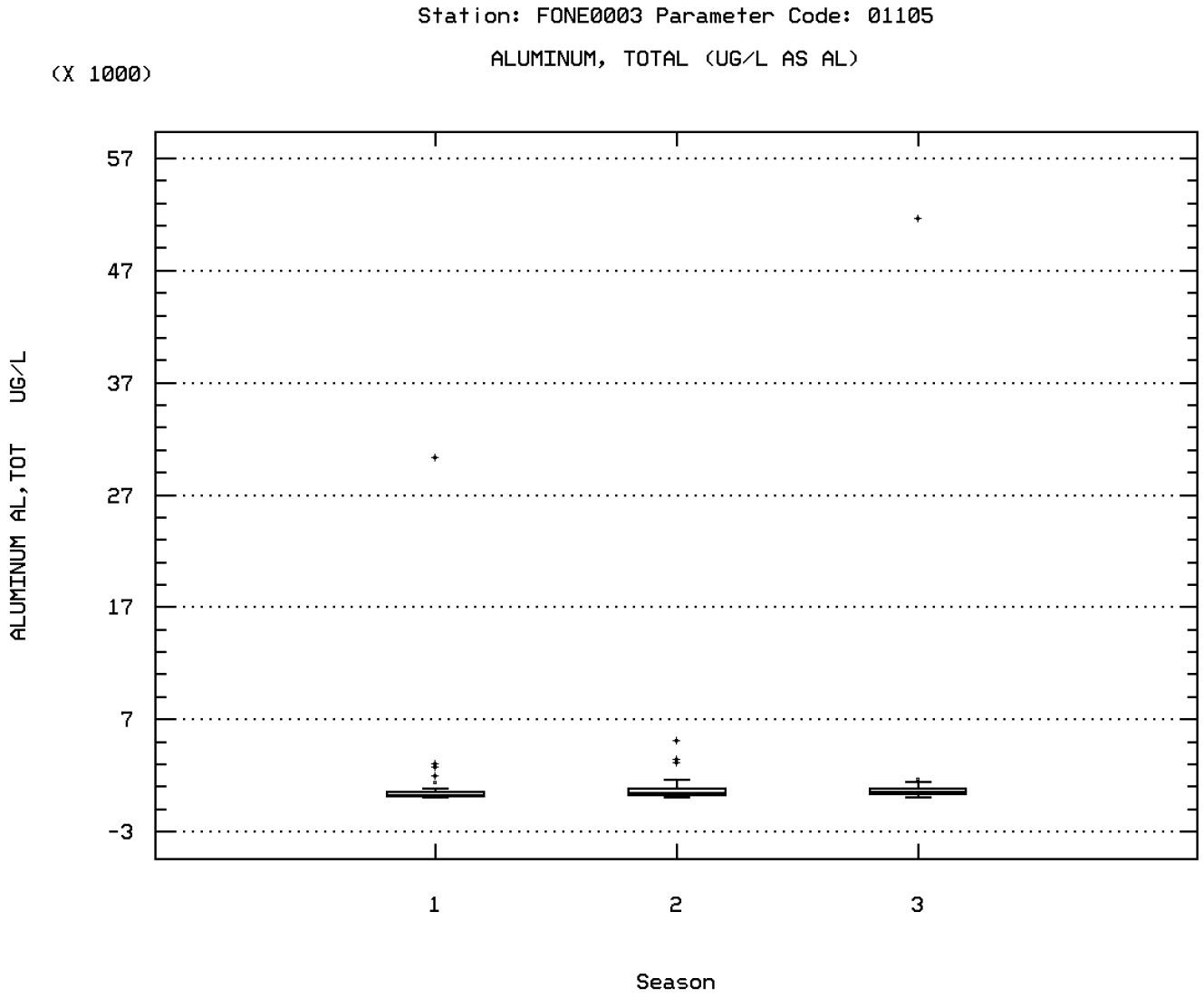
STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01092

ZINC, TOTAL (UG/L AS ZN)



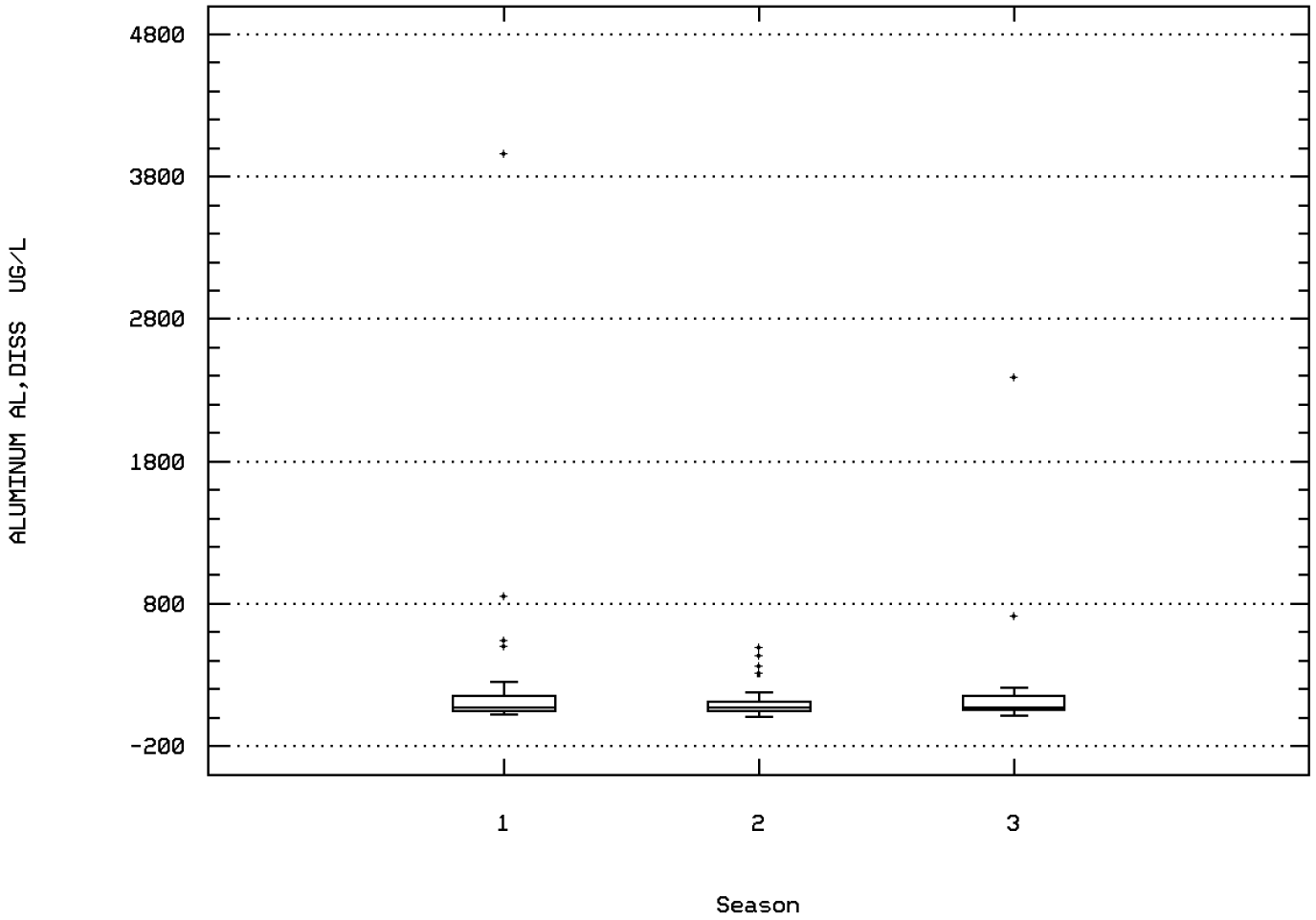
STONY FORK TRIB NR GIBBON GLADE, PA (67



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station: FONE0003 Parameter Code: 01106

ALUMINUM, DISSOLVED (UG/L AS AL)



STONY FORK TRIB NR GIBBON GLADE, PA (67

Station Inventory for Station: FONE0004

NPS Station ID: FONE0004
LAT/LON: 39.766392/ -79.624448
Agency: 21PAMR
Date Created: 07/25/77
Location: STONY FORK AT MOUTH
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010520
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004037
RF1 Mile Point: 3.120
Distance from RF1: 12.60
On/Off RF1: OFF
RF3 Index: 05020004010700.00
RF3 Mile Point: 3.86
Distance from RF3: 0.03
On/Off RF3:
Description:
STONY FORK AT MOUTH OF STONY FORK. AT BRIDGE ON ROUTE 381, 0.3 MILES SOUTH OF ELLIOTSVILLE.

Parameter Inventory for Station: FONE0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/01/77	7	15.5	15.071	21.	9.	25.119	5.012	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/01/77	5	2.	3.26	9.	0.3	12.238	3.498	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/01/77	7	90.	106.286	171.	60.	2495.571	49.956	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	4	8.4	9.025	12.5	6.8	6.043	2.458	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/01/77	7	6.8	6.857	7.2	6.4	0.083	0.288	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/01/77	7	6.8	6.774	7.2	6.4	0.091	0.302	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/01/77	7	0.158	0.168	0.398	0.063	0.014	0.117	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/01/77	7	6.5	6.557	6.8	6.4	0.03	0.172	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-09/01/77	7	6.5	6.53	6.8	6.4	0.03	0.174	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/01/77	7	0.316	0.295	0.398	0.158	0.012	0.107	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/01/77	7	8.	7.714	12.	2.	11.571	3.402	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/01/77	5	10.	11.6	20.	6.	30.8	5.55	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/01/77	5	3.	2.6	3.	2.	0.3	0.548	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/01/77	6	0.	0.667	2.	0.	1.067	1.033	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-08/03/77	5	34.	40.8	66.	24.	273.2	16.529	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/01/77	7	15.	21.857	41.	7.	179.81	13.409	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/01/77	7	620.	915.714	2980.	360.	852661.905	923.397	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/01/77	6	165.	171.667	260.	70.	5416.667	73.598	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	85.	85.	85.	85.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	65.	65.	65.	65.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	85.	85.	85.	85.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/01/77	6	7.5	16.167	58.	4.	435.767	20.875	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00				3	0	0.00			
00400	PH	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	1	0.14	2	0	0.00				5	1	0.20			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	4	0.57	2	1	0.50				5	3	0.60			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	2	0	0.00				5	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0005

NPS Station ID: FONE0005 LAT/LON: 39.766392/ -79.624448 Agency: 112WRD Date Created: 06/29/78
Location: STONY FORK AT MOUTH AT ELLIOTTSVILLE, PA (52) FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03070465
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020004037 RF1 Mile Point: 3.120 Distance from RF1: 9.80 On/Off RF1: OFF
RF3 Index: 05020004010700.00 RF3 Mile Point: 3.64 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/06/78	15	10.5	11.067	21.	0.	42.567	6.524	0.	9.	15.5	20.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-06/06/78	7	6.	11.	36.	2.	142.667	11.944	**	**	**	**
00065	STAGE, STREAM (FEET)	10/04/77-06/06/78	5	1.	1.04	1.3	0.9	0.028	0.167	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/06/78	15	94.	98.667	171.	60.	1186.524	34.446	60.	75.	101.	170.4
00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	4	8.4	9.025	12.5	6.8	6.043	2.458	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-06/06/78	15	6.8	6.82	7.2	6.4	0.045	0.211	6.52	6.7	7.	7.14
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-06/06/78	15	6.8	6.773	7.2	6.4	0.047	0.217	6.52	6.7	7.	7.14
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/06/78	15	0.158	0.169	0.398	0.063	0.007	0.083	0.073	0.1	0.2	0.31
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/06/78	15	8.	8.133	14.	2.	8.981	2.997	3.8	6.	10.	12.8
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-06/06/78	13	3.	2.846	4.	2.	0.641	0.801	2.	2.	3.5	4.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-06/06/78	14	0.	1.143	10.	0.	7.055	2.656	0.	0.	1.25	6.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-08/03/77	5	34.	40.8	66.	24.	273.2	16.529	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/06/78	15	15.	18.333	41.	2.	154.095	12.414	4.4	7.	32.	39.8
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-10/04/77	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-10/04/77	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-10/04/77	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-10/04/77	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-10/04/77	2 ##	5.5	5.5	10.	1.	40.5	6.364	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-10/04/77	2 ##	5.5	5.5	10.	1.	40.5	6.364	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-10/04/77	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-10/04/77	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/06/78	15	500.	1038.667	5480.	200.	1962498.095	1400.892	224.	390.	800.	3980.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/06/78	14	140.	170.	380.	60.	10046.154	100.231	65.	95.	252.5	360.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-10/04/77	2	62.5	62.5	85.	40.	1012.5	31.82	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-10/04/77	2	52.5	52.5	65.	40.	312.5	17.678	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-10/04/77	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-10/04/77	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-10/04/77	2 ##	17.5	17.5	25.	10.	112.5	10.607	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-10/04/77	2 ##	15.5	15.5	21.	10.	60.5	7.778	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-10/04/77	2	147.5	147.5	210.	85.	7812.5	88.388	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-10/04/77	2	40.5	40.5	70.	11.	1740.5	41.719	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-10/04/77	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-10/04/77	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-10/04/77	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-10/04/77	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-06/06/78	10	8.5	24.7	122.	4.	1425.122	37.751	4.1	5.75	25.75	115.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/13/78-06/06/78	3	0.21	4.097	12.	0.08	46.851	6.845	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0005

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00				3	0	0.00			
00400	PH	Other-Hi Lim.	9.	15	0	0.00	3	0	0.00	4	0	0.00	8	0	0.00			
		Other-Lo Lim.	6.5	15	1	0.07	3	0	0.00	4	0	0.00	8	1	0.13			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	15	0	0.00	3	0	0.00	4	0	0.00	8	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0006

NPS Station ID: FONE0006
LAT/LON: 39.768337/ -79.614449
Agency: 21PAMR
Date Created: 07/25/77
Location: DEEP MINE DISCHARGE BELOW STA 51
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM0100I0
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 19.50
On/Off RF1:
RF3 Index: 05020004024800.28
RF3 Mile Point: 1.18
Distance from RF3: 0.03
On/Off RF3:
Description:
ABANDONED DEEP MINE DISCHARGE INTO STONY FORK DOWNSTREAM OF STATION 51.

Parameter Inventory for Station: FONE0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/77-09/01/77	5	9.5	9.2	10.5	7.	1.825	1.351	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/77-08/03/77	3	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/04/77-09/01/77	5	1605.	1558.8	1950.	920.	158599.7	398.246	**	**	**	**
00400	PH (STANDARD UNITS)	05/04/77-09/01/77	4	2.8	2.8	3.	2.6	0.027	0.163	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/04/77-09/01/77	4	2.8	2.777	3.	2.6	0.027	0.165	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/77-09/01/77	4	1584.893	1670.418	2511.886	1000.	390719.467	625.076	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/04/77-09/01/77	5	2.6	2.62	2.8	2.5	0.012	0.11	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/04/77-09/01/77	5	2.6	2.61	2.8	2.5	0.012	0.11	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/77-09/01/77	5	2511.886	2456.566	3162.278	1584.893	316755.87	562.811	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/28/77-06/28/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/01/77	5	512.	514.6	677.	240.	32501.8	180.283	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	05/04/77-09/01/77	5	380.	343.2	496.	200.	13883.2	117.827	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	05/04/77-09/01/77	5	620.	542.	770.	228.	43224.	207.904	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/77-09/01/77	5	720.	560.4	950.	12.	170700.8	413.16	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/77-09/01/77	5	111000.	127750.	167500.	95000.	1099625000.	33160.594	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/77-09/01/77	5	107000.	125950.	166000.	93750.	1136668750.	33714.518	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0006

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	4	0	0.00	2	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00	2	2	1.00				2	2	1.00			
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00	2	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	5	5	1.00	2	2	1.00				3	3	1.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	3	0.60	2	1	0.50				3	2	0.67			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0007

NPS Station ID: FONE0007 LAT/LON: 39.768337/ -79.614449 Agency: 112WRD Date Created: 06/29/78
Location: JONES MINE DIS. NR MOUTH OF STONY FORK, PA (I) FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03070460
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 05020004 RF1 Mile Point: 0.000 Distance from RF1: 12.50 On/Off RF1:
RF3 Index: 05020004010700.00 RF3 Mile Point: 3.86 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/77-09/06/78	16	9.	7.719	11.	0.5	9.599	3.098	1.55	5.875	9.875	10.65
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/77-09/06/78	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/77-09/06/78	16	1275.	1265.25	1950.	620.	166271.	407.763	711.	925.	1578.75	1858.3
00400	PH (STANDARD UNITS)	05/04/77-09/06/78	16	2.7	2.719	3.	2.5	0.015	0.122	2.57	2.625	2.8	2.93
00400	CONVERTED PH (STANDARD UNITS)	05/04/77-09/06/78	16	2.7	2.703	3.	2.5	0.015	0.123	2.57	2.625	2.8	2.93
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/77-09/06/78	16	1995.262	1979.899	3162.278	1000.	279786.475	528.948	1181.248	1584.893	2382.73	2707.004
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/06/78	16	490.	458.313	677.	148.	27563.963	166.024	212.4	325.	605.	676.3
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	05/04/77-09/06/78	16	310.	325.563	650.	136.	18499.063	136.011	179.4	201.75	410.	542.2
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	05/04/77-09/06/78	16	430.5	407.313	770.	81.	37681.296	194.117	125.1	241.	565.5	676.2
00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/77-09/06/78	16	595.5	527.625	950.	12.	85937.85	293.152	17.6	290.	738.75	901.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/04/77-10/04/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/04/77-10/04/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/04/77-07/11/78	2	14.5	14.5	22.	7.	112.5	10.607	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/04/77-07/11/78	2	15.	15.	22.	8.	98.	9.899	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/04/77-10/04/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/04/77-10/04/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/04/77-07/11/78	2 ##	20.	20.	30.	10.	200.	14.142	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/04/77-07/11/78	2 ##	20.	20.	30.	10.	200.	14.142	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/04/77-07/11/78	2	25.	25.	30.	20.	50.	7.071	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	10/04/77-07/11/78	2	30.	30.	40.	20.	200.	14.142	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/04/77-07/11/78	2	65.	65.	100.	30.	2450.	49.497	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/04/77-07/11/78	2	65.	65.	100.	30.	2450.	49.497	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/04/77-09/06/78	16	104150.	109267.5	224500.	23380.	2538419300.	50382.728	42364.	69150.	143600.	184600.
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/77-09/06/78	16	103250.	106295.625	221500.	21880.	2628352572.917	51267.461	39534.	61725.	141650.	182650.
01049	LEAD, DISSOLVED (UG/L AS PB)	10/04/77-10/04/77	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/04/77-10/04/77	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-07/11/78	2	1090.	1090.	1590.	590.	500000.	707.107	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-07/11/78	2	1085.	1085.	1580.	590.	490050.	700.036	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/04/77-07/11/78	2	240.	240.	340.	140.	20000.	141.421	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/04/77-07/11/78	2	240.	240.	340.	140.	20000.	141.421	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/04/77-07/11/78	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/04/77-07/11/78	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-10/04/77	1	730.	730.	730.	730.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-10/04/77	1	730.	730.	730.	730.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-10/04/77	1	33000.	33000.	33000.	33000.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-10/04/77	1	31250.	31250.	31250.	31250.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/04/77-07/11/78	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/04/77-07/11/78	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/04/77-07/11/78	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/04/77-07/11/78	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	16	0	0.00	6	0	0.00	4	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	16	16	1.00	6	6	1.00	4	4	1.00	6	6	1.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	16	13	0.81	6	5	0.83	4	4	1.00	6	4	0.67			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	2	0	0.00									
		Drinking Water	4.	2	2	1.00	2	2	1.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	2	0	0.00									
		Drinking Water	4.	2	2	1.00	2	2	1.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	2	1.00	2	2	1.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	2	2	1.00	2	2	1.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	2	1.00	2	2	1.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	2	1.00	2	2	1.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0008

NPS Station ID: FONE0008
LAT/LON: 39.768892/ -79.609449
Agency: 112WRD
Date Created: 06/29/78
Location: STONY FORK NEAR ELLIOTTSVILLE, PA (51)
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070455
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 18.50
On/Off RF1:
RF3 Index: 05020004010700.00
RF3 Mile Point: 4.39
Distance from RF3: 0.15
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	160	10.	10.473	23.	0.	47.319	6.879	0.5	5.	16.	19.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	145	6.	31.559	999.	0.1	14666.917	121.107	0.8	2.	16.	40.4
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	118	1.05	1.244	10.5	0.6	0.944	0.971	0.768	0.888	1.31	1.763
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	161	110.	160.491	999.	54.	15996.664	126.478	71.	85.	190.	324.6
00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	4	8.65	8.575	10.	7.	1.643	1.282	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	158	6.6	6.477	7.7	4.2	0.413	0.642	5.6	6.2	6.9	7.2
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	158	6.6	5.726	7.7	4.2	0.981	0.99	5.6	6.2	6.9	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	158	0.251	1.88	63.096	0.02	45.922	6.777	0.063	0.126	0.631	2.512
00403	PH, LAB, STANDARD UNITS SU	10/28/87-06/28/94	22	6.1	5.905	7.	4.5	0.681	0.825	4.66	5.05	6.575	6.97
00403	CONVERTED PH, LAB, STANDARD UNITS	10/28/87-06/28/94	22	6.089	5.258	7.	4.5	1.119	1.058	4.66	5.05	6.575	6.97
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/87-06/28/94	22	0.815	5.518	31.623	0.1	78.228	8.845	0.108	0.277	9.105	22.338
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	148	8.	10.071	42.	0.	49.629	7.045	3.9	5.25	12.	18.1
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	10/28/87-09/21/88	11	8.	7.273	10.	6.	1.818	1.348	6.	6.	8.	9.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	79	4.	5.468	70.	1.	67.509	8.216	2.	3.	5.	12.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/06/78	42	0.	0.31	2.	0.	0.329	0.573	0.	0.	0.625	1.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/28/87-06/28/94	22	173.	242.727	744.	78.	28978.874	170.232	91.	121.5	381.5	480.5
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/28/87-06/28/94	22	2.	4.682	14.	1.	22.132	4.704	1.	1.	7.	14.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-08/03/77	5	34.	41.8	71.	24.	381.2	19.524	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-06/28/94	21	20.4	28.21	70.2	10.4	299.67	17.311	11.72	14.4	41.05	55.26
00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	1	18.1	18.1	18.1	18.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-06/28/94	21	6.4	9.429	20.9	3.8	34.161	5.845	4.06	4.6	14.4	18.66
00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	1	3.49	3.49	3.49	3.49	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-06/28/94	21	2.94	3.499	10.2	1.54	4.627	2.151	1.572	1.945	4.12	7.088
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-06/28/94	21	1.69	1.757	3.03	1.02	0.277	0.526	1.174	1.35	2.175	2.508
00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/28/94	20	5.	4.95	8.	3.	2.471	1.572	3.	4.	6.	7.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	156	34.	54.506	377.	6.	3772.587	61.421	10.	16.	66.	127.9
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	20 ##	0.1	0.148	0.94	0.05	0.039	0.197	0.05	0.05	0.115	0.3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/21/88	13 ##	5.	3.385	5.	0.5	4.673	2.162	0.5	0.5	5.	5.
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/21/88	14 ##	5.	3.179	5.	0.5	4.908	2.215	0.5	0.5	5.	5.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	1 ##	125.	125.	125.	125.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/28/85	12 ##	1.	1.083	3.	0.	0.72	0.848	0.15	0.5	1.75	2.7
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/28/85	13 ##	1.	1.923	7.	0.5	5.494	2.344	0.5	0.5	2.	7.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/21/88	16 ##	5.	7.625	25.	2.	28.25	5.315	4.1	5.	10.	14.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/21/88	16 ##	7.5	8.313	25.	3.	26.896	5.186	4.4	5.	10.	14.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-09/21/88	4 ##	1.	9.75	36.	1.	306.25	17.5	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-09/21/88	4 ##	1.5	10.	36.	1.	300.667	17.34	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/21/88	16 ##	10.	7.813	10.	5.	6.563	2.562	5.	5.	10.	10.
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/21/88	16	10.	11.813	44.	5.	75.229	8.673	8.5	10.	10.	20.2
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	159	470.	1201.088	20600.	5.	5779193.65	2403.995	176.	310.	980.	2100.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	157	150.	214.42	1160.	5.	42668.297	206.563	40.	80.	255.	502.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/21/88	14 ##	5.	4.786	25.	0.	37.72	6.142	0.5	1.	5.	15.
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/21/88	14 ##	5.	5.714	25.	1.	35.297	5.941	1.	2.	5.	17.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	109	900.	1305.376	7120.	60.	1898717.959	1377.94	120.	305.	1565.	3210.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	101	830.	1173.584	6780.	40.	1544606.585	1242.822	90.2	240.	1485.	2776.
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/21/88	16 ##	10.	14.125	50.	5.	163.583	12.79	5.	5.	20.	40.2
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/21/88	16 ##	10.	15.5	50.	5.	206.667	14.376	5.	5.	20.	46.5
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	1	59.	59.	59.	59.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	1	59.	59.	59.	59.	0.	0.	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	108	40.	62.	640.	5.	5958.935	77.194	10.	20.	70.	130.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	109	60.	75.67	610.	5.	5742.853	75.782	20.	30.	100.	150.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	109	360.	739.275	6150.	5.	1126747.933	1061.484	67.5	150.	864.5	1740.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	108	67.5	263.528	3850.	5.	319125.457	564.912	25.	50.	170.	668.1
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-09/21/88	14 ##	5.	4.857	5.	3.	0.286	0.535	4.	5.	5.	5.
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-09/21/88	14 ##	5.	4.857	5.	3.	0.286	0.535	4.	5.	5.	5.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/28/87-06/28/94	22	8.	12.136	40.	0.	200.6	14.163	0.	0.	22.5	37.4
71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	36	0.08	0.166	1.2	0.02	0.045	0.212	0.04	0.065	0.2	0.4
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/21/88	14 ##	0.5	0.429	0.5	0.25	0.014	0.117	0.25	0.25	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/21/88	15 ##	0.5	0.417	0.5	0.25	0.015	0.122	0.25	0.25	0.5	0.5
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	123	10.	40.163	647.	0.	8707.334	93.313	2.	5.	23.	120.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	90	0.18	15.281	423.	0.	4053.003	63.663	0.01	0.03	1.4	22.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00				3	0	0.00			
00400	PH	Other-Hi Lim.	9.	158	0	0.00	50	0	0.00	51	0	0.00	57	0	0.00			
		Other-Lo Lim.	6.5	158	75	0.47	50	20	0.40	51	23	0.45	57	32	0.56			
00403	PH, LAB	Other-Hi Lim.	9.	22	0	0.00	7	0	0.00	5	0	0.00	10	0	0.00			
		Other-Lo Lim.	6.5	22	17	0.77	7	4	0.57	5	5	1.00	10	8	0.80			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	20	0	0.00	5	0	0.00	5	0	0.00	10	0	0.00			
		Drinking Water	250.	20	0	0.00	5	0	0.00	5	0	0.00	10	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	156	2	0.01	48	2	0.04	52	0	0.00	56	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	20	0	0.00	5	0	0.00	5	0	0.00	10	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	50.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	12	0	0.00	5	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	5.	12	0	0.00	5	0	0.00	2	0	0.00	5	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	13	2	0.15	5	0	0.00	2	1	0.50	6	1	0.17			
		Drinking Water	5.	13	2	0.15	5	0	0.00	2	1	0.50	6	1	0.17			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	1300.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

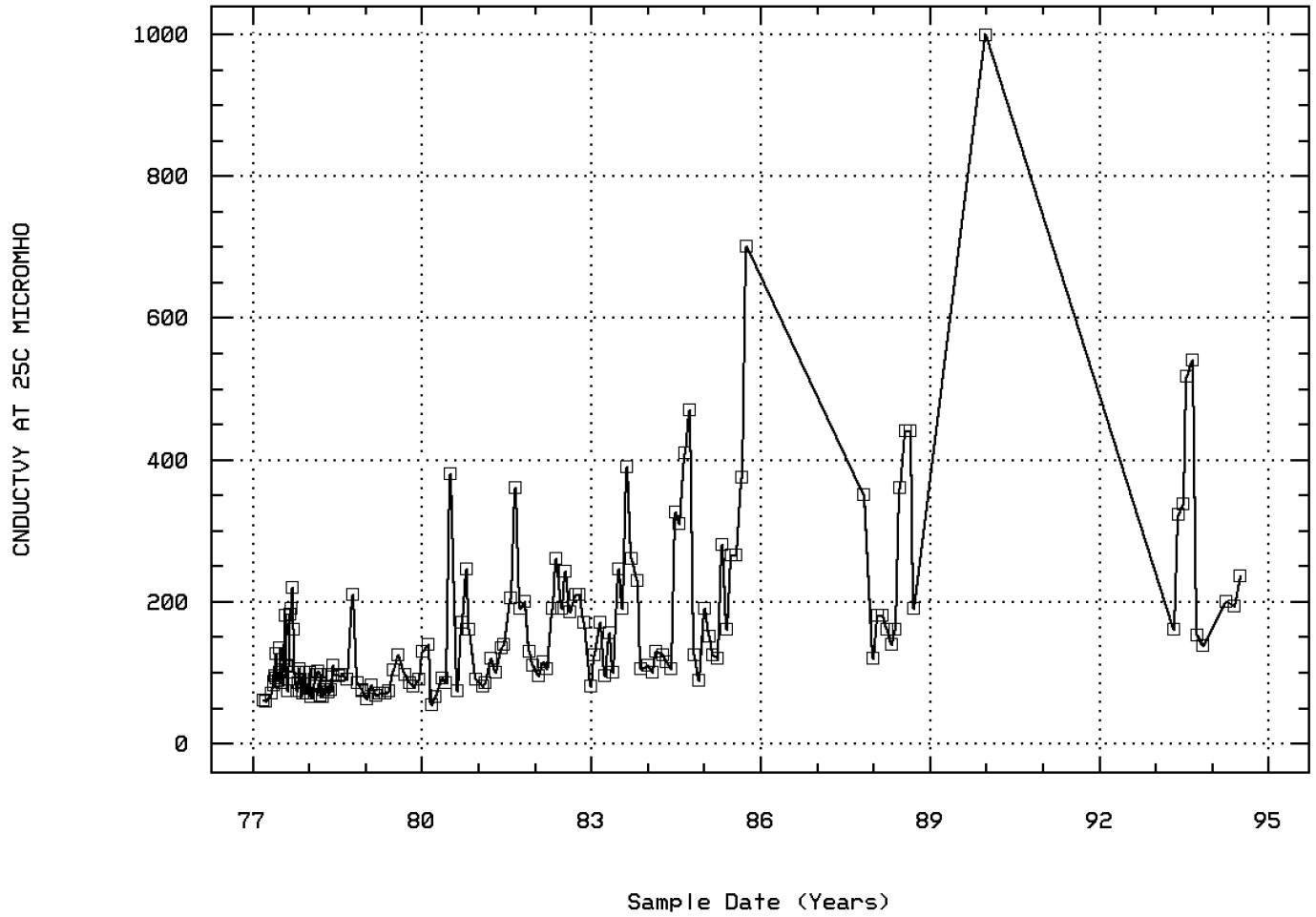
EPA Water Quality Criteria Analysis for Station: FONE0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01042	COPPER, TOTAL	Fresh Acute	18.	16	1	0.06	8	1	0.13	2	0	0.00	6	0	0.00			
		Drinking Water	1300.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	15.	13 &	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	15.	13 &	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	108	13	0.12	35	5	0.14	36	3	0.08	37	5	0.14			
		Drinking Water	5000.	108	0	0.00	35	0	0.00	36	0	0.00	37	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	109	17	0.16	36	5	0.14	36	5	0.14	37	7	0.19			
		Drinking Water	5000.	109	0	0.00	36	0	0.00	36	0	0.00	37	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	14	0	0.00	7	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	2.	14	0	0.00	7	0	0.00	2	0	0.00	5	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	2.	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			

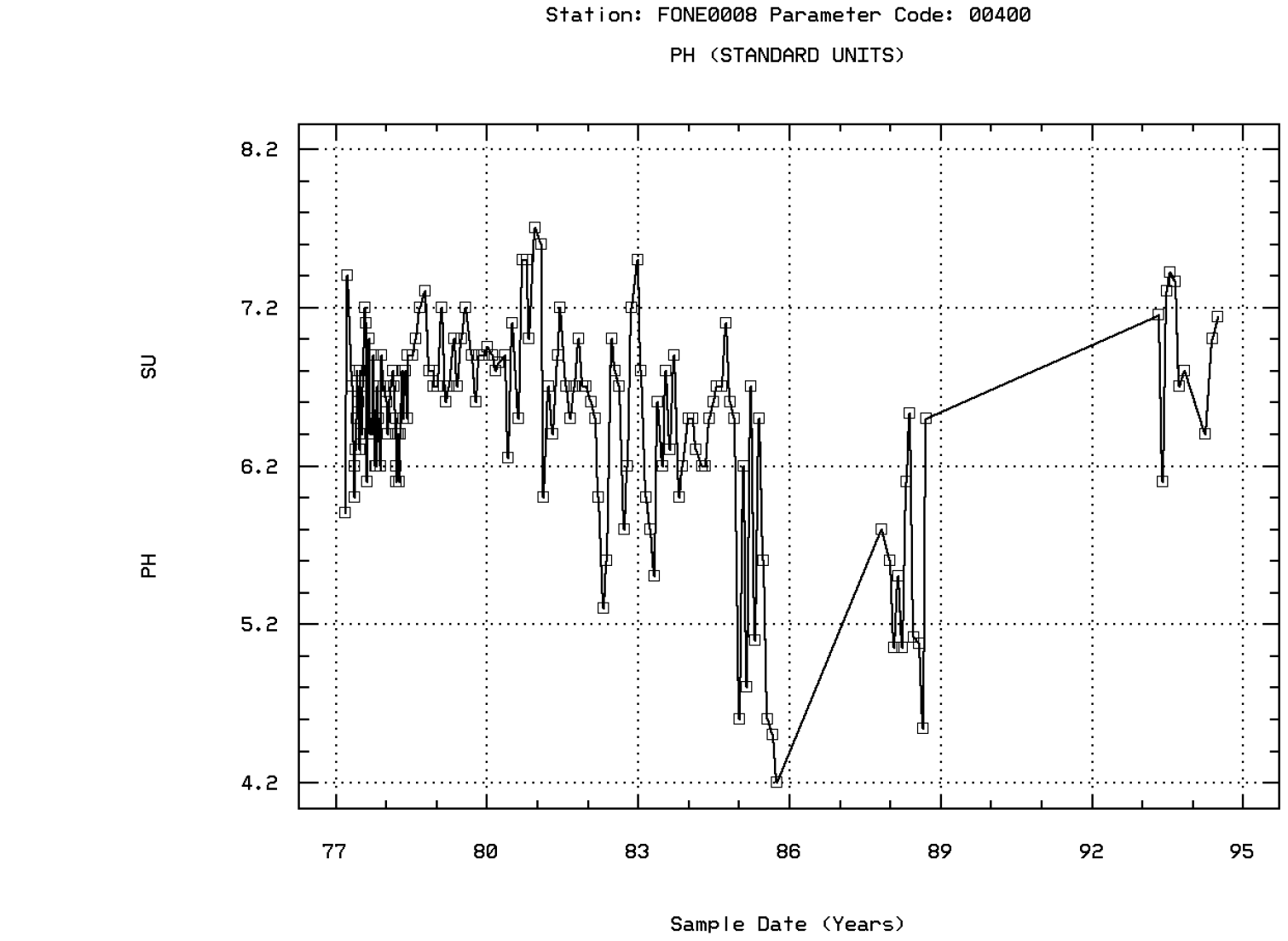
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: FONE0008 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



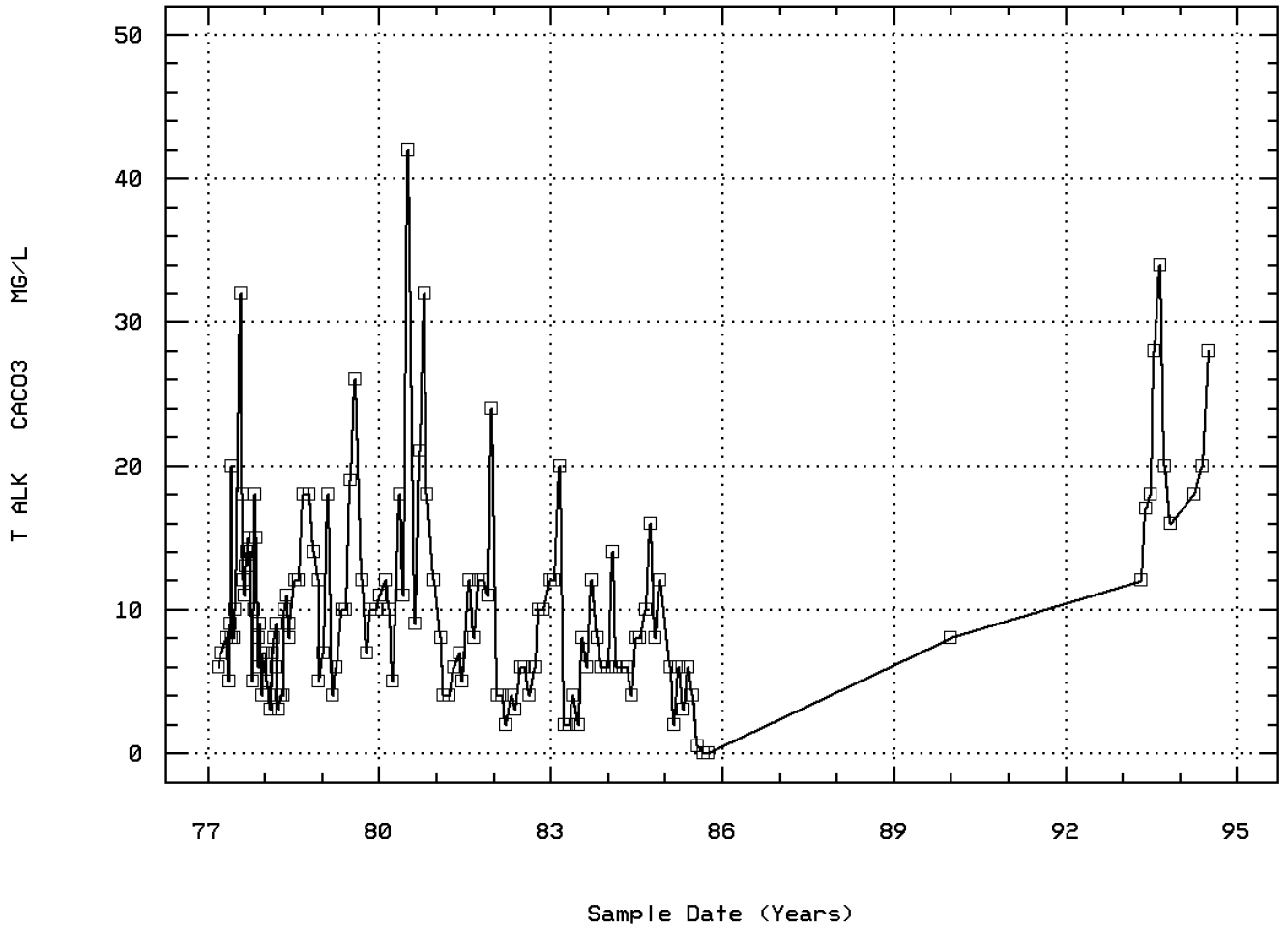
STONY FORK NEAR ELLIOTTSVILLE, PA (51)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 00410

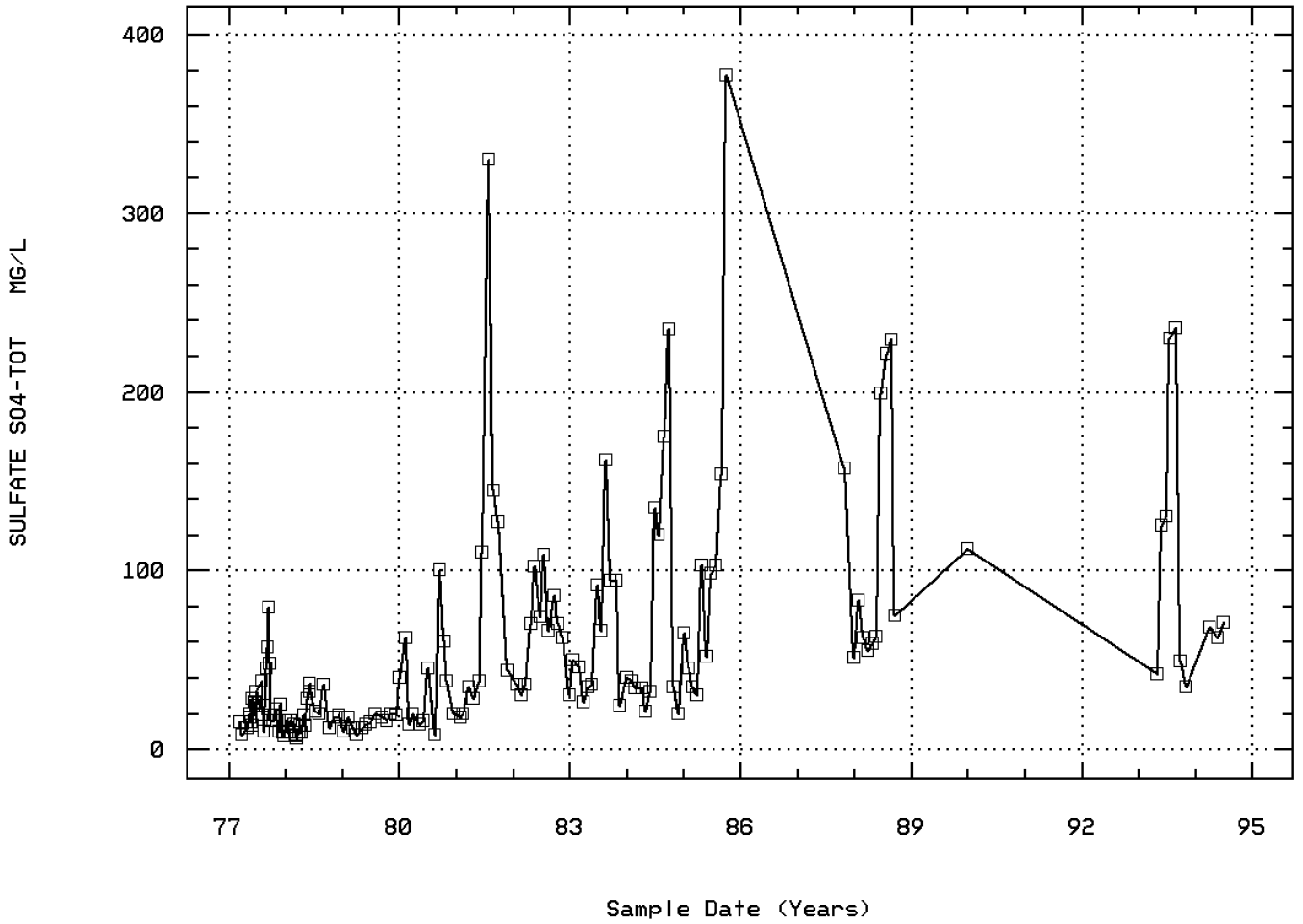
ALKALINITY, TOTAL (MG/L AS CACO3)



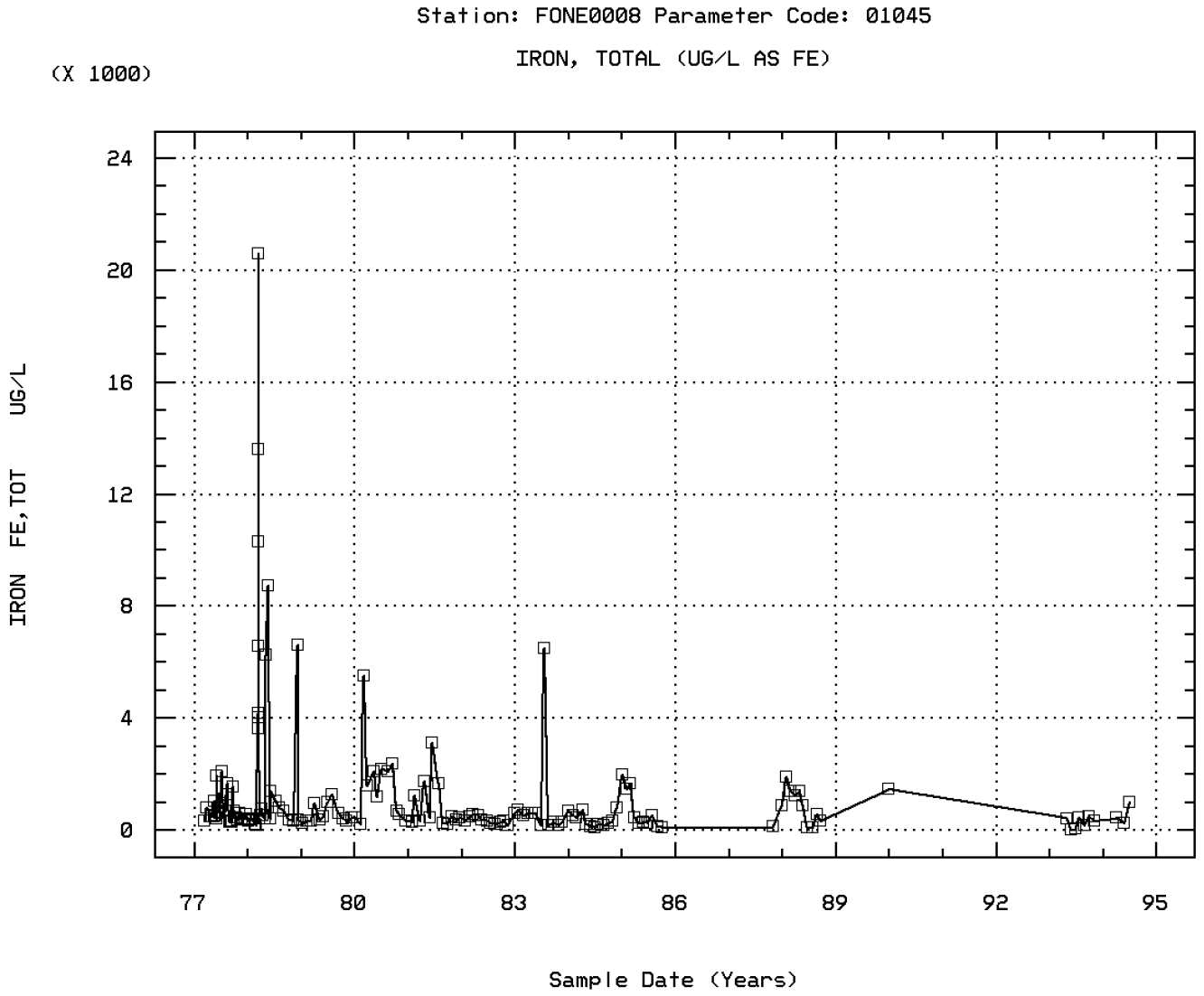
STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 00945

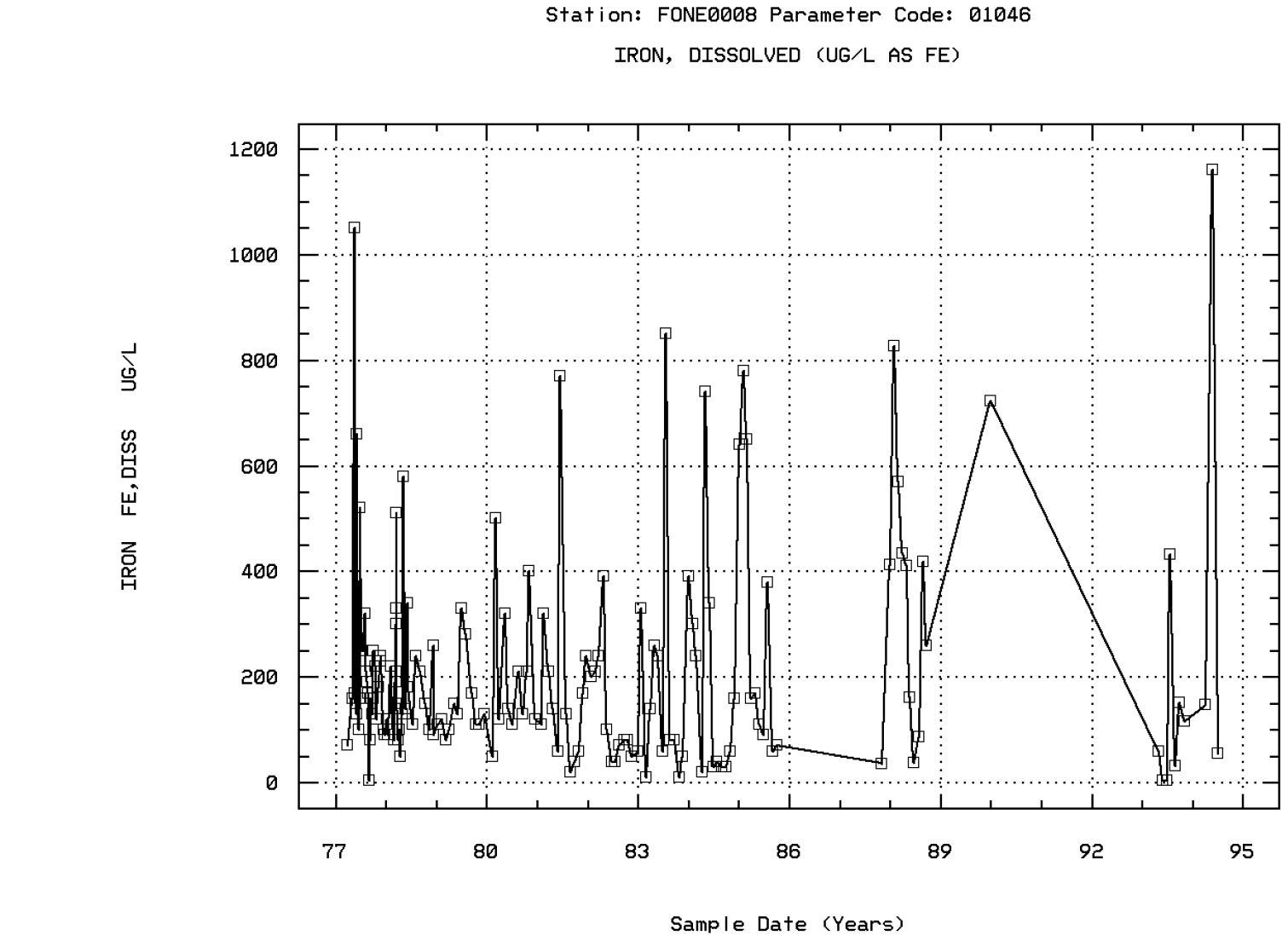
SULFATE, TOTAL (MG/L AS SO4)



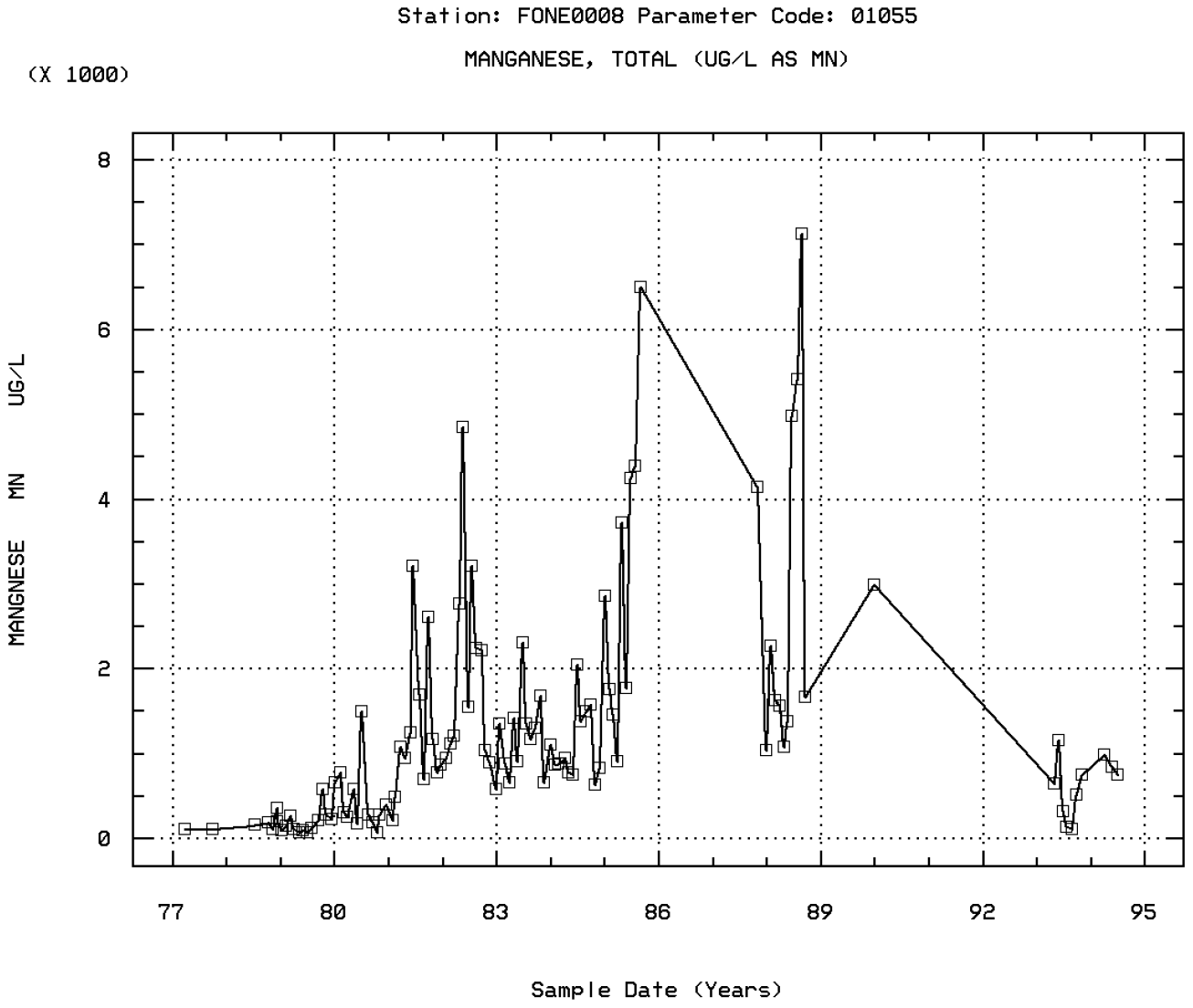
STONY FORK NEAR ELLIOTTSVILLE, PA (51)



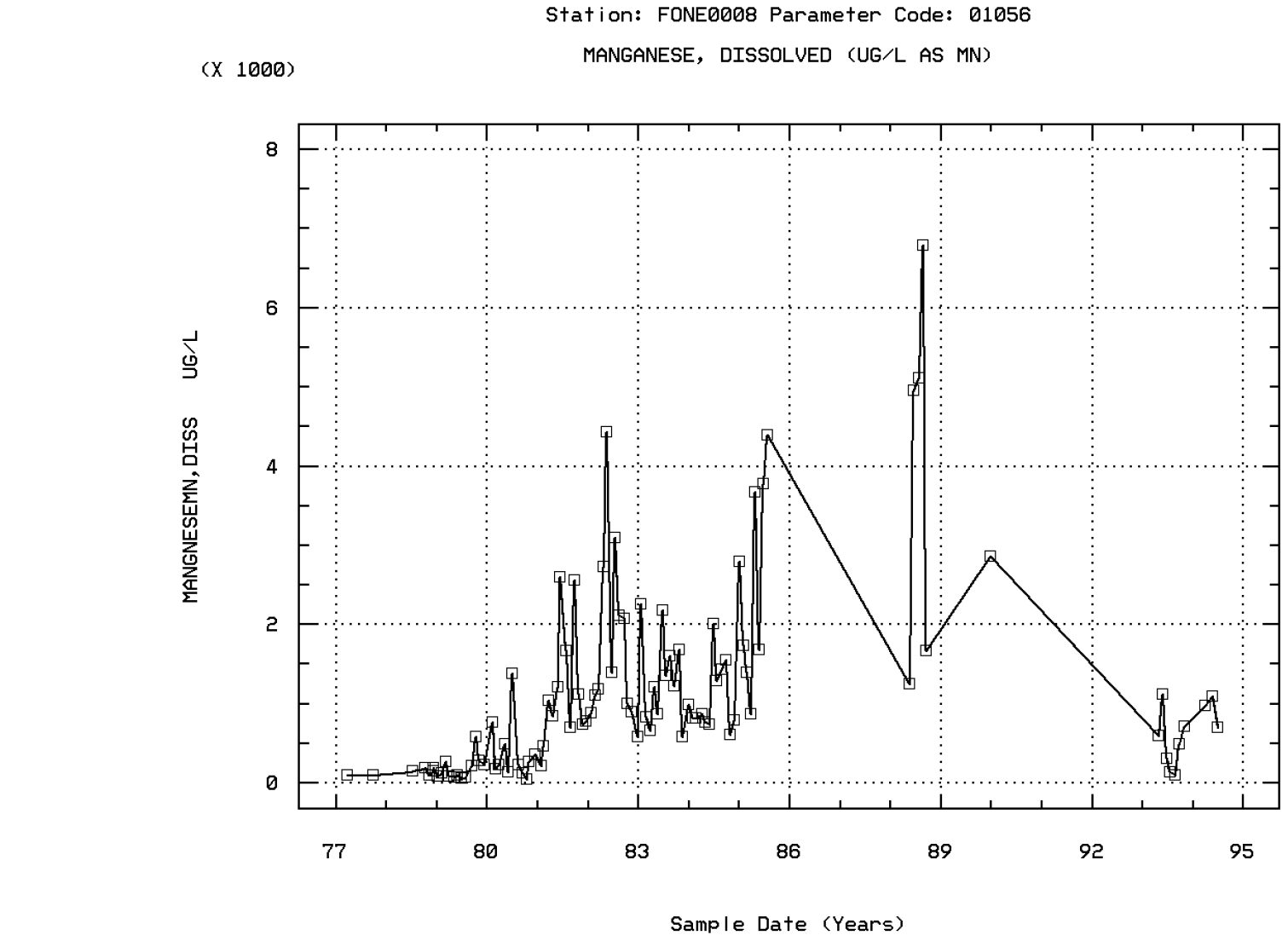
STONY FORK NEAR ELLIOTTSVILLE, PA (51)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)



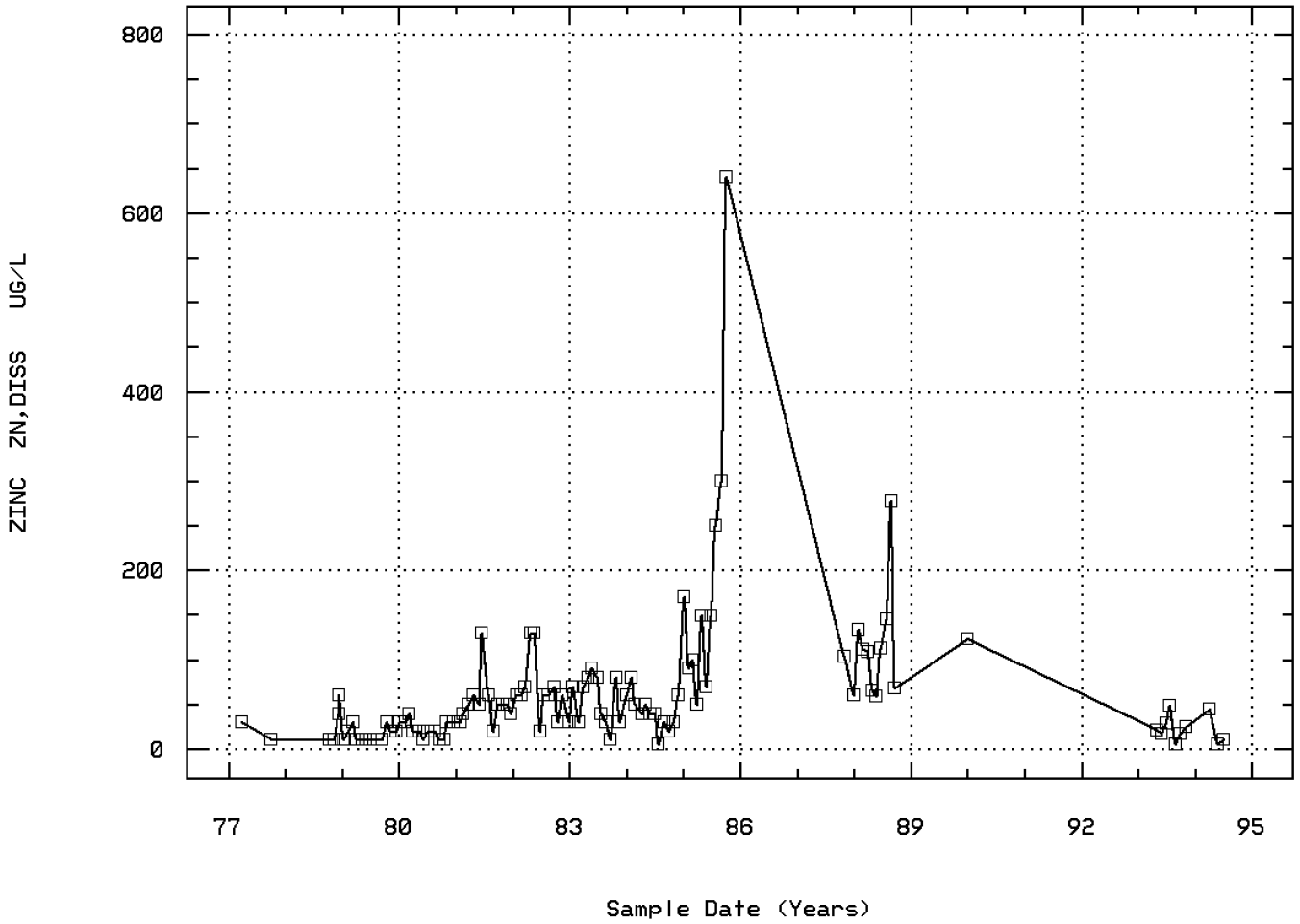
STONY FORK NEAR ELLIOTTSVILLE, PA (51)



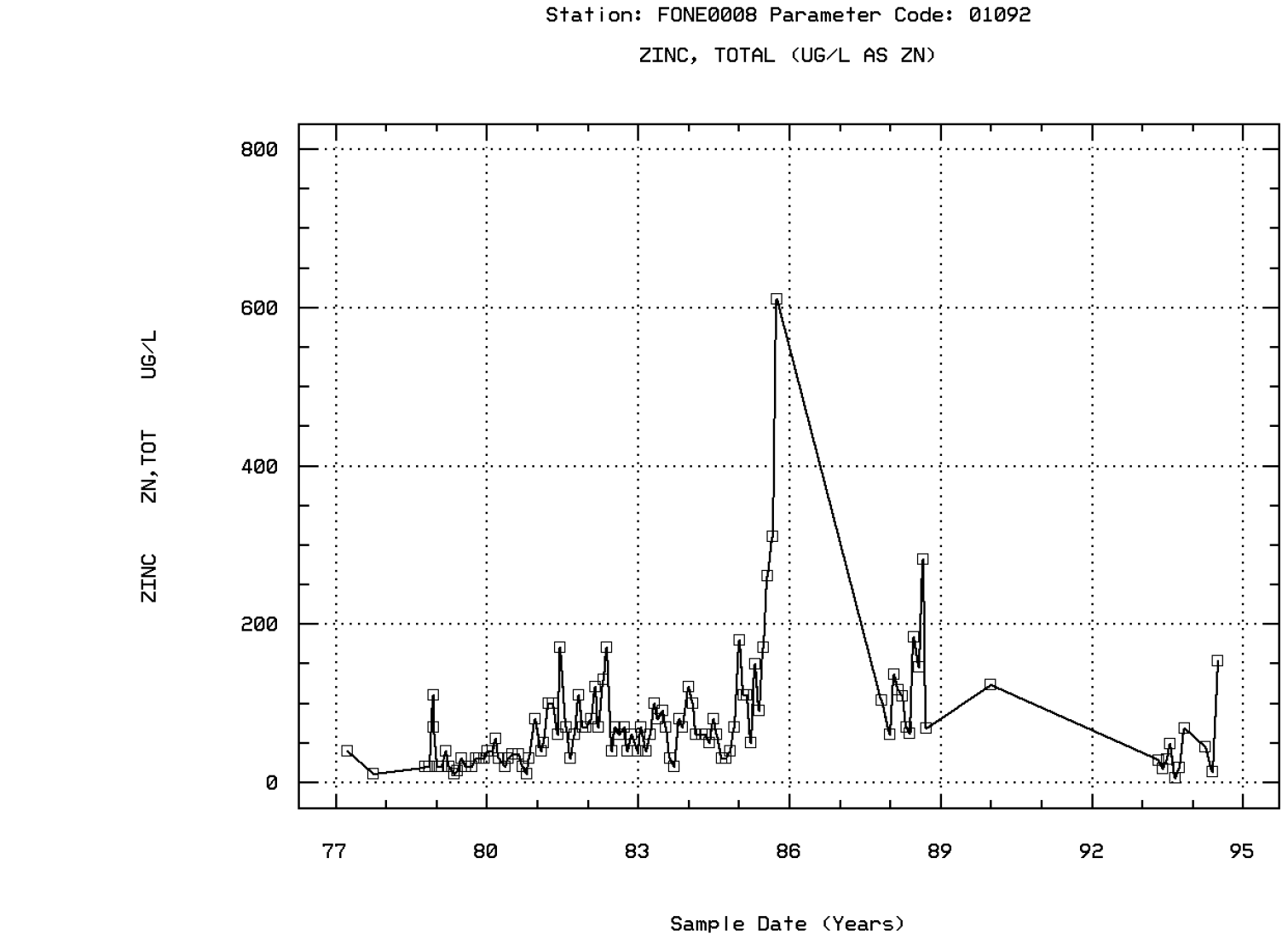
STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01090

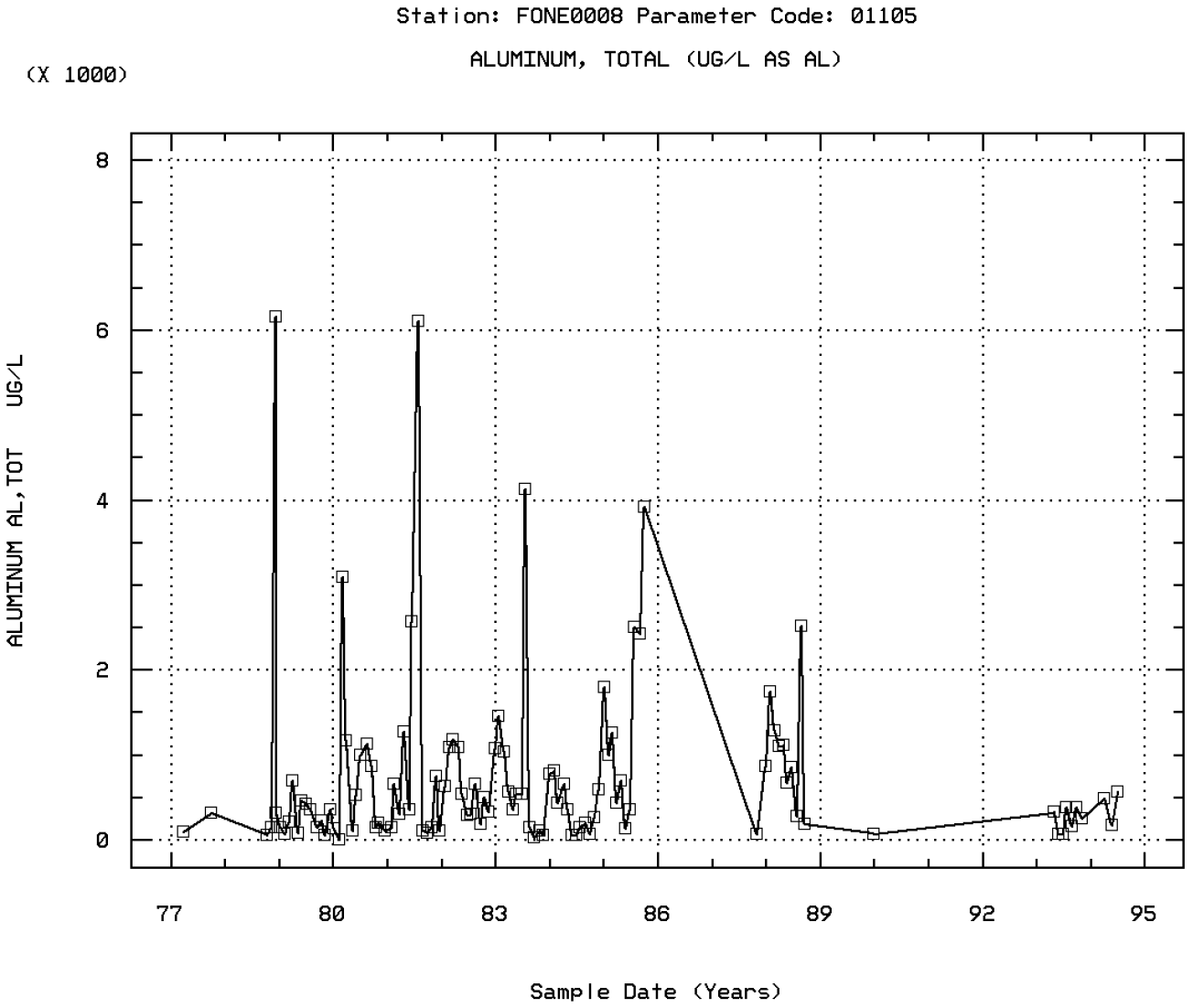
ZINC, DISSOLVED (UG/L AS ZN)



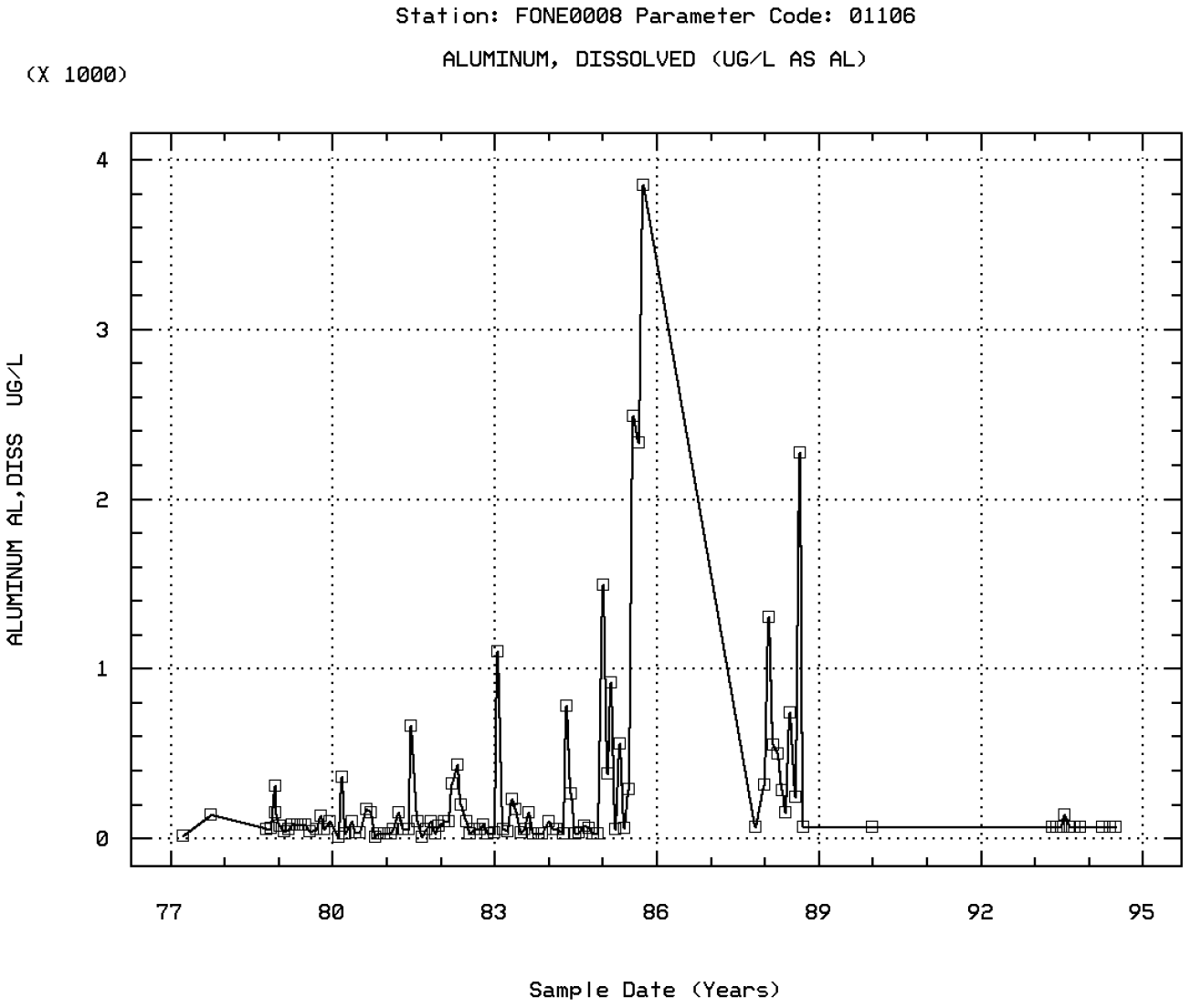
STONY FORK NEAR ELLIOTTSVILLE, PA (51)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Annual Analysis for 1977 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	31	14.5	13.177	22.5	0.	34.742	5.894	4.	8.	18.	20.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	27	2.	5.215	24.	0.2	36.051	6.004	0.3	0.9	8.	16.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	27	0.92	0.966	1.43	0.6	0.047	0.217	0.66	0.79	1.13	1.302
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	31	92.	104.613	220.	59.	1693.445	41.151	70.	74.	110.	181.6
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	29	6.5	6.545	7.4	5.9	0.138	0.371	6.1	6.2	6.8	7.1
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	29	6.5	6.411	7.4	5.9	0.156	0.395	6.1	6.2	6.8	7.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	29	0.316	0.388	1.259	0.04	0.087	0.295	0.079	0.158	0.631	0.794
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	29	10.	11.034	32.	4.	34.463	5.871	5.	7.	14.	18.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	7	2.	2.143	3.	1.	0.81	0.9	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	29	19.	23.483	79.	7.	267.401	16.352	9.	12.5	27.	48.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	29	580.	738.103	2070.	280.	246490.025	496.478	310.	390.	880.	1670.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	28	170.	227.321	1050.	5.	43249.041	207.964	79.	122.5	247.5	534.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	2	105.	105.	110.	100.	50.	7.071	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	2	90.	90.	90.	90.	0.	0.	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	2 ##	20.	20.	30.	10.	200.	14.142	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	2 ##	24.5	24.5	39.	10.	420.5	20.506	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	2	208.	208.	320.	96.	25088.	158.392	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	2	77.5	77.5	140.	15.	7812.5	88.388	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	23	11.	16.826	64.	2.	267.696	16.361	2.4	4.	23.	42.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	20	0.04	0.205	1.6	0.	0.14	0.374	0.	0.01	0.29	0.613

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	27	5.	6.622	19.5	0.	45.655	6.757	0.08	0.5	12.5	17.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	27	13.	52.211	282.	0.7	6021.673	77.599	2.	4.	70.	196.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	27	1.25	1.507	3.2	0.73	0.493	0.702	0.894	0.99	1.9	2.75
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	27	84.	87.778	210.	65.	753.256	27.446	66.	74.	96.	102.8
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	27	6.6	6.607	7.3	6.1	0.1	0.316	6.18	6.4	6.8	7.04
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	27	6.6	6.505	7.3	6.1	0.111	0.333	6.18	6.4	6.8	7.04
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	27	0.251	0.313	0.794	0.05	0.046	0.215	0.093	0.158	0.398	0.664
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	27	7.	7.889	18.	1.	19.487	4.414	3.	4.	11.	14.8
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	21	4.	3.571	5.	2.	0.857	0.926	2.	3.	4.	4.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	26	14.	16.038	37.	6.	78.038	8.834	7.	8.75	19.25	33.2
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	27	760.	3458.148	20600.	170.	24918131.054	4991.806	276.	370.	6250.	10968.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	27	150.	192.593	580.	50.	16496.866	128.44	80.	100.	240.	374.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	5	180.	200.	360.	100.	9400.	96.954	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	5	140.	148.	190.	90.	1570.	39.623	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	4 ##	25.	30.	60.	10.	600.	24.495	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	4	45.	55.	110.	20.	1900.	43.589	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	4	225.	1662.5	6150.	50.	8961691.667	2993.608	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	4	105.	142.5	310.	50.	14491.667	120.381	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	20	60.	145.65	647.	5.	35287.397	187.849	5.	8.5	238.75	533.5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	20	2.6	63.491	423.	0.03	15729.784	125.418	0.03	0.12	62.5	376.3

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	8.75	10.25	23.	0.	53.932	7.344	0.15	4.625	16.	21.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	12	7.	11.217	36.	0.6	132.963	11.531	0.72	3.25	18.	34.2
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	11	1.15	2.015	10.5	0.75	7.997	2.828	0.768	0.94	1.53	8.734

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	81.	83.917	125.	63.	314.992	17.748	64.5	70.25	94.5	118.7
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.9	6.867	7.2	6.6	0.044	0.21	6.6	6.7	7.	7.2
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.9	6.823	7.2	6.6	0.046	0.215	6.6	6.7	7.	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.126	0.15	0.251	0.063	0.005	0.067	0.063	0.1	0.2	0.251
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	10.	11.583	26.	4.	40.447	6.36	4.6	7.	16.5	23.9
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	2.5	3.417	12.	2.	7.902	2.811	2.	2.	3.75	9.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	12	15.5	15.167	20.	8.	16.152	4.019	8.6	12.	18.75	20.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	425.	551.667	1240.	230.	105851.515	325.348	254.	312.5	860.	1162.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	125.	151.667	330.	80.	5778.788	76.018	86.	110.	165.	315.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	130.	185.	580.	60.	21081.818	145.196	63.	90.	252.5	487.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	12	105.	173.333	580.	50.	23078.788	151.917	53.	65.	250.	487.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	11 ##	10.	16.364	30.	10.	65.455	8.09	10.	10.	20.	30.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	20.	23.75	40.	10.	68.75	8.292	11.5	20.	30.	37.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	220.	268.583	690.	50.	37400.447	193.392	56.	95.75	405.	621.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	12	75.	70.833	130.	40.	717.424	26.785	40.	50.	80.	121.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	11.	11.917	27.	5.	42.629	6.529	5.	6.5	15.75	24.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	12	0.16	0.453	2.6	0.01	0.523	0.723	0.022	0.065	0.585	2.063

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Annual Analysis for 1980 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	7.5	9.042	19.	0.	49.884	7.063	0.3	1.5	15.875	18.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	12	7.5	20.575	66.	0.9	683.895	26.151	1.23	2.25	49.5	65.4
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	5	1.03	1.332	1.83	1.	0.191	0.437	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	111.	140.5	380.	54.	8676.273	93.147	57.3	76.75	167.5	339.8
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.925	6.996	7.7	6.25	0.172	0.415	6.325	6.813	7.4	7.64
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.924	6.823	7.7	6.25	0.205	0.453	6.325	6.812	7.4	7.64
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.119	0.15	0.562	0.02	0.023	0.152	0.023	0.044	0.154	0.489
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	12.	16.75	42.	5.	113.295	10.644	6.2	10.25	20.25	39.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	3.5	3.667	6.	1.	2.606	1.614	1.3	2.25	5.	6.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	12	29.	36.417	100.	8.	737.356	27.154	9.8	14.5	56.25	88.6
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	1385.	1600.	5500.	210.	2150963.636	1466.616	240.	465.	2160.	4561.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	11	140.	210.	500.	50.	19540.	139.786	62.	120.	320.	480.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	290.	449.167	1490.	60.	151971.97	389.836	93.	197.5	632.5	1274.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	11	220.	374.545	1370.	40.	149047.273	386.066	56.	130.	480.	1248.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	12	20.	22.5	40.	10.	93.182	9.653	10.	12.5	30.	37.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	32.5	35.417	80.	10.	329.356	18.148	13.	22.5	40.	72.5
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	360.	704.583	3090.	5.	758188.447	870.74	33.5	107.5	1097.5	2511.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	11	30.	84.091	360.	5.	11694.091	108.139	5.	25.	150.	322.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	33.	58.091	227.	1.	4920.091	70.143	1.6	5.	104.	206.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	11	0.27	7.075	40.	0.01	162.607	12.752	0.012	0.02	11.	36.2

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Annual Analysis for 1981 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	9.25	9.792	20.	0.	47.384	6.884	0.	5.25	17.	19.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	12	7.	12.175	47.	0.1	205.749	14.344	0.67	2.25	19.25	42.5
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	3	0.88	0.883	0.96	0.81	0.006	0.075	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	132.5	154.583	360.	80.	5983.902	77.356	81.5	102.5	197.5	313.5
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.7	6.758	7.6	6.	0.161	0.401	6.12	6.55	6.975	7.48
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.7	6.598	7.6	6.	0.189	0.434	6.12	6.55	6.975	7.48

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Annual Analysis for 1981 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.2	0.252	1.	0.025	0.066	0.257	0.037	0.106	0.287	0.819
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	8.	9.417	24.	4.	30.447	5.518	4.	5.25	12.	20.4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	5.	10.083	70.	2.	359.538	18.961	2.3	3.	6.	51.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	10	41.	89.5	330.	18.	9351.611	96.704	18.2	26.	131.5	311.5
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	445.	870.	3090.	180.	789290.909	888.42	198.	297.5	1545.	2679.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	135.	189.167	770.	20.	41299.242	203.222	26.	60.	232.5	635.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	1015.	1249.167	3210.	210.	760171.97	871.878	291.	717.5	1580.	3030.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	12	940.	1156.667	2590.	210.	571933.333	756.263	285.	707.5	1552.5	2578.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	12	50.	52.5	130.	20.	729.545	27.01	23.	40.	57.5	109.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	70.	77.5	170.	30.	1438.636	37.929	33.	52.5	100.	152.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	330.	1048.333	6100.	80.	3046887.879	1745.534	86.	112.5	1140.	5041.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	12	50.	111.25	660.	5.	31432.386	177.292	11.	31.25	100.	507.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	8.	22.583	121.	1.	1218.083	34.901	1.	4.	30.5	101.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	12	0.105	1.05	4.8	0.01	3.211	1.792	0.01	0.02	1.948	4.68

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Annual Analysis for 1982 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	10.	10.458	22.5	1.	41.748	6.461	1.15	6.25	15.625	21.15
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	12	3.5	9.083	33.	1.	112.629	10.613	1.3	2.	14.	30.9
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	12	0.92	1.022	1.49	0.79	0.059	0.242	0.799	0.823	1.21	1.463
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	187.5	171.	260.	80.	3497.455	59.139	84.5	107.5	210.	254.6
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.55	6.433	7.5	5.3	0.446	0.668	5.39	5.85	6.95	7.41
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.547	6.005	7.5	5.3	0.646	0.804	5.39	5.85	6.95	7.41
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.284	0.988	5.012	0.032	2.169	1.473	0.041	0.115	1.439	4.262
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	5.	5.917	12.	2.	9.902	3.147	2.3	4.	9.	11.4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	6.	7.667	16.	1.	26.242	5.123	1.6	4.	12.	16.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	12	68.	64.25	109.	30.	728.386	26.989	30.	36.	83.	106.9
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	325.	356.667	600.	160.	19224.242	138.652	175.	242.5	490.	582.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	80.	130.	390.	40.	11636.364	107.872	40.	52.5	207.5	345.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	1375.	1881.667	4840.	580.	1542578.788	1242.006	673.	962.5	2630.	4351.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	12	1285.	1785.833	4430.	580.	1314135.606	1146.358	670.	915.	2567.5	4028.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	12	60.	65.	130.	20.	1190.909	34.51	23.	37.5	70.	130.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	70.	79.167	170.	40.	1644.697	40.555	40.	45.	110.	158.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	585.	655.833	1180.	180.	133008.333	364.703	213.	307.5	1087.5	1153.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	12	90.	125.833	430.	25.	16440.152	128.219	25.	35.	175.	397.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	6.	7.	16.	1.	16.	4.	1.6	3.75	9.75	14.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	12	0.055	0.248	1.4	0.	0.172	0.415	0.009	0.03	0.313	1.19

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Annual Analysis for 1983 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	11	10.	11.455	22.5	1.	58.173	7.627	1.3	5.	21.	22.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	11	9.	10.936	32.	0.4	90.033	9.489	0.5	2.	16.	29.2
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	11	1.1	1.07	1.47	0.68	0.061	0.247	0.694	0.82	1.25	1.432
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	11	170.	187.727	390.	95.	7966.818	89.257	96.	105.	245.	364.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	11	6.2	6.282	6.9	5.5	0.204	0.451	5.56	6.	6.8	6.88
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	11	6.2	6.077	6.9	5.5	0.25	0.5	5.56	6.	6.8	6.88
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	11	0.631	0.837	3.162	0.126	0.799	0.894	0.132	0.158	1.	2.847
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	11	6.	7.455	20.	2.	30.473	5.52	2.	2.	12.	18.4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	3	16.	14.667	20.	8.	37.333	6.11	**	**	**	**

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Annual Analysis for 1983 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	11	50.	65.909	162.	24.	1734.091	41.642	24.4	35.	94.	148.4
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	11	530.	955.455	6470.	150.	3388847.273	1840.882	150.	170.	610.	5320.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	11	80.	191.818	850.	10.	59056.364	243.015	10.	50.	260.	746.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	11	1300.	1240.909	2310.	650.	233129.091	482.834	652.	880.	1410.	2184.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	11	1220.	1310.	2250.	580.	328260.	572.94	594.	830.	1680.	2236.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	11	70.	55.455	90.	10.	767.273	27.7	14.	30.	80.	88.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	11	70.	64.545	100.	20.	627.273	25.045	22.	40.	80.	98.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	11	540.	813.182	4120.	25.	1397571.364	1182.189	30.	100.	1040.	3588.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	11	50.	172.273	1100.	25.	99721.818	315.788	25.	25.	170.	926.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	8.	25.818	199.	0.	3340.964	57.801	0.2	3.	13.	163.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/23/77-03/28/83	3	0.3	0.833	2.	0.2	1.023	1.012	**	**	**	**

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Annual Analysis for 1984 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	12	10.	9.708	19.	0.	46.203	6.797	0.3	3.625	17.	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	10	10.5	11.66	27.	0.6	111.645	10.566	0.64	1.75	23.75	26.9
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	12	1.16	1.097	1.63	0.65	0.095	0.308	0.668	0.77	1.34	1.552
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	12	125.	201.167	470.	89.	18866.333	137.355	92.3	106.25	321.25	452.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.5	6.533	7.1	6.2	0.061	0.246	6.2	6.35	6.675	6.98
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	12	6.5	6.476	7.1	6.2	0.064	0.253	6.2	6.35	6.675	6.98
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	12	0.316	0.334	0.631	0.079	0.029	0.171	0.115	0.212	0.455	0.631
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	12	8.	8.667	16.	4.	13.333	3.651	4.6	6.	11.5	15.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	12	36.5	76.583	235.	20.	5140.083	71.694	20.3	32.5	131.25	217.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	12	275.	370.833	800.	100.	60862.879	246.704	106.	175.	637.5	770.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	12	110.	198.333	740.	20.	47706.061	218.417	23.	30.	330.	635.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	12	915.	1103.333	2040.	630.	180278.788	424.592	666.	785.	1460.	1899.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	12	835.	1051.667	2010.	600.	179106.061	423.209	642.	767.5	1395.	1869.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	12	40.	42.083	80.	5.	397.538	19.938	9.5	30.	57.5	74.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	12	60.	63.333	120.	30.	715.152	26.742	30.	42.5	77.5	114.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	12	306.	364.333	810.	50.	80588.97	283.882	50.	80.	635.	801.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	12	50.	125.	780.	25.	46854.545	216.459	25.	25.	92.5	624.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	6.	11.917	30.	1.	121.538	11.024	1.	2.25	21.	29.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	10	12.75	11.2	18.	0.	41.456	6.439	0.4	4.375	16.5	18.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	10	1.08	1.133	1.76	0.71	0.121	0.347	0.721	0.873	1.303	1.754
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	10	227.5	263.	700.	120.	30223.333	173.849	120.5	143.75	303.75	667.5
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	10	4.95	5.28	6.7	4.2	0.824	0.908	4.23	4.575	6.275	6.68
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	10	4.925	4.763	6.7	4.2	1.12	1.059	4.23	4.575	6.275	6.68
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	10	11.896	17.241	63.096	0.2	399.078	19.977	0.211	0.552	26.745	59.948
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	10	2.5	2.85	6.	0.	6.336	2.517	0.	0.375	6.	6.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	10	81.5	106.2	377.	30.	10551.289	102.719	30.5	42.5	115.75	354.7
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	10	355.	698.	1950.	100.	490328.889	700.235	101.	207.5	1492.5	1920.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	10	165.	311.	780.	60.	77876.667	279.064	61.	85.	642.5	767.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	9	2860.	3064.444	6490.	900.	3251677.778	1803.241	900.	1605.	4315.	6490.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	8	2260.	2535.	4390.	870.	1679885.714	1296.104	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	10	150.	197.	640.	50.	30378.889	174.295	52.	85.	262.5	606.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	10	160.	204.	610.	50.	26471.111	162.699	54.	105.	272.5	580.

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Annual Analysis for 1985 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	10	1125.	1449.	3920.	130.	1450676.667	1204.44	153.	412.5	2440.	3778.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	10	740.	1242.	3850.	50.	1626728.889	1275.433	51.	232.5	2370.	3714.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	10	5.5	7.6	23.	1.	46.711	6.835	1.1	2.75	10.	22.3

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Annual Analysis for 1987 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	2	4.	4.	4.5	3.5	0.5	0.707	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	2	15.	15.	29.	1.	392.	19.799	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	2	235.	235.	350.	120.	26450.	162.635	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	2	5.7	5.7	5.8	5.6	0.02	0.141	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	2	5.689	5.689	5.8	5.6	0.02	0.142	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	2	2.048	2.048	2.512	1.585	0.43	0.655	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	2	104.	104.	157.	51.	5618.	74.953	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	2	494.	494.	884.	104.	304200.	551.543	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	2	223.5	223.5	412.	35.	71064.5	266.579	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	2	2590.	2590.	4140.	1040.	4805000.	2192.031	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	2	81.5	81.5	103.	60.	924.5	30.406	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	2	82.	82.	104.	60.	968.	31.113	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	2 ##	463.25	463.25	859.	67.5	313236.125	559.675	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	2 ##	191.75	191.75	316.	67.5	30876.125	175.716	**	**	**	**

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Annual Analysis for 1988 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	9	14.5	11.333	19.	0.	60.	7.746	0.	3.5	18.75	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	9	11.	8.033	14.	0.5	31.135	5.58	0.5	1.4	13.	14.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	9	180.	250.	440.	140.	15750.	125.499	140.	160.	400.	440.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	9	5.12	5.497	6.53	4.54	0.509	0.713	4.54	5.05	6.3	6.53
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	9	5.12	5.127	6.53	4.54	0.662	0.814	4.54	5.05	6.3	6.53
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	9	7.586	7.46	28.84	0.295	78.42	8.856	0.295	0.555	8.913	28.84
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	9	75.	116.222	229.	55.	5768.444	75.95	55.	60.5	210.	229.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	9	872.	864.444	1880.	85.	411500.028	641.483	85.	200.	1375.	1880.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	9	411.	356.	826.	37.	62675.75	250.351	37.	123.5	502.	826.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	9	1670.	3008.889	7120.	1080.	4914061.111	2216.768	1080.	1465.	5195.	7120.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	5	4950.	3950.	6780.	1240.	5724250.	2392.54	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	9	112.	120.444	278.	59.	4419.778	66.481	59.	67.	139.5	278.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	9	116.	129.889	281.	61.	4867.611	69.768	61.	68.5	164.5	281.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	9	1100.	1079.333	2510.	183.	525176.	724.69	183.	469.	1510.	2510.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	9	500.	678.389	2270.	67.5	496348.861	704.52	67.5	196.5	1020.5	2270.

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Annual Analysis for 1989 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	1	999.	999.	999.	999.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	1	999.	999.	999.	999.	0.	0.	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**

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Annual Analysis for 1989 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	1	112.	112.	112.	112.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	1	1440.	1440.	1440.	1440.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	1	723.	723.	723.	723.	0.	0.	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	1	2990.	2990.	2990.	2990.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	1	2860.	2860.	2860.	2860.	0.	0.	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	1	123.	123.	123.	123.	0.	0.	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	1	123.	123.	123.	123.	0.	0.	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	1 ##	67.5	67.5	67.5	67.5	0.	0.	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	1 ##	67.5	67.5	67.5	67.5	0.	0.	**	**	**	**

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Annual Analysis for 1993 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	7	15.	15.543	22.	5.7	36.04	6.003	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	7	2.	146.686	999.	0.4	141282.545	375.876	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	7	323.	309.714	540.	138.	29018.238	170.347	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	7	7.15	6.976	7.42	6.1	0.226	0.475	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	7	7.15	6.713	7.42	6.1	0.306	0.553	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	7	0.071	0.194	0.794	0.038	0.074	0.272	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	7	18.	20.714	34.	12.	58.238	7.631	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	7	125.	121.	236.	35.	7337.333	85.658	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	7	311.	263.857	481.	5.	34558.143	185.898	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	7	60.	114.571	433.	5.	22755.619	150.85	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	7	514.	514.857	1150.	105.	137598.143	370.942	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	7	481.	488.714	1110.	91.	127233.905	356.699	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	7	21.	23.143	48.	5.	177.476	13.322	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	7	28.	30.429	68.	5.	451.619	21.251	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	7	249.	234.429	387.	67.5	19497.869	139.635	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	7 ##	67.5	77.429	137.	67.5	690.036	26.269	**	**	**	**

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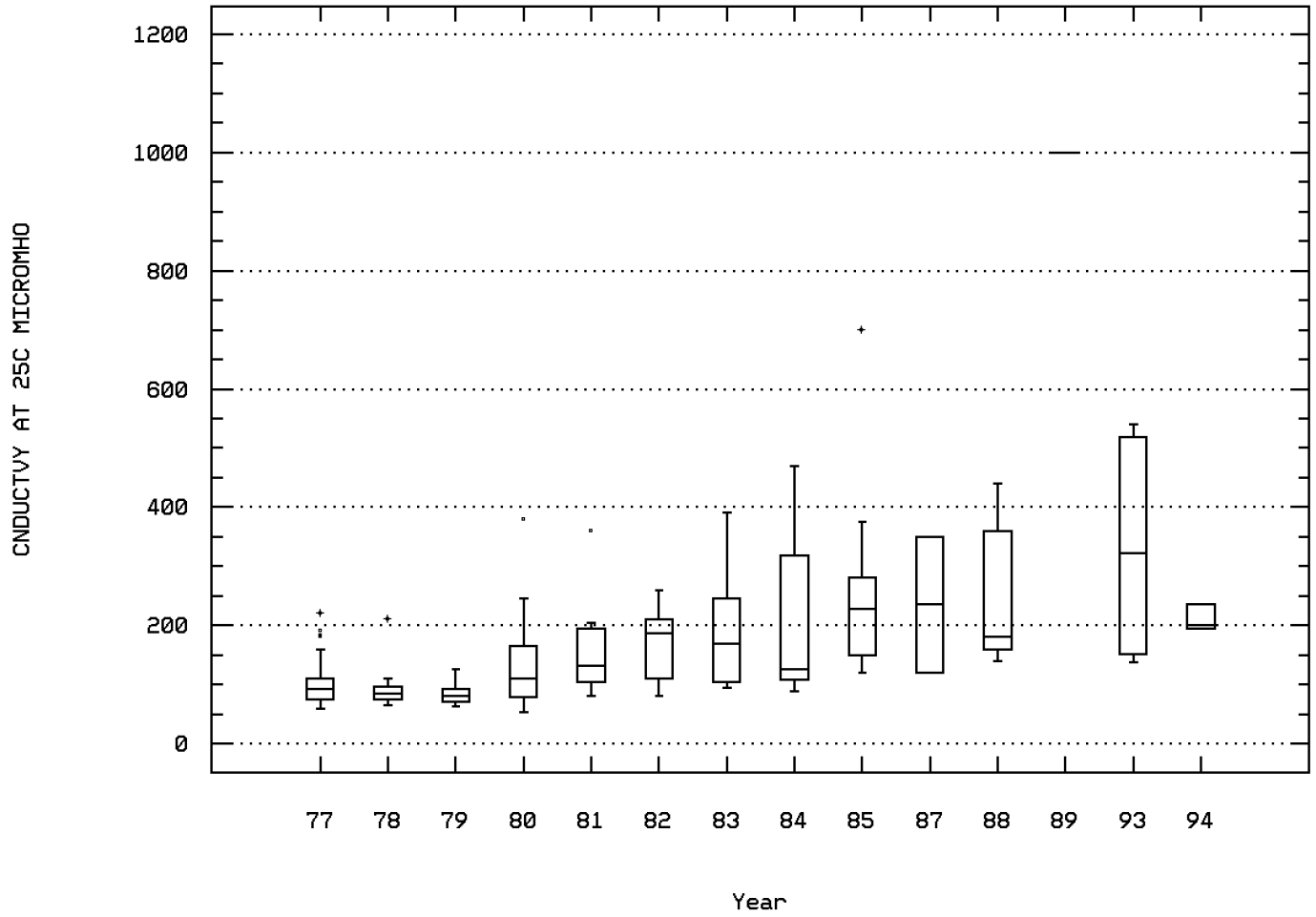
Annual Analysis for 1994 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	3	14.5	13.5	17.	9.	16.75	4.093	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	3	7.	8.	11.	6.	7.	2.646	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	3	200.	210.	236.	194.	516.	22.716	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	3	7.	6.847	7.14	6.4	0.155	0.393	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	3	7.	6.721	7.14	6.4	0.178	0.422	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	3	0.1	0.19	0.398	0.072	0.033	0.181	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	3	20.	22.	28.	18.	28.	5.292	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	3	68.	67.	71.	62.	21.	4.583	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	3	453.	554.333	978.	232.	146830.333	383.184	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	3	148.	454.333	1160.	55.	375636.333	612.892	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	3	836.	857.333	984.	752.	13797.333	117.462	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	3	971.	920.333	1090.	700.	39950.333	199.876	**	**	**	**
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	3	10.	19.667	44.	5.	450.333	21.221	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	3	44.	70.	153.	13.	5407.	73.532	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	3	490.	410.333	564.	177.	42202.333	205.432	**	**	**	**
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	3 ##	67.5	67.5	67.5	67.5	0.	0.	**	**	**	**

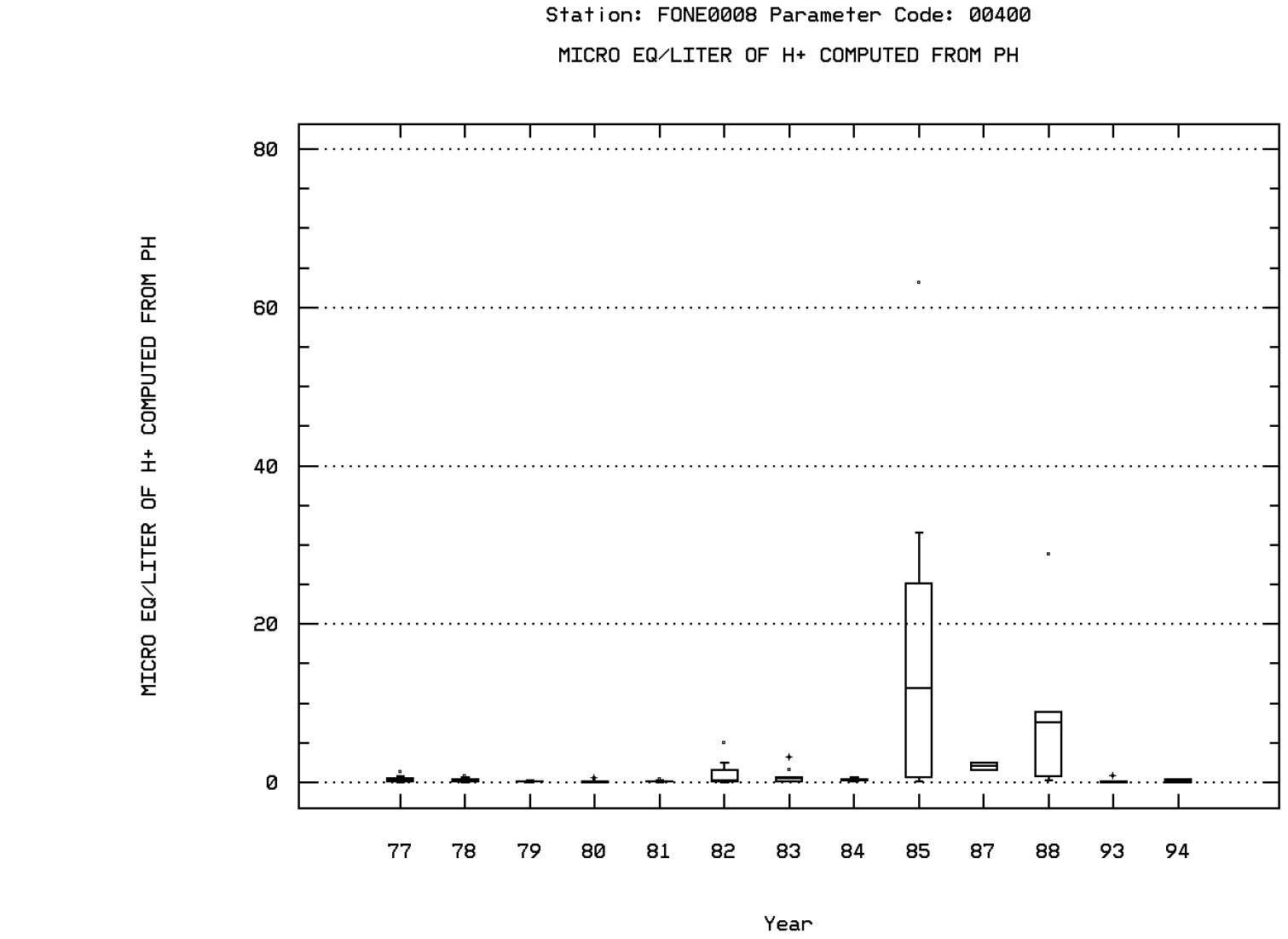
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0008 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



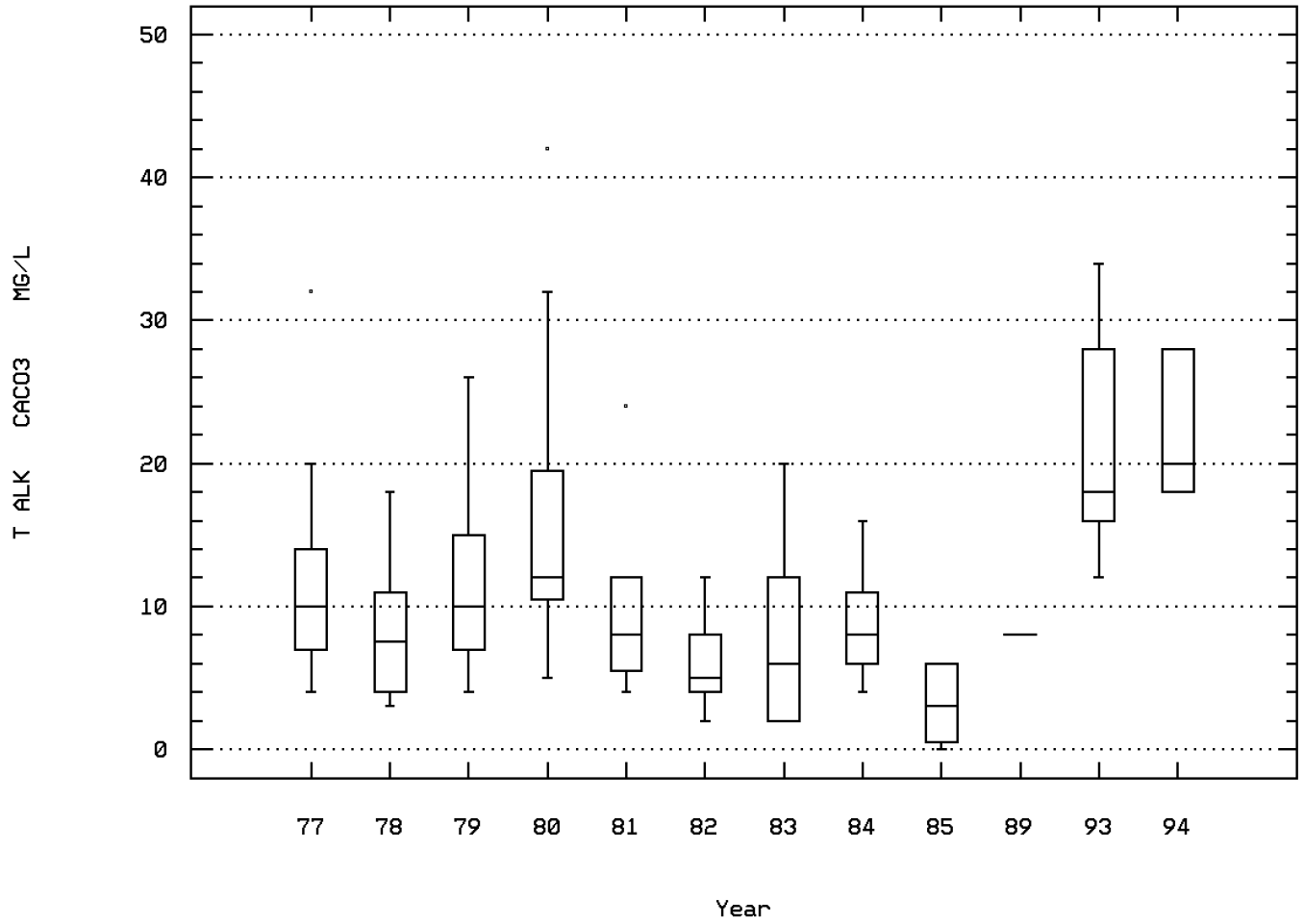
STONY FORK NEAR ELLIOTTSVILLE, PA (51)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 00410

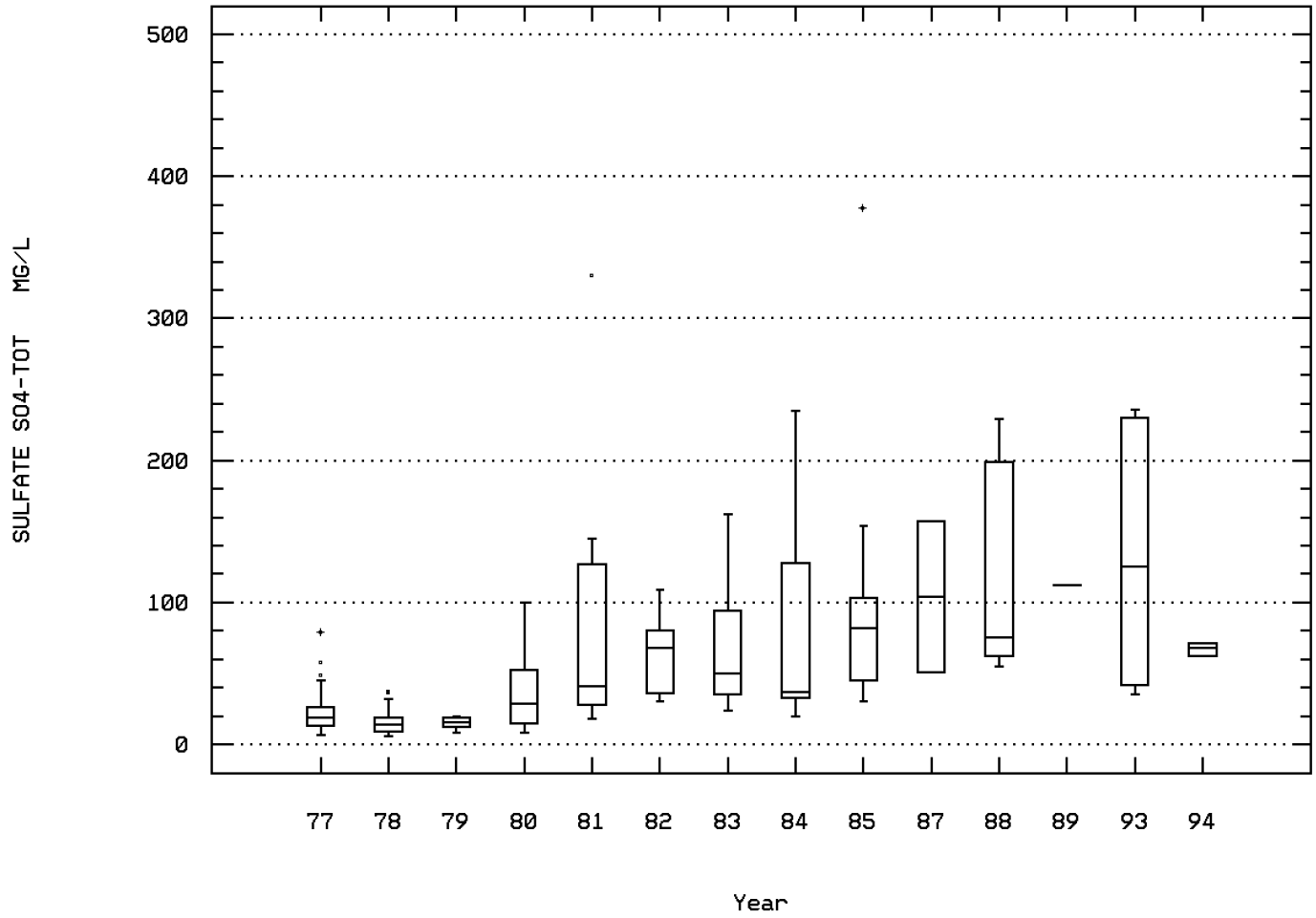
ALKALINITY, TOTAL (MG/L AS CACO3)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 00945

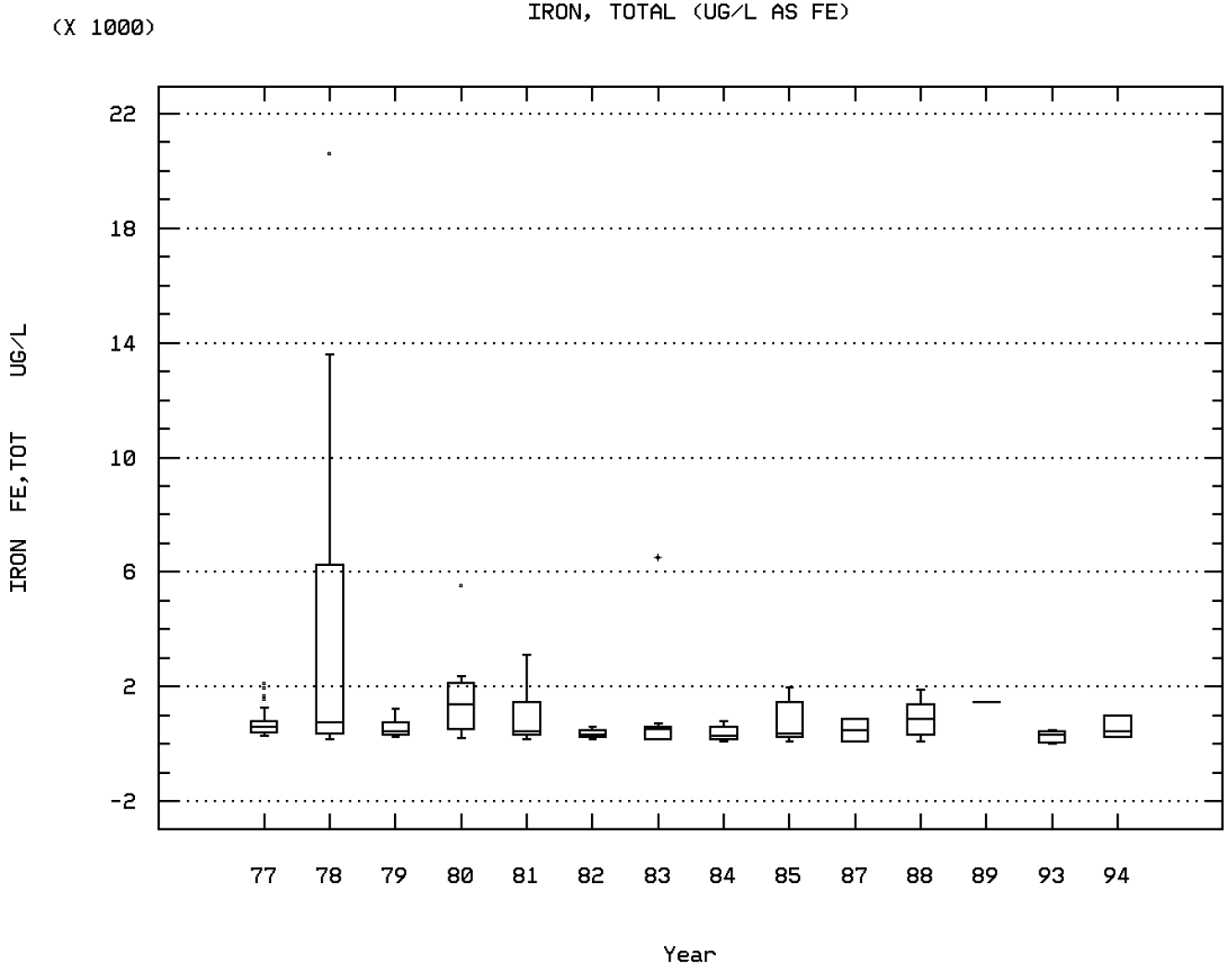
SULFATE, TOTAL (MG/L AS SO4)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01045

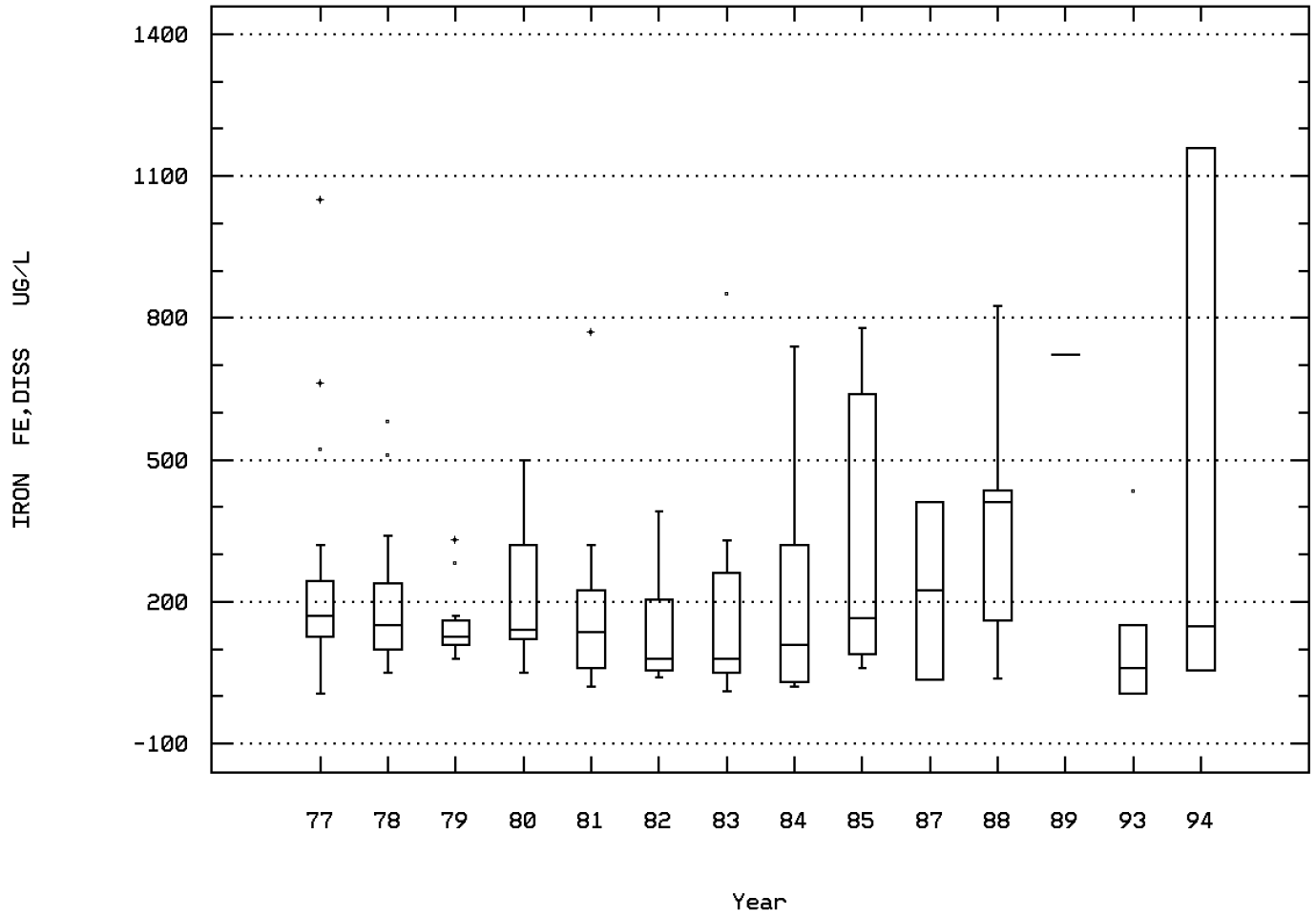
IRON, TOTAL (UG/L AS FE)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01046

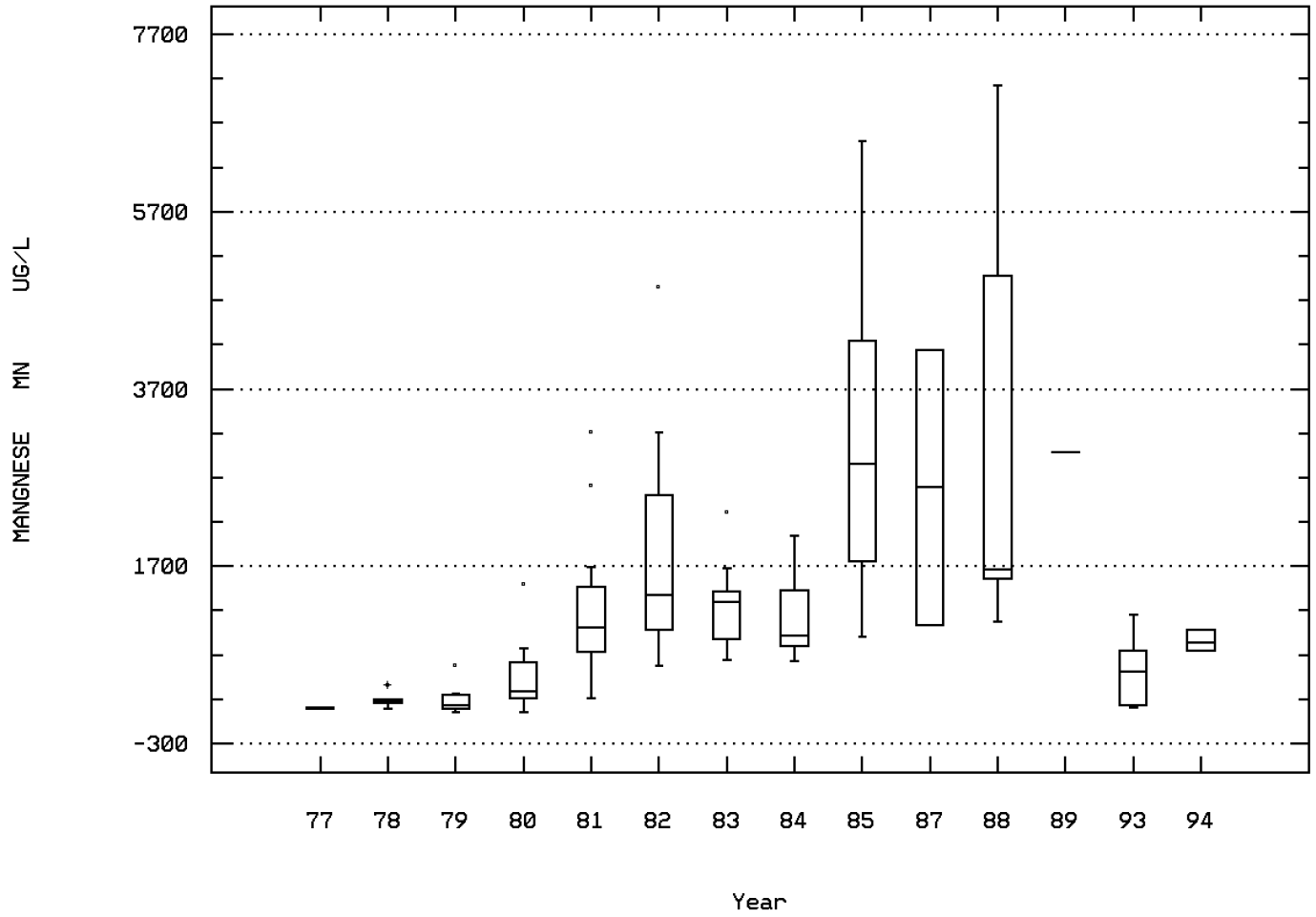
IRON, DISSOLVED (UG/L AS FE)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01055

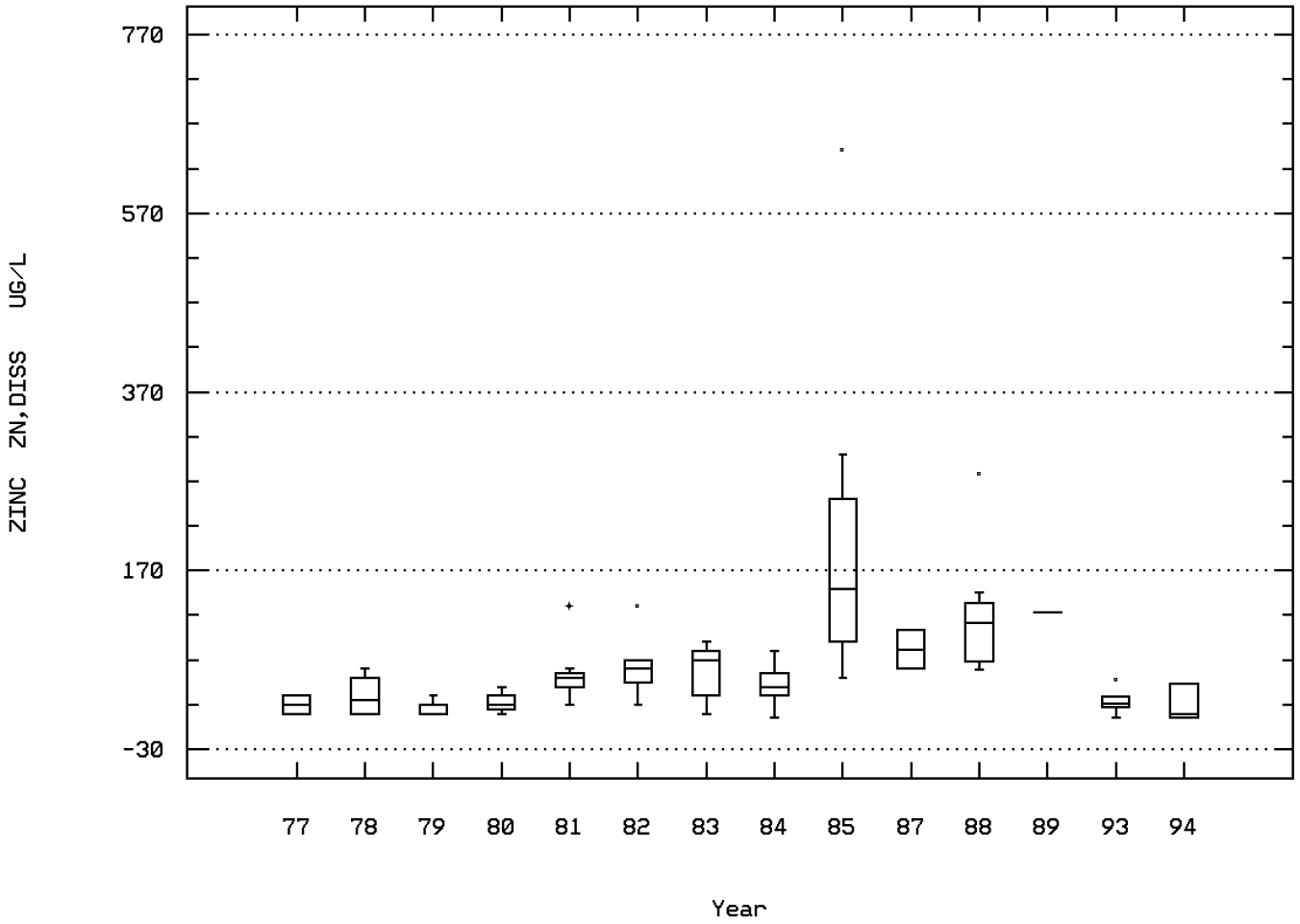
MANGANESE, TOTAL (UG/L AS MN)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01090

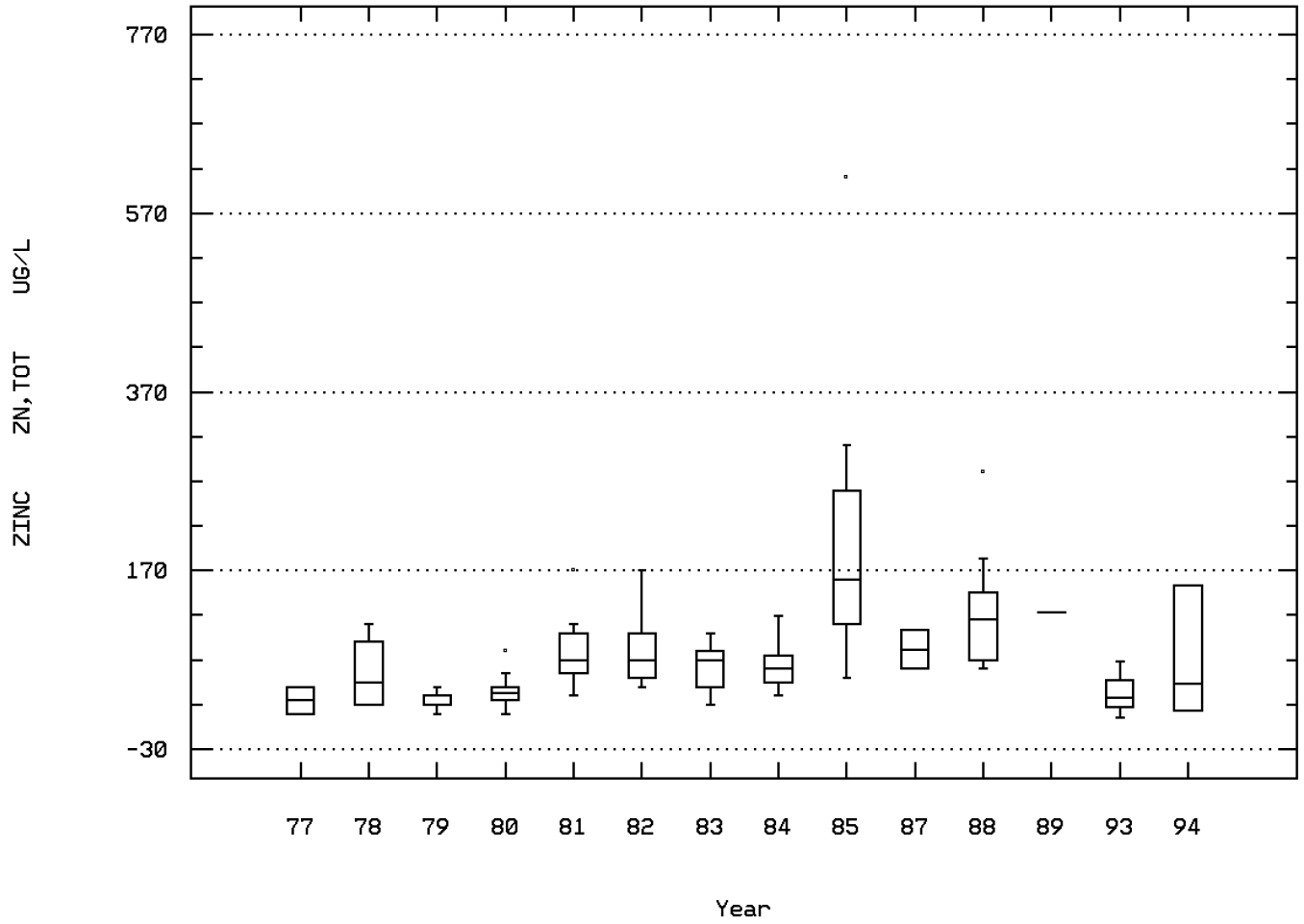
ZINC, DISSOLVED (UG/L AS ZN)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01092

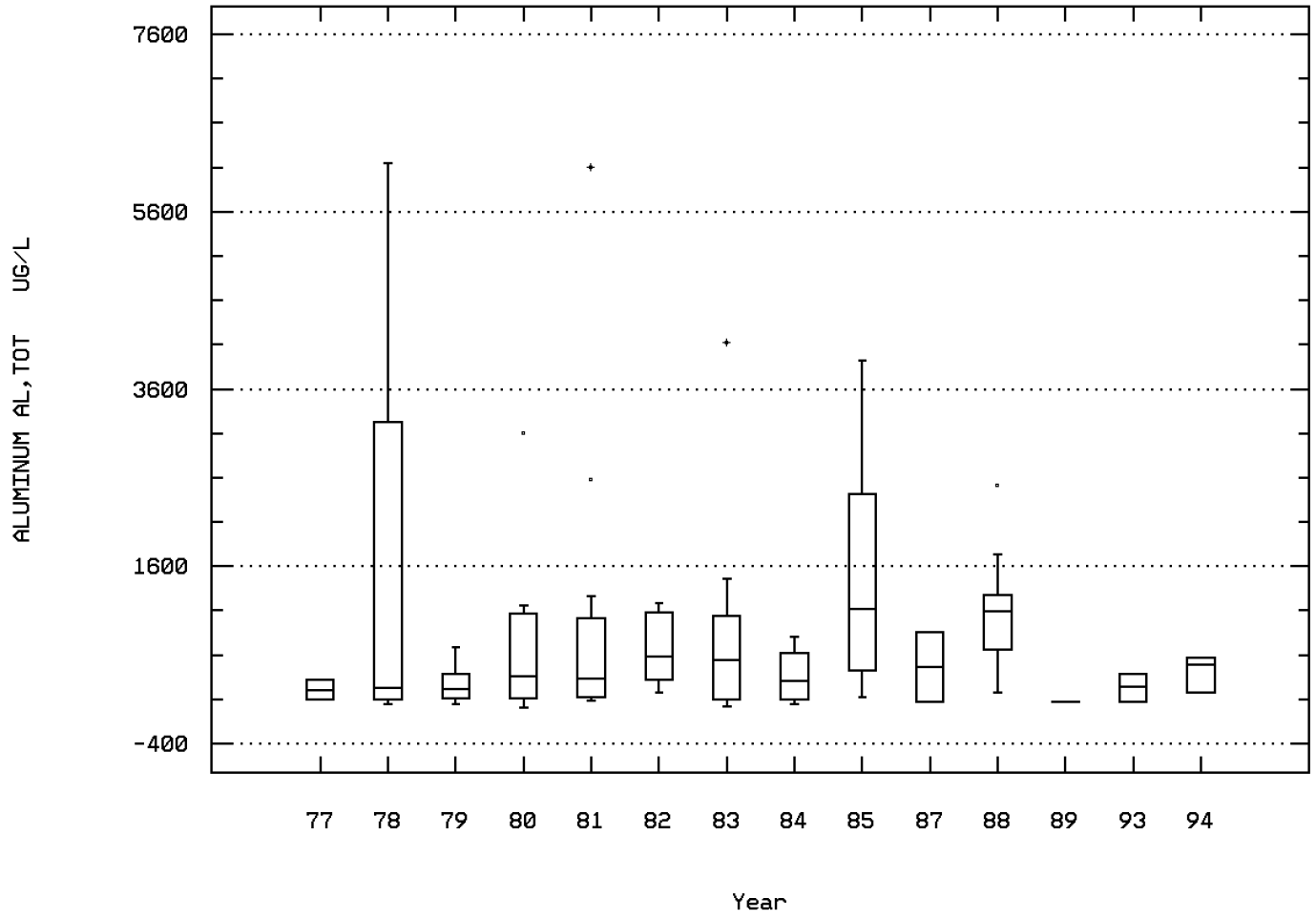
ZINC, TOTAL (UG/L AS ZN)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01105

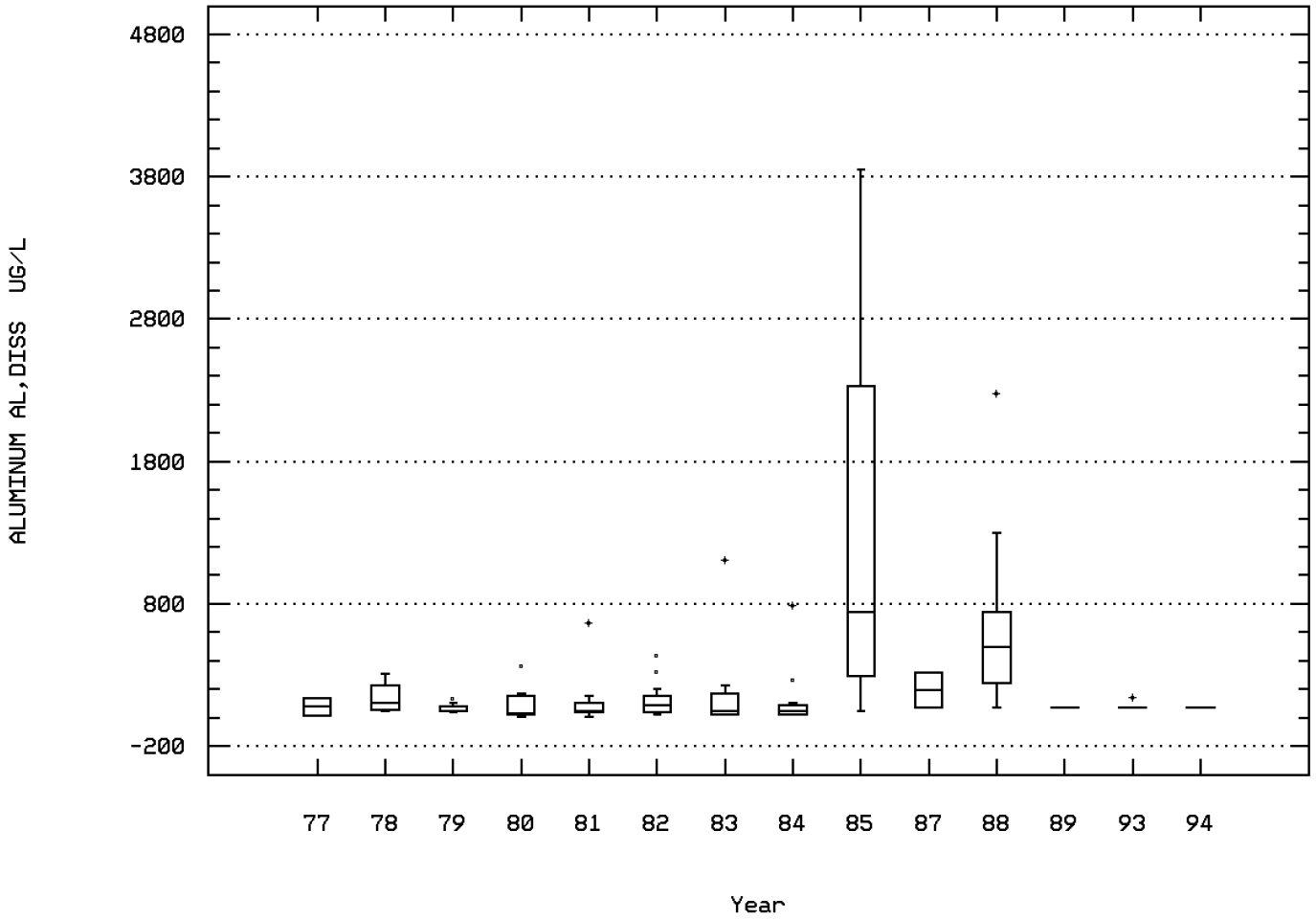
ALUMINUM, TOTAL (UG/L AS AL)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01106

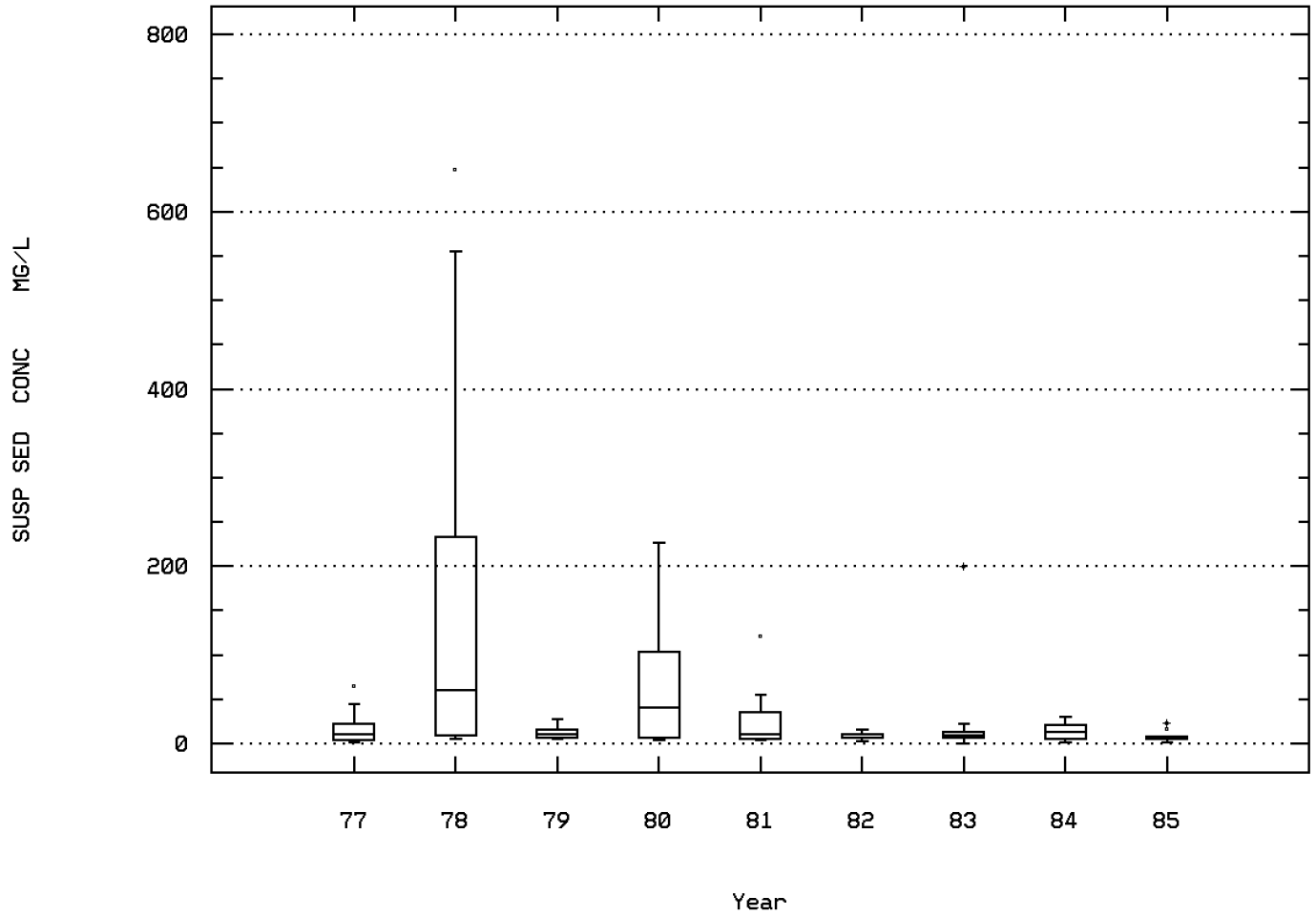
ALUMINUM, DISSOLVED (UG/L AS AL)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	51	17.	15.561	23.	4.5	23.15	4.811	8.6	11.	19.	21.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	47	2.	4.464	64.	0.1	90.095	9.492	0.38	0.7	5.	8.2
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	39	0.88	0.929	1.83	0.6	0.07	0.265	0.66	0.75	1.03	1.23
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	51	190.	227.431	700.	74.	20557.09	143.377	85.	104.	310.	440.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	50	6.7	6.52	7.5	4.2	0.599	0.774	5.152	6.275	7.	7.29
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	50	6.7	5.467	7.5	4.2	1.73	1.315	5.152	6.275	7.	7.29
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	50	0.2	3.411	63.096	0.032	121.24	11.011	0.051	0.1	0.534	7.644
00403	PH, LAB, STANDARD UNITS SU	10/28/87-06/28/94	7	6.	6.043	7.	4.5	0.89	0.943	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/28/87-06/28/94	7	6.	5.237	7.	4.5	1.647	1.284	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/87-06/28/94	7	1.	5.797	31.623	0.1	134.541	11.599	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	45	12.	13.633	42.	0.	82.3	9.072	4.6	8.	18.	29.6
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/28/87-06/28/94	7	392.	321.286	497.	98.	24216.905	155.618	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/28/87-06/28/94	7	2.	4.143	14.	1.	21.81	4.67	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-06/28/94	6	46.35	42.283	70.2	16.1	459.238	21.43	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-06/28/94	6	17.85	14.167	20.9	4.3	52.567	7.25	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-06/28/94	6	4.12	5.205	10.2	3.18	7.039	2.653	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-06/28/94	6	2.385	2.397	3.03	1.76	0.169	0.41	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/28/94	5	6.	6.6	8.	5.	1.8	1.342	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	48	66.	93.479	377.	8.	7664.851	87.549	15.9	20.25	140.5	230.5
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	5 ##	0.1	0.156	0.31	0.1	0.008	0.091	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	51	430.	764.647	6470.	90.	1024897.393	1012.372	150.	230.	950.	1990.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	51	130.	161.588	850.	5.	21221.447	145.676	30.4	60.	220.	328.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	36	1235.	1633.806	7120.	60.	3307437.818	1818.636	103.5	187.5	2087.5	4696.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	34	1165.	1373.941	6780.	40.	2364147.815	1537.579	75.	170.	1672.5	3740.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	35	30.	75.114	640.	5.	15185.575	123.23	10.	10.	68.	261.2
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	36	40.	81.917	610.	5.	13555.907	116.43	15.6	22.5	70.	266.3
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	36	267.5	850.236	6100.	25.	1912063.464	1382.774	65.25	150.	817.5	2933.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	36	67.5	370.333	3850.	5.	769622.429	877.281	25.	42.5	139.25	2288.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/28/87-06/28/94	7	8.	12.	36.	0.	225.333	15.011	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	42	9.5	24.048	199.	0.	1615.949	40.199	2.	5.	23.	86.3

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	52	2.	3.017	9.6	0.	9.216	3.036	0.	0.5	5.375	7.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	49	12.	49.243	999.	0.9	22169.432	148.894	2.	5.	25.	125.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	41	1.2	1.356	3.2	0.81	0.276	0.526	0.912	1.055	1.46	2.236
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	53	96.	120.811	999.	54.	16252.079	127.484	68.8	80.	127.5	170.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	51	6.6	6.516	7.7	4.6	0.362	0.602	5.68	6.2	6.8	7.16
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	51	6.6	5.868	7.7	4.6	0.79	0.889	5.68	6.2	6.8	7.16
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	51	0.251	1.354	25.119	0.02	17.815	4.221	0.07	0.158	0.631	2.21
00403	PH, LAB, STANDARD UNITS SU	10/28/87-06/28/94	5	5.1	5.38	6.5	4.6	0.587	0.766	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/28/87-06/28/94	5	5.1	5.022	6.5	4.6	0.747	0.865	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/87-06/28/94	5	7.943	9.511	25.119	0.316	100.726	10.036	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	50	8.	9.2	24.	1.	24.531	4.953	4.	6.	12.	17.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/28/87-06/28/94	5	136.	253.2	744.	114.	75385.2	274.564	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/28/87-06/28/94	5	2.	4.2	14.	1.	30.2	5.495	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-06/28/94	5	15.1	16.62	27.	10.4	38.237	6.184	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-06/28/94	5	5.7	6.12	10.	4.	5.517	2.349	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-06/28/94	5	2.33	2.484	3.56	1.63	0.488	0.699	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-06/28/94	5	1.29	1.36	1.69	1.02	0.071	0.266	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/28/94	5	5.	5.	6.	4.	1.	1.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	52	20.	28.692	112.	6.	469.119	21.659	8.	14.	39.5	62.
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	5 ##	0.05	0.074	0.12	0.05	0.001	0.034	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	51	450.	1785.392	20600.	160.	13712045.883	3702.978	238.	311.	1380.	5236.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	50	190.	251.52	826.	10.	42158.173	205.325	62.	100.	330.	632.9
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	36	770.	866.111	2990.	90.	507921.587	712.686	182.	277.5	1085.	1910.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	32	720.5	783.469	2860.	80.	526334.709	725.489	126.	230.	887.5	2094.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	36	40.	53.722	170.	10.	1335.863	36.549	20.	30.	60.	115.3
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	36	69.	70.778	180.	20.	1453.949	38.131	27.	40.	107.5	120.9
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	36	510.	809.264	6150.	5.	1266037.793	1125.183	62.25	140.75	1070.	1755.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	35	67.5	233.229	1490.	5.	145418.461	381.338	25.	30.	310.	992.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/28/87-06/28/94	5	20.	21.2	40.	0.	315.2	17.754	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	36	8.	67.972	647.	1.	22730.371	150.766	1.	5.	27.75	260.9

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

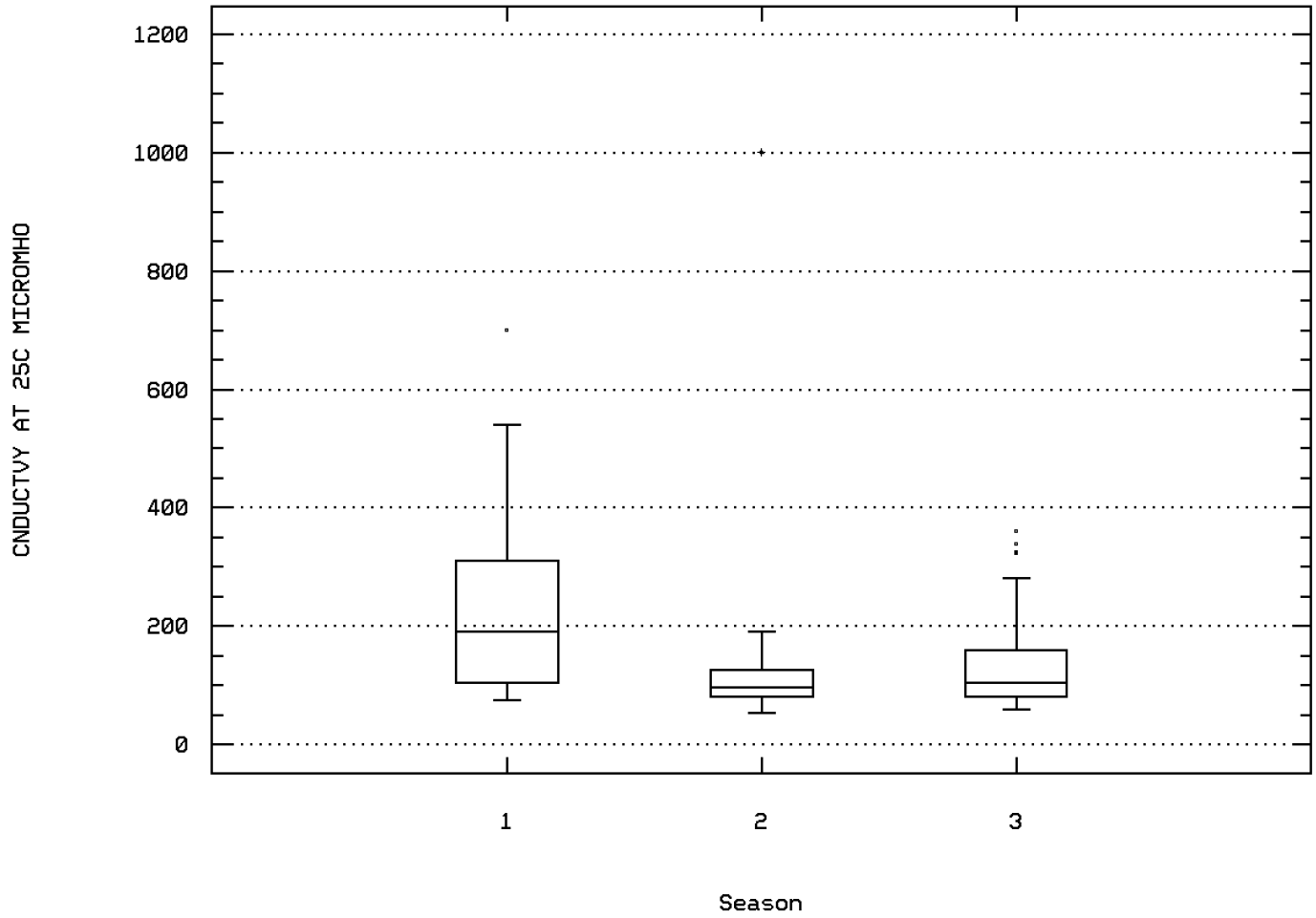
Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/94	57	13.5	12.721	22.	0.5	24.953	4.995	6.	9.	16.	19.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/23/77-06/28/94	49	9.	39.865	999.	0.8	20636.459	143.654	1.	2.	26.5	58.
00065	STAGE, STREAM (FEET)	05/23/77-09/30/85	38	1.1	1.445	10.5	0.77	2.453	1.566	0.81	0.898	1.445	1.895
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/28/94	57	105.	137.491	360.	59.	6149.504	78.419	67.6	79.	160.	268.
00400p	PH (STANDARD UNITS)	03/16/77-06/28/94	57	6.5	6.405	7.4	5.05	0.301	0.549	5.58	6.1	6.8	7.028
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/94	57	6.5	5.997	7.4	5.05	0.47	0.686	5.58	6.1	6.8	7.028
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/94	57	0.316	1.006	8.913	0.04	3.632	1.906	0.094	0.158	0.794	2.642
00403	PH, LAB, STANDARD UNITS SU	10/28/87-06/28/94	10	6.25	6.07	7.	4.8	0.538	0.733	4.81	5.5	6.575	6.98
00403	CONVERTED PH, LAB, STANDARD UNITS	10/28/87-06/28/94	10	6.247	5.478	7.	4.8	0.927	0.963	4.81	5.5	6.575	6.98
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/87-06/28/94	10	0.566	3.327	15.849	0.1	33.821	5.816	0.106	0.277	4.644	15.523
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/94	53	6.	7.868	28.	1.	30.886	5.558	2.4	4.	10.	18.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/28/87-06/28/94	10	173.	182.5	378.	78.	9076.944	95.273	79.	95.5	258.5	367.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/28/87-06/28/94	10	4.5	5.3	14.	1.	22.9	4.785	1.	1.	10.25	13.7
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-06/28/94	10	23.65	25.56	49.9	11.6	179.338	13.392	11.66	12.725	36.675	48.69
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-06/28/94	10	6.9	8.24	18.7	3.8	21.64	4.652	3.85	4.525	11.	17.99
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-06/28/94	10	2.455	2.982	7.33	1.54	3.344	1.829	1.542	1.605	3.778	7.061
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-06/28/94	10	1.51	1.571	2.05	1.17	0.091	0.301	1.172	1.355	1.823	2.043
00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/28/94	10	4.	4.1	7.	3.	1.656	1.287	3.	3.	5.	6.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/94	56	32.	45.071	199.	8.	1600.649	40.008	11.1	15.25	62.75	105.1
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/28/94	10 ##	0.1	0.18	0.94	0.05	0.073	0.271	0.05	0.05	0.128	0.867
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/94	57	520.	1068.789	8720.	5.	2645379.883	1626.462	160.	335.	999.	2282.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/94	56	144.	229.411	1160.	5.	60103.192	245.16	39.1	92.5	255.	604.
01055p	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/28/94	37	984.	1413.216	4980.	70.	1674004.508	1293.833	108.	648.5	1665.	3824.
01056p	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/28/94	35	971.	1335.629	4950.	60.	1558041.77	1248.215	90.	588.	1680.	3704.
01090p	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/28/94	37	50.	57.649	150.	5.	1815.401	42.608	10.	20.	80.	130.
01092p	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/28/94	37	60.	74.351	184.	10.	2570.901	50.704	16.6	30.	100.	170.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/28/94	37	490.	563.216	2570.	50.	241354.605	491.279	67.5	233.5	690.	1164.
01106p	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/28/94	37	80.	188.27	780.	15.	44807.105	211.677	25.	50.	271.	580.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	10/28/87-06/28/94	10	2.5	7.7	30.	0.	110.233	10.499	0.	0.	15.5	29.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	45	10.	32.956	245.	1.	3622.543	60.188	2.6	5.5	24.5	95.8

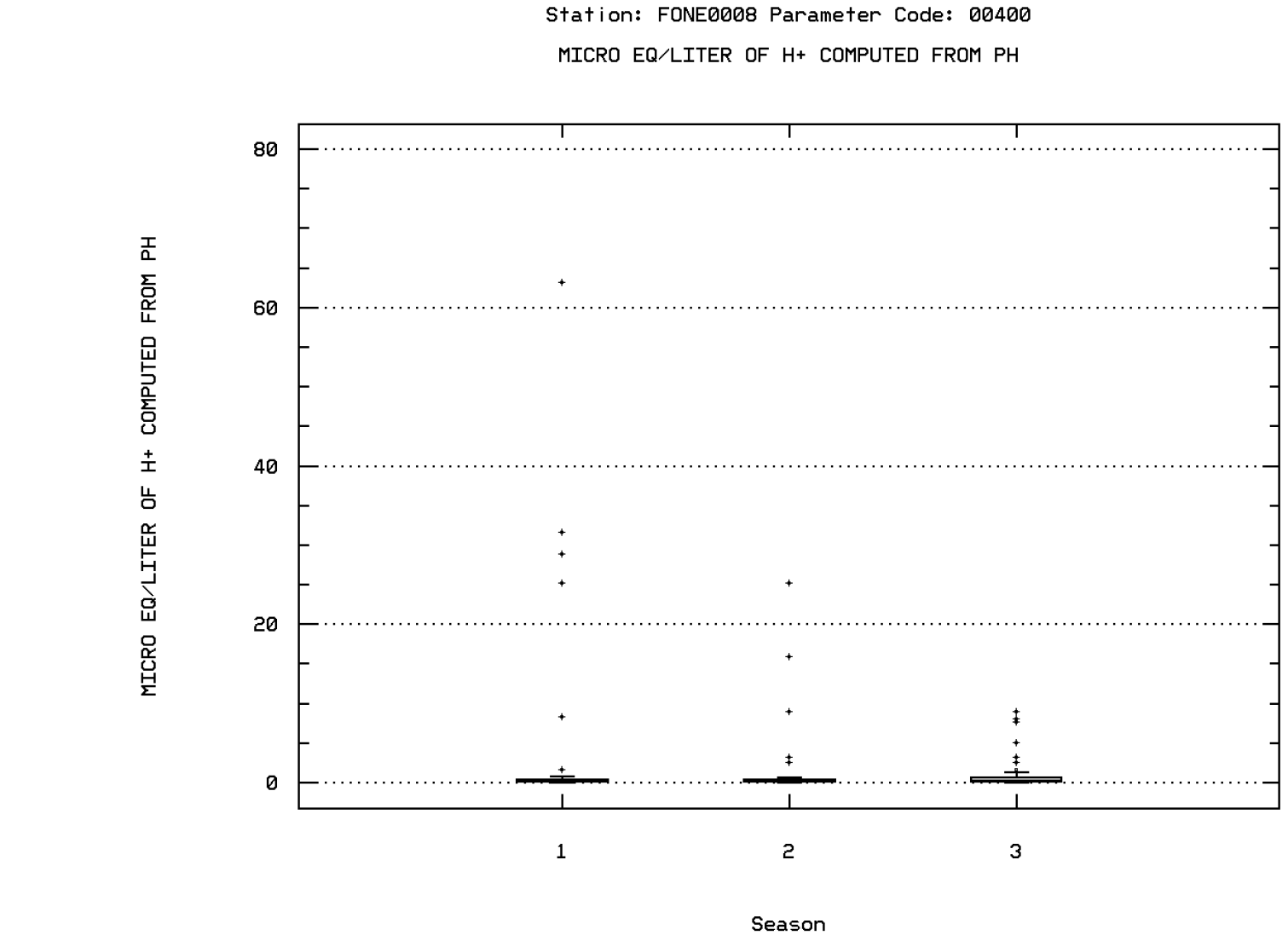
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0008 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



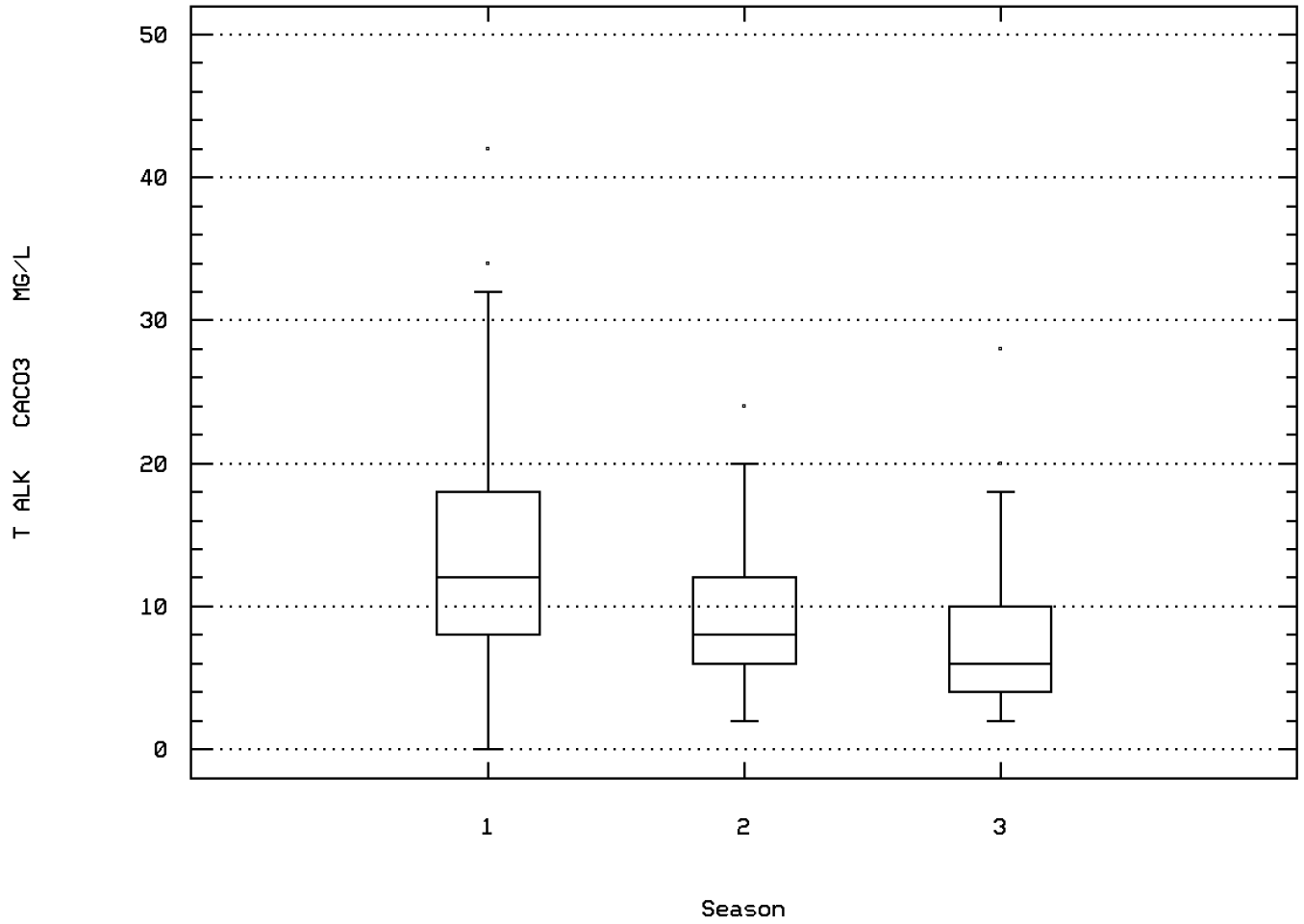
STONY FORK NEAR ELLIOTTSVILLE, PA (51)



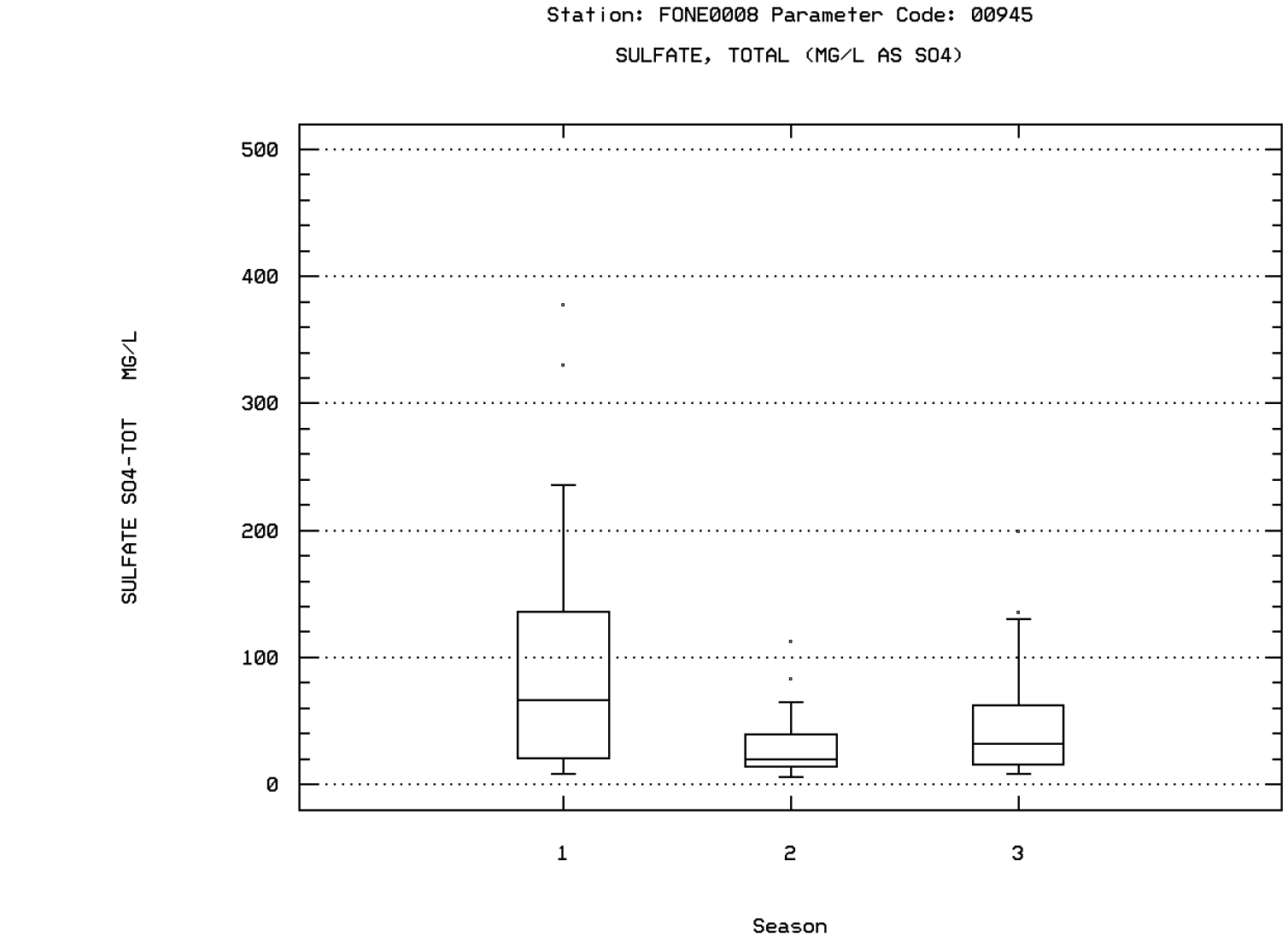
STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 00410

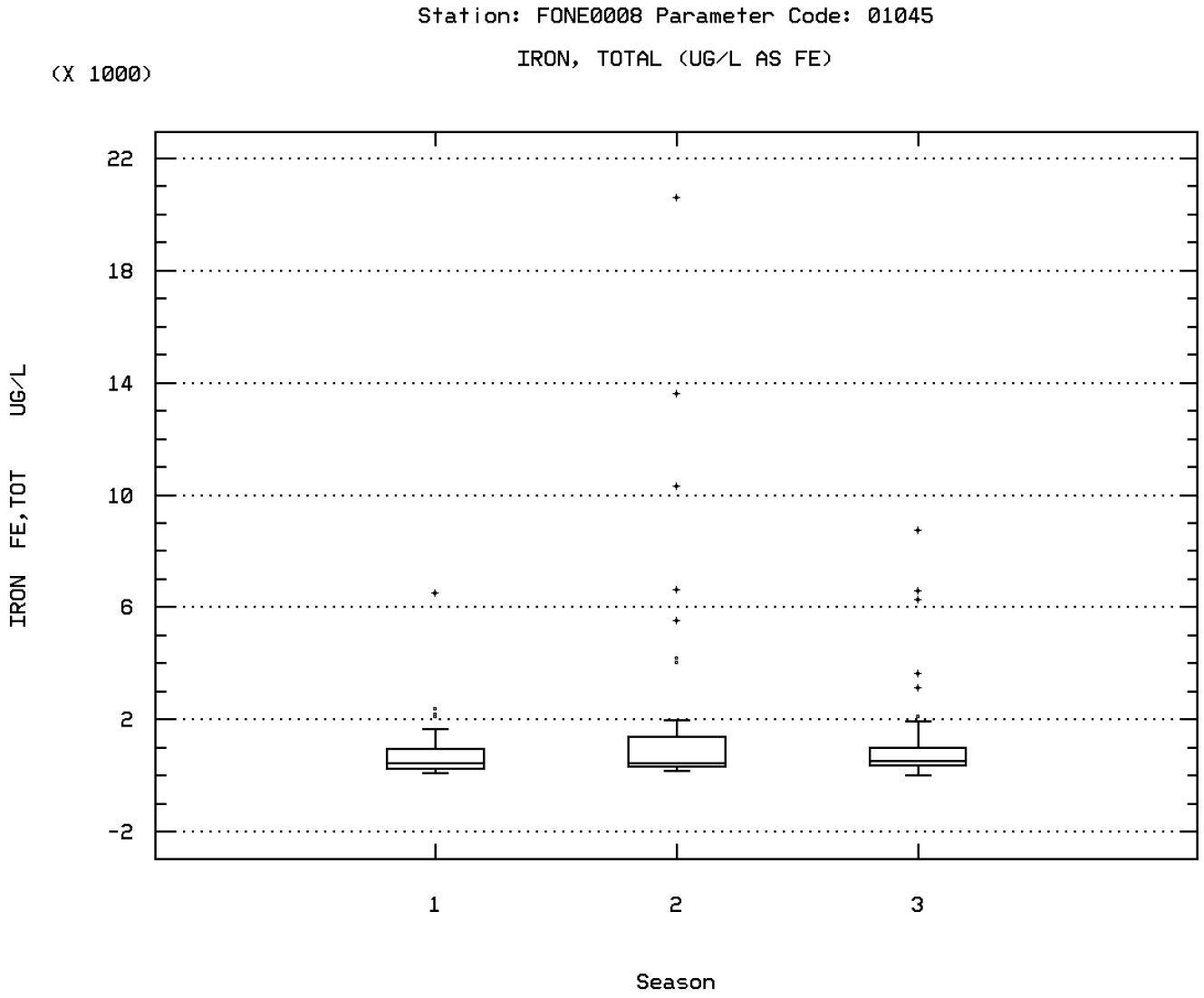
ALKALINITY, TOTAL (MG/L AS CACO3)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)



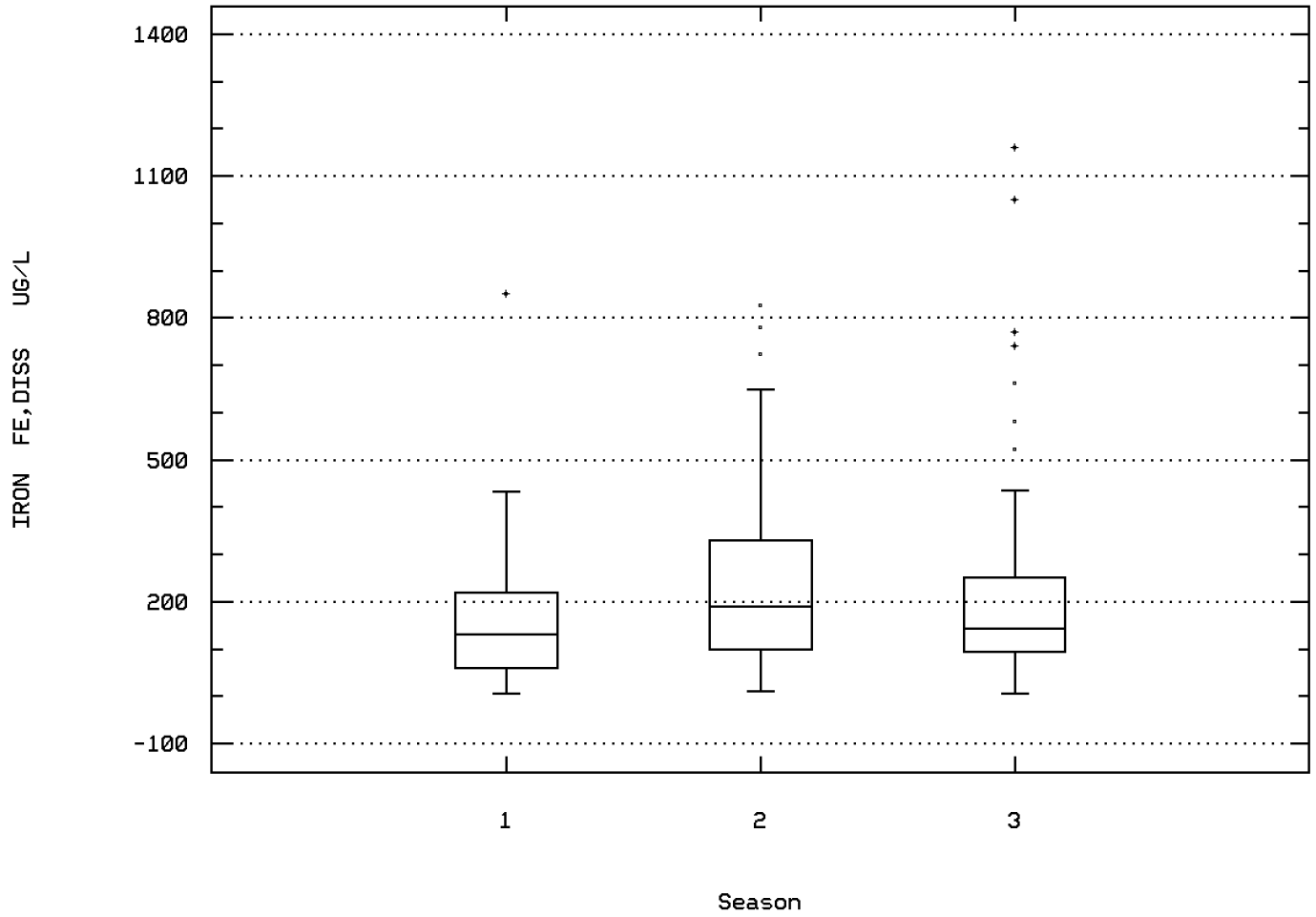
STONY FORK NEAR ELLIOTTSVILLE, PA (51)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01046

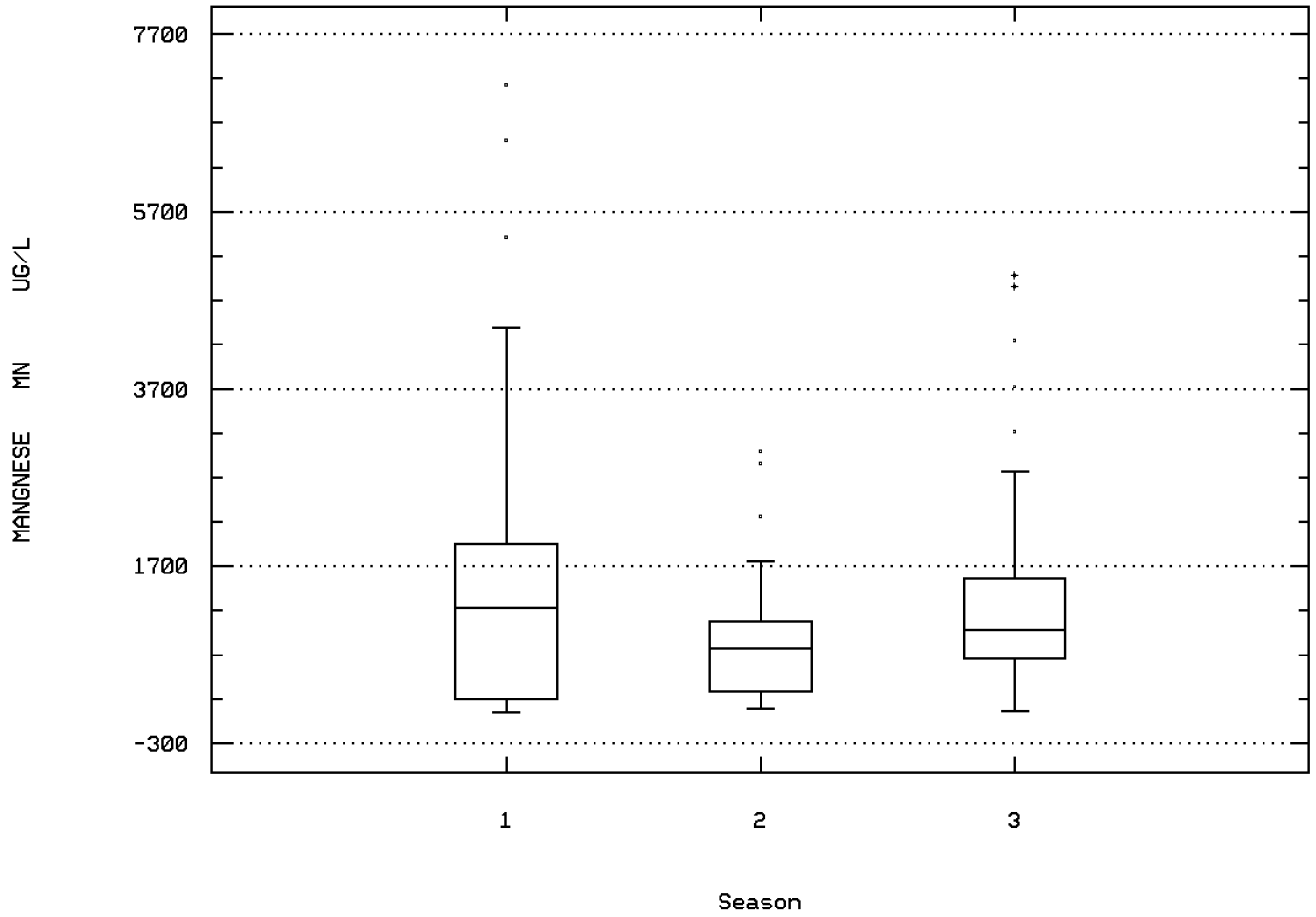
IRON, DISSOLVED (UG/L AS FE)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01055

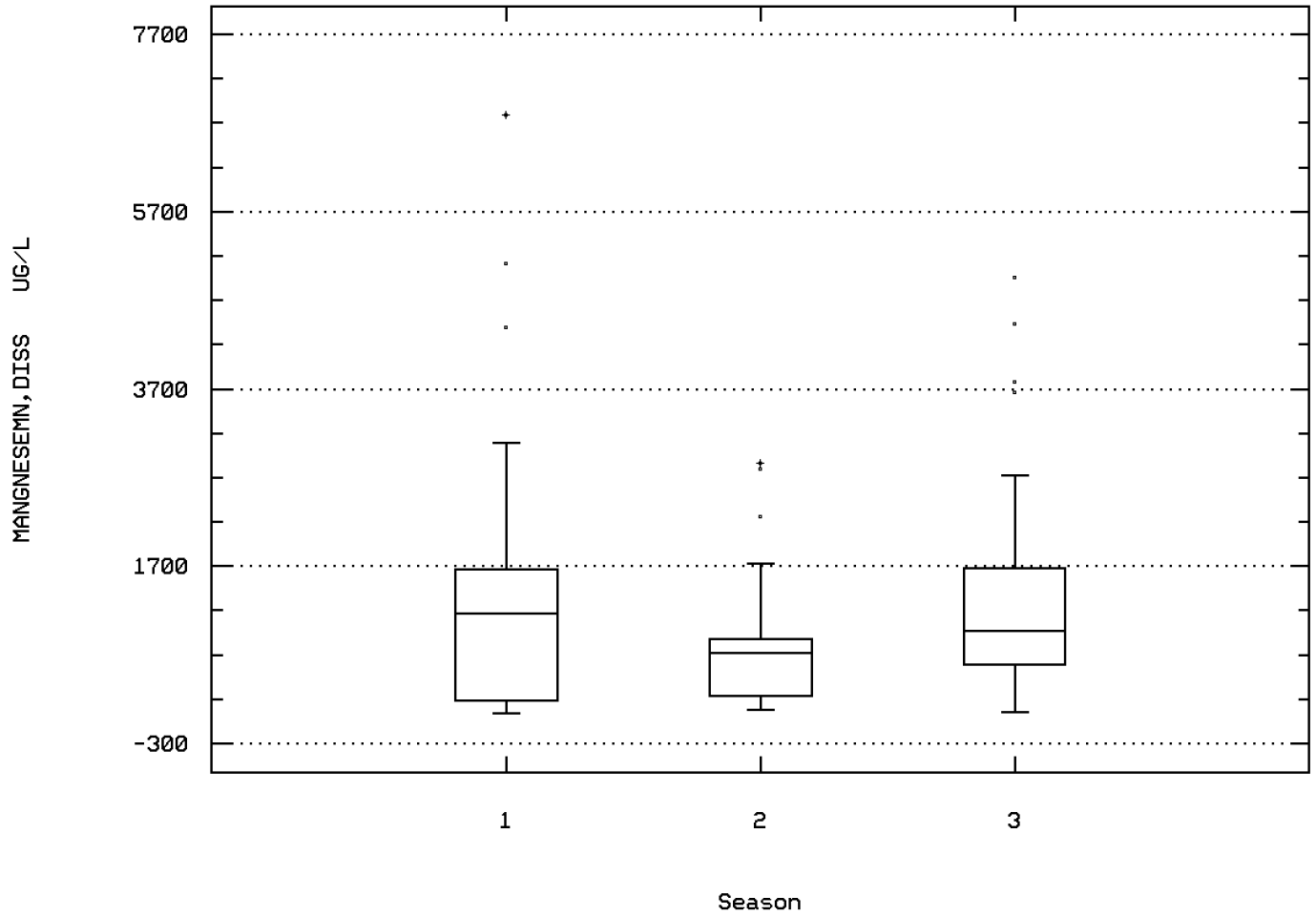
MANGANESE, TOTAL (UG/L AS MN)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01056

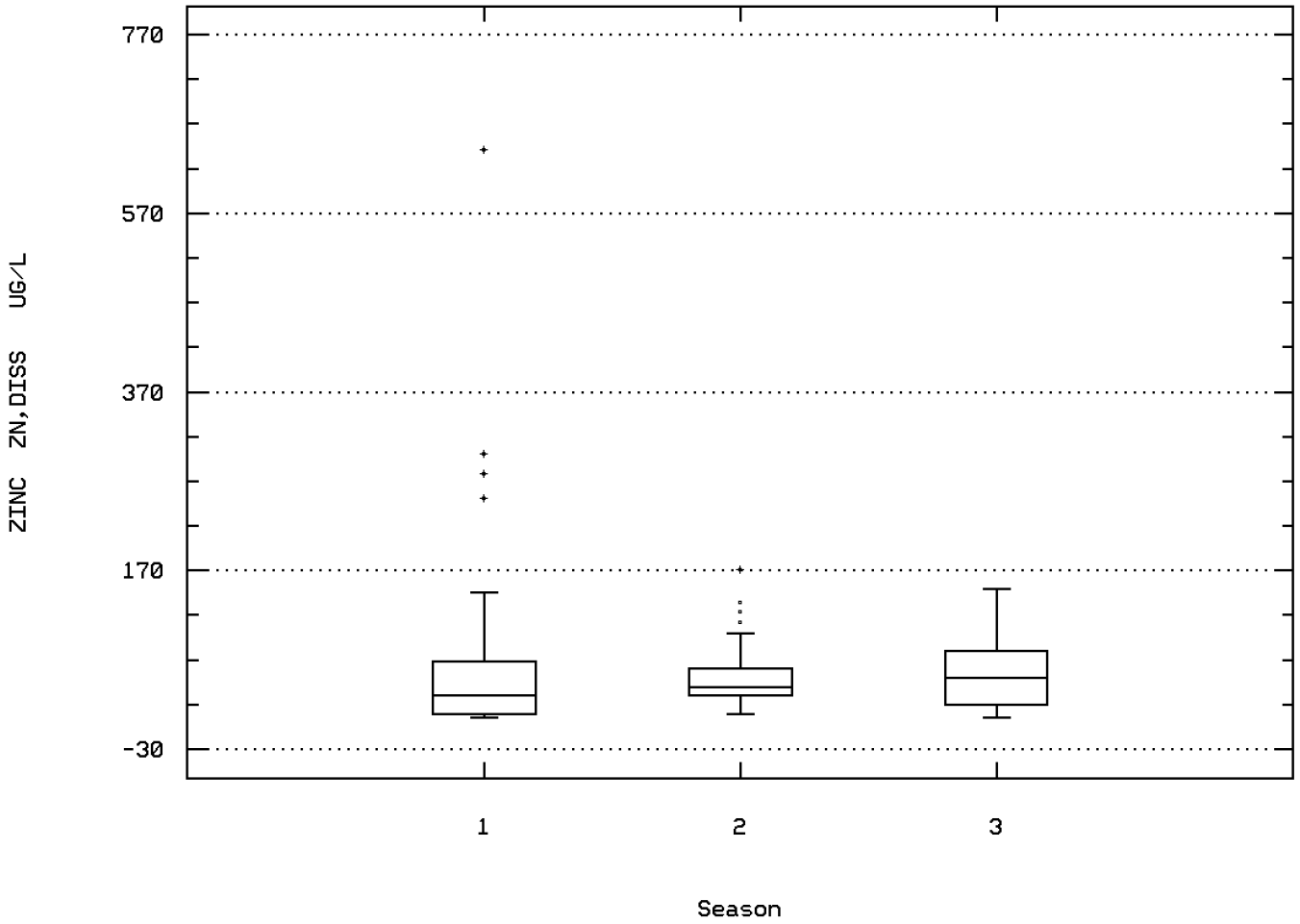
MANGANESE, DISSOLVED (UG/L AS MN)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01090

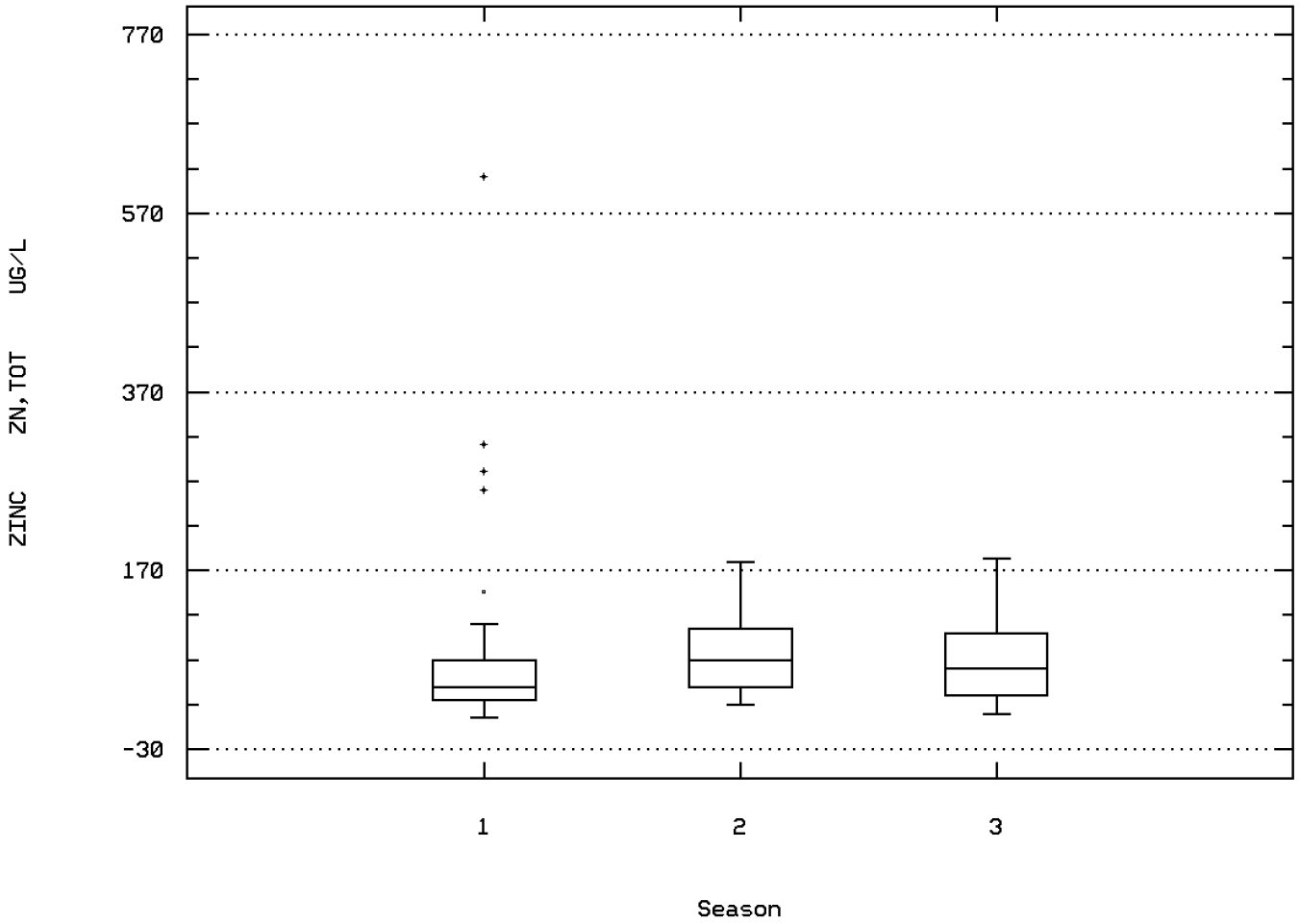
ZINC, DISSOLVED (UG/L AS ZN)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01092

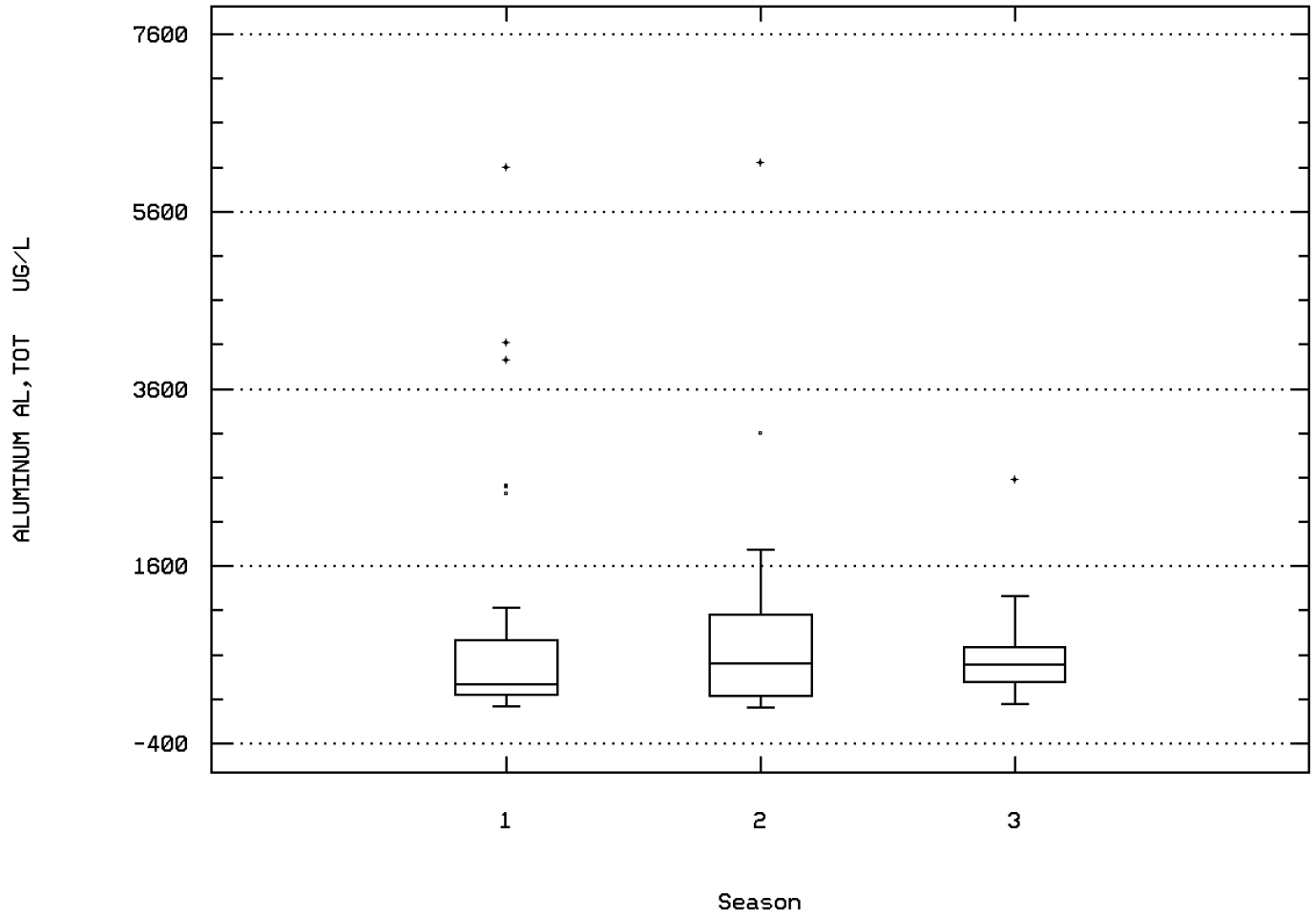
ZINC, TOTAL (UG/L AS ZN)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01105

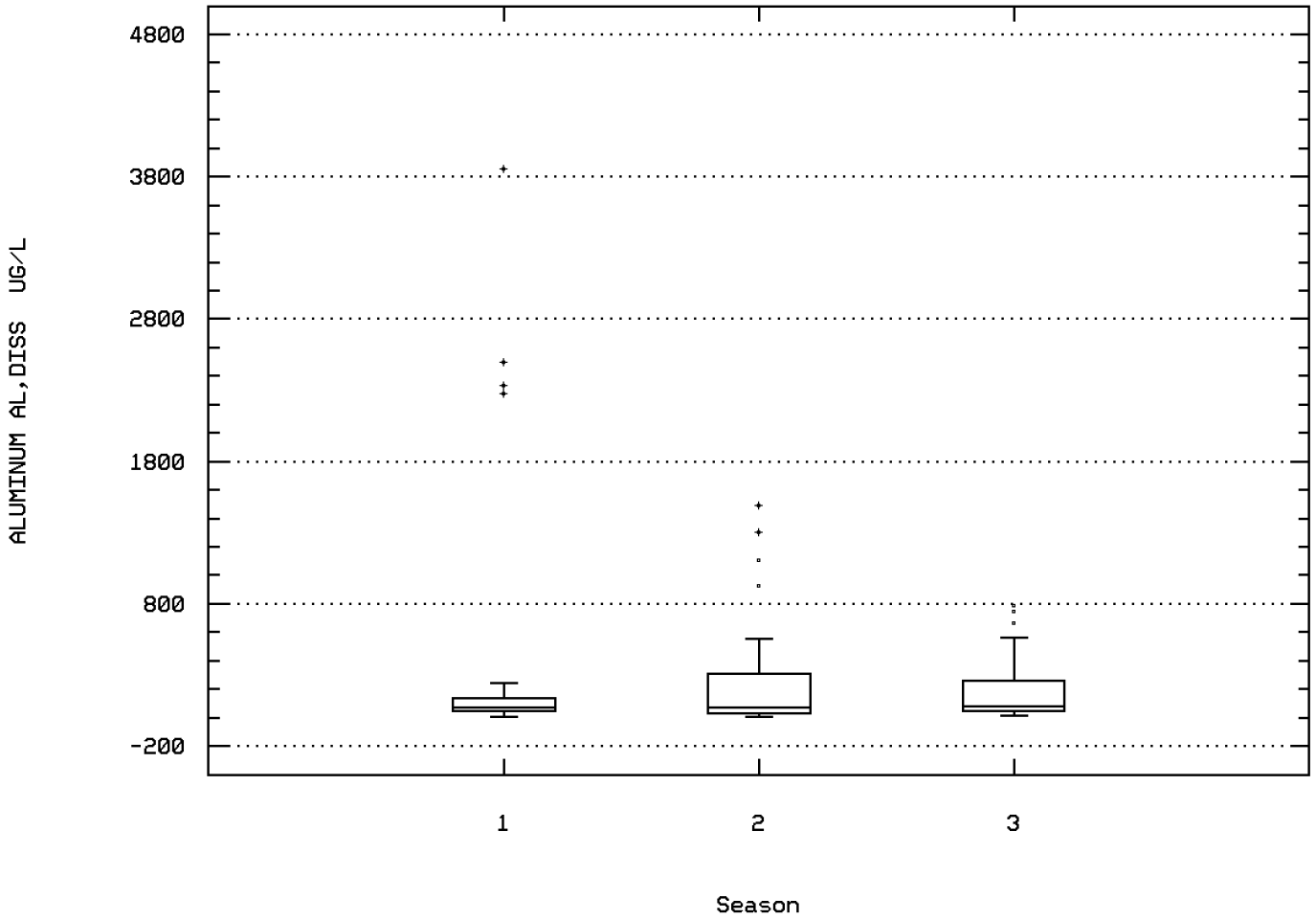
ALUMINUM, TOTAL (UG/L AS AL)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station: FONE0008 Parameter Code: 01106

ALUMINUM, DISSOLVED (UG/L AS AL)



STONY FORK NEAR ELLIOTTSVILLE, PA (51)

Station Inventory for Station: FONE0009

NPS Station ID: FONE0009
LAT/LON: 39.769170/ -79.609449
Agency: 21PAMR
Date Created: 07/25/77
Location: STONY FORK NEAR ELLIOTSVILLE
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010510 /03070390
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 22.70
On/Off RF1:
RF3 Index: 05020004010700.00
RF3 Mile Point: 4.53
Distance from RF3: 0.01
On/Off RF3:
Description:
STONY FORK NEAR ELLIOTSVILLE, PA. USGS WATER QUALITY MONITORING STATION ONE MILE EAST OF ELLIOTSVILLE ON ROUTE 381.

Parameter Inventory for Station: FONE0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	7	15.5	14.5	19.5	7.	25.333	5.033	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/02/77	4	0.5	0.825	2.	0.3	0.649	0.806	**	**	**	**
00065	STAGE, STREAM (FEET)	06/07/77-09/02/77	3	0.7	0.767	0.9	0.7	0.013	0.115	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	7	92.	111.143	182.	59.	2932.81	54.155	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	4	8.65	8.575	10.	7.	1.643	1.282	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/02/77	7	6.8	6.829	7.4	5.9	0.229	0.479	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/02/77	7	6.8	6.549	7.4	5.9	0.32	0.566	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.158	0.283	1.259	0.04	0.189	0.434	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	7	6.6	6.586	7.	6.1	0.081	0.285	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-09/02/77	7	6.6	6.502	7.	6.1	0.09	0.299	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.251	0.315	0.794	0.1	0.053	0.231	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	7	8.	12.	32.	6.	83.	9.11	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	5	9.	10.2	14.	6.	13.2	3.633	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	5	2.	2.	3.	1.	1.	1.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	5	0.	0.3	1.5	0.	0.45	0.671	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-08/03/77	5	34.	41.8	71.	24.	381.2	19.524	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	7	15.	23.286	45.	8.	216.571	14.716	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	7	610.	722.143	1920.	280.	314415.476	560.728	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	6	240.	290.	660.	10.	66880.	258.612	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	96.	96.	96.	96.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/02/77	6	8.5	16.5	64.	2.	557.9	23.62	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/01-10/31---------- Obs	Exceed	Prop.	----------11/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00				3	0	0.00			
00400	PH	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	1	0.14	2	0	0.00				5	1	0.20			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	2	0.29	2	1	0.50				5	1	0.20			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	2	0	0.00				5	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0010

NPS Station ID: FONE0010 LAT/LON: 39.769448/ -79.626670 Agency: 21PA Date Created: 04/19/77
Location: BIG SANDY CRK-OFF RTE 381-WHARTON TWP FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): WQN0723 /ABMS0723 /03070400
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 05020004 Depth of Water: 0 Aquifer:
Major Basin: MONONGAHELA RIVER Elevation: 0 Water Body Id:
Minor Basin: BIG SANDY CREEK ECO Region:
RF1 Index: 05020004037 RF1 Mile Point: 3.270 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 05020005027011.34 RF3 Mile Point: 11.34 Distance from RF3: 0.06 On/Off RF3:
Description:
BIG SANDY CREEK AT BRIDGE ON LR26042 OFF RT.381 AT ELLIOTTSVILLE, WHARTON TOWNSHIP, FAYETTE COUNTY. 8.0 KM ABOVE STATE LINE, 0.45 KM ABOVE STONY FORK. SAMPLED AT MID-CHANNEL. QUARTERLY CHEMICAL AND ANNUAL QUALITATIVE BIOLOGICAL. NO SPECIAL PARAMETERS.

Parameter Inventory for Station: FONE0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/72-11/02/87	41	12.	11.61	25.5	0.	49.756	7.054	2.	5.5	18.	20.8
00065	STAGE, STREAM (FEET)	04/20/78-04/20/78	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/21/72-11/22/77	22	3.85	6.682	36.	0.7	69.204	8.319	1.	2.35	7.3	19.7
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/21/78-11/03/82	23	1.9	4.957	35.	1.	56.282	7.502	1.04	1.4	7.3	13.2
00080	COLOR (PLATINUM-COBALT UNITS)	04/15/75-06/12/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/29/74-04/29/74	1	80.	80.	80.	80.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/21/72-11/02/87	69	80.	114.696	1435.	45.	28422.421	168.59	58.	65.5	111.	150.
00300	OXYGEN, DISSOLVED MG/L	08/09/72-11/02/87	28	10.75	10.914	18.2	8.	5.001	2.236	8.2	9.1	11.975	13.32
00400	PH (STANDARD UNITS)	08/09/72-11/02/87	45	6.9	6.936	9.	6.05	0.323	0.568	6.3	6.5	7.125	7.74
00400	CONVERTED PH (STANDARD UNITS)	08/09/72-11/02/87	45	6.9	6.682	9.	6.05	0.389	0.623	6.3	6.5	7.125	7.74
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/72-11/02/87	45	0.126	0.208	0.891	0.001	0.044	0.209	0.018	0.075	0.316	0.501
00403p	PH, LAB, STANDARD UNITS SU	08/09/72-11/02/87	70	6.9	6.849	8.	5.6	0.265	0.515	6.2	6.4	7.2	7.59
00403p	CONVERTED PH, LAB, STANDARD UNITS	08/09/72-11/02/87	70	6.9	6.554	8.	5.6	0.353	0.595	6.2	6.4	7.2	7.59
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/72-11/02/87	70	0.126	0.28	2.512	0.01	0.158	0.397	0.026	0.063	0.398	0.631
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	70	14.	16.4	40.	5.	79.258	8.903	7.	9.75	22.25	30.9
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/09/72-02/09/83	49	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	08/09/72-11/22/77	26	0.	1.231	18.	0.	16.025	4.003	0.	0.	0.	5.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/15/75-11/02/87	53	60.	73.321	386.	6.	3529.222	59.407	30.	44.	85.	113.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/25/79-10/25/79	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/21/72-11/02/87	69	0.04	0.076	1.93	0.	0.054	0.233	0.01	0.02	0.055	0.1
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	67	0.004	0.006	0.042	0.	0.	0.008	0.001	0.001	0.01	0.016
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	67	0.27	0.334	2.019	0.02	0.089	0.299	0.066	0.14	0.39	0.684
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	08/09/72-11/02/87	69	0.03	0.057	0.85	0.005	0.012	0.11	0.01	0.01	0.055	0.1
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/28/73-06/28/73	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00719	CYANIDE,FREE,IN WATER&WASTEWATERS,HBG METHOD UG/L	07/16/84-10/16/84	2	30.5	30.5	38.	23.	112.5	10.607	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/84-10/16/84	2	0.036	0.036	0.041	0.03	0.	0.008	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	67	30.	32.687	71.	16.	161.491	12.708	19.8	23.	40.	50.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/72-11/22/77	27	8.	9.211	20.8	3.2	17.813	4.221	4.96	6.7	11.7	16.04
00916	CALCIUM, TOTAL (MG/L AS CA)	02/21/78-11/02/87	43	7.5	9.351	44.5	2.5	39.384	6.276	5.08	6.	11.	13.84
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/72-09/20/77	26	3.	2.95	7.7	0.	3.848	1.962	0.237	1.5	4.075	6.07
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/21/78-11/02/87	43	1.9	2.893	22.8	1.	12.947	3.598	1.2	1.5	3.	4.
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/09/72-11/02/87	69	6.	9.014	65.	2.	65.397	8.087	4.	5.	12.	15.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/09/72-11/02/87	68	12.	16.691	152.	0.	344.724	18.567	5.	8.25	22.	28.1

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00997	ARSENIC, INORGANIC TOT (UG/L AS AS)	09/21/72-10/07/74	3	10.	11.667	25.	0.	158.333	12.583	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/07/73-11/07/73	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/21/72-10/16/84	5 ##	5.	16.4	50.	0.	452.3	21.267	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/21/72-08/25/87	13 ##	1.5	2.185	10.	0.1	7.213	2.686	0.18	0.5	2.25	8.
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/21/72-08/25/87	13 ##	5.	8.231	35.	0.	106.359	10.313	0.8	2.	10.	31.
01042	COPPER, TOTAL (UG/L AS CU)	09/21/72-08/25/87	13 ##	25.	22.231	50.	2.	254.026	15.938	3.2	5.	32.5	48.
01045p	IRON, TOTAL (UG/L AS FE)	08/09/72-11/02/87	72	365.	502.542	2200.	1.	227925.914	477.416	143.	212.5	557.5	1100.
01051	LEAD, TOTAL (UG/L AS PB)	09/21/72-08/25/87	13 ##	6.	12.462	25.	2.	110.769	10.525	2.	3.5	25.	25.
01055	MANGANESE, TOTAL (UG/L AS MN)	09/21/72-08/25/87	17	40.	80.588	680.	10.	24590.257	156.813	18.	22.5	65.	216.
01067	NICKEL, TOTAL (UG/L AS NI)	09/21/72-08/25/87	13 ##	25.	22.308	70.	0.	285.897	16.909	2.	10.	25.	52.
01092	ZINC, TOTAL (UG/L AS ZN)	09/21/72-08/25/87	13	12.	51.308	320.	5.	7453.897	86.336	5.	5.	70.	230.
01105	ALUMINUM, TOTAL (UG/L AS AL)	09/21/72-08/25/87	13	300.	386.538	1610.	50.	174497.436	417.729	60.	100.	430.	1270.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	43	140.	403.942	4100.	5.	570726.36	755.464	15.5	50.	320.	1252.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	43	2.146	2.154	3.613	0.699	0.422	0.649	1.179	1.699	2.505	3.083
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			142.451								
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/01/84-10/16/84	3	0.	1.	3.	0.	3.	1.732	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	08/02/82-08/02/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/21/78-11/02/87	43	0.	3.372	46.	0.	78.763	8.875	0.	0.	2.	13.2
71900	MERCURY, TOTAL (UG/L AS HG)	09/21/72-10/16/84	5 ##	2.5	1.8	2.5	0.5	0.95	0.975	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/09/83-11/02/87	20	4.2	9.665	58.	0.6	193.709	13.918	1.1	1.375	11.125	27.8
82550	OSMOTIC PRESSURE,TOTAL,UNF WHL WTR,MILLIOSMOLES/KG	08/12/81-11/14/85	15 ##	0.54	0.63	1.61	0.	0.247	0.497	0.105	0.18	1.08	1.604

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	22	0	0.00	7	0	0.00	7	0	0.00	8	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	23	0	0.00	7	0	0.00	9	0	0.00	7	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	28	0	0.00	9	0	0.00	11	0	0.00	8	0	0.00			
00400	PH	Other-Hi Lim.	9.	45	1	0.02	13	0	0.00	19	0	0.00	13	1	0.08			
		Other-Lo Lim.	6.5	45	12	0.27	13	0	0.00	19	7	0.37	13	5	0.38			
00403	PH, LAB	Other-Hi Lim.	9.	70	0	0.00	22	0	0.00	27	0	0.00	21	0	0.00			
		Other-Lo Lim.	6.5	70	21	0.30	22	5	0.23	27	10	0.37	21	6	0.29			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	67	0	0.00	21	0	0.00	25	0	0.00	21	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	67	0	0.00	22	0	0.00	24	0	0.00	21	0	0.00			
00719	CYANIDE, FREE,IN WATER&WASTEWATERS, HBG	Fresh Acute	22.	2	2	1.00	2	2	1.00									
		Drinking Water	200.	2	0	0.00	2	0	0.00									
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	2	1.00	2	2	1.00									
		Drinking Water	0.2	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	69	0	0.00	22	0	0.00	27	0	0.00	20	0	0.00			
		Drinking Water	250.	69	0	0.00	22	0	0.00	27	0	0.00	20	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	68	0	0.00	21	0	0.00	27	0	0.00	20	0	0.00			
00997	ARSENIC, INORGANIC TOT	Fresh Acute	360.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	1	1.00				1	1	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00	4	0	0.00	1	0	0.00						
		Drinking Water	50.	4 &	0	0.00	3	0	0.00	1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	12 &	1	0.08	8	0	0.00	4	1	0.25						
		Drinking Water	5.	12 &	1	0.08	8	0	0.00	4	1	0.25						
01034	CHROMIUM, TOTAL	Drinking Water	100.	13	0	0.00	9	0	0.00	4	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	7 &	2	0.29	4	1	0.25	3	1	0.33						
		Drinking Water	1300.	13	0	0.00	9	0	0.00	4	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	13	0	0.00	9	0	0.00	4	0	0.00						
		Drinking Water	15.	8 &	0	0.00	6	0	0.00	2	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	13	0	0.00	9	0	0.00	4	0	0.00						
		Drinking Water	100.	13	0	0.00	9	0	0.00	4	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	13	1	0.08	9	1	0.11	4	0	0.00						
		Drinking Water	5000.	13	0	0.00	9	0	0.00	4	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

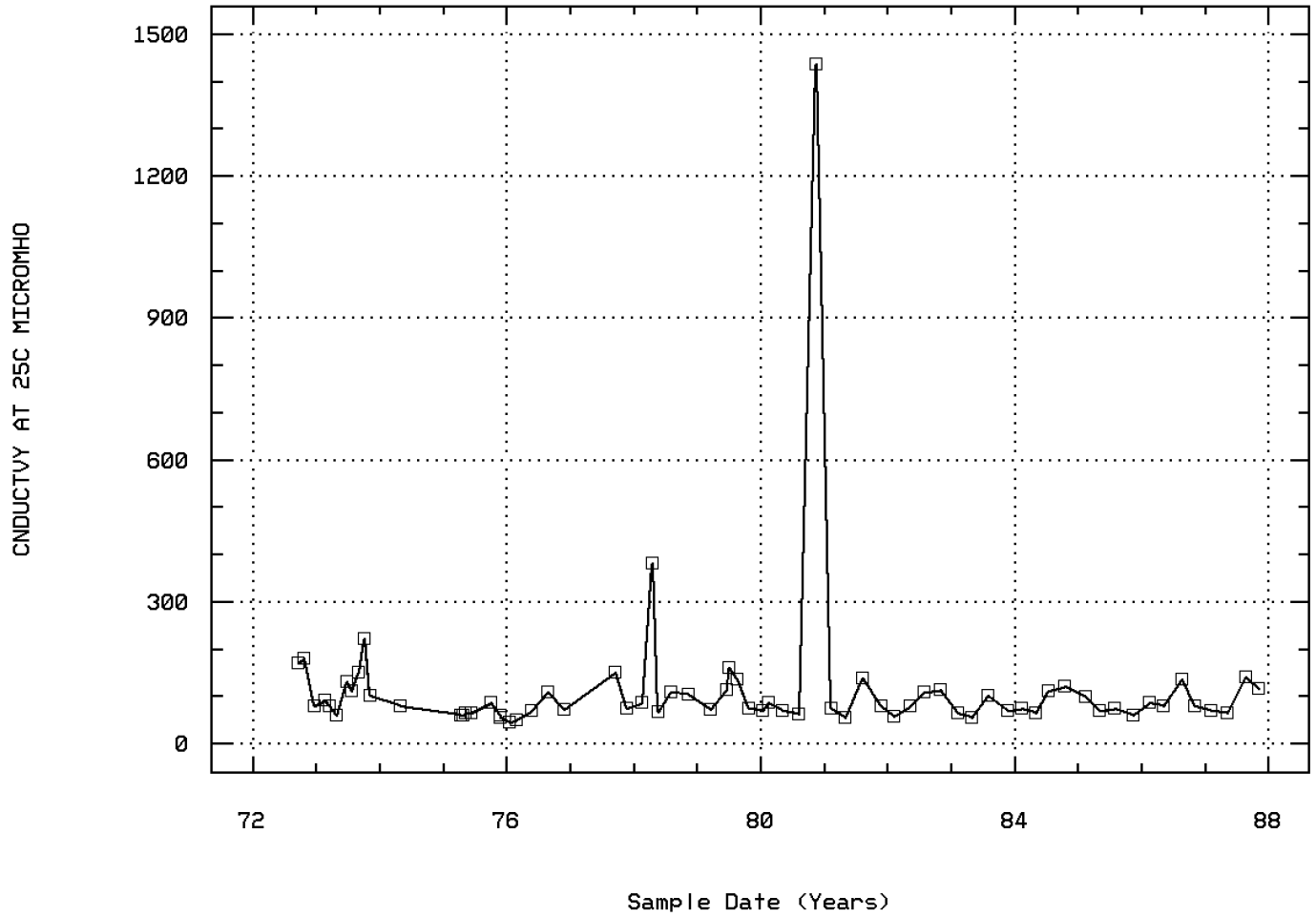
EPA Water Quality Criteria Analysis for Station: FONE0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	43	20	0.47	14	9	0.64	17	8	0.47	12	3	0.25			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2 &	0	0.00	2	0	0.00									
		Drinking Water	2.	2 &	0	0.00	2	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	20	1	0.05	6	0	0.00	9	1	0.11	5	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: FONE0010 Parameter Code: 00095

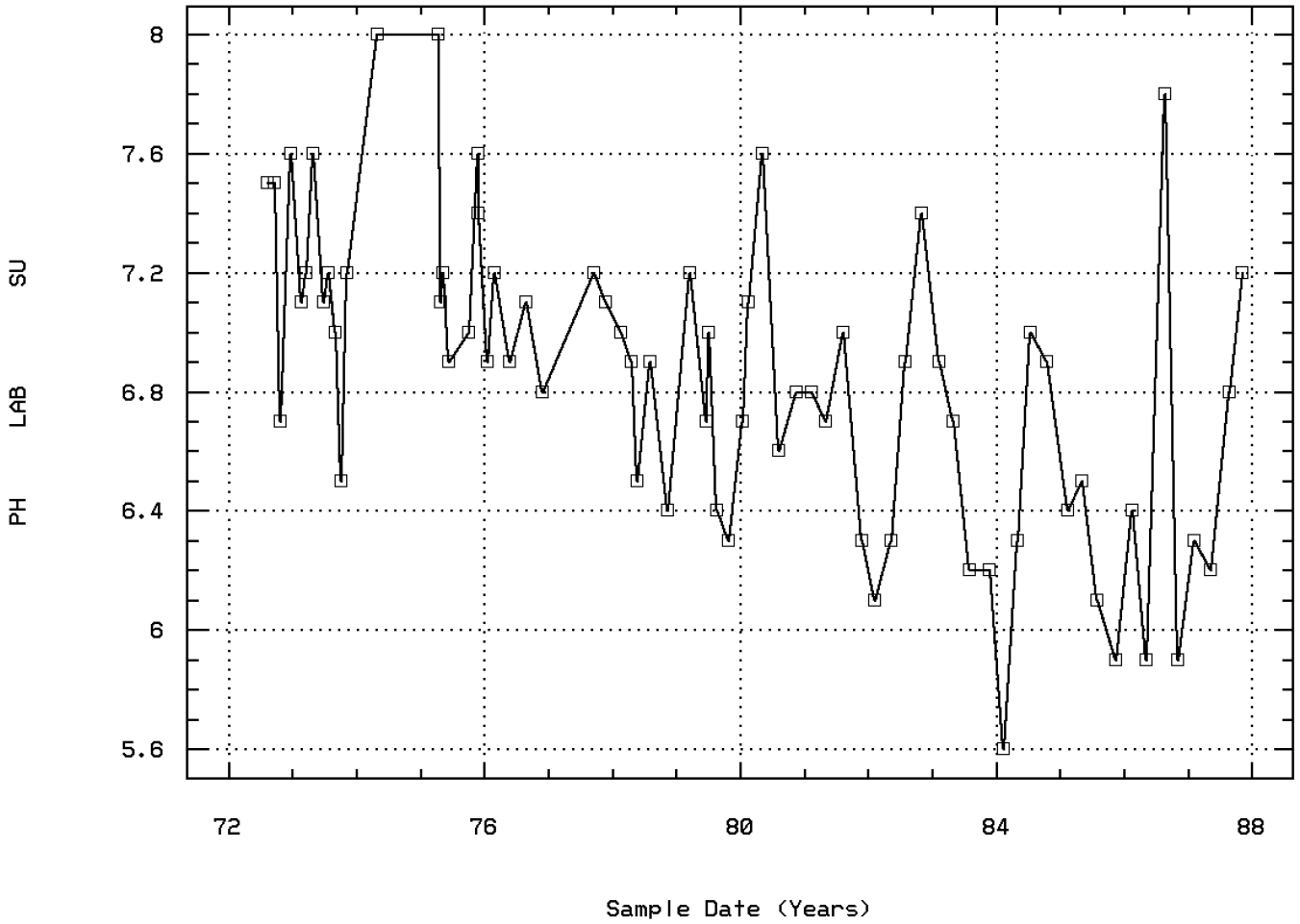
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00403

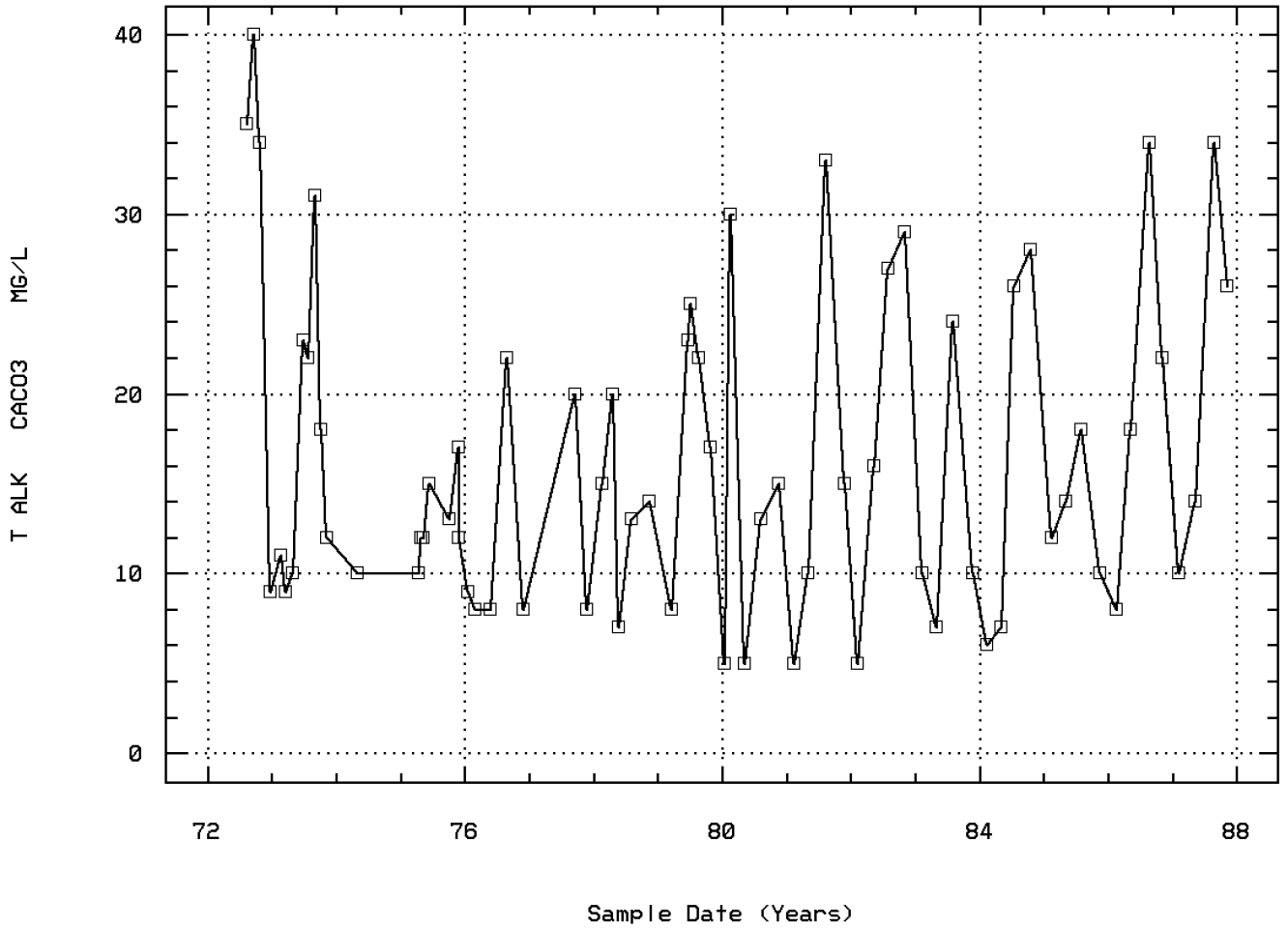
PH, LAB, STANDARD UNITS



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00410

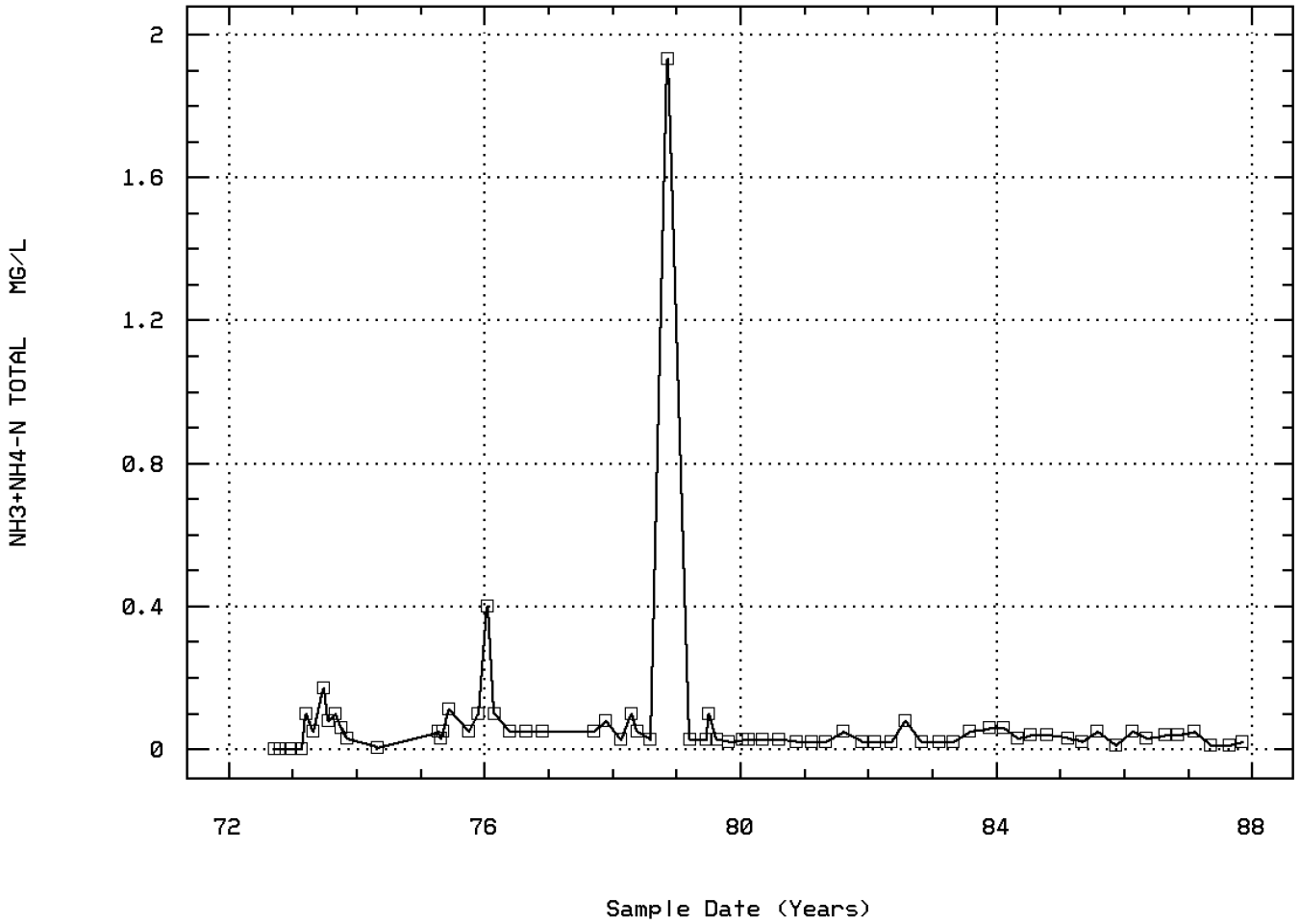
ALKALINITY, TOTAL (MG/L AS CACO3)



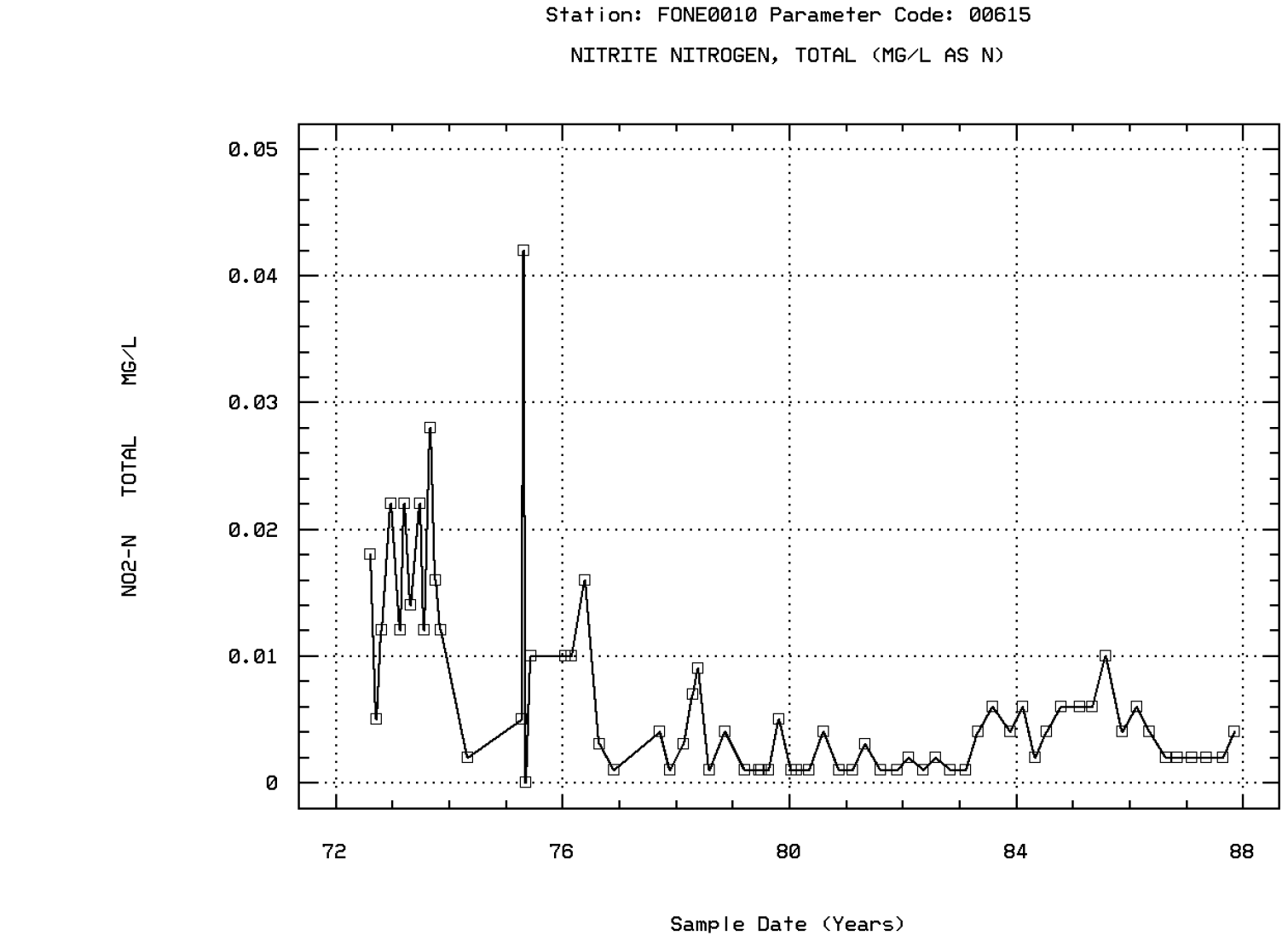
BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00610

NITROGEN, AMMONIA, TOTAL (MG/L AS N)



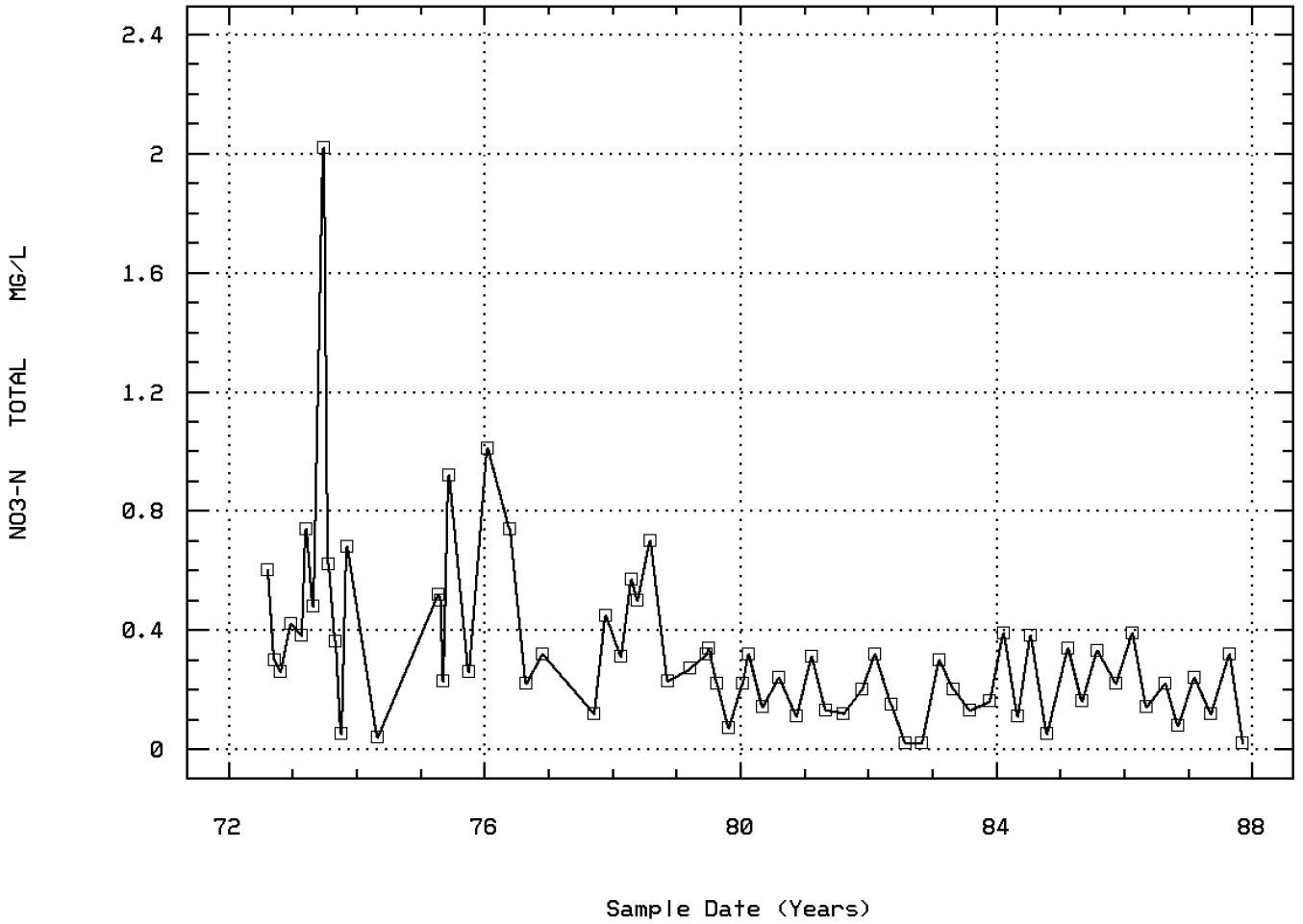
BIG SANDY CRK-OFF RTE 381-WHARTON TWP



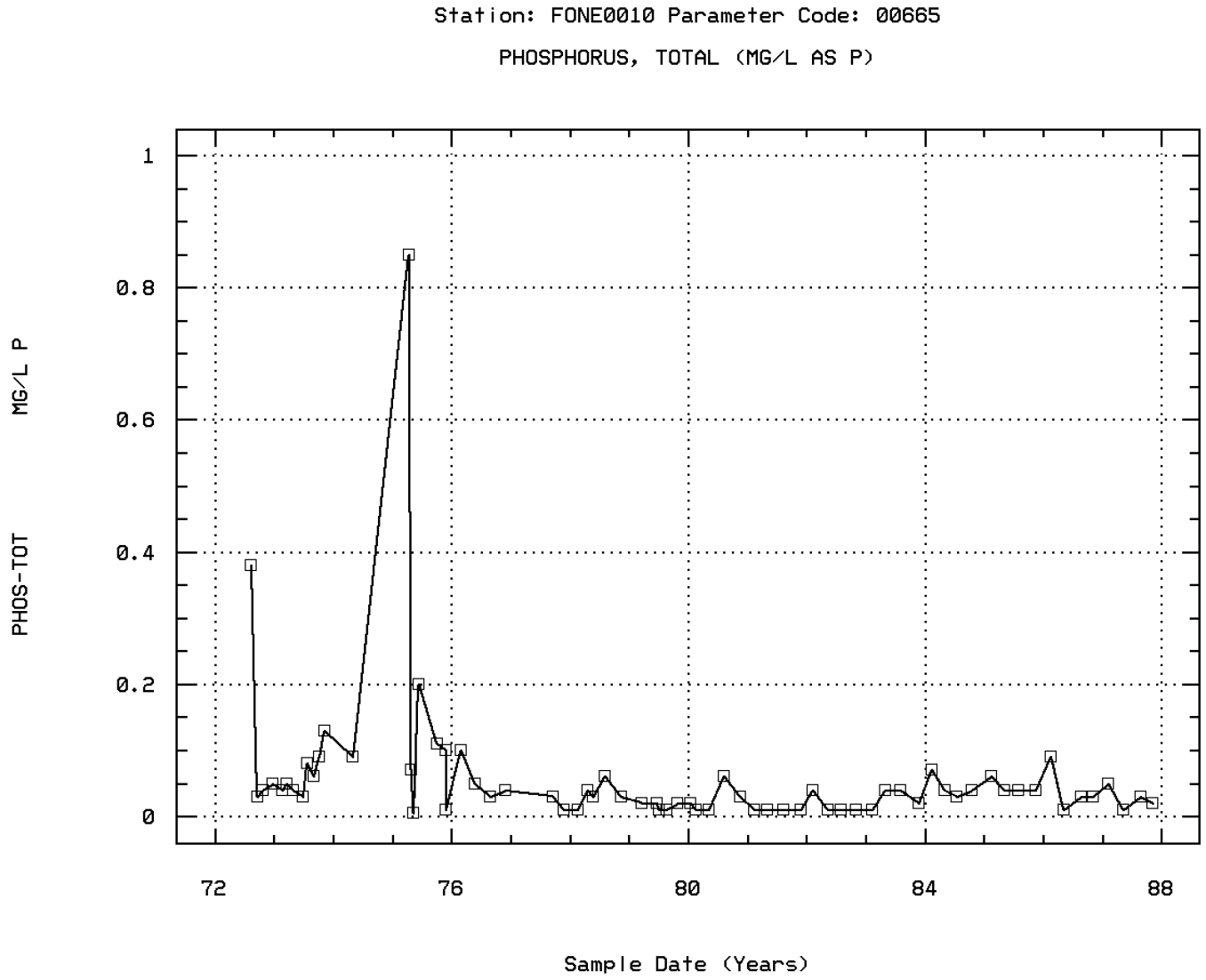
BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00620

NITRATE NITROGEN, TOTAL (MG/L AS N)



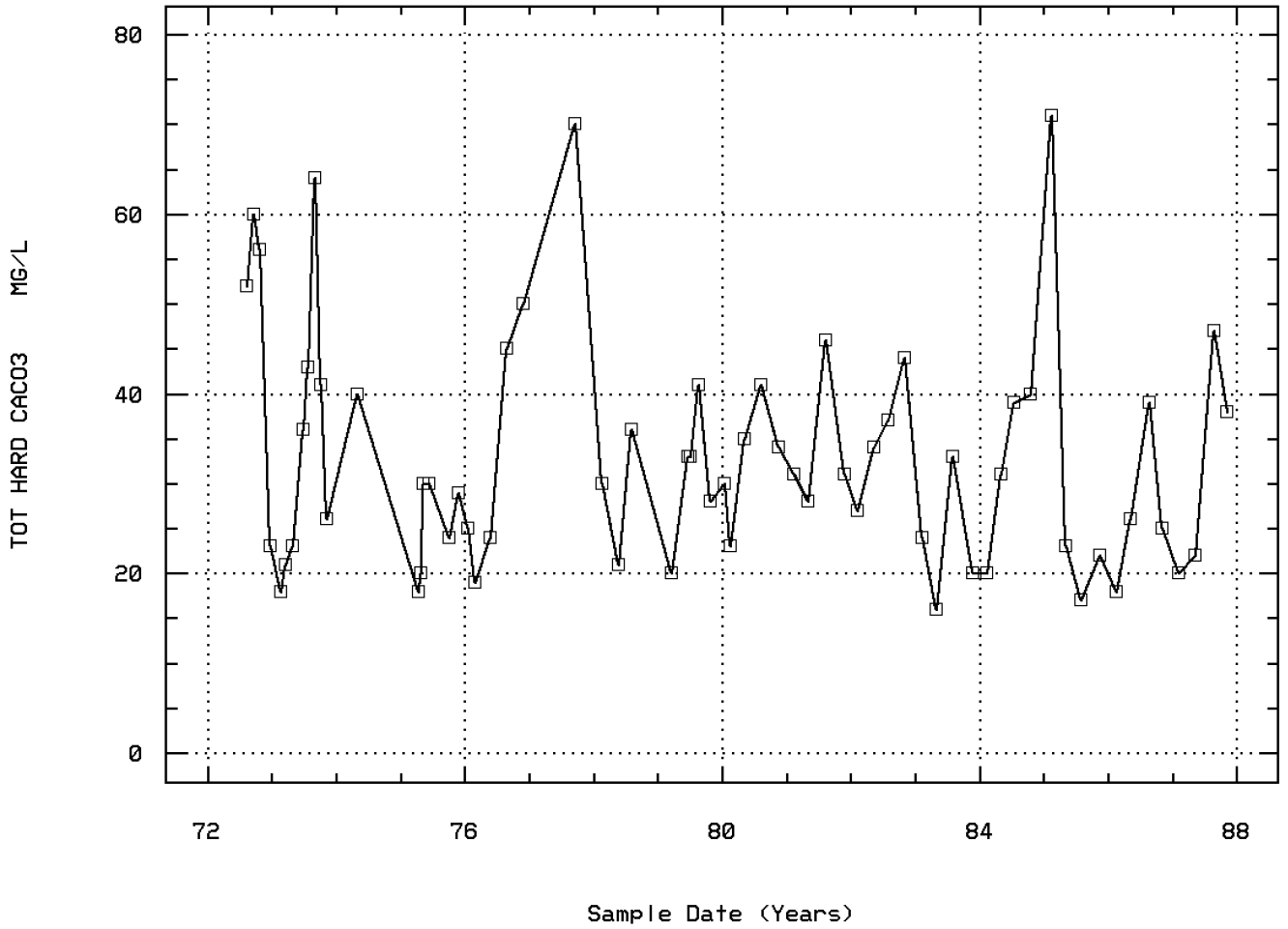
BIG SANDY CRK-OFF RTE 381-WHARTON TWP



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00900

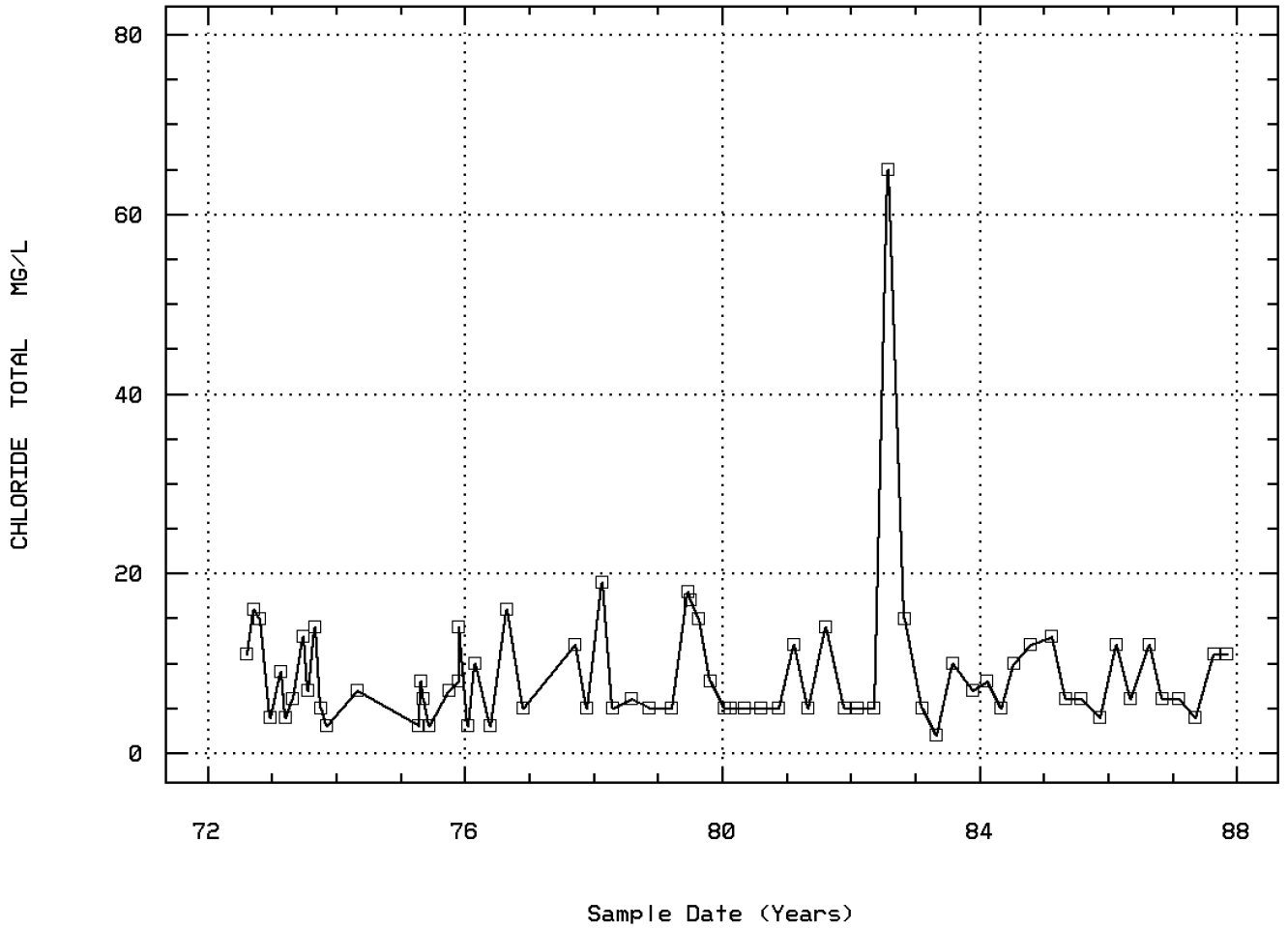
HARDNESS, TOTAL (MG/L AS CACO3)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00940

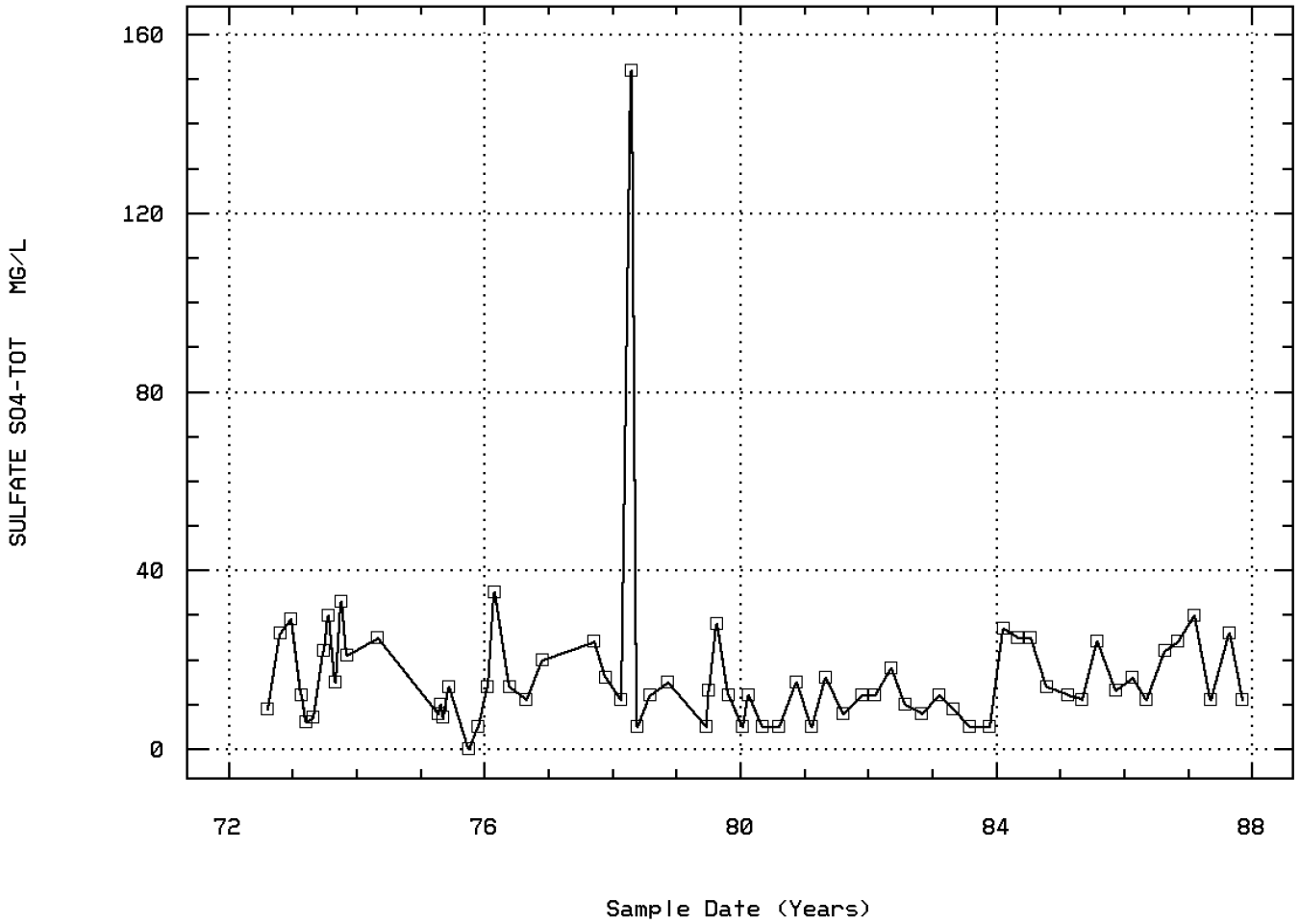
CHLORIDE,TOTAL IN WATER



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00945

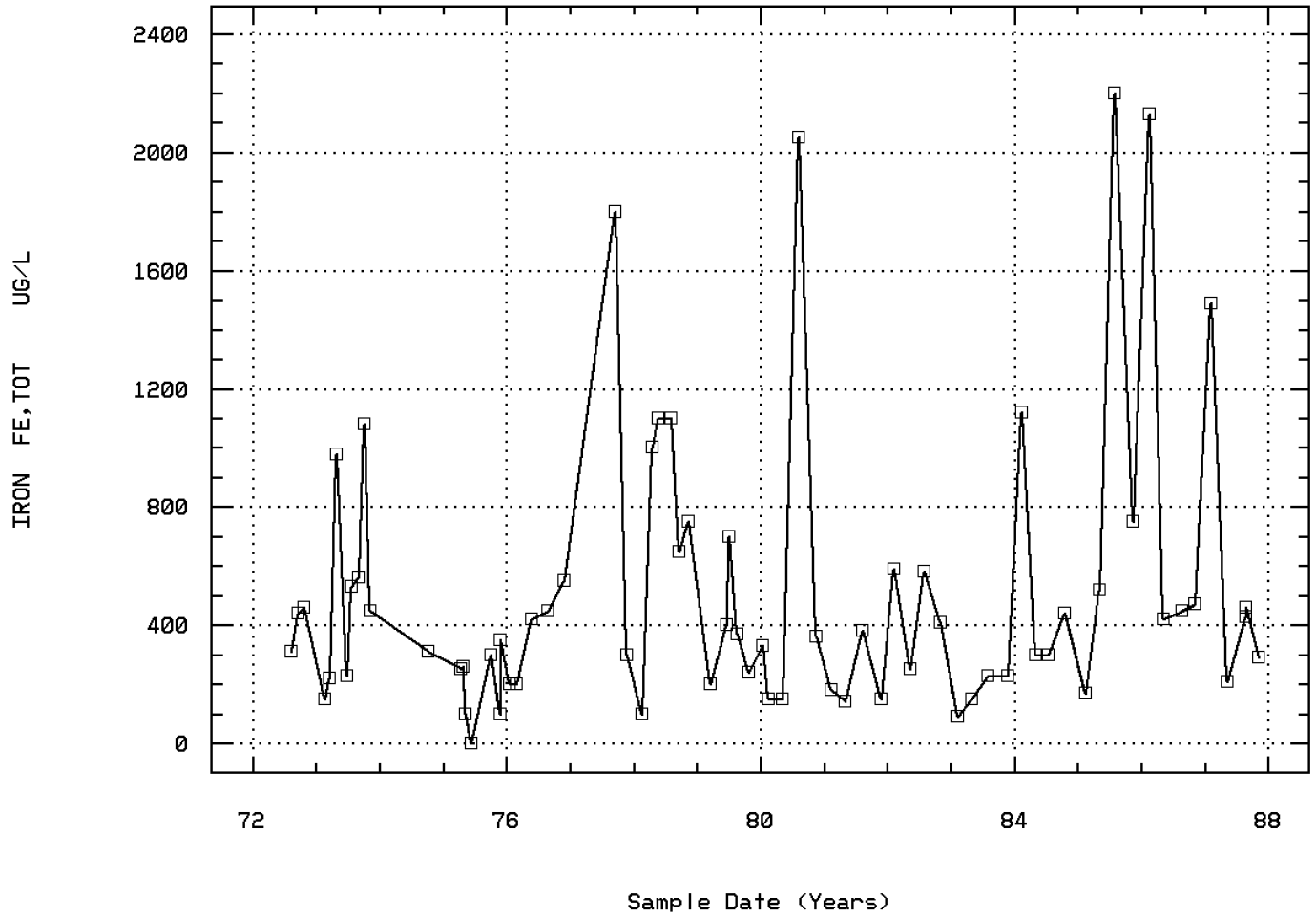
SULFATE, TOTAL (MG/L AS SO4)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01045

IRON, TOTAL (UG/L AS FE)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FONE0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/72-11/02/87	12	19.	18.167	25.5	8.	26.379	5.136	8.9	14.75	22.125	25.05
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/21/72-11/02/87	21	120.	125.524	220.	61.	1489.462	38.594	75.	103.5	149.5	178.
00300p	OXYGEN, DISSOLVED MG/L	08/09/72-11/02/87	9	8.9	9.333	11.9	8.	1.983	1.408	8.	8.2	10.5	11.9
00400p	PH (STANDARD UNITS)	08/09/72-11/02/87	13	7.	7.085	7.8	6.7	0.081	0.285	6.7	6.95	7.25	7.6
00400p	CONVERTED PH (STANDARD UNITS)	08/09/72-11/02/87	13	7.	7.013	7.8	6.7	0.087	0.295	6.7	6.95	7.25	7.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/72-11/02/87	13	0.1	0.097	0.2	0.016	0.003	0.054	0.03	0.057	0.113	0.2
00403p	PH, LAB, STANDARD UNITS SU	08/09/72-11/02/87	22	6.95	6.891	7.8	6.1	0.183	0.428	6.23	6.575	7.125	7.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	08/09/72-11/02/87	22	6.947	6.698	7.8	6.1	0.222	0.471	6.23	6.575	7.125	7.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/72-11/02/87	22	0.113	0.201	0.794	0.016	0.043	0.207	0.032	0.075	0.267	0.592
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	22	24.5	24.955	40.	13.	63.284	7.955	13.	18.	33.25	34.7
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/09/72-02/09/83	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/15/75-11/02/87	16	77.	76.938	146.	12.	1007.396	31.739	35.1	57.	91.5	133.4
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/21/72-11/02/87	21	0.05	0.045	0.1	0.	0.001	0.028	0.002	0.025	0.055	0.096
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	21	0.004	0.007	0.028	0.001	0.	0.007	0.001	0.002	0.011	0.018
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	22	0.25	0.27	0.7	0.02	0.034	0.185	0.05	0.12	0.345	0.614
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	08/09/72-11/02/87	22	0.035	0.056	0.38	0.01	0.006	0.077	0.01	0.028	0.06	0.104
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	22	41.	42.364	70.	17.	158.528	12.591	25.2	35.25	48.25	62.8
00916	CALCIUM, TOTAL (MG/L AS CA)	02/21/78-11/02/87	13	10.8	11.085	14.3	7.2	4.941	2.223	7.32	10.2	13.	14.26
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/21/78-11/02/87	13	2.3	2.392	4.	1.4	0.581	0.762	1.44	1.85	3.	3.72
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/09/72-11/02/87	22	11.5	13.364	65.	5.	147.481	12.144	5.3	7.	15.	16.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/09/72-11/02/87	21	14.	16.762	33.	0.	88.99	9.433	5.	9.5	25.5	29.6
01027p	CADMIUM, TOTAL (UG/L AS CD)	09/21/72-08/25/87	9	2. ##	1.811	5.	0.3	2.071	1.439	0.3	0.5	2.25	5.
01034p	CHROMIUM, TOTAL (UG/L AS CR)	09/21/72-08/25/87	9	4. ##	9.444	35.	0.	150.028	12.249	0.	2.	17.5	35.
01042p	COPPER, TOTAL (UG/L AS CU)	09/21/72-08/25/87	9	25. ##	23.556	50.	5.	225.028	15.001	5.	8.5	32.5	50.
01045p	IRON, TOTAL (UG/L AS FE)	08/09/72-11/02/87	25	450.	672.8	2200.	230.	306254.333	553.403	276.	340.	675.	1900.
01051p	LEAD, TOTAL (UG/L AS PB)	09/21/72-08/25/87	9	6. ##	11.667	25.	2.	105.5	10.271	2.	3.5	25.	25.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/21/72-08/25/87	9	50.	115.556	680.	20.	45371.528	213.006	20.	25.	75.	680.
01067p	NICKEL, TOTAL (UG/L AS NI)	09/21/72-08/25/87	9	25. ##	25.	70.	0.	362.5	19.039	0.	15.	25.	70.
01092p	ZINC, TOTAL (UG/L AS ZN)	09/21/72-08/25/87	9	20.	60.556	320.	5.	10171.528	100.854	5.	5.	70.	320.
01105p	ALUMINUM, TOTAL (UG/L AS AL)	09/21/72-08/25/87	9	300.	405.	1610.	75.	225387.5	474.75	75.	100.	430.	1610.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	14	360.	725.143	4100.	12.	1198941.824	1094.962	26.	75.	870.	2850.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	14	2.554	2.44	3.613	1.079	0.475	0.689	1.341	1.875	2.909	3.408
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			275.545								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/21/78-11/02/87	13	0.	0.692	6.	0.	3.231	1.797	0.	0.	0.	4.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/72-11/02/87	15	3.	4.967	16.	0.	22.874	4.783	0.3	2.	7.	14.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/21/72-11/02/87	27	75.	127.556	1435.	45.	68607.256	261.93	54.	64.	90.	114.2
00300p	OXYGEN, DISSOLVED MG/L	08/09/72-11/02/87	11	11.7	12.118	18.2	8.4	6.768	2.601	8.62	10.8	13.	17.44
00400p	PH (STANDARD UNITS)	08/09/72-11/02/87	19	6.8	6.887	8.	6.2	0.305	0.552	6.3	6.4	7.15	7.8
00400p	CONVERTED PH (STANDARD UNITS)	08/09/72-11/02/87	19	6.8	6.655	8.	6.2	0.362	0.602	6.3	6.4	7.15	7.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/72-11/02/87	19	0.158	0.221	0.631	0.01	0.033	0.183	0.016	0.071	0.398	0.501
00403p	PH, LAB, STANDARD UNITS SU	08/09/72-11/02/87	27	6.8	6.752	7.6	5.6	0.294	0.542	5.9	6.3	7.2	7.44
00403p	CONVERTED PH, LAB, STANDARD UNITS	08/09/72-11/02/87	27	6.8	6.421	7.6	5.6	0.408	0.638	5.9	6.3	7.2	7.44
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/72-11/02/87	27	0.158	0.379	2.512	0.025	0.3	0.548	0.037	0.063	0.501	1.259
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	27	10.	12.63	30.	5.	47.55	6.896	5.	8.	15.	26.6
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/09/72-02/09/83	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/15/75-11/02/87	23	57.	62.391	114.	24.	771.794	27.781	27.6	38.	80.	108.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/21/72-11/02/87	27	0.03 ##	0.122	1.93	0.	0.136	0.369	0.008	0.02	0.06	0.16
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	25	0.003 ##	0.005	0.022	0.001	0.	0.005	0.001	0.001	0.006	0.012
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	24	0.31	0.31	1.01	0.02	0.044	0.209	0.05	0.205	0.388	0.565
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	08/09/72-11/02/87	26	0.03	0.04	0.13	0.01	0.001	0.033	0.01	0.01	0.053	0.1
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	25	26.	29.08	71.	18.	138.41	11.765	18.6	21.	31.	46.4

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916	CALCIUM, TOTAL (MG/L AS CA)	02/21/78-11/02/87	18	6.8	7.733	13.6	2.5	8.872	2.979	4.75	5.975	9.25	13.06
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/21/78-11/02/87	18	2.	3.339	22.8	1.	24.472	4.947	1.18	1.4	3.	5.88
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/09/72-11/02/87	27	6.	7.741	19.	3.	17.199	4.147	3.8	5.	11.	14.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/09/72-11/02/87	27	12.	14.889	35.	5.	67.256	8.201	5.	11.	20.	29.2
01027p	CADMIUM, TOTAL (UG/L AS CD)	09/21/72-08/25/87	4 ##	1.	3.025	10.	0.1	21.969	4.687	**	**	**	**
01034p	CHROMIUM, TOTAL (UG/L AS CR)	09/21/72-08/25/87	4 ##	5.	5.5	10.	2.	11.	3.317	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	09/21/72-08/25/87	4 ##	15.	19.25	45.	2.	398.917	19.973	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	08/09/72-11/02/87	27	300.	446.704	2130.	1.	223681.063	472.949	98.	150.	550.	1194.
01051p	LEAD, TOTAL (UG/L AS PB)	09/21/72-08/25/87	4 ##	15.	14.25	25.	2.	155.583	12.473	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/21/72-08/25/87	7	30.	45.714	100.	20.	995.238	31.547	**	**	**	**
01067p	NICKEL, TOTAL (UG/L AS NI)	09/21/72-08/25/87	4 ##	17.5	16.25	25.	5.	106.25	10.308	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	09/21/72-08/25/87	4	11.	30.5	95.	5.	1857.667	43.101	**	**	**	**
01105p	ALUMINUM, TOTAL (UG/L AS AL)	09/21/72-08/25/87	4	285.	345.	760.	50.	93633.333	305.996	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	17	180.	328.824	2500.	20.	354170.404	595.122	28.	50.	290.	1204.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	17	2.255	2.16	3.398	1.301	0.291	0.539	1.442	1.699	2.462	3.035
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			144.444								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/21/78-11/02/87	18	0.	5.333	46.	0.	138.353	11.762	0.	0.	4.5	22.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

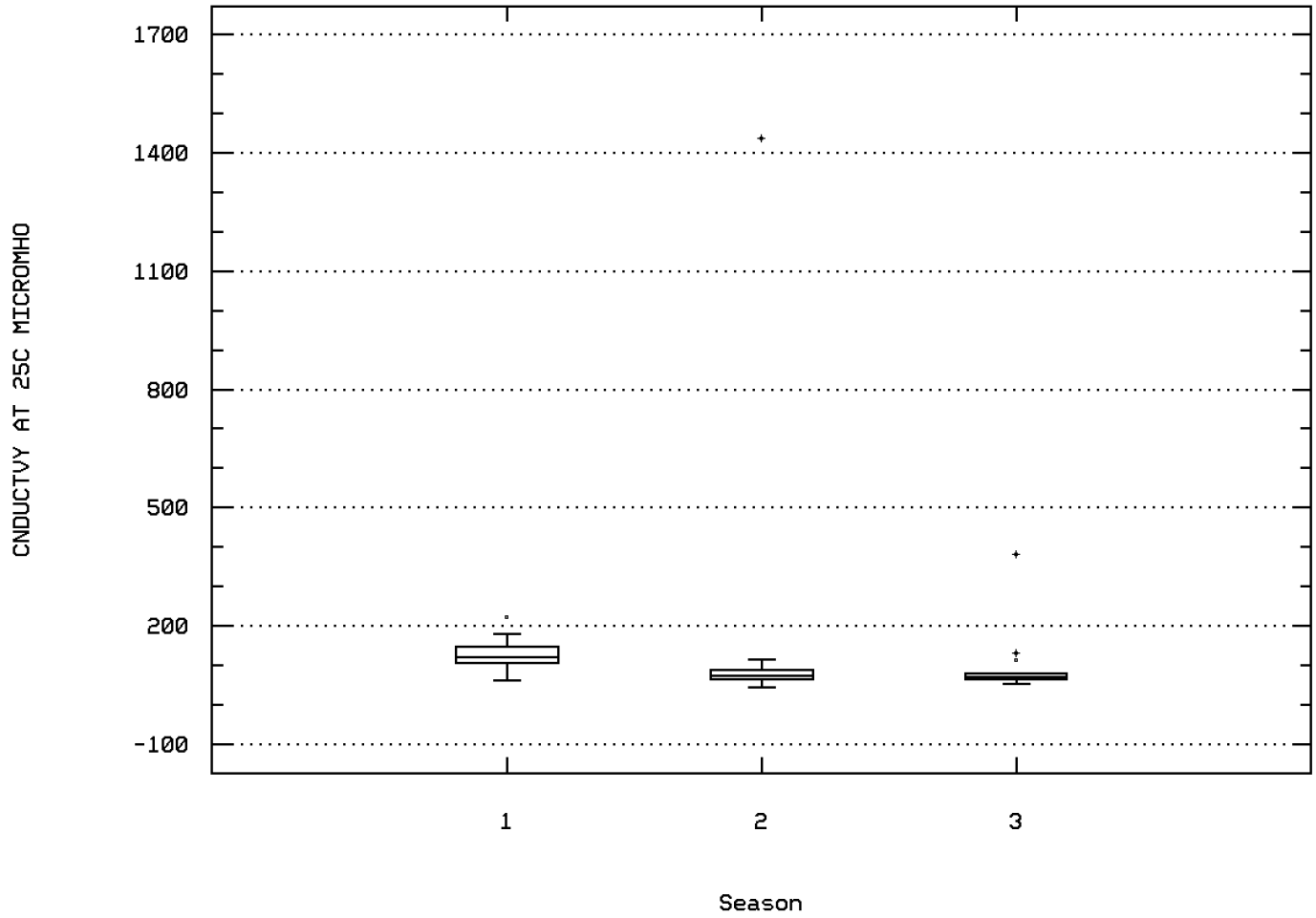
Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/72-11/02/87	14	13.	13.107	20.	8.	13.122	3.622	8.	10.5	15.75	19.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/21/72-11/02/87	21	70.	87.333	380.	53.	4824.833	69.461	55.6	62.5	80.	126.4
00300p	OXYGEN, DISSOLVED MG/L	08/09/72-11/02/87	8	10.65	11.038	13.2	9.4	1.848	1.36	**	**	**	**
00400p	PH (STANDARD UNITS)	08/09/72-11/02/87	13	6.7	6.858	9.	6.05	0.611	0.782	6.07	6.3	7.1	8.44
00400p	CONVERTED PH (STANDARD UNITS)	08/09/72-11/02/87	13	6.7	6.524	9.	6.05	0.731	0.855	6.07	6.3	7.1	8.44
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/72-11/02/87	13	0.2	0.299	0.891	0.001	0.084	0.29	0.011	0.079	0.501	0.852
00403p	PH, LAB, STANDARD UNITS SU	08/09/72-11/02/87	21	6.9	6.929	8.	5.9	0.319	0.565	6.22	6.5	7.2	7.92
00403p	CONVERTED PH, LAB, STANDARD UNITS	08/09/72-11/02/87	21	6.9	6.63	8.	5.9	0.413	0.642	6.22	6.5	7.2	7.92
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/72-11/02/87	21	0.126	0.234	1.259	0.01	0.086	0.294	0.013	0.063	0.316	0.605
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	21	10.	12.286	23.	5.	27.714	5.264	7.	8.	15.5	22.4
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/09/72-02/09/83	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00515p	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/15/75-11/02/87	14	50.	87.143	386.	6.	11215.209	105.902	18.	39.5	68.5	328.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/21/72-11/02/87	21	0.03	0.047	0.17	0.003	0.002	0.041	0.012	0.02	0.05	0.11
00615p	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	21	0.004	0.008	0.042	0.	0.	0.01	0.001	0.002	0.012	0.022
00620p	NITRATE NITROGEN, TOTAL (MG/L AS N)	08/09/72-11/02/87	21	0.27	0.429	2.019	0.04	0.194	0.441	0.112	0.14	0.545	0.884
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	08/09/72-11/02/87	21	0.04	0.079	0.85	0.005	0.033	0.182	0.01	0.01	0.05	0.178
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/72-11/02/87	20	25.	26.55	40.	16.	45.734	6.763	18.2	21.	32.5	35.9
00916	CALCIUM, TOTAL (MG/L AS CA)	02/21/78-11/02/87	12	6.35	9.9	44.5	4.	123.109	11.095	4.3	5.375	9.825	34.45
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/21/78-11/02/87	12	1.6	2.767	12.5	1.	10.341	3.216	1.06	1.25	2.75	10.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/09/72-11/02/87	20	5.	5.95	18.	2.	13.418	3.663	3.	4.	6.	12.5
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/09/72-11/02/87	20	11.	19.05	152.	5.	1019.418	31.928	5.	7.	17.5	25.
01045p	IRON, TOTAL (UG/L AS FE)	08/09/72-11/02/87	20	250.	365.1	1100.	2.	96328.621	310.369	104.	162.5	420.	998.
01055p	MANGANESE, TOTAL (UG/L AS MN)	09/21/72-08/25/87	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	12	100.	135.625	620.	5.	28481.96	168.766	6.5	15.625	185.	501.5
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/20/77-11/02/87	12	2.	1.811	2.792	0.699	0.392	0.626	0.789	1.172	2.262	2.66
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			64.69								
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	02/21/78-11/02/87	12	0.	3.333	28.	0.	68.606	8.283	0.	0.	1.5	22.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0010 Parameter Code: 00095

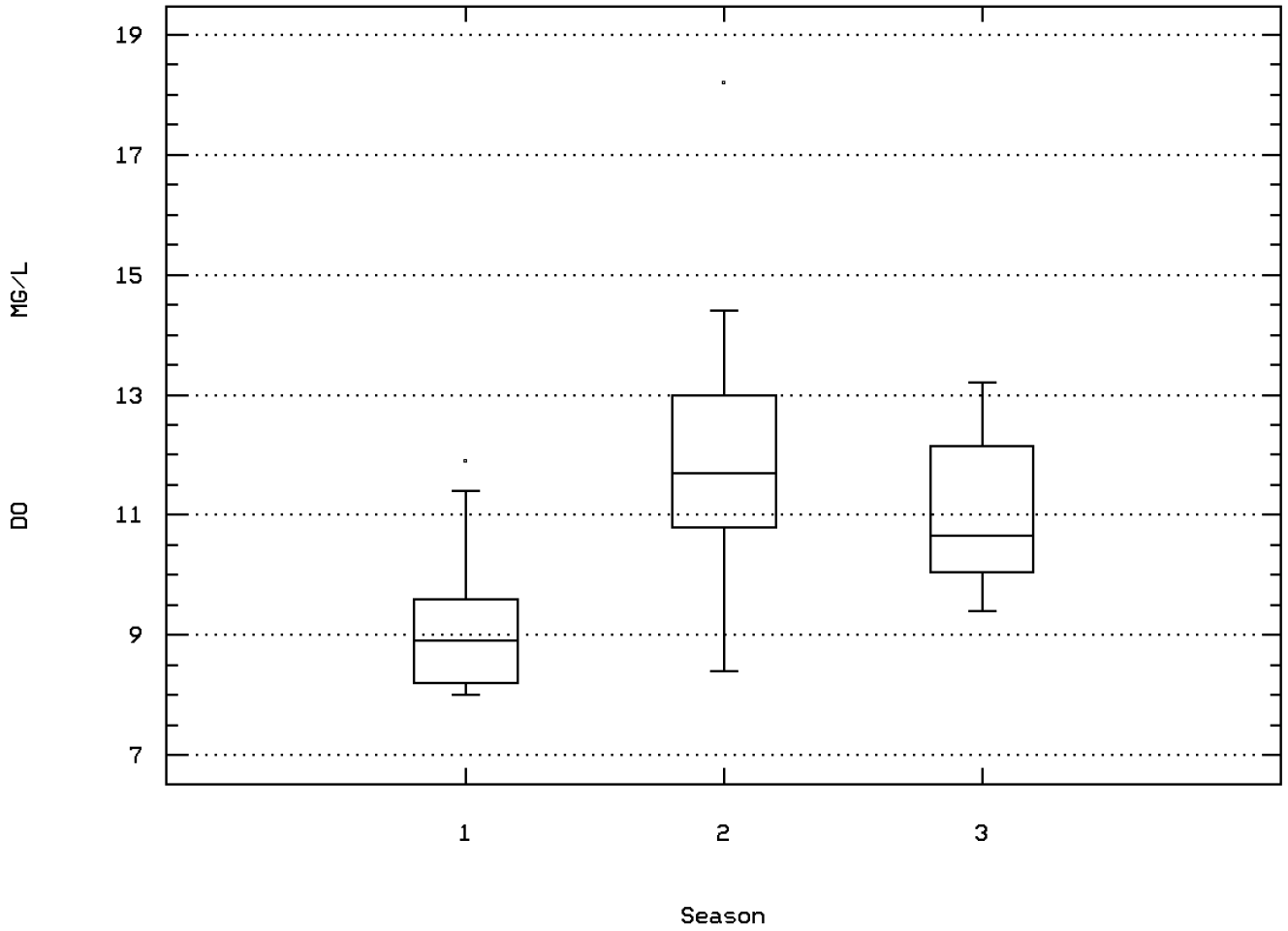
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



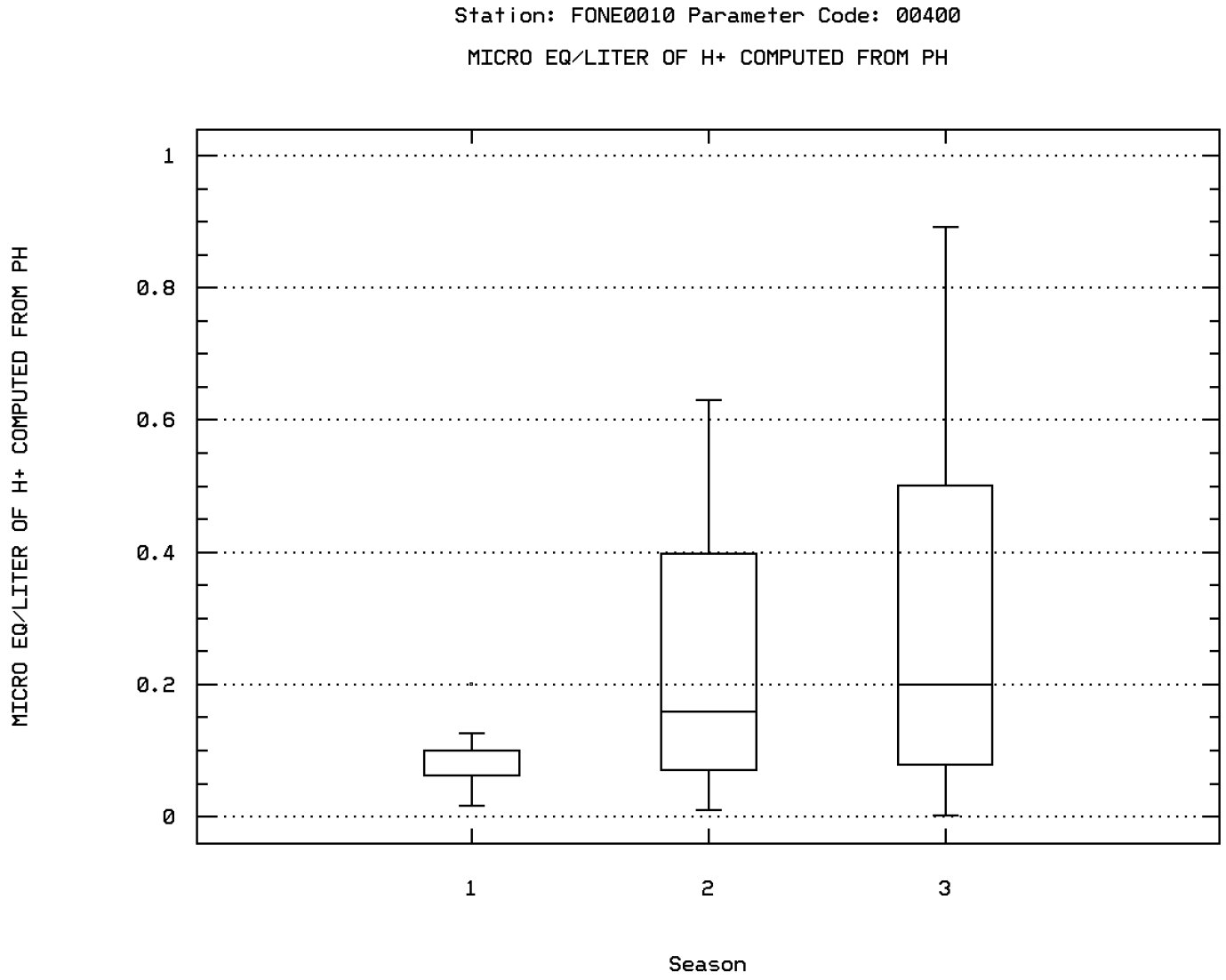
BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00300

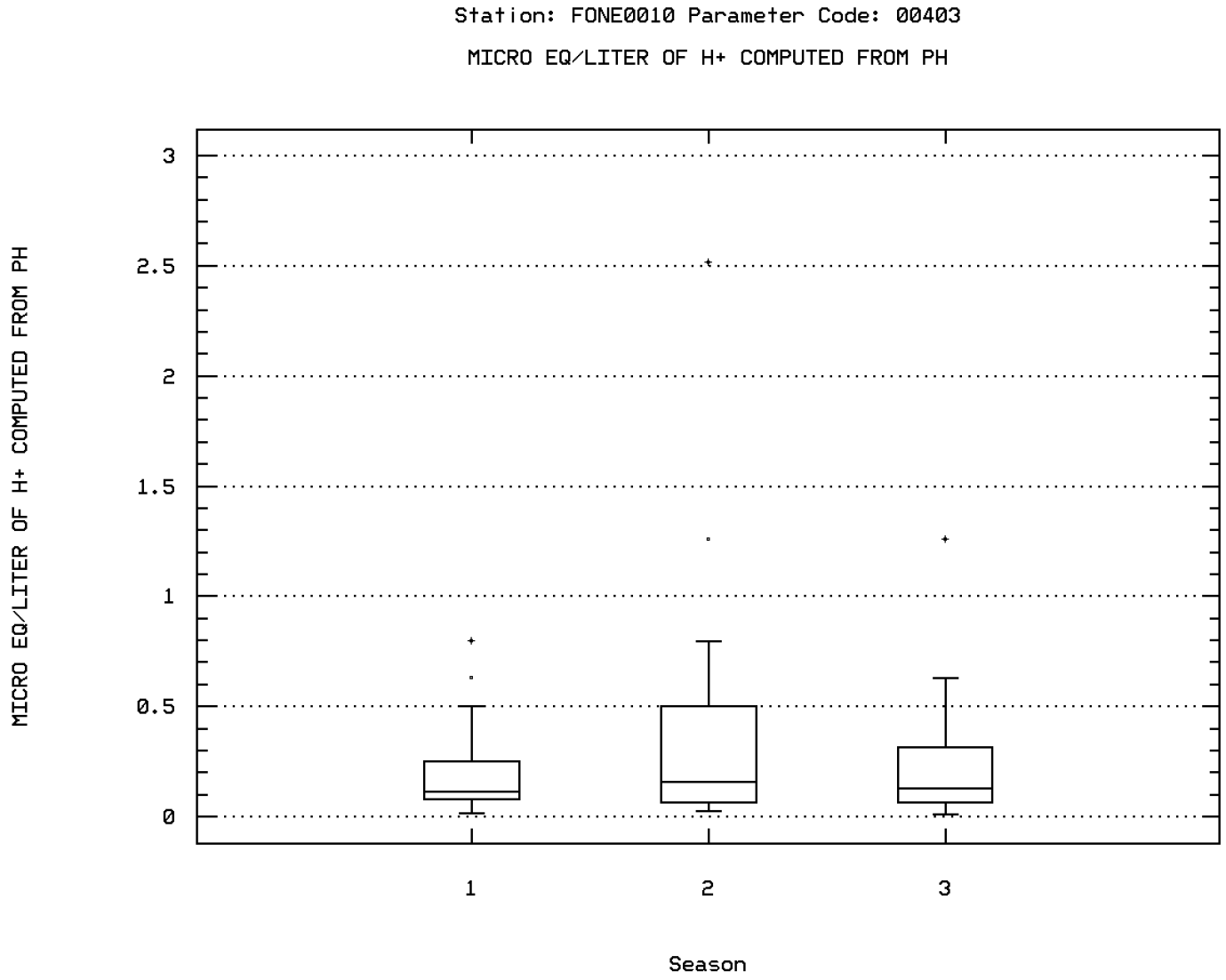
OXYGEN, DISSOLVED



BIG SANDY CRK-OFF RTE 381-WHARTON TWP



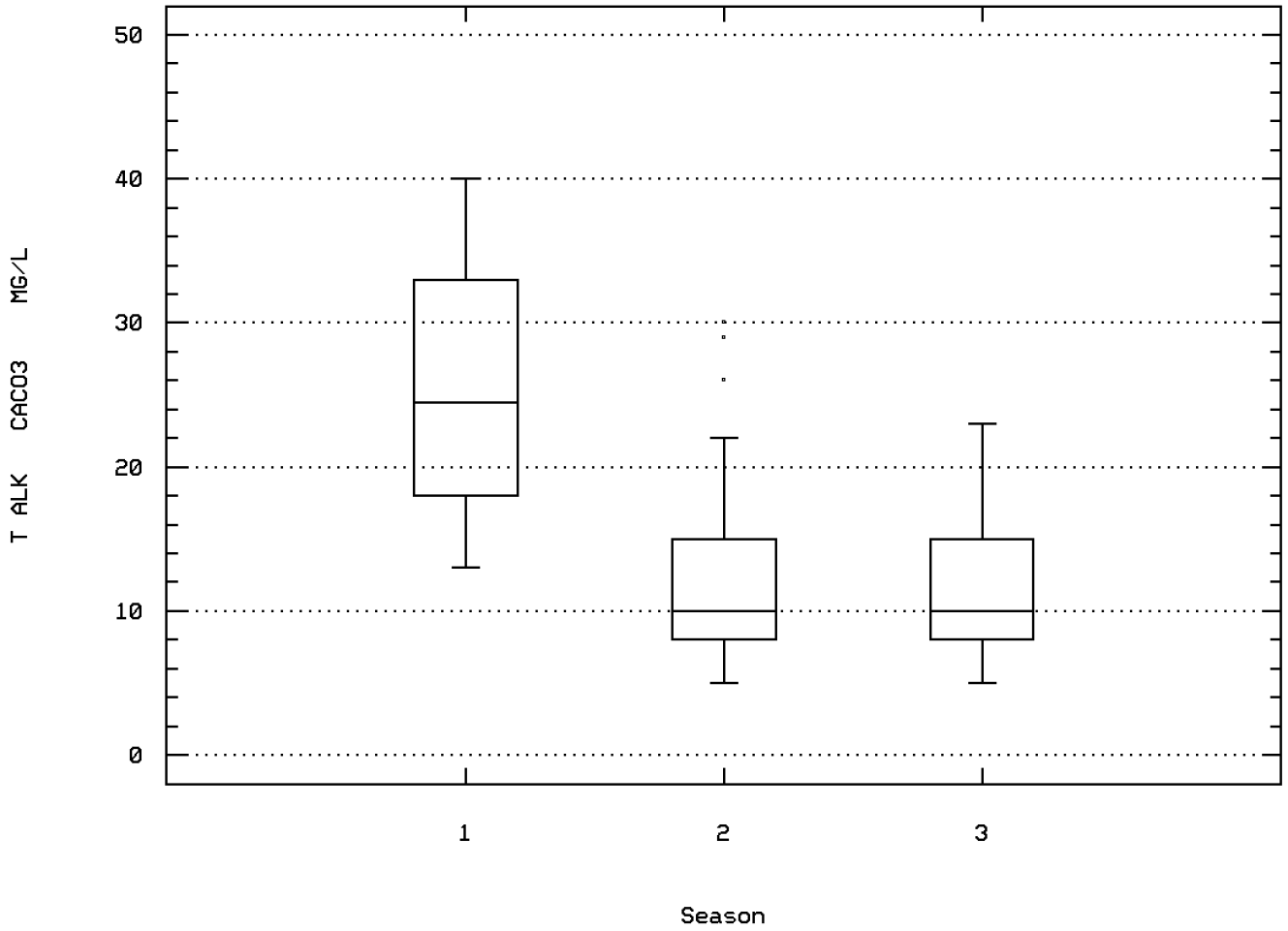
BIG SANDY CRK-OFF RTE 381-WHARTON TWP



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

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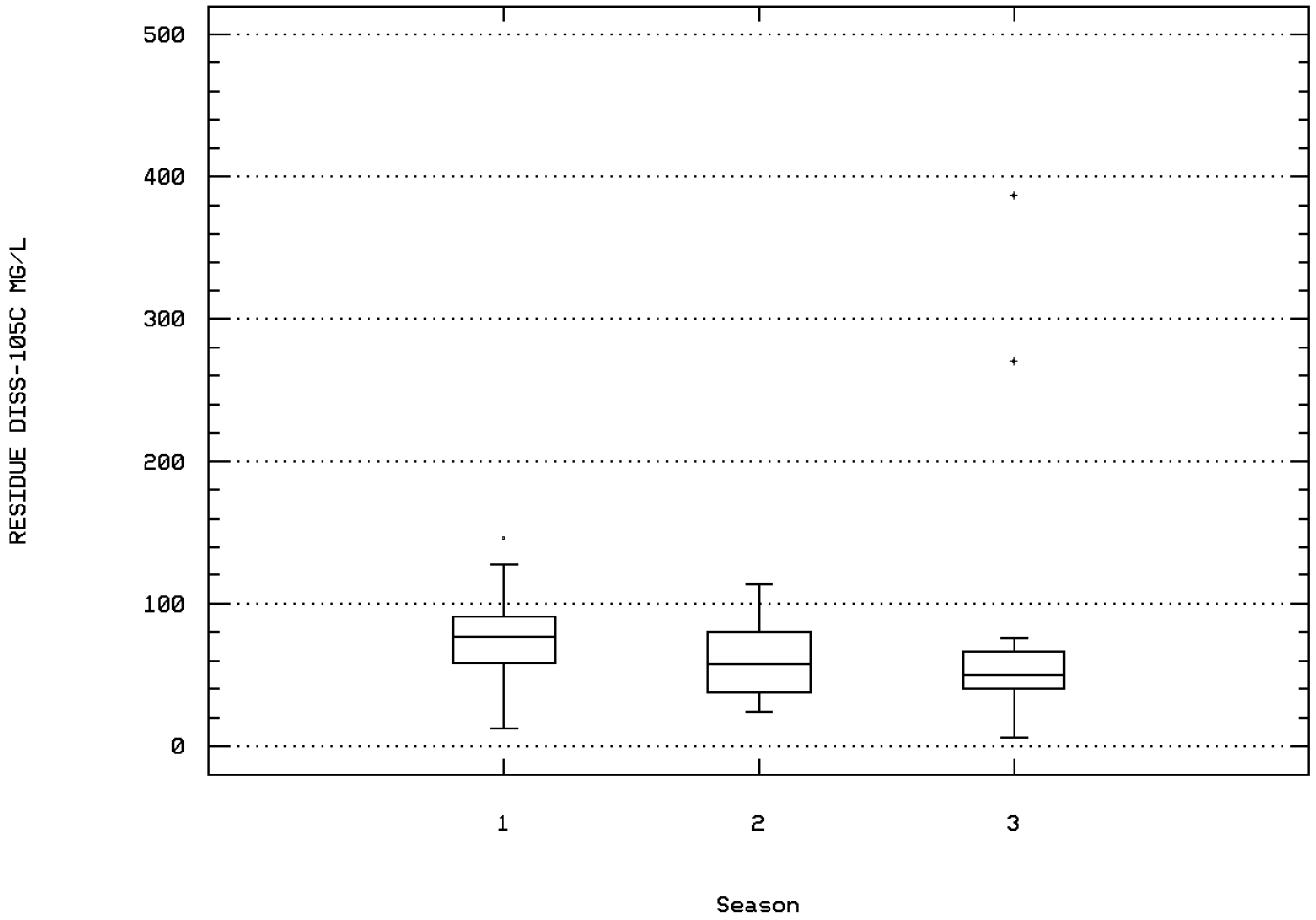
ALKALINITY, TOTAL (MG/L AS CACO3)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00515

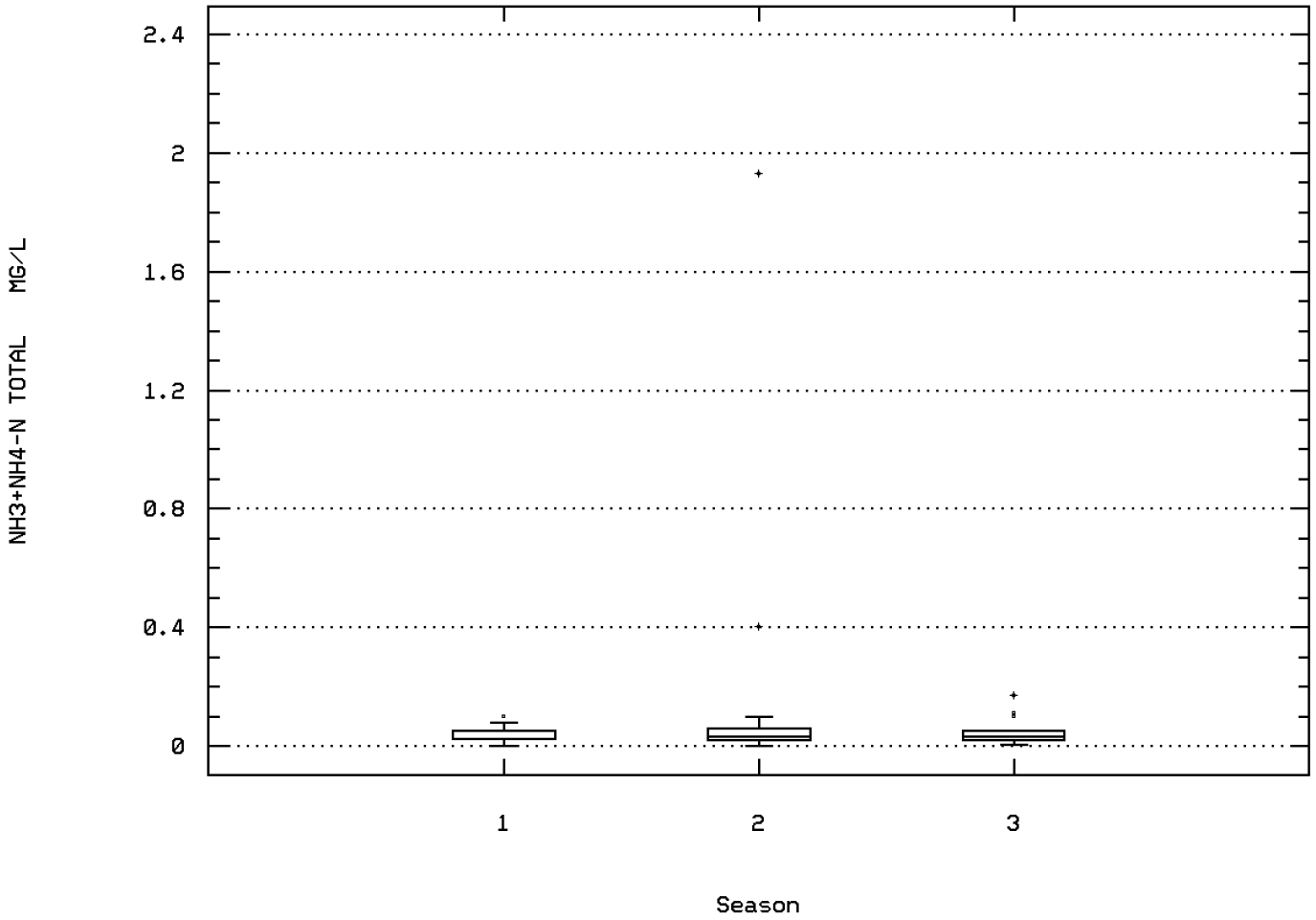
RESIDUE, TOTAL FILTRABLE (DRIED AT 105



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00610

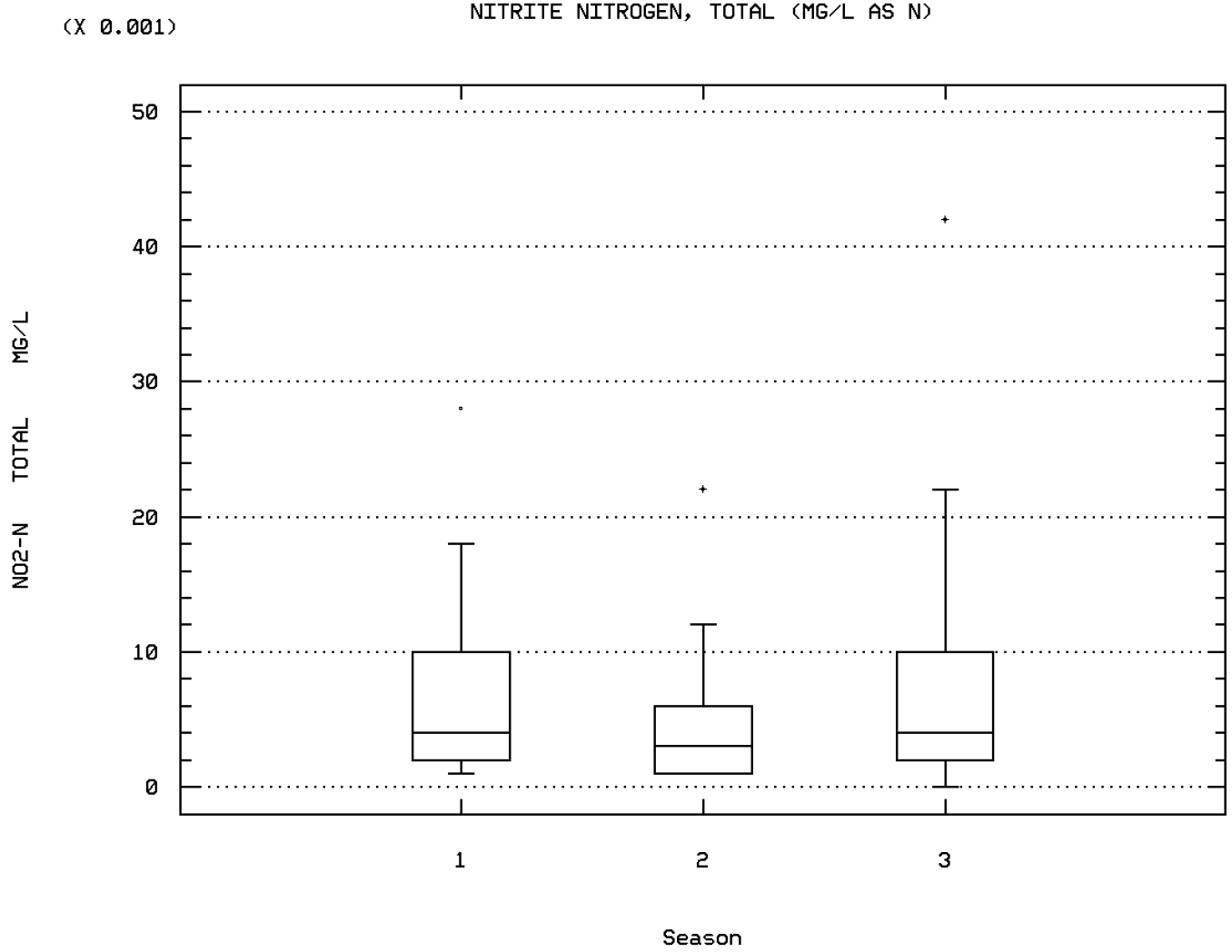
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00615

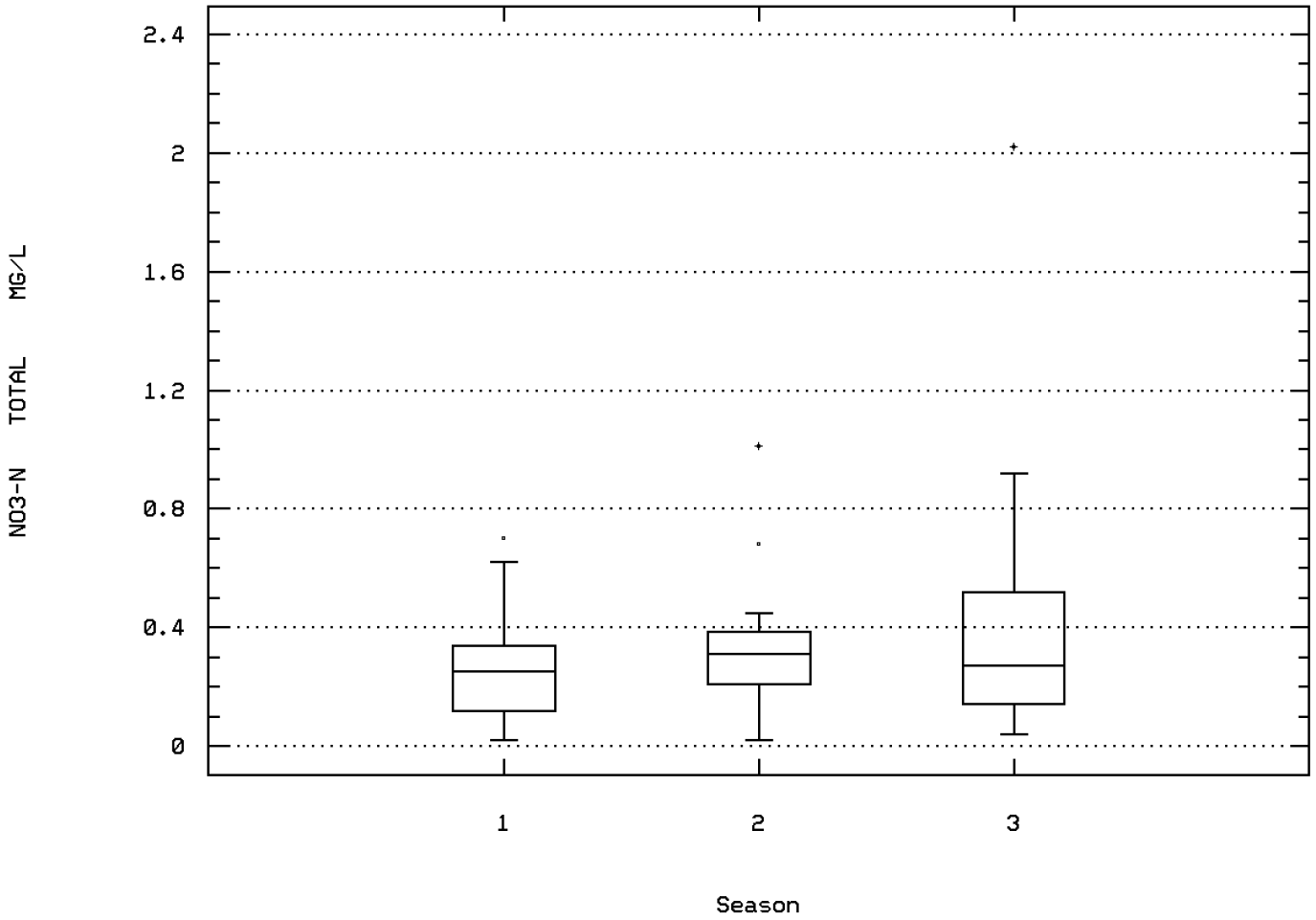
NITRITE NITROGEN, TOTAL (MG/L AS N)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00620

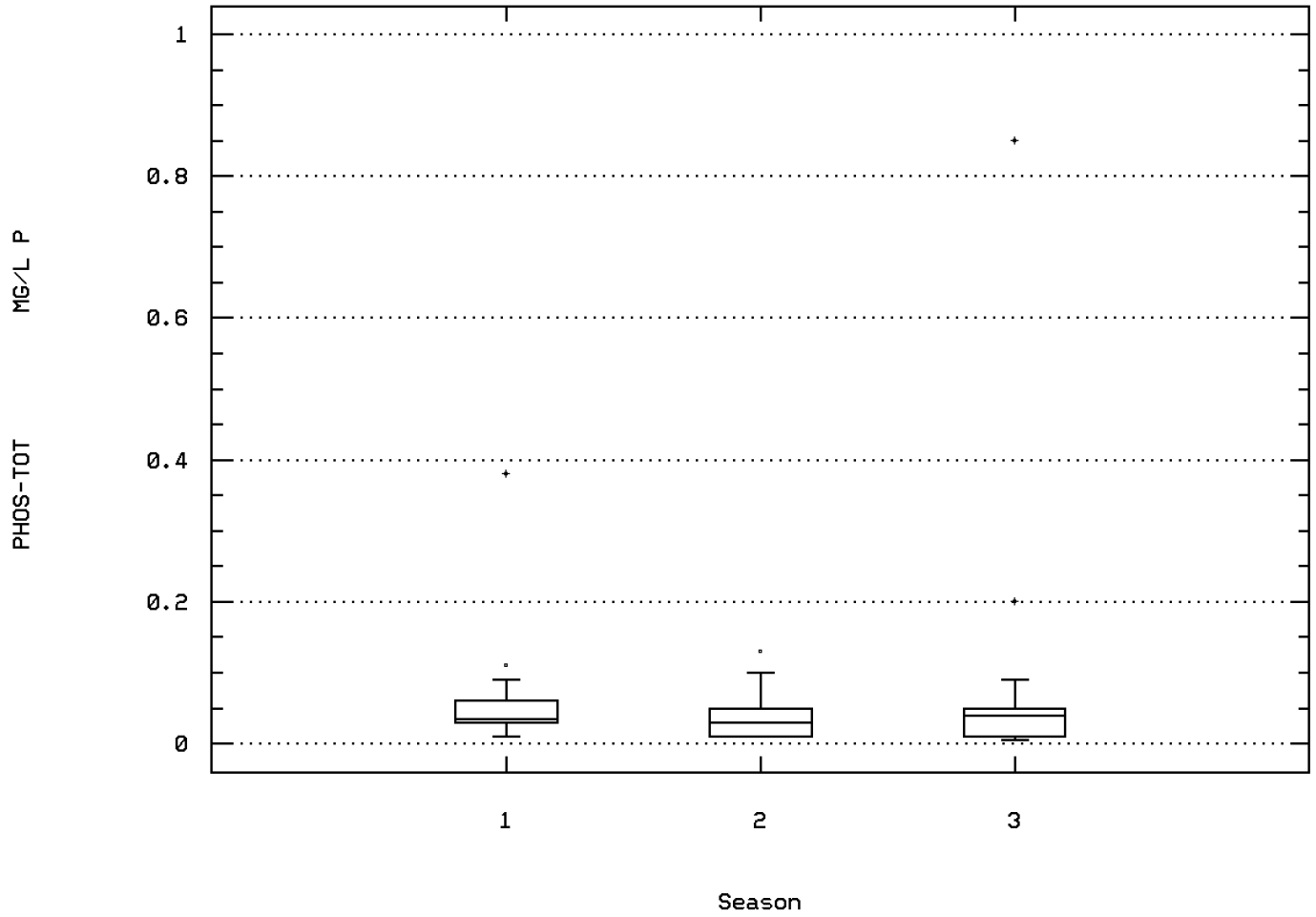
NITRATE NITROGEN, TOTAL (MG/L AS N)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00665

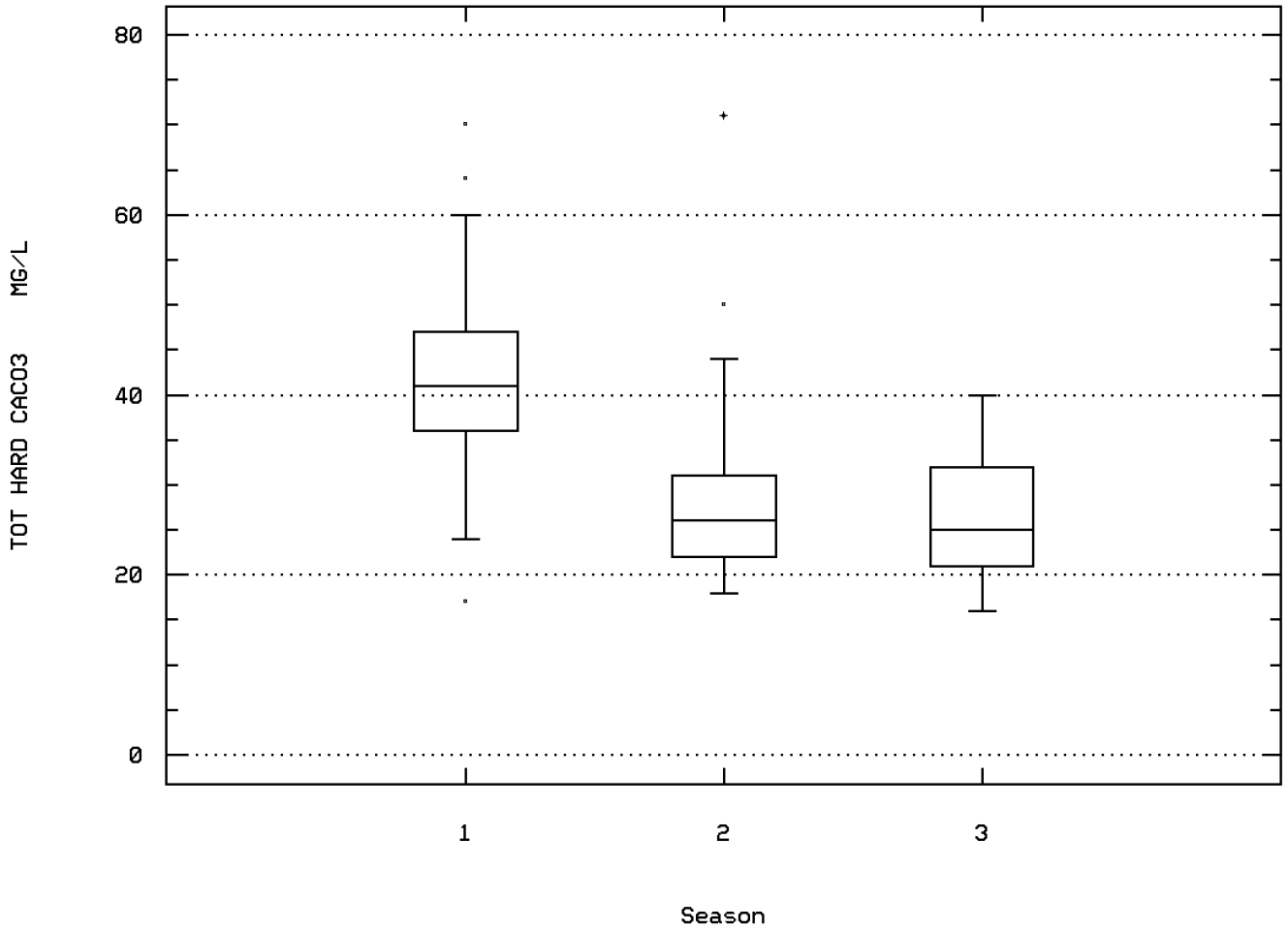
PHOSPHORUS, TOTAL (MG/L AS P)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00900

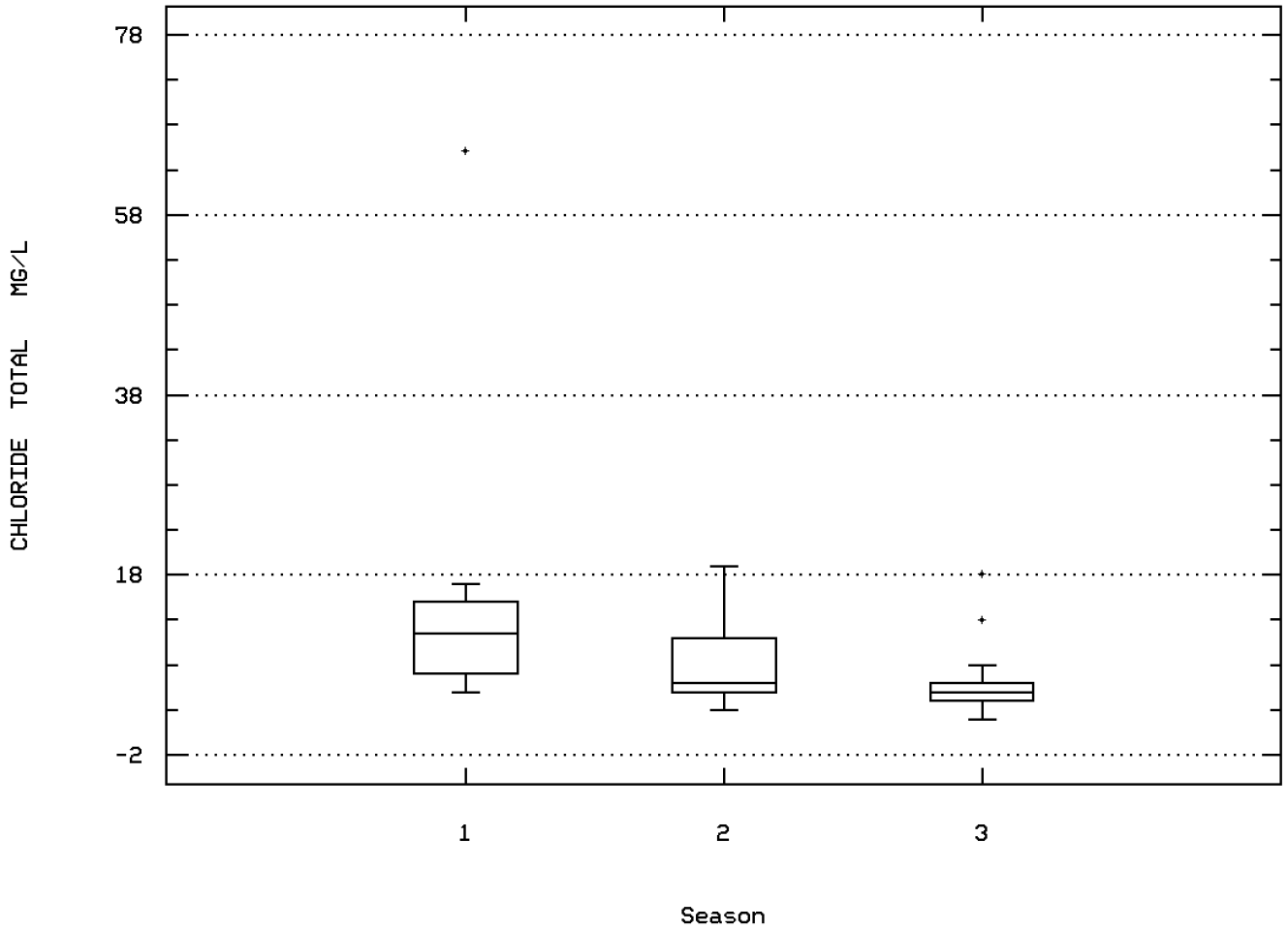
HARDNESS, TOTAL (MG/L AS CACO3)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00940

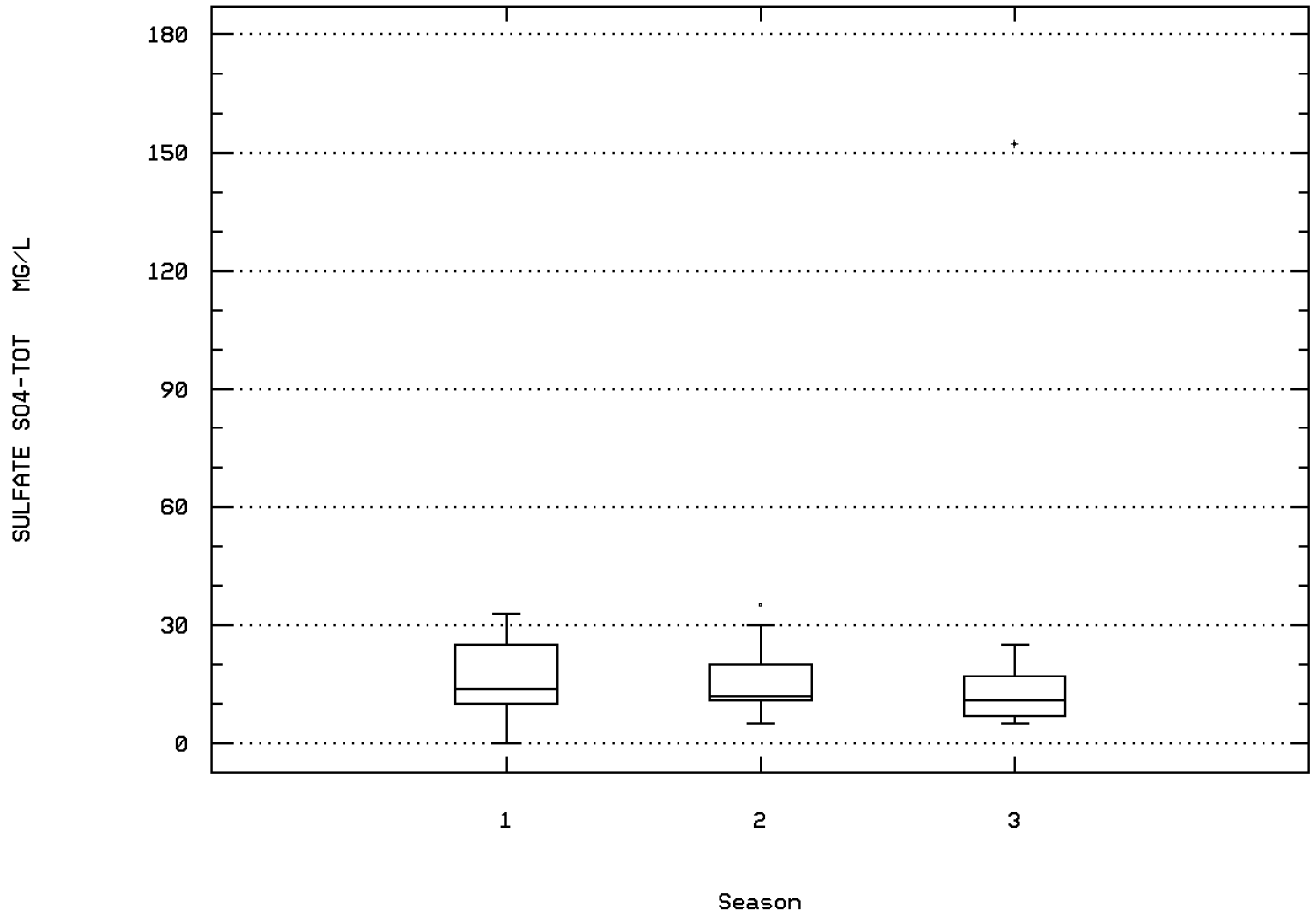
CHLORIDE,TOTAL IN WATER



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 00945

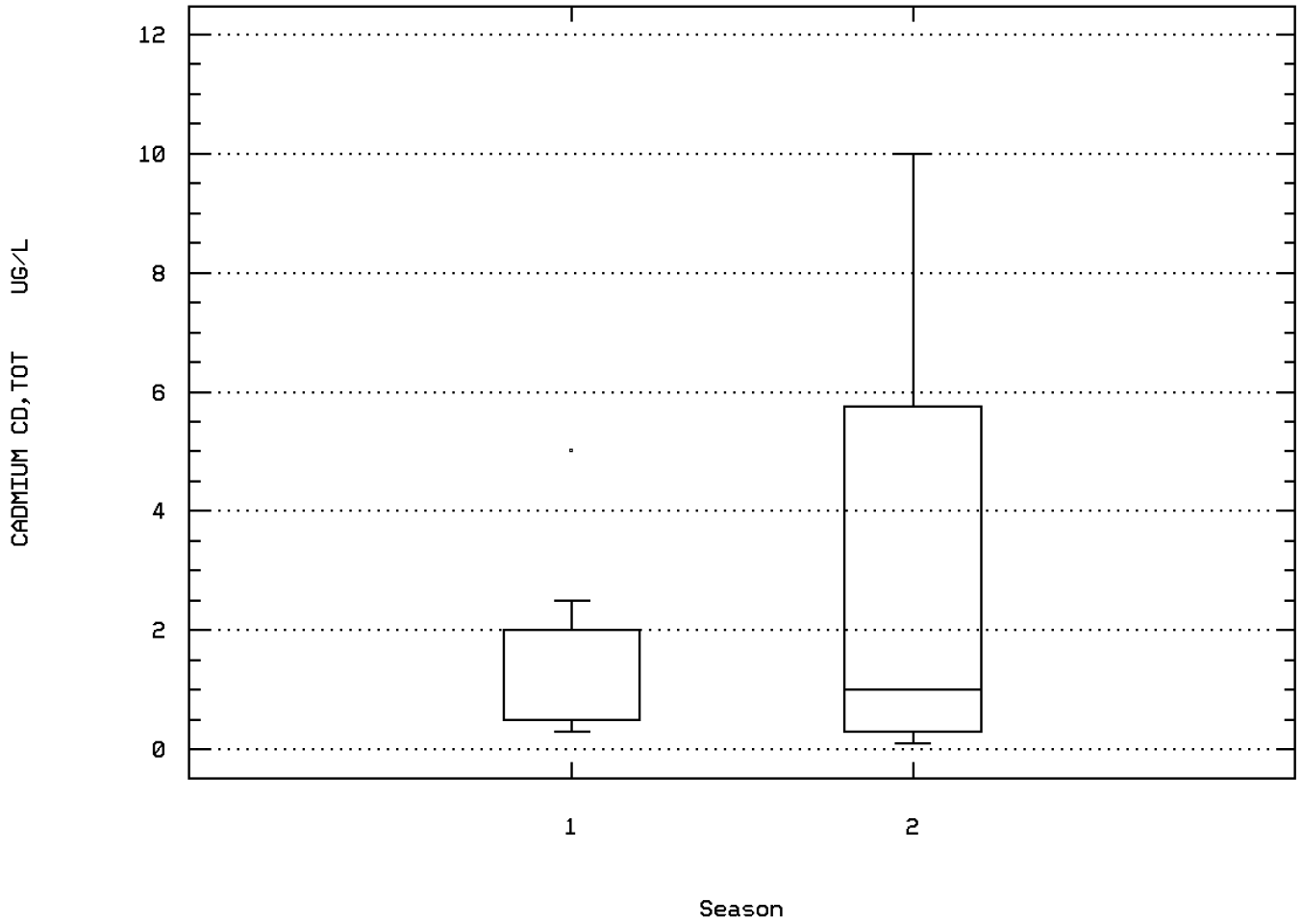
SULFATE, TOTAL (MG/L AS SO4)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01027

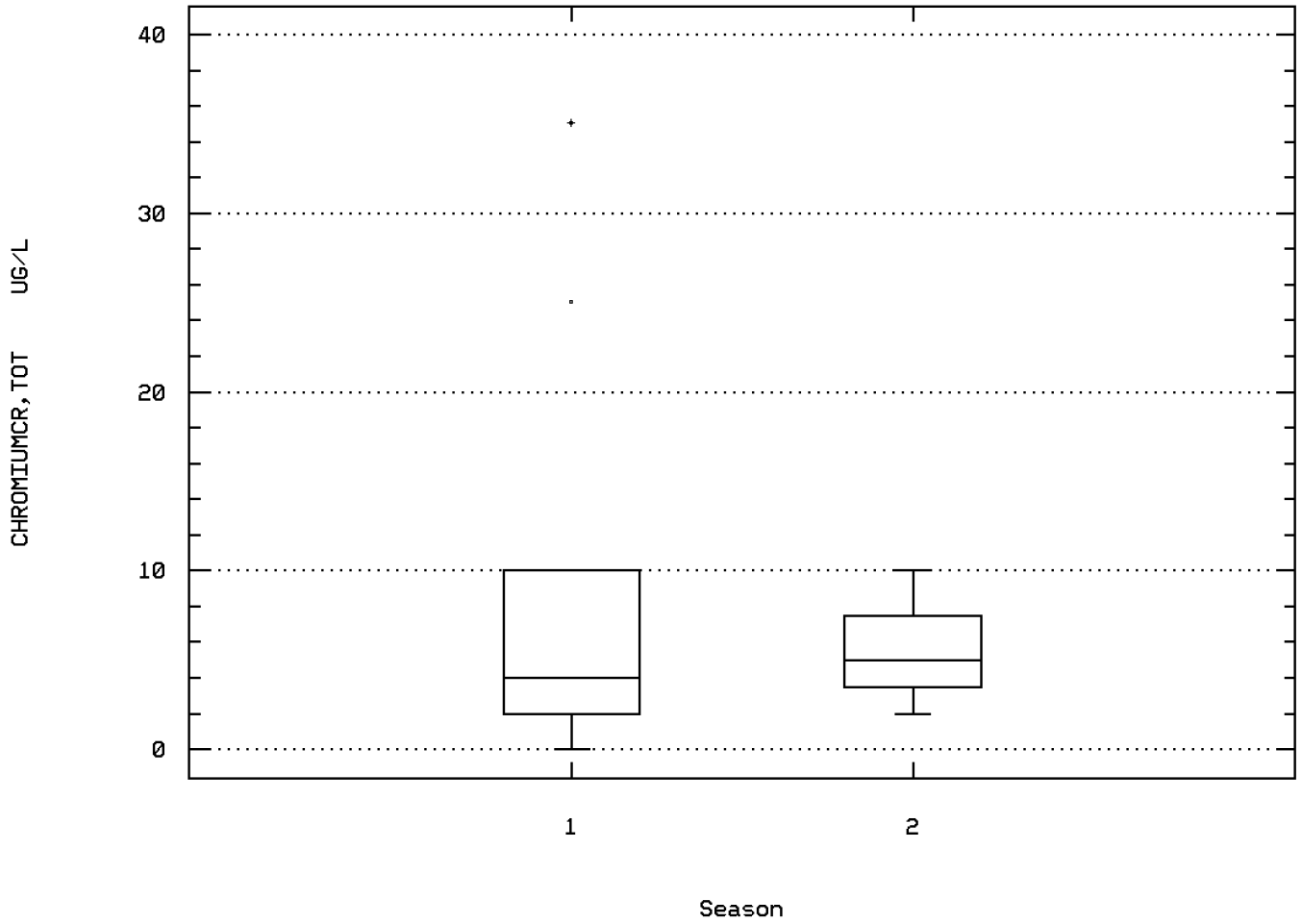
CADMIUM, TOTAL (UG/L AS CD)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01034

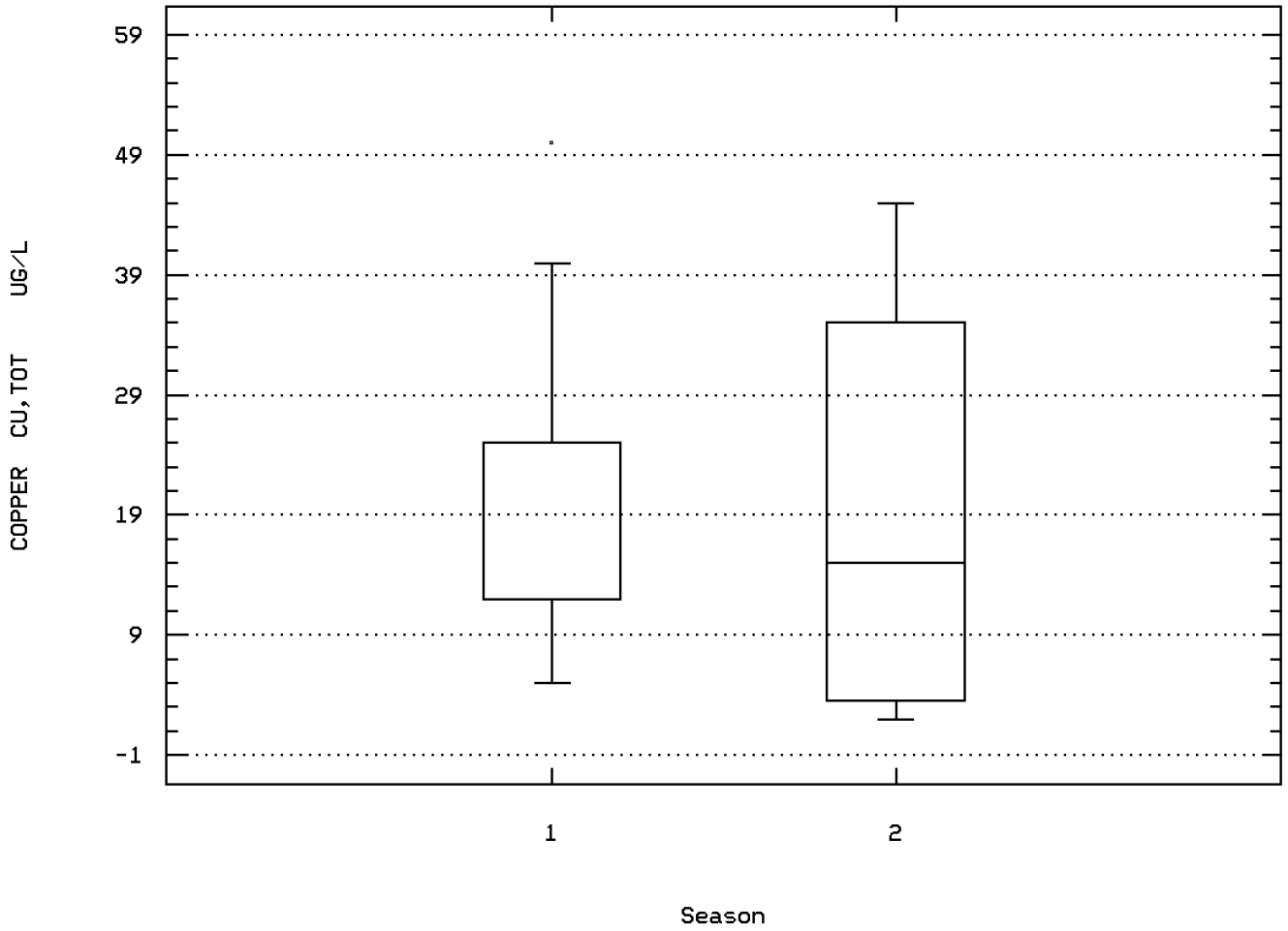
CHROMIUM, TOTAL (UG/L AS CR)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01042

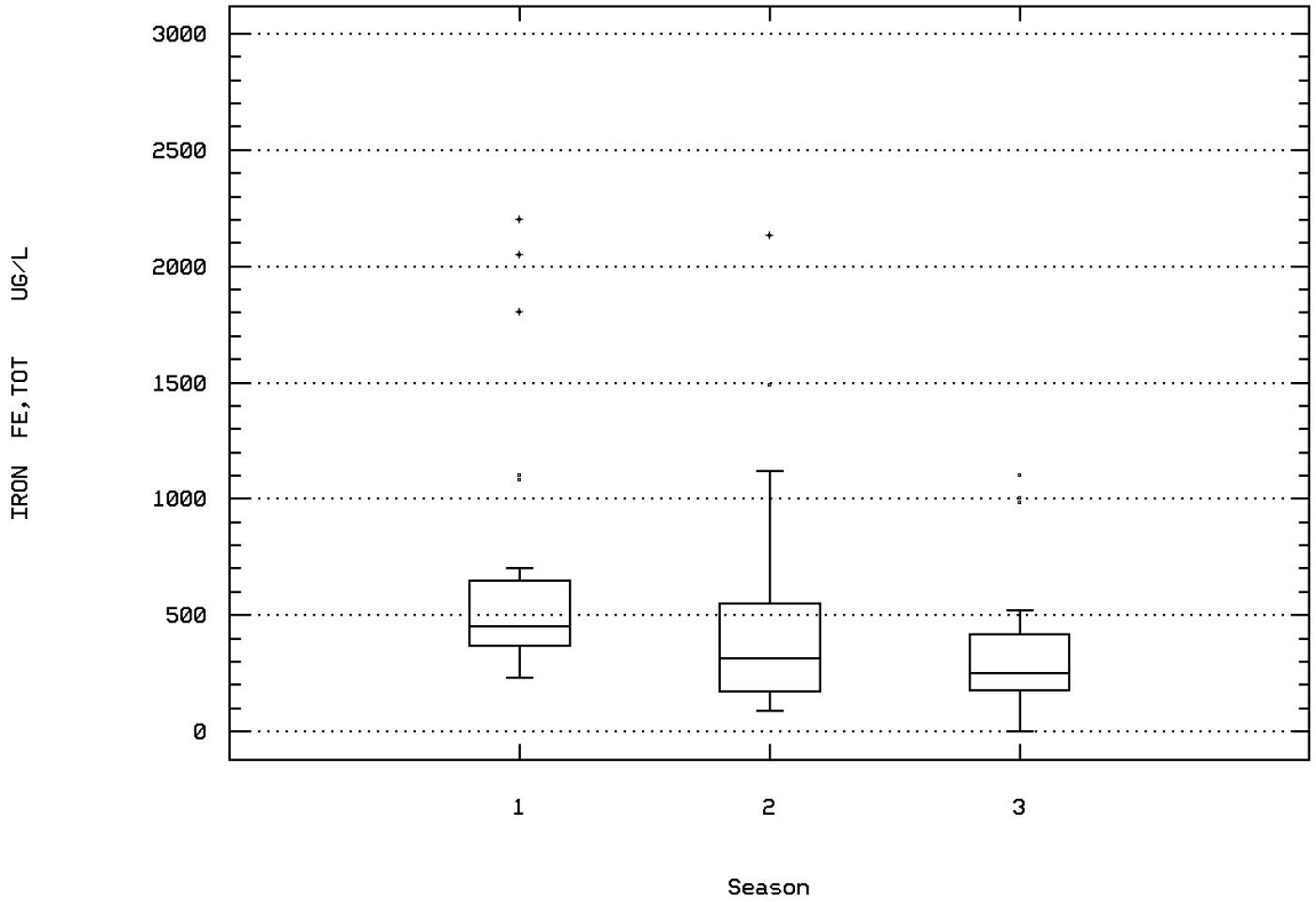
COPPER, TOTAL (UG/L AS CU)



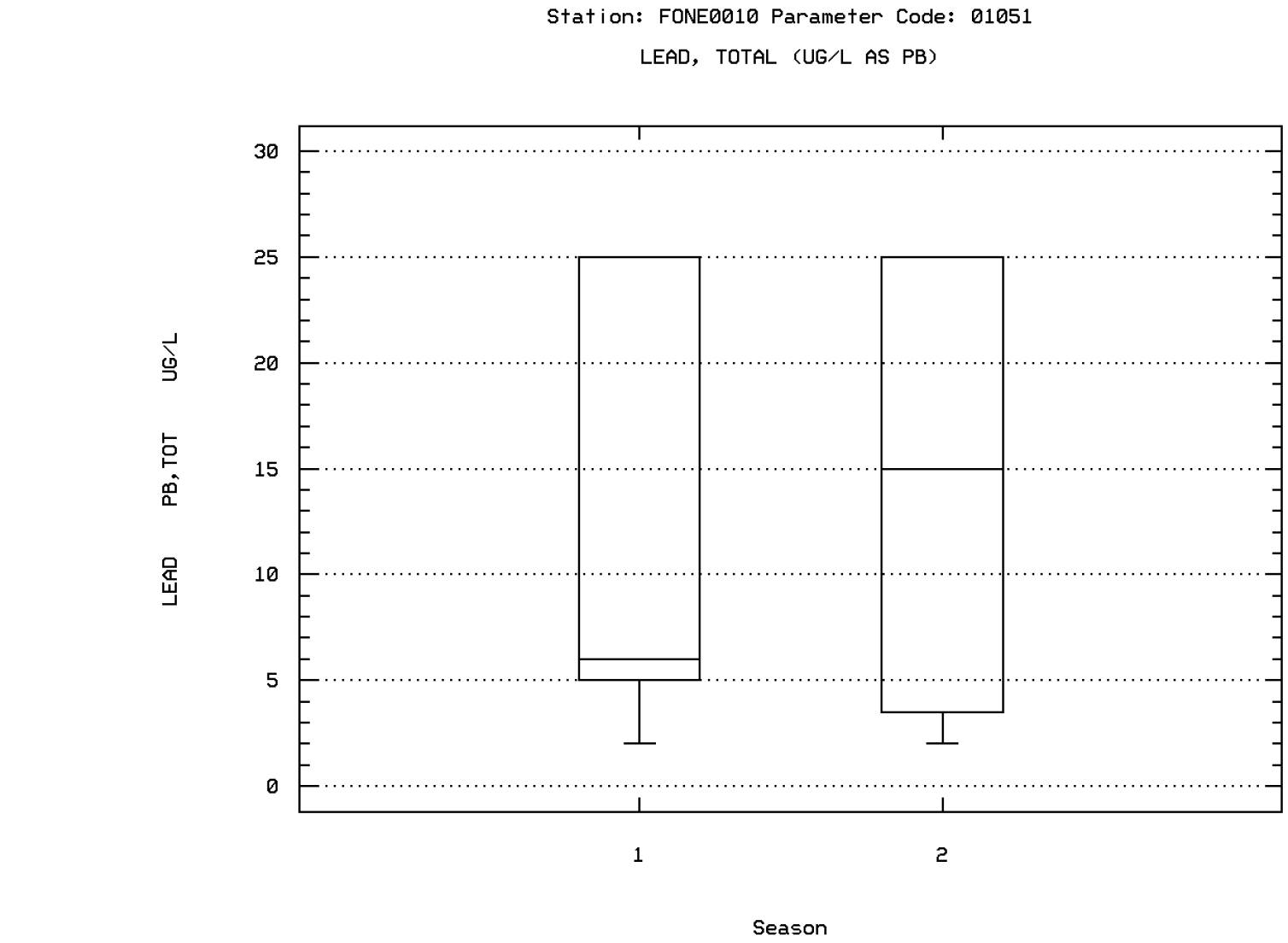
BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01045

IRON, TOTAL (UG/L AS FE)



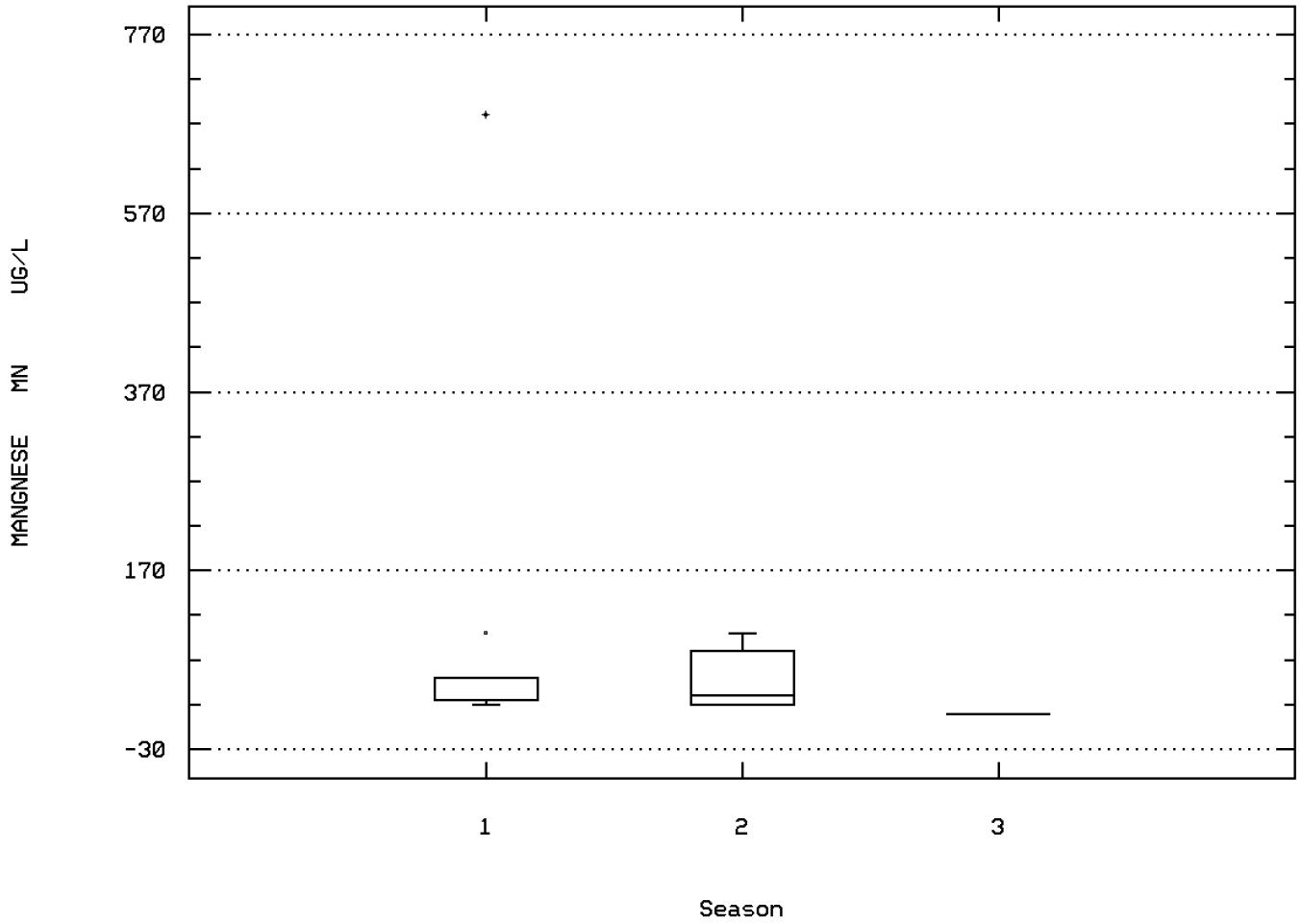
BIG SANDY CRK-OFF RTE 381-WHARTON TWP



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01055

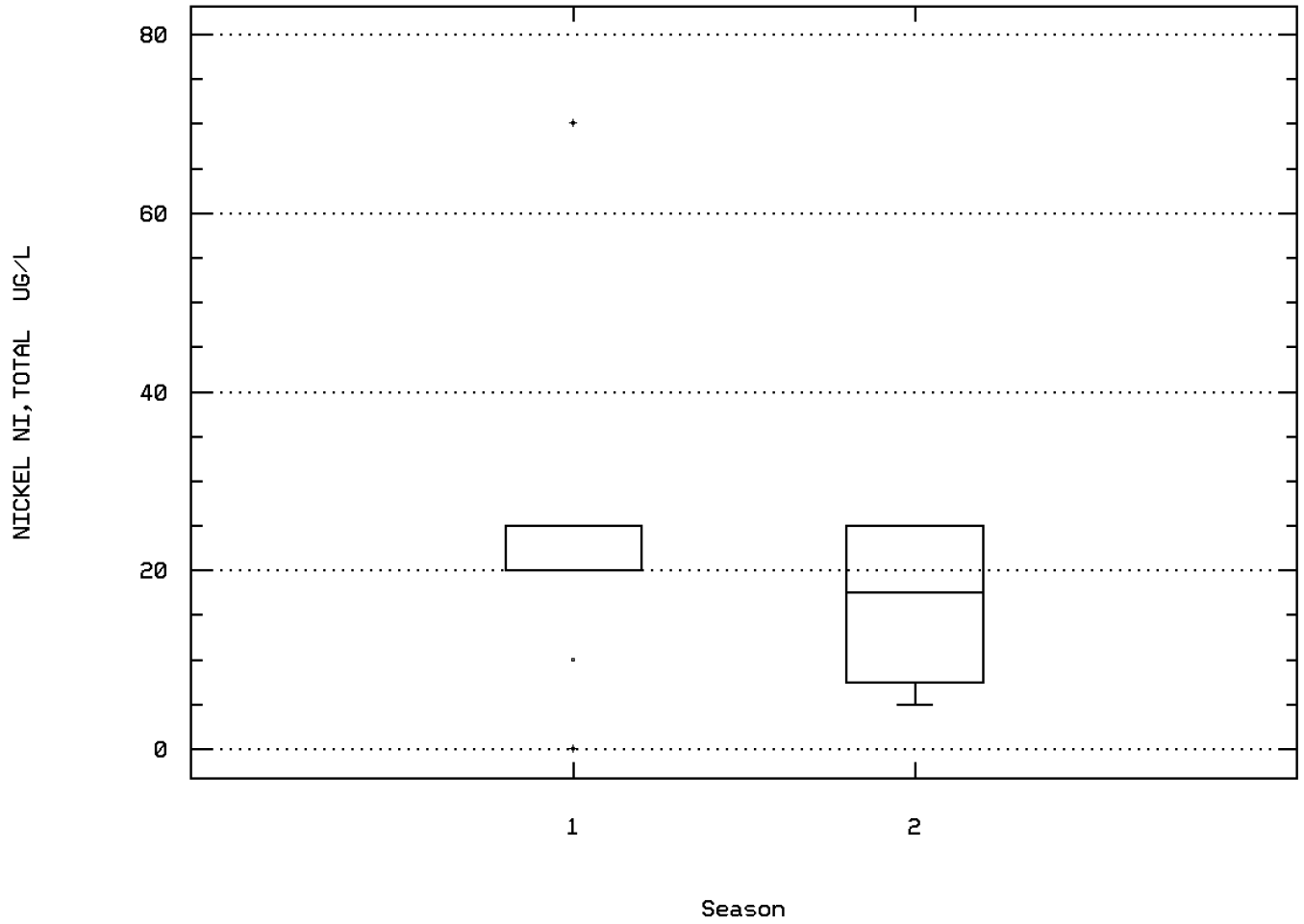
MANGANESE, TOTAL (UG/L AS MN)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01067

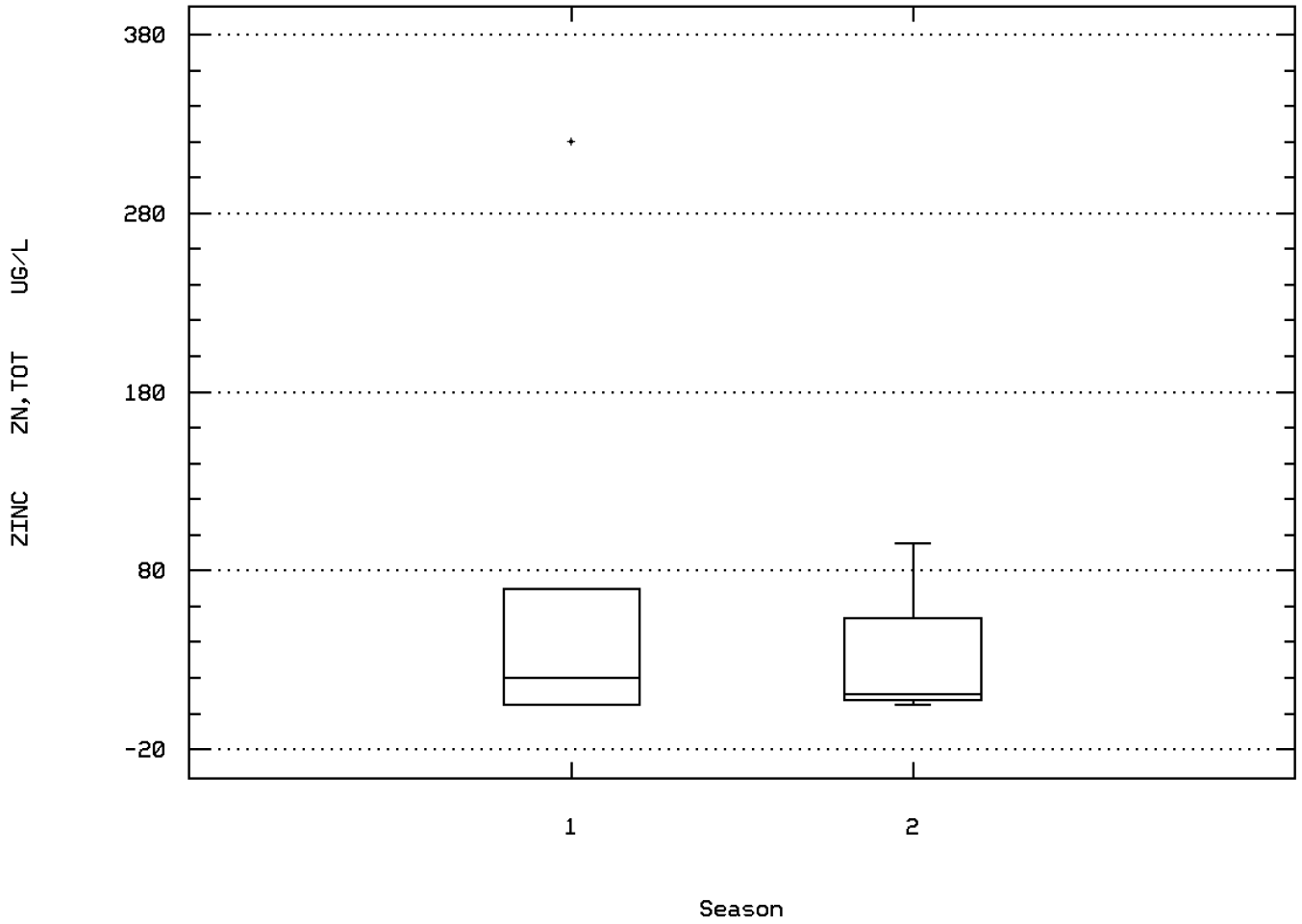
NICKEL, TOTAL (UG/L AS NI)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01092

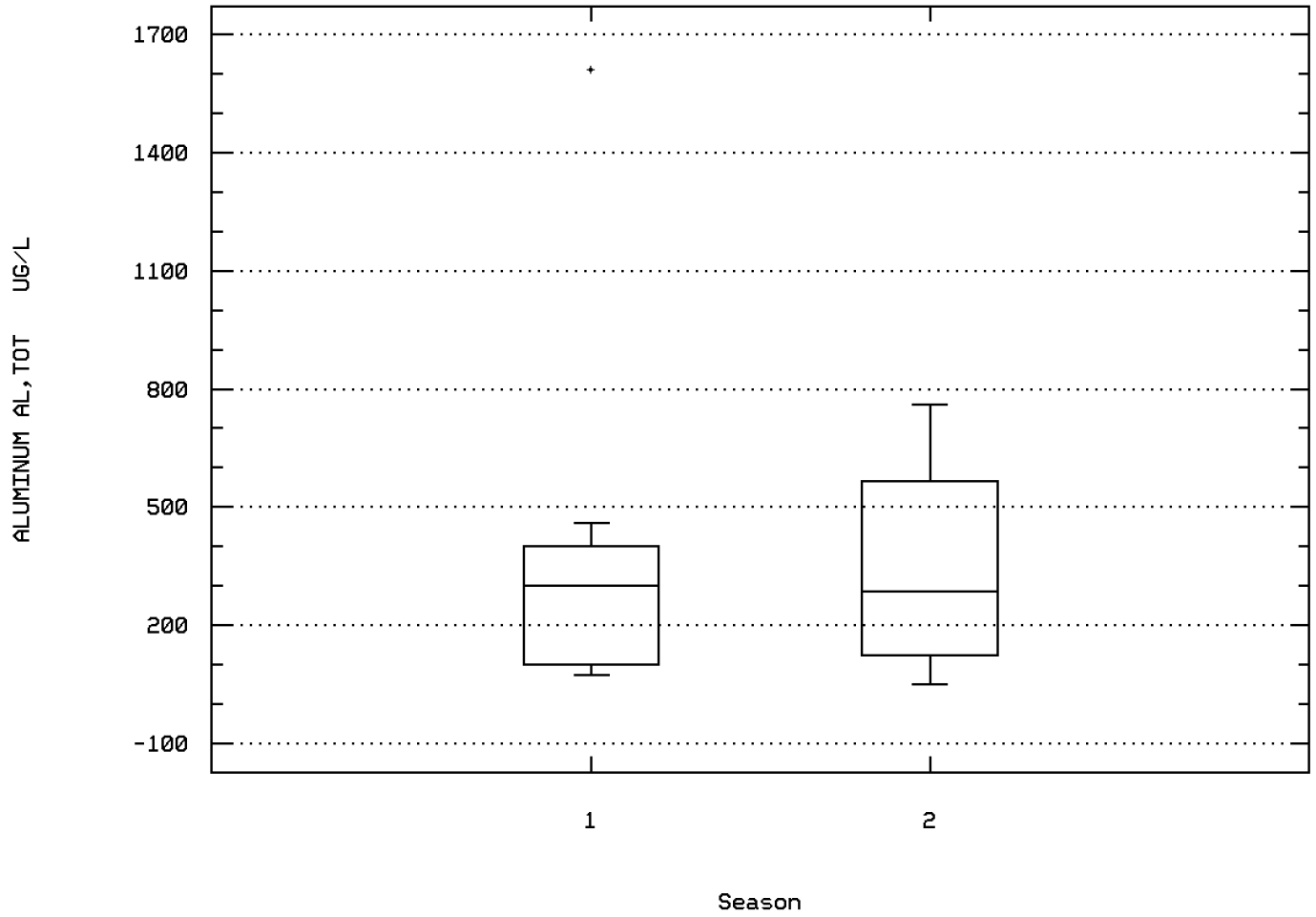
ZINC, TOTAL (UG/L AS ZN)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station: FONE0010 Parameter Code: 01105

ALUMINUM, TOTAL (UG/L AS AL)



BIG SANDY CRK-OFF RTE 381-WHARTON TWP

Station Inventory for Station: FONE0011

NPS Station ID: FONE0011
LAT/LON: 39.772504/ -79.585004
Agency: 21PAMR
Date Created: 07/25/77
Location: ABANDONED STRIP PIT IVAN HAGAR
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM0100D0
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 23.30
On/Off RF1:
RF3 Index: 05020004010700.00
RF3 Mile Point: 6.14
Distance from RF3: 0.06
On/Off RF3:
Description:
ABANDONED STRIP MINE PIT SEASONALLY DISCHARGING INTO STONY FORK DOWN STREAM FROM STATION 67. LOCATED ON EASTERN BOUNDARY OF IVAN HAGAR PROPERTY AND PROPOSED JEBCO (3374SM21) PERMIT.

Parameter Inventory for Station: FONE0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/28/77	5	15.5	15.9	23.	12.	19.425	4.407	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/07/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-06/28/77	5	85.	82.6	102.	51.	385.3	19.629	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-06/28/77	5	6.4	6.56	7.	6.3	0.083	0.288	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-06/28/77	5	6.4	6.496	7.	6.3	0.088	0.297	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/77	5	0.398	0.319	0.501	0.1	0.027	0.164	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-06/28/77	5	6.4	6.38	6.8	6.1	0.072	0.268	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-06/28/77	5	6.4	6.322	6.8	6.1	0.076	0.276	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/28/77	5	0.398	0.476	0.794	0.158	0.06	0.244	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-06/28/77	5	8.	6.2	10.	1.	15.7	3.962	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/05/77-06/28/77	3	6.	7.333	10.	6.	5.333	2.309	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/05/77-06/28/77	3	4.	3.333	4.	2.	1.333	1.155	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-06/28/77	5	2.	5.3	22.	0.	88.45	9.405	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/28/77	5	8.	8.	10.	5.	4.5	2.121	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/28/77	5	280.	354.	690.	80.	77180.	277.813	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-06/28/77	4	290.	302.5	580.	50.	53691.667	231.715	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	5	0	0.00							5	0	0.00			
		Other-Lo Lim.	6.5	5	3	0.60							5	3	0.60			
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00							5	0	0.00			
		Other-Lo Lim.	6.5	5	4	0.80							5	4	0.80			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00							5	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0012

NPS Station ID: FONE0012
LAT/LON: 39.773337/ -79.581116
Agency: 112WRD
Date Created: 06/29/78
Location: STONY FORK TRIB (BELOW GRANBAY SITE), PA (68)
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070425
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 14.10
On/Off RF1:
RF3 Index: 05020004024800.28
RF3 Mile Point: 1.74
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/15/78	47	16.	14.128	21.5	0.	29.527	5.434	5.9	12.	18.	19.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/15/78	19	0.8	1.511	6.	0.2	2.191	1.48	0.3	0.6	2.	4.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/15/78	45	93.	95.8	139.	66.	398.482	19.962	69.2	80.	110.	128.
00400	PH (STANDARD UNITS)	03/16/77-09/15/78	46	6.8	6.76	7.5	5.5	0.198	0.445	6.08	6.5	7.013	7.3
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/15/78	46	6.8	6.473	7.5	5.5	0.282	0.531	6.08	6.5	7.013	7.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/15/78	46	0.158	0.337	3.162	0.032	0.323	0.568	0.05	0.097	0.316	0.917
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/15/78	46	16.	18.391	48.	5.	89.177	9.443	8.7	11.	23.25	32.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/15/78	25	3.	3.	6.	1.	1.333	1.155	2.	2.	4.	4.4
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/15/78	37	0.	0.041	1.	0.	0.033	0.182	0.	0.	0.	0.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/06/78	46	8.	9.957	57.	3.	67.954	8.243	5.	6.	10.	18.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-10/04/77	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-10/04/77	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-07/11/78	3 ##	10.	7.333	10.	2.	21.333	4.619	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-07/11/78	3 ##	10.	7.333	10.	2.	21.333	4.619	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-07/11/78	3 ##	1.	1.333	2.	1.	0.333	0.577	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-07/11/78	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-07/11/78	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/15/78	47	610.	1029.255	10950.	220.	2962263.02	1721.123	316.	480.	980.	1316.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/15/78	46	185.	223.587	490.	85.	12614.07	112.312	110.	140.	282.5	440.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-07/11/78	3	45.	45.	50.	40.	25.	5.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-07/11/78	3	30.	33.333	40.	30.	33.333	5.774	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-07/11/78	3	20.	20.	20.	20.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-07/11/78	3	20.	16.667	20.	10.	33.333	5.774	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-10/04/77	2	35.5	35.5	51.	20.	480.5	21.92	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-10/04/77	2	21.	21.	22.	20.	2.	1.414	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-10/04/77	2	523.	523.	890.	156.	269378.	519.016	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-10/04/77	2	99.	99.	180.	18.	13122.	114.551	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-07/11/78	3 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-07/11/78	3 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-10/03/78	34	13.	29.088	323.	2.	3984.931	63.126	3.	6.75	21.25	50.5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/07/77-09/15/78	18	0.02	0.241	3.6	0.	0.707	0.841	0.	0.01	0.06	0.594

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	46	0	0.00	19	0	0.00	7	0	0.00	20	0	0.00			
		Other-Lo Lim.	6.5	46	12	0.26	19	6	0.32	7	4	0.57	20	2	0.10			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	46	0	0.00	18	0	0.00	8	0	0.00	20	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	1300.	3	0	0.00	2	0	0.00				1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	1300.	3	0	0.00	2	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	0	0.00	1	0	0.00				1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	50.	3	0	0.00	2	0	0.00				1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	50.	3	0	0.00	2	0	0.00				1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	2.	3	0	0.00	2	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	2.	3	0	0.00	2	0	0.00				1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0013

NPS Station ID: FONE0013
LAT/LON: 39.773337/ -79.581670
Agency: 21PAMR
Date Created: 07/25/77
Location: STONY FORK TRIB BELOW STATION 67
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010680
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 13.90
On/Off RF1:
RF3 Index: 05020004024800.28
RF3 Mile Point: 1.74
Distance from RF3: 0.02
On/Off RF3:
Description:
STONY FORK TRIBUTARY BELOW STATION 67. 0.8 MILES DOWNSTREAM FROM UPPER USGS W.Q. MONITORING STATION. 0.1 MILES DOWNSTREAM OF POSSIBLE EASTERN DISCHARGE OF JEBCO MINE SITE (3374SM21).

Parameter Inventory for Station: FONE0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	7	19.5	16.714	20.	10.5	16.071	4.009	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/02/77	4	0.13	0.178	0.4	0.05	0.027	0.163	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	7	107.	96.	136.	66.	804.333	28.361	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/02/77	7	7.1	6.993	7.35	6.4	0.11	0.332	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/02/77	7	7.1	6.868	7.35	6.4	0.128	0.358	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.079	0.135	0.398	0.045	0.016	0.127	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	7	6.6	6.729	6.9	6.6	0.026	0.16	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-09/02/77	7	6.6	6.704	6.9	6.6	0.026	0.162	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.251	0.197	0.251	0.126	0.004	0.067	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	7	17.	19.143	34.	5.	132.81	11.524	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	5	20.	23.8	40.	9.	149.2	12.215	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	5	2.	2.4	4.	1.	1.3	1.14	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	7	6.	6.714	10.	4.	3.571	1.89	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	7	520.	679.286	1245.	380.	122020.238	349.314	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	6	235.	245.833	470.	85.	15944.167	126.27	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	156.	156.	156.	156.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/02/77	5	17.	25.	74.	2.	807.	28.408	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	1	0.14	2	0	0.00				5	1	0.20			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	2	0	0.00				5	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	2	0	0.00				5	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0014

NPS Station ID: FONE0014
LAT/LON: 39.774170/ -79.596115
Agency: 112WRD
Date Created: 06/29/78
Location: STONY FORK AT BAUER ESTATE, PA (47)
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070445
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 23.30
On/Off RF1:
RF3 Index: 05020004010700.00
RF3 Mile Point: 6.14
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-04/03/79	56	14.5	12.866	22.5	0.	40.968	6.401	2.75	7.625	18.375	19.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/77-04/03/79	27	6.	10.907	37.	0.7	112.688	10.615	1.76	4.	19.	29.4
00065	STAGE, STREAM (FEET)	11/30/77-11/30/77	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-04/03/79	54	95.	107.093	300.	60.	2357.595	48.555	67.5	76.5	117.25	155.
00400	PH (STANDARD UNITS)	03/16/77-04/03/79	55	6.7	6.662	7.6	5.7	0.147	0.384	6.1	6.5	6.9	7.1
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-04/03/79	55	6.7	6.474	7.6	5.7	0.183	0.428	6.1	6.5	6.9	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-04/03/79	55	0.2	0.336	1.995	0.025	0.162	0.402	0.079	0.126	0.316	0.794
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-04/03/79	54	8.	9.611	26.	2.	24.808	4.981	4.5	6.	12.25	17.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/03/79	33	3.	2.788	5.	1.	1.047	1.023	2.	2.	4.	4.
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/15/78	39	0.	0.128	2.	0.	0.22	0.469	0.	0.	0.	0.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-04/03/79	51	18.	23.745	116.	4.	395.394	19.885	9.	11.	30.	42.8
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-11/09/78	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-11/09/78	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-11/09/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-11/09/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-11/09/78	5 ##	10.	8.2	10.	1.	16.2	4.025	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-11/09/78	5 ##	10.	12.	20.	10.	20.	4.472	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-07/11/78	3	3.	2.667	3.	2.	0.333	0.577	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-07/11/78	3	3.	2.667	3.	2.	0.333	0.577	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-11/09/78	5 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-11/09/78	5 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-04/03/79	55	630.	883.273	6770.	160.	891111.313	943.987	328.	440.	940.	1672.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-04/03/79	55	170.	221.636	930.	80.	27032.458	164.416	100.	120.	270.	390.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-11/09/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-11/09/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-04/03/79	10	220.	221.5	410.	100.	9833.611	99.165	101.	121.25	297.5	401.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-04/03/79	10	210.	213.5	410.	90.	10644.722	103.173	91.	111.25	297.5	401.
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-11/09/78	5	10.	13.	20.	5.	45.	6.708	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-11/09/78	5	10.	13.	20.	5.	45.	6.708	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.667	3.	1.	1.333	1.155	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-04/03/79	9	20.	22.778	60.	10.	244.444	15.635	10.	10.	27.5	60.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-04/03/79	9	30.	30.	60.	20.	175.	13.229	20.	20.	35.	60.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-04/03/79	9	200.	237.	620.	70.	25928.5	161.023	70.	141.5	280.	620.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-04/03/79	9	80.	96.667	210.	20.	3525.	59.372	20.	50.	140.	210.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-11/09/78	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-11/09/78	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-11/09/78	4 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-11/09/78	4 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-04/03/79	47	10.	19.766	224.	2.	1337.966	36.578	3.	6.	20.	32.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/08/77-04/03/79	27	0.21	0.955	15.	0.	8.233	2.869	0.008	0.07	0.6	2.04

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0014

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	55	0	0.00	23	0	0.00	11	0	0.00	21	0	0.00			
		Other-Lo Lim.	6.5	55	18	0.33	23	10	0.43	11	2	0.18	21	6	0.29			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	51	0	0.00	19	0	0.00	12	0	0.00	20	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	9	0	0.00	2	0	0.00	5	0	0.00	2	0	0.00			
		Drinking Water	5000.	9	0	0.00	2	0	0.00	5	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	9	0	0.00	2	0	0.00	5	0	0.00	2	0	0.00			
		Drinking Water	5000.	9	0	0.00	2	0	0.00	5	0	0.00	2	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0015

NPS Station ID: FONE0015
LAT/LON: 39.775004/ -79.596115
Agency: 21PAMR
Date Created: 07/25/77
Location: STONY FORK AT BAUER ESTATE
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010470
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 25.80
On/Off RF1:
RF3 Index: 05020004024702.90
RF3 Mile Point: 3.44
Distance from RF3: 0.03
On/Off RF3:
Description:
STONY FORK AT BAUER ESTATE. UPSTREAM OF WOODEN BRIDGE BETWEEN SWIMMING POOL AND DORMITORY.

Parameter Inventory for Station: FONE0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	7	18.5	15.714	21.5	9.5	27.905	5.282	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/77-08/03/77	3	0.4	0.9	2.	0.3	0.91	0.954	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	7	115.	131.429	270.	60.	6220.286	78.869	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/02/77	7	6.8	6.957	7.6	6.6	0.13	0.36	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/02/77	7	6.8	6.859	7.6	6.6	0.141	0.375	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.158	0.138	0.251	0.025	0.006	0.08	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	7	6.5	6.486	6.8	6.1	0.048	0.219	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-09/02/77	7	6.5	6.436	6.8	6.1	0.051	0.226	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.316	0.367	0.794	0.158	0.043	0.207	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	7	6.	6.286	9.	2.	5.571	2.36	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	5	8.	8.2	9.	7.	0.7	0.837	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	5	2.	2.6	4.	1.	1.8	1.342	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	7	0.	0.286	2.	0.	0.571	0.756	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	6	18.5	27.5	80.	4.	792.7	28.155	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	6	420.	445.	630.	280.	25190.	158.714	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	6	140.	236.667	780.	100.	71226.667	266.883	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	125.	125.	125.	125.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	115.	115.	115.	115.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/02/77	5	5.	8.	18.	3.	36.	6.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0015

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	2	0	0.00				5	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	4	0.57	2	2	1.00				5	2	0.40			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00				4	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0015

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
	Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0016

NPS Station ID: FONE0016 | LAT/LON: 39.775281/ -79.600281 | Agency: 21PAMR | Date Created: 07/25/77
Location: STONY FORK TRIB SOUTH OF DELTA | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): SM010750
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020004 | RF1 Mile Point: 0.000 | Distance from RF1: 25.60 | On/Off RF1:
RF3 Index: 05020004025200.00 | RF3 Mile Point: 0.14 | Distance from RF3: 0.02 | On/Off RF3:
Description:
STONY FORK TRIBUTARY SOUTH OF THE DELTA MINING SITE (3376SM4). AT CULVERT UNDER ROUTE 381.

Parameter Inventory for Station: FONE0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/02/77	5	19.	16.5	21.5	8.	32.125	5.668	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/02/77	4	0.006	0.008	0.02	0.	0.	0.009	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/77-09/02/77	5	90.	84.8	118.	54.	747.2	27.335	**	**	**	**
00400	PH (STANDARD UNITS)	03/30/77-09/02/77	5	7.	7.06	7.8	6.6	0.208	0.456	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/02/77	5	7.	6.917	7.8	6.6	0.233	0.483	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/02/77	5	0.1	0.121	0.251	0.016	0.008	0.089	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/30/77-09/02/77	5	6.8	6.78	7.1	6.6	0.042	0.205	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/30/77-09/02/77	5	6.8	6.745	7.1	6.6	0.044	0.209	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/02/77	5	0.158	0.18	0.251	0.079	0.005	0.073	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/02/77	5	16.	22.8	45.	8.	234.7	15.32	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	4	22.5	24.	40.	11.	180.667	13.441	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	4	4.	3.75	4.	3.	0.25	0.5	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/02/77	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/02/77	5	8.	8.6	10.	7.	1.8	1.342	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/02/77	5	690.	726.6	1150.	433.	69037.8	262.75	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	5	250.	214.	300.	90.	7530.	86.776	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/02/77	3	18.	20.	25.	17.	19.	4.359	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	5	0	0.00	1	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	1	0	0.00				4	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00	1	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	1	0	0.00				4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	1	0	0.00				4	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0017

NPS Station ID: FONE0017
LAT/LON: 39.775281/ -79.600281
Agency: 112WRD
Date Created: 06/29/78
Location: STONY FORK TRIB #5 (S OF DELTA SITE), PA (75)
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070450
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 22.20
On/Off RF1:
RF3 Index: 05020004010700.00
RF3 Mile Point: 4.46
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-11/09/78	31	16.5	15.032	23.	0.5	42.366	6.509	4.2	11.5	20.	22.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-11/09/78	8	0.075	0.195	1.	0.02	0.109	0.33	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-11/09/78	31	80.	82.871	130.	53.	372.316	19.295	56.8	69.	95.	112.2
00400	PH (STANDARD UNITS)	03/30/77-11/09/78	31	6.8	6.69	7.8	5.9	0.162	0.402	6.02	6.4	6.9	7.1
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-11/09/78	31	6.8	6.508	7.8	5.9	0.196	0.443	6.02	6.4	6.9	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-11/09/78	31	0.158	0.31	1.259	0.016	0.109	0.33	0.079	0.126	0.398	0.959
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-11/09/78	28	16.5	20.821	50.	8.	133.411	11.55	10.	12.25	25.5	44.1
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-11/09/78	17	4.	4.471	8.	1.	2.765	1.663	1.8	4.	6.	6.4
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/06/78	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-11/09/78	28	9.	10.036	21.	4.	19.962	4.468	5.8	7.25	10.75	17.3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/04/77-11/09/78	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/04/77-11/09/78	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/04/77-07/11/78	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/04/77-07/11/78	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/04/77-11/09/78	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/04/77-11/09/78	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/04/77-11/09/78	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/04/77-11/09/78	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/04/77-07/11/78	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	10/04/77-07/11/78	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/04/77-11/09/78	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/04/77-11/09/78	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-11/09/78	31	800.	1277.194	9490.	380.	2559945.495	1599.983	510.	680.	1330.	2166.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-11/09/78	31	220.	268.71	970.	90.	29378.28	171.401	122.	160.	340.	448.
01049	LEAD, DISSOLVED (UG/L AS PB)	10/04/77-11/09/78	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/04/77-11/09/78	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-11/09/78	4	185.	192.5	280.	120.	7158.333	84.607	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-11/09/78	4	175.	185.	280.	110.	7766.667	88.129	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/04/77-11/09/78	4 ##	10.	11.25	20.	5.	39.583	6.292	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/04/77-11/09/78	4	20.	16.25	20.	5.	56.25	7.5	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/04/77-07/11/78	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/04/77-07/11/78	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-11/09/78	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-11/09/78	3	20.	16.667	20.	10.	33.333	5.774	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-11/09/78	3	180.	230.	460.	50.	43900.	209.523	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-11/09/78	3	50.	50.	70.	30.	400.	20.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/04/77-11/09/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/04/77-11/09/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/04/77-11/09/78	3 ##	0.25	0.333	0.5	0.25	0.021	0.144	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/04/77-11/09/78	3 ##	0.25	0.333	0.5	0.25	0.021	0.144	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-11/09/78	25	17.	29.04	256.	4.	2415.54	49.148	5.	10.	25.5	55.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/07/77-11/09/78	8	0.	0.024	0.17	0.	0.004	0.059	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	31	0	0.00	13	0	0.00	5	0	0.00	13	0	0.00			
		Other-Lo Lim.	6.5	31	9	0.29	13	6	0.46	5	0	0.00	13	3	0.23			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	28	0	0.00	10	0	0.00	5	0	0.00	13	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	2	0	0.00									
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	2	0	0.00									
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	4	0	0.00	3	0	0.00	1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	3	0	0.00	1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	4	0	0.00	3	0	0.00	1	0	0.00						
		Drinking Water	1300.	4	0	0.00	3	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	4	0	0.00	3	0	0.00	1	0	0.00						
		Drinking Water	1300.	4	0	0.00	3	0	0.00	1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	15.	2	0	0.00	1	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	15.	2	0	0.00	1	0	0.00	1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	4	0	0.00	3	0	0.00	1	0	0.00						
		Drinking Water	100.	4	0	0.00	3	0	0.00	1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	3	0	0.00	1	0	0.00						
		Drinking Water	100.	4	0	0.00	3	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5000.	3	0	0.00	2	0	0.00	1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5000.	3	0	0.00	2	0	0.00	1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	2.	3	0	0.00	2	0	0.00	1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	2.	3	0	0.00	2	0	0.00	1	0	0.00						

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0018

NPS Station ID: FONE0018
LAT/LON: 39.777226/ -79.590281
Agency: 21PAMR
Date Created: 07/25/77
Location: DEEP MINE DISCHARGE IVAN HAGAR
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM0100C0
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020004003701.41
RF3 Mile Point: 1.40
Distance from RF3: 0.03
On/Off RF3:
Description:
ABANDONED DEEP MINE DISCHARGING INTO STONY FORK UPSTREAM OF STATION 47 LOCATED ON WESTERN BOUNDARY OF IVAN HAGAR PROPERTY AND PROPOSED JEBCO STRIP (3374SM21).

Parameter Inventory for Station: FONE0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/01/77	7	13.5	12.714	14.5	9.5	3.988	1.997	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-08/03/77	3	0.005	0.009	0.02	0.002	0.	0.01	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/01/77	7	250.	257.286	321.	190.	3503.238	59.188	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/01/77	7	3.4	3.443	3.8	3.2	0.046	0.215	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/01/77	7	3.4	3.4	3.8	3.2	0.048	0.22	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/01/77	7	398.107	397.719	630.957	158.489	32357.226	179.881	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/01/77	7	3.3	3.429	3.7	3.2	0.052	0.229	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-09/01/77	7	3.3	3.381	3.7	3.2	0.055	0.235	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/01/77	7	501.187	416.361	630.957	199.526	37968.451	194.855	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-09/01/77	4	49.	50.	56.	46.	18.667	4.32	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	03/30/77-09/01/77	6	20.	20.167	28.	14.	34.567	5.879	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/01/77	7	34.	29.714	48.	6.	261.571	16.173	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-03/30/77	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/01/77	7	40.	40.714	62.	12.	272.238	16.5	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/01/77	7	4660.	4966.429	7980.	2940.	3199339.286	1788.67	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/16/77-09/01/77	6	4225.	4179.167	6210.	2315.	2013284.167	1418.902	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	360.	360.	360.	360.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	360.	360.	360.	360.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	47.	47.	47.	47.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	73.	73.	73.	73.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	7	1.00	2	2	1.00				5	5	1.00			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	7	1.00	2	2	1.00				5	5	1.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	2	0	0.00				5	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0019

NPS Station ID: FONE0019
LAT/LON: 39.777226/ -79.590281
Agency: 112WRD
Date Created: 06/29/78
Location: HAGER MINE DISCHARGE NR BAUER ESTATE,PA
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 03070440
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 25.60
On/Off RF1:
RF3 Index: 05020004025200.00
RF3 Mile Point: 0.14
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	110	12.	11.977	30.5	5.	10.383	3.222	8.55	10.	13.5	15.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/21/88	30	0.04	0.05	0.2	0.002	0.002	0.047	0.01	0.02	0.053	0.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	110	1100.	1049.164	2300.	50.	554681.496	744.769	220.	278.75	1807.5	2000.
00400	PH (STANDARD UNITS)	03/16/77-06/21/88	109	3.5	3.554	6.	2.6	0.279	0.528	3.	3.2	3.7	4.
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	109	3.5	3.356	6.	2.6	0.319	0.564	3.	3.2	3.7	4.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	109	316.228	440.627	2511.886	1.	159326.145	399.157	100.	199.526	630.957	1000.
00403	PH, LAB, STANDARD UNITS SU	06/21/88-06/21/88	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/21/88-06/21/88	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/21/88-06/21/88	1	1995.262	1995.262	1995.262	1995.262	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/78-09/28/84	20	0.	2.6	36.	0.	64.542	8.034	0.	0.	1.625	5.8
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	67	136.	161.672	420.	4.	15665.678	125.163	17.6	46.	264.	347.2
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	03/30/77-06/21/88	33	20.	26.303	230.	3.	1365.78	36.956	14.4	16.	25.	27.6
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/06/78	37	32.	29.946	52.	0.	184.941	13.599	5.4	23.5	41.	45.6
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/88-06/21/88	1	2368.	2368.	2368.	2368.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/21/88-06/21/88	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-03/30/77	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/21/88-06/21/88	1	144.	144.	144.	144.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/21/88-06/21/88	1	90.6	90.6	90.6	90.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/21/88-06/21/88	1	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/21/88-06/21/88	1	2.14	2.14	2.14	2.14	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/21/88-06/21/88	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	105	500.	510.552	1300.	6.	200384.846	447.644	30.	54.	1000.	1108.
00951	FLUORIDE, TOTAL (MG/L AS F)	06/21/88-06/21/88	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/28/84	11 ##	5.	3.364	5.	0.5	5.155	2.27	0.5	0.5	5.	5.
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/28/84	11 ##	5.	3.364	5.	0.5	5.155	2.27	0.5	0.5	5.	5.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-09/28/84	11	2.	2.909	10.	0.	10.091	3.177	0.2	1.	3.	9.6
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-09/28/84	11	3.	3.136	10.	0.5	8.405	2.899	0.6	1.	3.	9.4
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/28/84	13 ##	10.	7.385	10.	1.	9.756	3.124	2.6	5.	10.	10.
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/28/84	13 ##	10.	8.154	10.	1.	9.308	3.051	2.6	5.	10.	10.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-07/11/78	3	8.	8.667	17.	1.	64.333	8.021	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-07/11/78	3	10.	10.	18.	2.	64.	8.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/28/84	13	20.	24.231	60.	5.	324.359	18.01	7.	10.	40.	56.
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/28/84	13	20.	26.154	60.	10.	358.974	18.947	10.	10.	45.	56.
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	110	11860.	17145.864	49900.	170.	198332566.449	14083.06	2508.	4285.	29375.	37430.
01046	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	107	10600.	15561.262	44200.	40.	174517853.346	13210.521	2000.	3710.	27600.	32920.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/28/84	11 ##	5.	3.273	5.	0.	4.218	2.054	0.2	1.	5.	5.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/28/84	11 ##	5.	4.727	12.	2.	7.618	2.76	2.	2.	5.	10.6
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	73	53800.	44966.493	86800.	150.	643562039.976	25368.525	3265.6	24810.	65550.	71100.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	71	53030.	42432.817	71700.	110.	586387380.523	24215.437	1720.	23720.	63350.	66900.
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/28/84	13	520.	710.	1650.	10.	488783.333	699.13	10.	15.	1425.	1638.
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/28/84	13	570.	728.462	1620.	10.	494597.436	703.276	14.	20.	1480.	1608.
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	69	1700.	1570.043	3470.	30.	854751.307	924.528	250.	705.	2230.	2750.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	72	1770.	1658.986	3800.	40.	975392.887	987.62	298.	737.5	2355.	2848.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	71	9430.	9338.169	58400.	70.	63012983.742	7938.072	1404.	2970.	13110.	16382.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	70	8170.	8270.8	55600.	73.	57873412.075	7607.458	1011.	2705.	11525.	15358.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-04/09/84	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-04/09/84	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	06/21/88-06/21/88	1	624.	624.	624.	624.	0.	0.	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/28/84	24	6.05	6.267	8.	5.	0.491	0.701	5.35	5.925	6.7	7.4
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/28/84	12 ##	0.5	0.396	0.5	0.25	0.017	0.129	0.25	0.25	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/28/84	12 ##	0.5	0.396	0.5	0.25	0.017	0.129	0.25	0.25	0.5	0.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0019

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	109	0	0.00	40	0	0.00	32	0	0.00	37	0	0.00			
		Other-Lo Lim.	6.5	109	109	1.00	40	40	1.00	32	32	1.00	37	37	1.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	1	1.00							1	1	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	105	61	0.58	38	22	0.58	31	19	0.61	36	20	0.56			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
		Drinking Water	50.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
		Drinking Water	50.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	11	2	0.18	5	0	0.00	1	0	0.00	5	2	0.40			
		Drinking Water	5.	11	2	0.18	5	0	0.00	1	0	0.00	5	2	0.40			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	11	2	0.18	5	0	0.00	1	0	0.00	5	2	0.40			
		Drinking Water	5.	11	2	0.18	5	0	0.00	1	0	0.00	5	2	0.40			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	13	0	0.00	7	0	0.00	1	0	0.00	5	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	13	0	0.00	7	0	0.00	1	0	0.00	5	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	13	7	0.54	7	3	0.43	1	0	0.00	5	4	0.80			
		Drinking Water	1300.	13	0	0.00	7	0	0.00	1	0	0.00	5	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	13	7	0.54	7	3	0.43	1	0	0.00	5	4	0.80			
		Drinking Water	1300.	13	0	0.00	7	0	0.00	1	0	0.00	5	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
		Drinking Water	15.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
		Drinking Water	15.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	13	3	0.23	7	1	0.14	1	0	0.00	5	2	0.40			
		Drinking Water	100.	13	8	0.62	7	4	0.57	1	0	0.00	5	4	0.80			
01067	NICKEL, TOTAL	Fresh Acute	1400.	13	4	0.31	7	1	0.14	1	0	0.00	5	3	0.60			
		Drinking Water	100.	13	8	0.62	7	4	0.57	1	0	0.00	5	4	0.80			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0019

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01077	SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	69	64	0.93	22	20	0.91	23	22	0.96	24	22	0.92			
		Drinking Water	5000.	69	0	0.00	22	0	0.00	23	0	0.00	24	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	72	68	0.94	24	22	0.92	24	23	0.96	24	23	0.96			
		Drinking Water	5000.	72	0	0.00	24	0	0.00	24	0	0.00	24	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
		Drinking Water	50.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
		Drinking Water	50.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	12	0	0.00	6	0	0.00	1	0	0.00	5	0	0.00			
		Drinking Water	2.	12	0	0.00	6	0	0.00	1	0	0.00	5	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	12	0	0.00	6	0	0.00	1	0	0.00	5	0	0.00			
		Drinking Water	2.	12	0	0.00	6	0	0.00	1	0	0.00	5	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1977 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	33	11.5	11.318	16.5	7.	5.825	2.414	7.9	9.75	12.75	14.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	33	280.	279.424	360.	190.	2431.877	49.314	207.	240.	320.5	342.
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	32	3.3	3.269	4.2	2.6	0.111	0.333	2.9	3.	3.475	3.6
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	32	3.3	3.156	4.2	2.6	0.124	0.352	2.9	3.	3.475	3.6
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	32	501.187	698.671	2511.886	63.096	272324.613	521.847	251.189	336.698	1000.	1258.925
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	8	47.	40.75	56.	16.	227.357	15.078	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	30	47.5	45.967	74.	6.	303.62	17.425	13.8	35.75	60.	65.8
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	33	4370.	4641.061	9210.	1400.	2950255.871	1717.631	2496.	3555.	5675.	7320.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	32	4145.	4216.406	8380.	1370.	2164448.765	1471.207	2206.5	3217.5	5032.5	6329.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	2	525.	525.	690.	360.	54450.	233.345	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	2	520.	520.	680.	360.	51200.	226.274	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	2	61.5	61.5	70.	53.	144.5	12.021	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	2	58.5	58.5	70.	47.	264.5	16.263	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	2	785.	785.	1500.	70.	1022450.	1011.163	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	2	786.5	786.5	1500.	73.	1018164.5	1009.041	**	**	**	**

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Annual Analysis for 1978 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	10	11.75	11.35	15.5	7.	8.169	2.858	7.05	8.625	13.5	15.45
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	10	220.	314.7	1600.	50.	210712.011	459.034	53.	87.5	258.75	1467.
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	10	3.8	4.06	6.	3.2	0.983	0.991	3.21	3.3	4.5	5.97
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	10	3.789	3.605	6.	3.2	1.213	1.101	3.21	3.3	4.5	5.97
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	10	162.709	248.33	630.957	1.	51292.246	226.478	1.1	60.073	501.187	617.98
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	10	17.	24.4	48.	4.	263.822	16.243	4.6	11.5	42.	48.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	10	32.	41.	110.	10.	911.111	30.185	10.4	20.75	57.5	105.8
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	10	1700.	2003.	4680.	170.	2478445.556	1574.308	187.	670.	3600.	4587.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	10	1470.	1761.	4530.	40.	2708254.444	1645.678	41.	222.5	3497.5	4441.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	4	770.	805.	1530.	150.	330300.	574.717	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	4	760.	800.	1530.	150.	332600.	576.715	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	3	90.	170.	380.	40.	33700.	183.576	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	3	90.	170.	380.	40.	33700.	183.576	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	3	600.	856.667	1690.	280.	546433.333	739.211	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	3	400.	646.667	1380.	160.	417733.333	646.323	**	**	**	**

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Annual Analysis for 1979 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	11	12.	12.136	18.	7.	9.405	3.067	7.5	10.	14.	17.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	11	535.	680.	1200.	240.	139865.	373.985	242.	310.	1100.	1200.
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	11	4.	4.168	4.9	3.5	0.331	0.575	3.5	3.65	4.8	4.9
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	11	4.	3.892	4.9	3.5	0.415	0.644	3.5	3.65	4.8	4.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	11	100.	128.374	316.228	12.589	14596.915	120.818	12.589	15.849	223.872	316.228
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	10	45.	75.5	168.	20.	3210.056	56.657	20.	29.	128.5	165.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	9	260.	293.	540.	70.	36276.	190.463	70.	103.5	520.	540.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	10	5270.	7899.	24150.	2440.	46040721.111	6785.331	2454.	2872.5	12170.	22973.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	10	3780.	6850.	23700.	1800.	49616733.333	7043.915	1807.	2012.5	11695.	22558.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	10	6475.	13450.4	33050.	2480.	149786148.267	12238.715	2676.4	4448.5	28150.	32935.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	10	6220.	12562.	31900.	2480.	147765195.556	12155.871	2671.	4435.	27837.5	31850.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	9	350.	595.556	1200.	240.	187127.778	432.583	240.	260.	1150.	1200.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	10	380.	591.	1250.	250.	181298.889	425.792	251.	275.	1137.5	1250.

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Annual Analysis for 1979 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	10	2110.	3406.	10040.	1210.	8212226.667	2865.698	1219.	1360.	5612.5	9601.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	10	1605.	2870.3	8730.	700.	7081796.456	2661.164	713.3	958.25	5127.5	8390.

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Annual Analysis for 1980 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	12	10.25	10.625	15.	5.	8.097	2.845	6.05	9.	12.875	15.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	11	1120.	1167.727	1600.	870.	41736.818	204.296	896.	1000.	1250.	1565.
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	11	3.5	3.545	3.8	3.4	0.025	0.157	3.4	3.4	3.7	3.8
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	11	3.5	3.522	3.8	3.4	0.025	0.159	3.4	3.4	3.7	3.8
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	11	316.228	300.8	398.107	158.489	9181.111	95.818	158.489	199.526	398.107	398.107
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	12	130.	131.417	180.	86.	1094.629	33.085	89.9	100.	163.5	178.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	12	640.	634.167	815.	345.	17035.606	130.521	379.5	585.	723.75	795.5
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	12	18900.	18654.167	29300.	5480.	47515644.697	6893.159	7046.	12690.	23550.	28130.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	10	20650.	17185.	28600.	60.	85307050.	9236.182	568.	9235.	23425.	28270.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	12	26595.	26520.833	37600.	16250.	32851990.152	5731.666	17330.	23570.	29957.5	36265.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	10	23760.	22601.	30730.	110.	80425721.111	8968.039	1719.	21225.	28572.5	30671.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	10	650.	617.	1040.	30.	95334.444	308.763	67.	407.5	850.	1036.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	12	745.	886.667	2300.	400.	281896.97	530.94	403.	487.5	1047.5	2024.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	11	4130.	5262.727	12700.	1110.	15059281.818	3880.629	1288.	2440.	8730.	12342.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	10	2455.	3152.	8380.	80.	5989884.444	2447.424	183.	1282.5	4622.5	8101.

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Annual Analysis for 1981 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	11	12.	11.591	16.	6.	7.941	2.818	6.6	10.	14.	15.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	12	1900.	1751.667	2000.	1100.	87906.061	296.49	1190.	1507.5	1987.5	2000.
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	12	3.65	3.5	3.8	3.1	0.073	0.27	3.1	3.2	3.7	3.77
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	12	3.647	3.419	3.8	3.1	0.08	0.283	3.1	3.2	3.7	3.77
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	12	225.357	381.176	794.328	158.489	63805.319	252.597	170.8	199.526	630.957	794.328
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	12	244.	237.167	302.	120.	2553.788	50.535	138.	215.5	263.	302.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	11	960.	915.455	1080.	580.	22447.273	149.824	604.	870.	1020.	1072.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	12	27900.	26350.	45400.	6100.	100264545.455	10013.219	7660.	23175.	30325.	41650.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	12	26400.	23819.167	32400.	5730.	62615499.242	7912.996	7281.	22100.	28050.	32160.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	12	62400.	60687.5	86800.	31960.	188726438.636	13737.774	35197.	54905.	67600.	81700.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	12	60050.	56388.333	66000.	29860.	112129996.97	10589.145	33562.	53837.5	63337.5	65550.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	12	1970.	1921.667	2900.	760.	402051.515	634.075	844.	1627.5	2387.5	2870.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	12	2055.	2096.667	3800.	790.	687896.97	829.396	868.	1692.5	2425.	3635.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	12	7120.	7890.833	13440.	2970.	9580935.606	3095.309	3729.	5705.	9885.	13341.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	12	6665.	7030.	12850.	2770.	6468018.182	2543.23	3502.	5510.	8340.	11935.

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Annual Analysis for 1982 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	11	12.	12.455	14.5	10.	1.573	1.254	10.4	12.	13.	14.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	11	1900.	1909.545	2300.	1600.	31702.273	178.051	1630.	1800.	2000.	2240.
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	11	3.3	3.373	3.7	3.	0.056	0.237	3.02	3.2	3.6	3.68

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Annual Analysis for 1982 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	11	3.3	3.315	3.7	3.	0.06	0.245	3.02	3.2	3.6	3.68
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	11	501.187	484.358	1000.	199.526	67801.816	260.388	209.859	251.189	630.957	958.866
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	11	338.	336.909	420.	236.	2406.691	49.058	248.	306.	374.	412.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	11	1040.	907.273	1300.	140.	121781.818	348.973	216.	560.	1100.	1272.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	11	31900.	32518.182	39300.	27300.	16911636.364	4112.376	27540.	28500.	35000.	39280.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	11	29300.	28010.909	37400.	2820.	82268109.091	9070.177	7476.	27600.	32100.	37160.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	11	70200.	70089.091	84400.	58300.	43084509.091	6563.879	59580.	65800.	71900.	82556.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	11	66500.	66420.	71700.	57900.	14108400.	3756.115	58920.	65400.	69900.	71384.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	11	2500.	2564.545	3260.	2000.	129227.273	359.482	2028.	2280.	2850.	3178.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	11	2620.	2720.909	3720.	2200.	189189.091	434.959	2220.	2320.	2950.	3596.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	11	14810.	14329.091	19900.	10400.	10164469.091	3188.176	10480.	11300.	16750.	19340.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	11	13860.	13128.182	16660.	9800.	7046896.364	2654.599	9832.	10300.	15700.	16588.

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Annual Analysis for 1983 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	11	13.	13.591	19.	9.	11.541	3.397	9.2	10.5	16.	18.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	11	1950.	1962.727	2100.	1800.	7981.818	89.341	1820.	1900.	2000.	2100.
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	11	3.4	3.455	4.	3.1	0.073	0.27	3.12	3.2	3.7	3.94
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	11	3.4	3.388	4.	3.1	0.078	0.279	3.12	3.2	3.7	3.94
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	11	398.107	409.272	794.328	100.	46400.555	215.408	119.905	199.526	630.957	761.654
00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/07/77-04/28/83	4	338.	344.5	402.	300.	2113.	45.967	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	11	1100.	1116.364	1200.	1040.	3905.455	62.494	1040.	1060.	1180.	1200.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	11	32500.	35374.545	49900.	25200.	63539527.273	7971.169	25404.	29000.	42500.	48940.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	11	32400.	32365.455	44200.	20520.	47167127.273	6867.833	21236.	27000.	36600.	43240.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	11	65300.	65881.818	74700.	60800.	17083636.364	4133.236	60840.	62300.	67600.	73860.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	11	63600.	62258.182	69200.	50540.	26242836.364	5122.776	51972.	60000.	66200.	68820.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	11	2070.	2116.364	2700.	1600.	127705.455	357.359	1620.	1760.	2440.	2680.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	11	2190.	2205.455	2750.	1650.	134787.273	367.134	1672.	1780.	2480.	2730.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	11	13500.	12836.364	18200.	9190.	8201045.455	2863.747	9364.	10120.	14700.	17700.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	11	12900.	11923.636	16200.	8290.	8598765.455	2932.365	8312.	8570.	14400.	16040.

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Annual Analysis for 1984 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	10	12.	12.5	18.	9.	6.556	2.56	9.05	11.375	13.5	17.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	10	1650.	1700.	1900.	1550.	13333.333	115.47	1555.	1600.	1800.	1890.
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	10	3.7	3.75	4.7	3.2	0.152	0.389	3.23	3.5	3.825	4.62
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	10	3.7	3.634	4.7	3.2	0.167	0.408	3.23	3.5	3.825	4.62
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	10	199.526	232.482	630.957	19.953	27060.826	164.502	30.547	150.34	316.228	599.484
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	10	875.	820.	1140.	500.	84777.778	291.166	500.	500.	1122.5	1139.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	10	30100.	29980.	43900.	18400.	55548444.444	7453.083	18780.	24600.	34525.	43300.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	10	27800.	27940.	42200.	17100.	55331555.556	7438.518	17520.	21975.	31550.	41660.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	10	54350.	55340.	62800.	46700.	41644888.889	6453.285	46800.	48225.	62525.	62780.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	10	52965.	51564.	59100.	44600.	20573560.	4535.809	44850.	47100.	54325.	58810.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	10	1765.	1815.	2230.	1410.	87916.667	296.507	1412.	1602.5	2110.	2230.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	10	1875.	1943.	2360.	1460.	128956.667	359.105	1464.	1642.5	2345.	2360.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	10	10160.	11501.	19200.	7240.	12324898.889	3510.684	7393.	9265.	13775.	18770.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	10	9430.	9969.	17000.	4380.	12488543.333	3533.913	4617.	7725.	12375.	16590.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

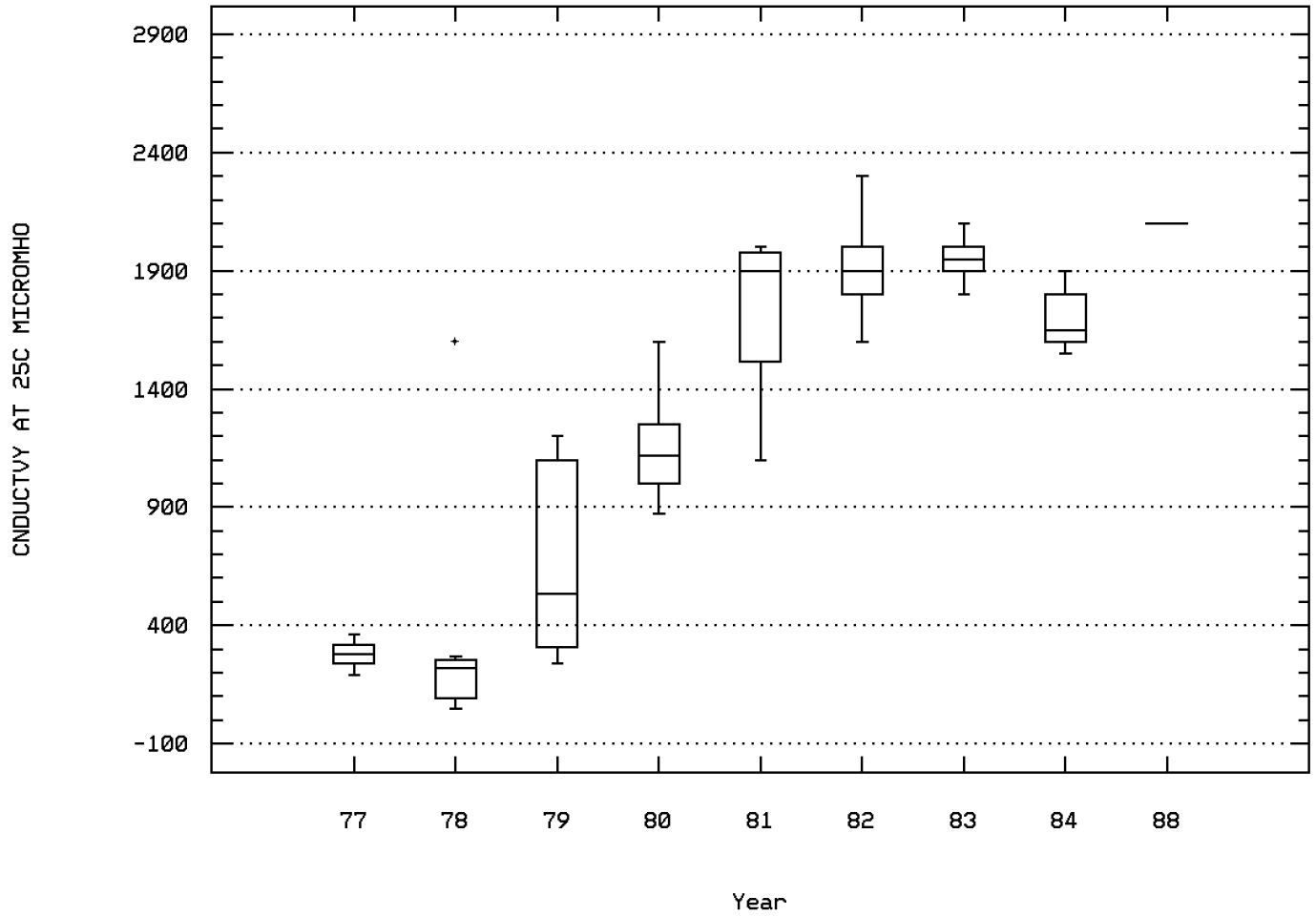
Annual Analysis for 1988 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	1	30.5	30.5	30.5	30.5	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	1	2100.	2100.	2100.	2100.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-06/21/88	1	2.76	2.76	2.76	2.76	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	1	2.76	2.76	2.76	2.76	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	1	1737.801	1737.801	1737.801	1737.801	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	1	1042.	1042.	1042.	1042.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	1	47200.	47200.	47200.	47200.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	1	42800.	42800.	42800.	42800.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	1	48200.	48200.	48200.	48200.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	1	49100.	49100.	49100.	49100.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	1	3470.	3470.	3470.	3470.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	1	3490.	3490.	3490.	3490.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	1	58400.	58400.	58400.	58400.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	1	55600.	55600.	55600.	55600.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0019 Parameter Code: 00095

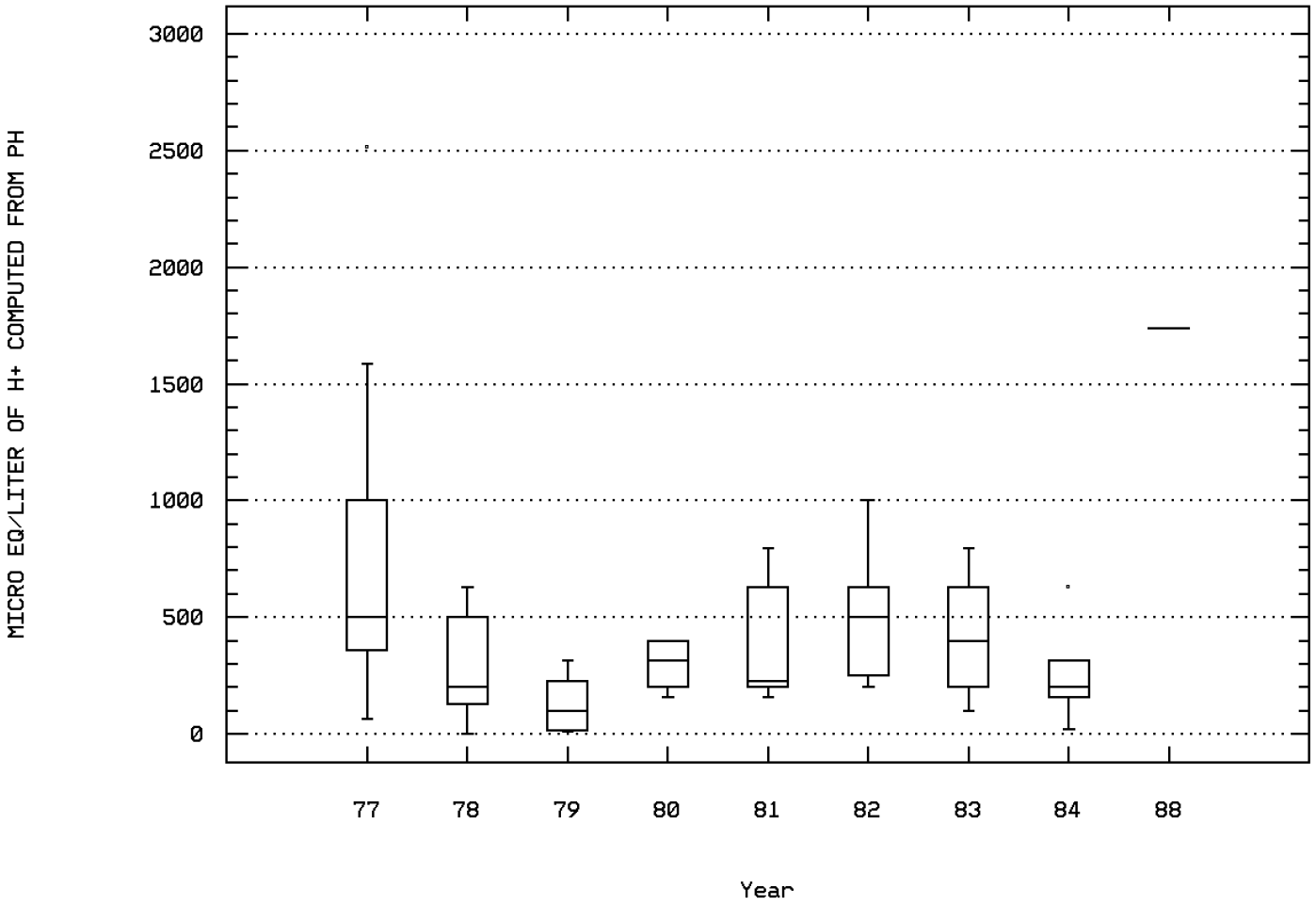
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



HAGER MINE DISCHARGE NR BAUER ESTATE,PA

Station: FONE0019 Parameter Code: 00400

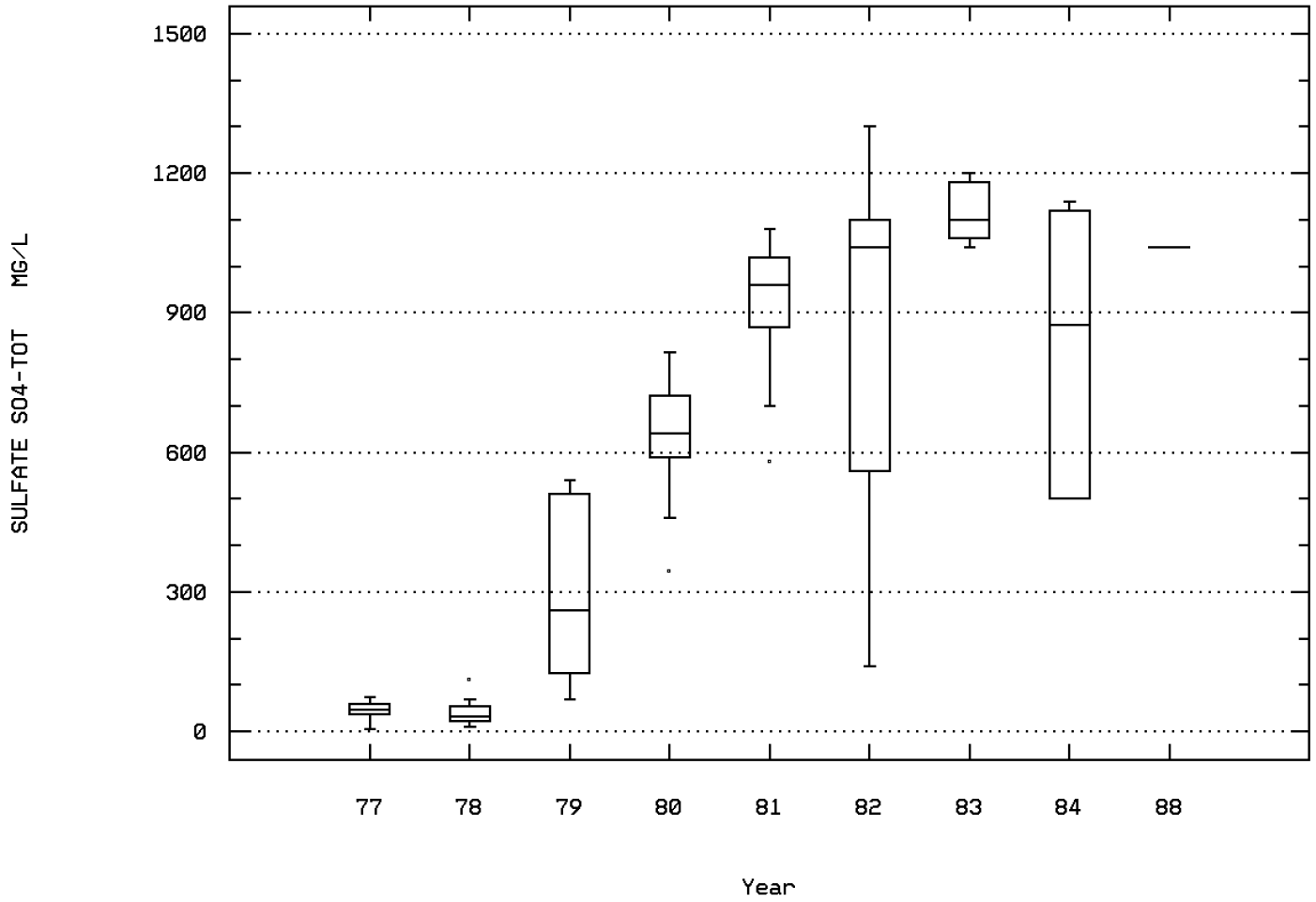
MICRO EQ/LITER OF H+ COMPUTED FROM PH



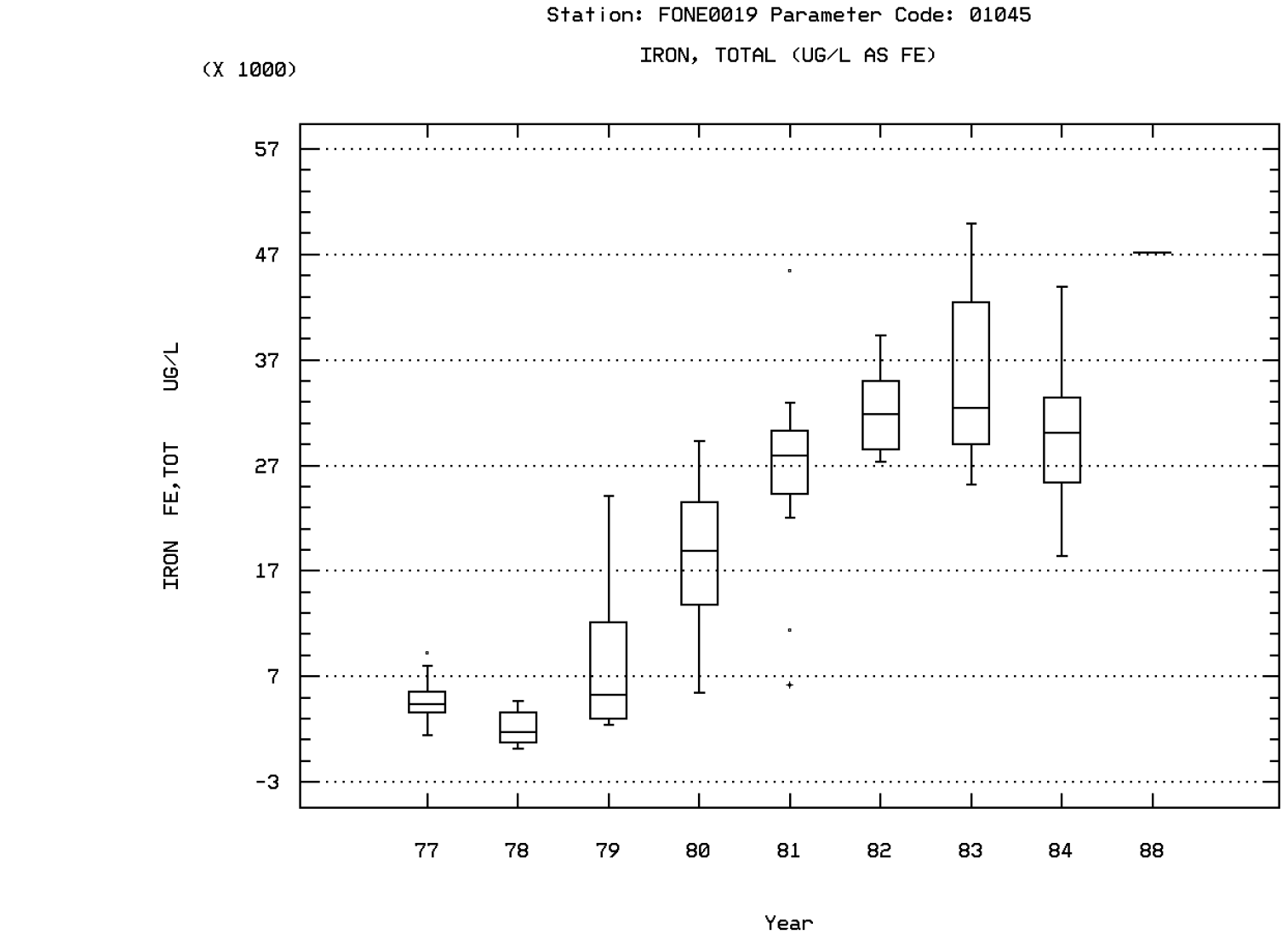
HAGER MINE DISCHARGE NR BAUER ESTATE,PA

Station: FONE0019 Parameter Code: 00945

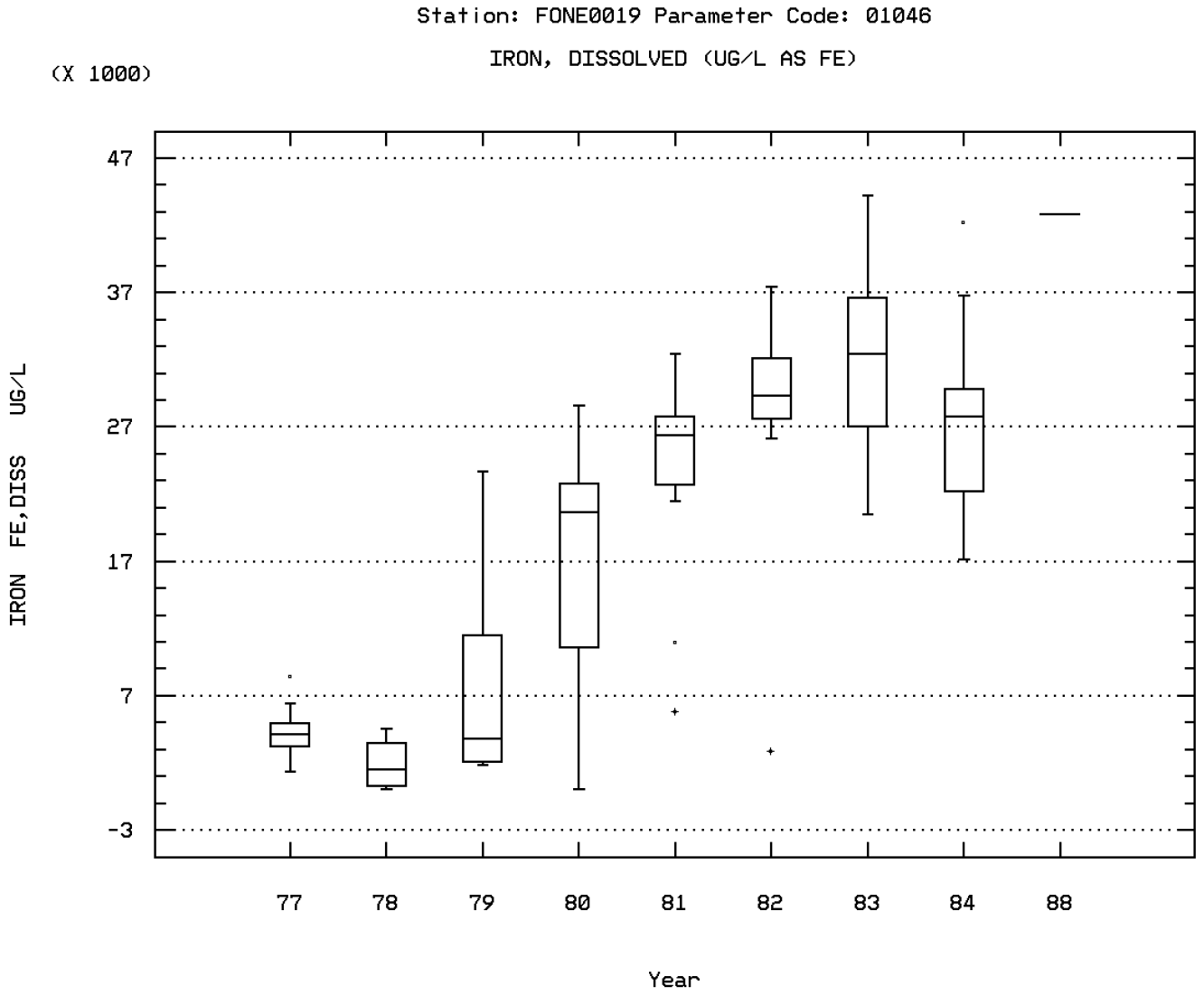
SULFATE, TOTAL (MG/L AS SO4)



HAGER MINE DISCHARGE NR BAUER ESTATE,PA



HAGER MINE DISCHARGE NR BAUER ESTATE,PA



HAGER MINE DISCHARGE NR BAUER ESTATE,PA

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	41	13.	13.207	19.	9.	5.612	2.369	10.6	11.5	15.	16.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/21/88	12	0.02	0.037	0.2	0.002	0.003	0.053	0.004	0.013	0.038	0.152
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	41	925.	975.073	2100.	50.	515370.87	717.893	276.	320.5	1800.	1932.
00400	PH (STANDARD UNITS)	03/16/77-06/21/88	40	3.45	3.538	6.	2.6	0.404	0.636	2.9	3.1	3.8	4.19
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	40	3.447	3.267	6.	2.6	0.479	0.692	2.9	3.1	3.8	4.19
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	40	357.167	540.588	2511.886	1.	280822.666	529.927	64.729	158.489	794.328	1258.925
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/78-09/28/84	9	0.	1.056	4.	0.	2.403	1.55	0.	0.	2.5	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	38	402.5	463.447	1200.	8.	190550.794	436.521	13.8	43.75	965.	1100.
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	41	7940.	16760.	49900.	170.	231052255.	15200.403	1088.	4290.	30250.	41580.
01046	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	40	6295.	15534.75	44200.	40.	201337066.603	14189.329	722.	4015.	28050.	36780.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	25	53400.	42091.6	71900.	150.	604387655.667	24584.297	816.	25525.	63950.	69600.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	24	53070.	41163.75	67400.	150.	593952937.5	24371.15	790.	24512.5	61962.5	66900.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	22	1680.	1434.091	2500.	70.	543168.182	736.999	138.	912.5	2012.5	2217.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	24	1685.	1417.5	2550.	70.	629263.043	793.261	175.	677.5	2150.	2310.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	24	7260.	7075.	16410.	600.	18952504.348	4353.447	1245.	2450.	10055.	13050.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	23	7060.	6589.565	13860.	400.	15554122.53	3943.872	864.	2130.	9110.	12260.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	33	9.	9.439	13.	5.	4.34	2.083	7.	8.	10.75	12.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/21/88	7	0.05	0.046	0.06	0.02	0.	0.013	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	32	1200.	1127.5	2300.	90.	573343.548	757.195	240.	256.25	1875.	2000.
00400	PH (STANDARD UNITS)	03/16/77-06/21/88	32	3.45	3.573	5.7	2.9	0.282	0.531	3.1	3.225	3.7	4.29
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	32	3.447	3.403	5.7	2.9	0.312	0.558	3.1	3.225	3.7	4.29
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	32	357.167	395.413	1258.925	1.995	80500.997	283.727	69.683	199.526	598.515	794.328
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/78-09/28/84	6	0.	1.083	6.	0.	5.842	2.417	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	31	620.	579.935	1300.	6.	220495.596	469.57	41.6	64.	1080.	1140.
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	32	14000.	17067.5	39300.	1290.	183636103.226	13551.24	2599.	3755.	29525.	36620.
01046	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	31	10900.	15130.645	37400.	940.	165972119.57	12883.017	2012.	3550.	28200.	34100.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	24	50525.	43356.667	75180.	640.	707325988.406	26595.601	2005.	20737.5	67262.5	73100.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	23	53700.	41915.652	70120.	620.	626660107.51	25033.18	1910.	22900.	63900.	69620.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	23	1600.	1403.478	2700.	40.	772960.079	879.181	284.	420.	2230.	2578.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	24	1690.	1510.	2750.	40.	859043.478	926.846	310.	512.5	2330.	2660.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	23	6960.	8077.391	18200.	280.	28608183.794	5348.662	1402.	2970.	11890.	16010.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	23	5870.	6943.913	16300.	160.	24651952.174	4965.073	1136.	2200.	11050.	14880.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-06/21/88	36	12.	12.903	30.5	9.	13.226	3.637	10.	10.625	14.375	15.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/21/88	11	0.05	0.067	0.2	0.002	0.003	0.052	0.01	0.04	0.1	0.18
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-06/21/88	37	1180.	1063.514	2100.	190.	601187.312	775.363	209.	252.5	1900.	2000.
00400	PH (STANDARD UNITS)	03/16/77-06/21/88	37	3.5	3.556	4.9	2.76	0.155	0.394	3.2	3.3	3.7	3.84
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-06/21/88	37	3.5	3.43	4.9	2.76	0.172	0.414	3.2	3.3	3.7	3.84
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-06/21/88	37	316.228	371.666	1737.801	12.589	86626.218	294.323	146.791	199.526	501.187	630.957
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/78-09/28/84	5	0.	7.2	36.	0.	259.2	16.1	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-06/21/88	36	500.	500.528	1200.	23.	198217.342	445.216	35.7	52.5	962.5	1072.
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-06/21/88	37	18400.	17641.216	47200.	1400.	185223901.952	13609.699	2868.	4560.	27950.	34360.
01046	IRON, DISSOLVED (UG/L AS FE)	03/16/77-06/21/88	36	18810.	15961.528	42800.	60.	161601118.313	12712.243	2010.	3485.	27400.	32190.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-06/21/88	24	60500.	49571.	86800.	360.	642826415.304	25354.022	5447.	30490.	66950.	78150.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-06/21/88	24	51720.	44197.5	71700.	110.	586092776.087	24209.353	2375.	24367.5	63825.	66150.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-06/21/88	24	2090.	1854.292	3470.	30.	1162068.129	1077.993	161.5	747.5	2787.5	3080.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-06/21/88	24	2225.	2049.458	3800.	47.	1279578.346	1131.184	310.	1140.	2935.	3605.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-06/21/88	24	12010.	12809.583	58400.	70.	125952943.297	11222.876	1880.	7950.	15477.5	19550.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-06/21/88	24	9775.	11153.583	55600.	73.	121903309.123	11040.983	456.5	3127.5	14835.	16830.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: FONE0020

NPS Station ID: FONE0020
LAT/LON: 39.778115/ -79.651699
Agency: 11NPSWRD
Date Created: 04/26/97
Location: PAFA517R
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): FONE_NURE_4 /NURE_4070649
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: OHIO RIVER MAIN STEM & MINOR TRIBUTARIES
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE BROWNFIELD PENNSYLVANIA-FAYETTE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY WAS USED TO CREATE THE STATION LOCATION (THE 1ST 4 DIGITS REFER TO THE STATE AND THE COUNTY IN WHICH THE SITE IS LOCATED; THE NEXT 3 DIGITS REFER TO THE LOCALITY IN WHICH THE SITE IS LOCATED). NURE'S FORT NECESSITY NATIONAL BATTLEFIELD STREAM DATA WERE NOT UPLOADED TO STORET BECAUSE THE DATA DID NOT HAVE SAMPLING DATES. SAVANNAH RIVER LABORA- TORY ANALYZED THE SAMPLES. DATA WERE PROCESSED AND UPLOADED TO STORET BY KELLI O'CONNOR AT NPS-WRD FORT COLLINS CO 80525. PH(970)225-3556.

Parameter Inventory for Station: FONE0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/77-08/21/77	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/77-08/21/77	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/21/77-08/21/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/21/77-08/21/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/21/77-08/21/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/77-08/21/77	1	1.05	1.05	1.05	1.05	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/77-08/21/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/77-08/21/77	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/77-08/21/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/21/77-08/21/77	1	35.	35.	35.	35.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0021

NPS Station ID: FONE0021
LAT/LON: 39.780004/ -79.593893
Agency: 112WRD
Date Created: 06/29/78
Location: STONY FORK TRIB #4 (N OF DELTA SITE), PA (73)
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070435
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 25.80
On/Off RF1:
RF3 Index: 05020004024702.90
RF3 Mile Point: 3.44
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	130	16.	14.299	27.	0.	64.251	8.016	2.	8.	21.5	24.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	94	0.45	1.052	20.	0.005	5.038	2.244	0.085	0.2	1.	3.
00065	STAGE, STREAM (FEET)	10/21/80-11/05/80	2	0.46	0.46	0.87	0.05	0.336	0.58	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	128	85.	99.387	350.	2.5	2586.339	50.856	65.	70.	110.	143.7
00400	PH (STANDARD UNITS)	03/30/77-09/21/88	130	6.9	6.877	8.	5.8	0.161	0.402	6.21	6.6	7.125	7.3
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	130	6.9	6.676	8.	5.8	0.202	0.449	6.21	6.6	7.125	7.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	130	0.126	0.211	1.585	0.01	0.065	0.254	0.05	0.075	0.251	0.618
00403	PH, LAB, STANDARD UNITS SU	03/29/88-09/21/88	3	6.4	6.433	6.6	6.3	0.023	0.153	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/29/88-09/21/88	3	6.4	6.416	6.6	6.3	0.024	0.154	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/29/88-09/21/88	3	0.398	0.383	0.501	0.251	0.016	0.126	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	124	21.5	25.887	118.	4.	303.548	17.423	10.5	14.	31.75	49.
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	03/29/88-09/21/88	3	28.	38.	70.	16.	804.	28.355	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	82	4.5	5.561	38.	1.	20.694	4.549	2.3	3.	6.	9.4
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/15/78	31	0.	0.065	2.	0.	0.129	0.359	0.	0.	0.	0.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	03/29/88-09/21/88	3	140.	136.	218.	50.	7068.	84.071	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/29/88-09/21/88	3	14.	24.667	52.	8.	569.333	23.861	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/29/88-09/21/88	3	12.6	19.367	37.5	8.	251.903	15.871	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	1	13.1	13.1	13.1	13.1	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/29/88-09/21/88	3	2.7	4.4	8.8	1.7	14.77	3.843	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	1	1.36	1.36	1.36	1.36	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/29/88-09/21/88	3	1.35	2.273	4.67	0.8	4.384	2.094	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/29/88-09/21/88	3	1.48	1.387	1.71	0.97	0.143	0.379	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	1	1.71	1.71	1.71	1.71	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/29/88-06/21/88	2	4.5	4.5	7.	2.	12.5	3.536	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	123	14.	17.301	93.	3.	175.589	13.251	7.	10.	20.	29.6
00951	FLUORIDE, TOTAL (MG/L AS F)	03/29/88-06/21/88	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/04/77-09/21/88	13 ##	5.	3.385	5.	0.5	4.673	2.162	0.5	0.5	5.	5.
01002	ARSENIC, TOTAL (UG/L AS AS)	10/04/77-09/21/88	13 ##	5.	3.846	6.	0.5	4.099	2.025	0.5	1.5	5.	5.6
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/04/77-07/11/78	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/04/77-07/11/78	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	1 ##	125.	125.	125.	125.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/04/77-03/28/85	12 ##	1.	1.042	3.	0.5	0.566	0.753	0.5	0.5	1.	2.7
01027	CADMIUM, TOTAL (UG/L AS CD)	10/04/77-03/28/85	12 ##	1.	1.333	6.	0.5	2.333	1.528	0.5	0.5	1.	4.8
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/04/77-09/21/88	15 ##	5.	8.	25.	5.	27.857	5.278	5.	5.	10.	16.
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/04/77-09/21/88	15 ##	10.	8.667	25.	5.	26.667	5.164	5.	5.	10.	16.
01035	COBALT, DISSOLVED (UG/L AS CO)	10/04/77-09/21/88	3 ##	1.	4.833	12.5	1.	44.083	6.64	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	10/04/77-09/21/88	3 ##	2.	5.167	12.5	1.	40.583	6.371	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	10/04/77-09/21/88	15 ##	5.	7.	10.	5.	6.429	2.535	5.	5.	10.	10.
01042	COPPER, TOTAL (UG/L AS CU)	10/04/77-09/21/88	15 ##	10.	8.333	10.	5.	5.952	2.44	5.	5.	10.	10.
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	130	1880.	2157.431	8400.	340.	2143153.394	1463.951	741.	1065.	2642.5	4042.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	130	390.	637.777	6940.	50.	832920.299	912.645	151.	207.5	677.5	1279.
01049	LEAD, DISSOLVED (UG/L AS PB)	10/04/77-09/21/88	13 ##	5.	4.885	25.	0.	41.09	6.41	0.2	1.	5.	17.
01051	LEAD, TOTAL (UG/L AS PB)	10/04/77-09/21/88	13 ##	5.	5.769	25.	1.	35.526	5.96	1.4	3.5	5.	17.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	88	290.	452.261	2340.	70.	234610.011	484.366	110.	172.5	507.5	869.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	87	250.	379.069	2250.	40.	171280.809	413.861	100.	160.	410.	830.
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/04/77-09/21/88	15 ##	5.	8.167	20.	5.	28.988	5.384	5.	5.	10.	20.
01067	NICKEL, TOTAL (UG/L AS NI)	10/04/77-09/21/88	15 ##	5.	10.5	40.	5.	94.821	9.738	5.	5.	12.5	28.
01075	SILVER, DISSOLVED (UG/L AS AG)	10/04/77-07/11/78	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/04/77-07/11/78	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	1	48.	48.	48.	48.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	87	20.	17.989	90.	5.	195.244	13.973	10.	10.	20.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	88	20.	29.852	330.	5.	1418.472	37.663	10.	20.	30.	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	86	460.	649.93	4000.	25.	406076.23	637.241	157.	290.	763.75	1298.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	88	70.	90.869	730.	10.	8207.756	90.597	25.	50.	110.	151.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/04/77-09/21/88	13 ##	5.	4.846	5.	3.	0.308	0.555	3.8	5.	5.	5.
01147	SELENIUM, TOTAL (UG/L AS SE)	10/04/77-09/21/88	13 ##	5.	4.846	5.	3.	0.308	0.555	3.8	5.	5.	5.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	03/29/88-09/21/88	3	0.	2.667	8.	0.	21.333	4.619	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	36	0.08	0.121	0.7	0.04	0.014	0.118	0.04	0.05	0.175	0.2
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/04/77-09/21/88	14 ##	0.5	0.429	0.5	0.25	0.014	0.117	0.25	0.25	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	10/04/77-09/21/88	14 ##	0.5	0.429	0.5	0.25	0.014	0.117	0.25	0.25	0.5	0.5
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	115	36.	39.191	183.	1.	734.753	27.106	12.	19.	51.	70.4
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/03/77-09/24/82	62	0.04	0.144	2.5	0.	0.124	0.352	0.01	0.018	0.103	0.428

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	130	0	0.00	49	0	0.00	34	0	0.00	47	0	0.00			
		Other-Lo Lim.	6.5	130	25	0.19	49	10	0.20	34	6	0.18	47	9	0.19			
00403	PH, LAB	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	2	0.67	1	1	1.00				2	1	0.50			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
		Drinking Water	250.	2	0	0.00							2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	123	0	0.00	44	0	0.00	33	0	0.00	46	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	2	0	0.00							2	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	50.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	50.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	2	0	0.00									
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	2	0	0.00									
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	12	0	0.00	5	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	5.	12	0	0.00	5	0	0.00	2	0	0.00	5	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	12	1	0.08	5	0	0.00	2	0	0.00	5	1	0.20			
		Drinking Water	5.	12	1	0.08	5	0	0.00	2	0	0.00	5	1	0.20			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	1300.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	1300.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	15.	12 &	0	0.00	5	0	0.00	2	0	0.00	5	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051	LEAD, TOTAL	Fresh Acute	82.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	15.	12 &	0	0.00	5	0	0.00	2	0	0.00	5	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	100.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	100.	15	0	0.00	8	0	0.00	2	0	0.00	5	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	87	0	0.00	29	0	0.00	30	0	0.00	28	0	0.00			
		Drinking Water	5000.	87	0	0.00	29	0	0.00	30	0	0.00	28	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	88	1	0.01	30	1	0.03	30	0	0.00	28	0	0.00			
		Drinking Water	5000.	88	0	0.00	30	0	0.00	30	0	0.00	28	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	50.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	50.	13	0	0.00	6	0	0.00	2	0	0.00	5	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	14	0	0.00	7	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	2.	14	0	0.00	7	0	0.00	2	0	0.00	5	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	14	0	0.00	7	0	0.00	2	0	0.00	5	0	0.00			
		Drinking Water	2.	14	0	0.00	7	0	0.00	2	0	0.00	5	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1977 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	23	21.5	19.457	27.	3.	33.521	5.79	11.4	16.5	24.	26.3
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	23	85.	87.	160.	58.	536.182	23.156	63.2	70.	95.	123.2
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	23	6.7	6.626	7.8	5.9	0.197	0.443	6.04	6.2	6.9	7.06
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	23	6.7	6.439	7.8	5.9	0.233	0.483	6.04	6.2	6.9	7.06
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	23	0.2	0.364	1.259	0.016	0.111	0.333	0.088	0.126	0.631	0.918
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	20	20.5	25.2	75.	9.	290.695	17.05	10.4	16.25	25.75	64.7
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	8	3.5	5.125	16.	2.	20.411	4.518	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	20	9.	10.6	54.	3.	109.095	10.445	5.	8.	10.	10.9
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	23	2280.	2651.522	6800.	620.	2034439.625	1426.338	982.	1700.	3640.	4430.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	23	490.	738.261	2210.	190.	448333.202	669.577	226.	310.	730.	2172.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	1	460.	460.	460.	460.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	1	110.	110.	110.	110.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	18	51.5	51.889	132.	12.	826.34	28.746	13.8	34.	65.75	87.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/03/77-09/24/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	23	21.	17.609	25.5	0.5	62.999	7.937	2.	12.	23.5	24.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	22	0.3	0.488	3.	0.04	0.396	0.629	0.1	0.175	0.625	1.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	21	95.	122.667	350.	61.	5583.433	74.722	65.2	70.5	142.5	232.
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	23	7.1	7.109	8.	6.5	0.093	0.304	6.74	6.9	7.2	7.43
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	23	7.1	7.018	8.	6.5	0.101	0.318	6.74	6.9	7.2	7.43
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	23	0.079	0.096	0.316	0.01	0.004	0.065	0.037	0.063	0.126	0.183
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	23	28.	33.609	118.	11.	597.067	24.435	12.2	16.	42.	66.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	22	4.	4.045	6.	1.	1.855	1.362	2.3	3.	5.	6.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	21	16.	18.143	38.	7.	86.029	9.275	7.	11.	25.5	32.8
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	23	1750.	2003.043	3730.	580.	536776.68	732.65	1080.	1570.	2460.	3122.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	23	310.	451.304	1130.	110.	91884.585	303.125	126.	220.	730.	922.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	3	160.	176.667	240.	130.	3233.333	56.862	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	3	110.	140.	220.	90.	4900.	70.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	3 ##	10.	16.667	30.	10.	133.333	11.547	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	3	20.	26.667	50.	10.	433.333	20.817	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	3	600.	673.333	920.	500.	48133.333	219.393	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	3	150.	146.667	200.	90.	3033.333	55.076	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	19	48.	46.368	70.	12.	191.135	13.825	30.	38.	54.	65.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/03/77-09/24/82	19	0.04	0.077	0.56	0.	0.016	0.125	0.	0.02	0.1	0.14

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Annual Analysis for 1979 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	9.9	12.317	26.	0.	81.076	9.004	0.3	5.625	20.875	25.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	12	0.6	2.645	20.	0.04	30.947	5.563	0.088	0.35	2.75	14.9
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	74.5	95.958	245.	2.5	4189.93	64.73	18.25	66.25	109.25	230.
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.95	6.975	7.5	6.6	0.078	0.28	6.63	6.725	7.25	7.44
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.947	6.902	7.5	6.6	0.084	0.29	6.63	6.725	7.25	7.44
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	0.113	0.125	0.251	0.032	0.005	0.069	0.037	0.057	0.189	0.236

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Annual Analysis for 1979 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	18.	25.5	84.	4.	556.636	23.593	4.9	8.5	34.	75.9
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	4.	4.667	13.	2.	8.424	2.902	2.	3.	5.	10.9
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	12	15.	21.417	54.	8.	274.811	16.577	8.	10.5	34.25	52.8
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	1935.	2576.667	5680.	340.	3701696.97	1923.979	400.	1077.5	4557.5	5656.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	370.	345.833	640.	150.	25353.788	159.229	159.	190.	445.	613.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	12	290.	507.5	1920.	80.	374638.636	612.077	80.	142.5	480.	1836.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	12	250.	370.	1370.	70.	151563.636	389.312	73.	130.	392.5	1235.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	11 ##	10.	11.818	20.	10.	16.364	4.045	10.	10.	10.	20.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	12	20.	24.167	50.	10.	208.333	14.434	10.	12.5	35.	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	12	740.	1228.583	4000.	143.	1415531.356	1189.761	187.1	335.	2062.5	3607.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	12	120.	109.167	160.	50.	1681.061	41.001	50.	72.5	147.5	157.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	12	40.	48.667	95.	5.	839.515	28.974	8.	32.25	81.5	91.7
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/03/77-09/24/82	12	0.06	0.203	0.82	0.01	0.089	0.298	0.016	0.04	0.275	0.817

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Annual Analysis for 1980 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	9.5	11.125	22.	0.	68.733	8.291	0.3	2.75	19.625	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	12	0.5	1.654	5.	0.05	3.628	1.905	0.065	0.125	3.	5.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	86.	84.75	113.	50.	330.205	18.172	53.6	74.	98.75	111.5
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	7.1	6.983	7.5	6.5	0.14	0.374	6.53	6.6	7.3	7.47
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	7.1	6.845	7.5	6.5	0.161	0.401	6.53	6.6	7.3	7.47
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	0.079	0.143	0.316	0.032	0.012	0.109	0.034	0.05	0.251	0.297
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	23.	23.083	36.	10.	74.447	8.628	10.6	15.	30.75	35.4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	4.5	4.917	8.	2.	3.72	1.929	2.3	3.25	6.	8.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	12	13.5	12.25	22.	4.	40.386	6.355	4.3	5.5	17.5	21.7
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	2400.	2280.	4100.	730.	856218.182	925.321	850.	1530.	2945.	3770.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	440.	551.667	1460.	140.	129342.424	359.642	161.	355.	785.	1274.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	12	385.	521.667	1760.	160.	195106.061	441.708	163.	197.5	687.5	1451.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	12	270.	407.5	1310.	130.	114111.364	337.804	133.	175.	580.	1124.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	12	15.	14.583	20.	5.	33.902	5.823	6.5	10.	20.	20.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	12	20.	23.333	30.	10.	42.424	6.513	13.	20.	30.	30.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	10	735.	1001.	2900.	300.	677165.556	822.901	300.	382.5	1380.	2787.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	12	62.5	72.917	180.	25.	2506.629	50.066	25.	30.	100.	165.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	9	48.	58.333	183.	18.	2577.5	50.769	18.	22.	69.5	183.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/03/77-09/24/82	9	0.07	0.423	2.5	0.01	0.643	0.802	0.01	0.01	0.475	2.5

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Annual Analysis for 1981 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	10.75	11.208	23.	0.	64.975	8.061	0.	3.5	18.	22.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	12	0.45	1.001	4.	0.01	1.678	1.295	0.037	0.2	1.7	3.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	90.	107.917	280.	65.	3338.447	57.779	66.5	76.25	118.75	233.5
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.85	6.858	7.3	6.5	0.074	0.271	6.5	6.55	7.1	7.24
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.847	6.783	7.3	6.5	0.08	0.283	6.5	6.55	7.1	7.24
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	0.142	0.165	0.316	0.05	0.01	0.1	0.059	0.079	0.287	0.316
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	22.	23.	56.	4.	167.818	12.954	6.4	14.5	28.5	48.8
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	6.	8.75	38.	3.	91.295	9.555	3.	4.	8.	30.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	11	18.	23.182	52.	11.	188.364	13.725	11.2	13.	26.	50.8
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	1415.	2024.167	8400.	680.	4452499.242	2110.095	722.	905.	2365.	6636.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	285.	850.	6940.	50.	3698454.545	1923.137	89.	202.5	485.	5017.

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Annual Analysis for 1981 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	12	405.	662.5	2090.	220.	410002.273	640.314	226.	305.	632.5	2039.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	12	340.	569.167	2090.	210.	324517.424	569.664	216.	275.	472.5	1874.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	12	20.	21.667	50.	10.	160.606	12.673	10.	10.	27.5	47.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	12	30.	37.5	110.	10.	675.	25.981	13.	20.	47.5	92.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	12	440.	485.833	950.	150.	52135.606	228.332	192.	307.5	642.5	902.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	12	60.	101.25	390.	25.	9955.114	99.775	32.5	50.	100.	327.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	12	28.	28.75	46.	11.	142.023	11.917	11.3	19.	40.25	44.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/03/77-09/24/82	12	0.035	0.078	0.4	0.	0.014	0.118	0.	0.01	0.13	0.334

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Annual Analysis for 1982 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	12.25	12.792	23.5	2.	50.021	7.073	2.3	8.125	20.	22.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	12	0.25	0.55	2.	0.1	0.343	0.585	0.1	0.125	1.	1.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	93.5	95.833	143.	65.	571.606	23.908	66.5	72.75	117.5	136.1
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.9	6.767	7.4	6.	0.264	0.514	6.	6.275	7.2	7.34
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.855	6.495	7.4	6.	0.344	0.587	6.	6.275	7.2	7.34
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	0.139	0.32	1.	0.04	0.131	0.361	0.047	0.063	0.552	1.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	20.5	24.333	48.	10.	159.697	12.637	10.6	12.5	37.	45.3
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	6.	7.167	12.	2.	10.515	3.243	2.6	4.5	10.	12.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	11	16.	16.909	24.	8.	23.491	4.847	8.8	12.	20.	23.6
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	2065.	2079.167	4480.	710.	1363190.152	1167.557	722.	857.5	2905.	4108.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	535.	560.	1290.	130.	142963.636	378.105	133.	162.5	880.	1200.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	12	310.	320.833	630.	110.	19935.606	141.194	134.	207.5	402.5	579.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	12	260.	265.	480.	100.	10390.909	101.936	124.	190.	330.	447.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	12	10.	14.167	30.	5.	58.333	7.638	5.	10.	20.	27.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	12	20.	27.083	70.	5.	347.538	18.642	6.5	12.5	37.5	64.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	12	635.	718.333	1570.	430.	96269.697	310.274	436.	482.5	855.	1366.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	12	50.	127.917	730.	25.	37415.72	193.431	32.5	50.	122.5	556.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	12	27.5	30.083	63.	12.	232.265	15.24	12.6	17.75	37.5	59.7
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/03/77-09/24/82	9	0.03	0.03	0.07	0.01	0.	0.021	0.01	0.01	0.045	0.07

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1983 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	11	12.	12.636	26.	2.	60.155	7.756	2.2	6.	18.5	24.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	11	0.7	0.699	2.	0.03	0.347	0.589	0.036	0.1	1.	1.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	11	80.	102.545	260.	65.	3097.273	55.653	66.	70.	113.	232.
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	11	6.8	6.755	7.8	5.8	0.355	0.596	5.86	6.2	7.2	7.72
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	11	6.8	6.428	7.8	5.8	0.472	0.687	5.86	6.2	7.2	7.72
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	11	0.158	0.373	1.585	0.016	0.226	0.475	0.021	0.063	0.631	1.427
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	11	22.	23.636	64.	12.	219.055	14.8	12.	14.	26.	57.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	4	5.	5.	8.	2.	6.667	2.582	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	11	14.	19.091	68.	10.	282.691	16.813	10.	10.	20.	59.2
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	11	1180.	1980.909	7460.	420.	4051089.091	2012.732	484.	750.	2610.	6582.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	11	200.	808.182	5930.	50.	2940296.364	1714.729	70.	170.	650.	4910.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	11	210.	433.636	1980.	70.	294405.455	542.591	78.	150.	530.	1714.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	11	180.	374.545	1850.	40.	258527.273	508.456	52.	100.	420.	1578.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	11	20.	19.091	40.	10.	89.091	9.439	10.	10.	20.	38.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	11	20.	19.091	30.	10.	69.091	8.312	10.	10.	30.	30.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	11	430.	437.273	820.	50.	68941.818	262.568	70.	200.	700.	806.

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Annual Analysis for 1983 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	11	50.	55.455	150.	10.	1582.273	39.778	13.	25.	70.	140.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	11	25.	36.	129.	9.	1118.	33.437	9.2	19.	39.	112.8

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1984 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	10.75	10.008	22.	0.1	54.91	7.41	0.22	1.875	15.75	21.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	10	0.8	0.891	2.	0.04	0.692	0.832	0.043	0.093	2.	2.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	69.	91.917	165.	60.	1460.447	38.216	60.	61.25	133.75	157.5
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.85	6.85	7.3	6.3	0.097	0.312	6.33	6.625	7.1	7.27
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.847	6.744	7.3	6.3	0.11	0.331	6.33	6.625	7.1	7.27
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	0.142	0.18	0.501	0.05	0.02	0.141	0.054	0.079	0.238	0.47
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	15.	25.333	54.	8.	311.515	17.65	8.6	12.	45.	52.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	12	15.	16.583	45.	8.	96.629	9.83	8.6	10.	19.5	37.5
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	1345.	1560.	3490.	500.	1005181.818	1002.588	509.	592.5	2487.5	3229.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	300.	559.167	1570.	110.	290826.515	539.283	113.	162.5	977.5	1549.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	12	225.	319.167	850.	100.	50844.697	225.488	112.	170.	507.5	751.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	12	210.	300.833	820.	140.	42171.97	205.358	143.	152.5	455.	715.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	12	20.	28.333	90.	10.	869.697	29.491	10.	10.	27.5	90.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	12	30.	62.5	330.	10.	8002.273	89.455	13.	20.	85.	261.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	12	350.	400.833	1030.	140.	69499.242	263.627	146.	200.	515.	946.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	12	50.	49.583	100.	25.	738.447	27.174	25.	25.	72.5	97.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	12	20.	24.75	63.	1.	305.295	17.473	2.8	11.25	37.	57.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1985 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	10	14.	13.4	25.	1.	64.267	8.017	1.3	5.5	20.25	24.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	10	77.5	82.5	125.	55.	412.5	20.31	56.	68.75	93.75	123.
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	10	7.	7.01	7.2	6.7	0.021	0.145	6.72	6.975	7.125	7.2
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	10	7.	6.987	7.2	6.7	0.022	0.147	6.72	6.975	7.125	7.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	10	0.1	0.103	0.2	0.063	0.002	0.039	0.063	0.075	0.106	0.192
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	10	22.	21.8	36.	8.	75.956	8.715	8.4	13.5	28.5	35.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	10	13.5	15.	25.	5.	56.667	7.528	5.1	9.	23.25	24.9
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	10	1535.	1579.	3760.	420.	897432.222	947.329	460.	857.5	1947.5	3602.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	10	615.	744.	1700.	170.	318337.778	564.214	176.	267.5	1285.	1690.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	10	330.	381.	1040.	110.	76254.444	276.142	113.	162.5	510.	993.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	9	250.	327.778	870.	120.	56694.444	238.106	120.	145.	425.	870.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	10	20.	15.5	20.	5.	35.833	5.986	5.5	10.	20.	20.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	10	20.	19.5	40.	5.	146.944	12.122	5.5	10.	25.	40.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	10	220.	218.5	430.	25.	15733.611	125.434	28.5	120.	295.	424.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	10	100.	83.	150.	25.	1962.222	44.297	25.5	33.75	120.	147.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	10	19.5	18.4	25.	9.	29.6	5.441	9.2	14.75	24.	24.9

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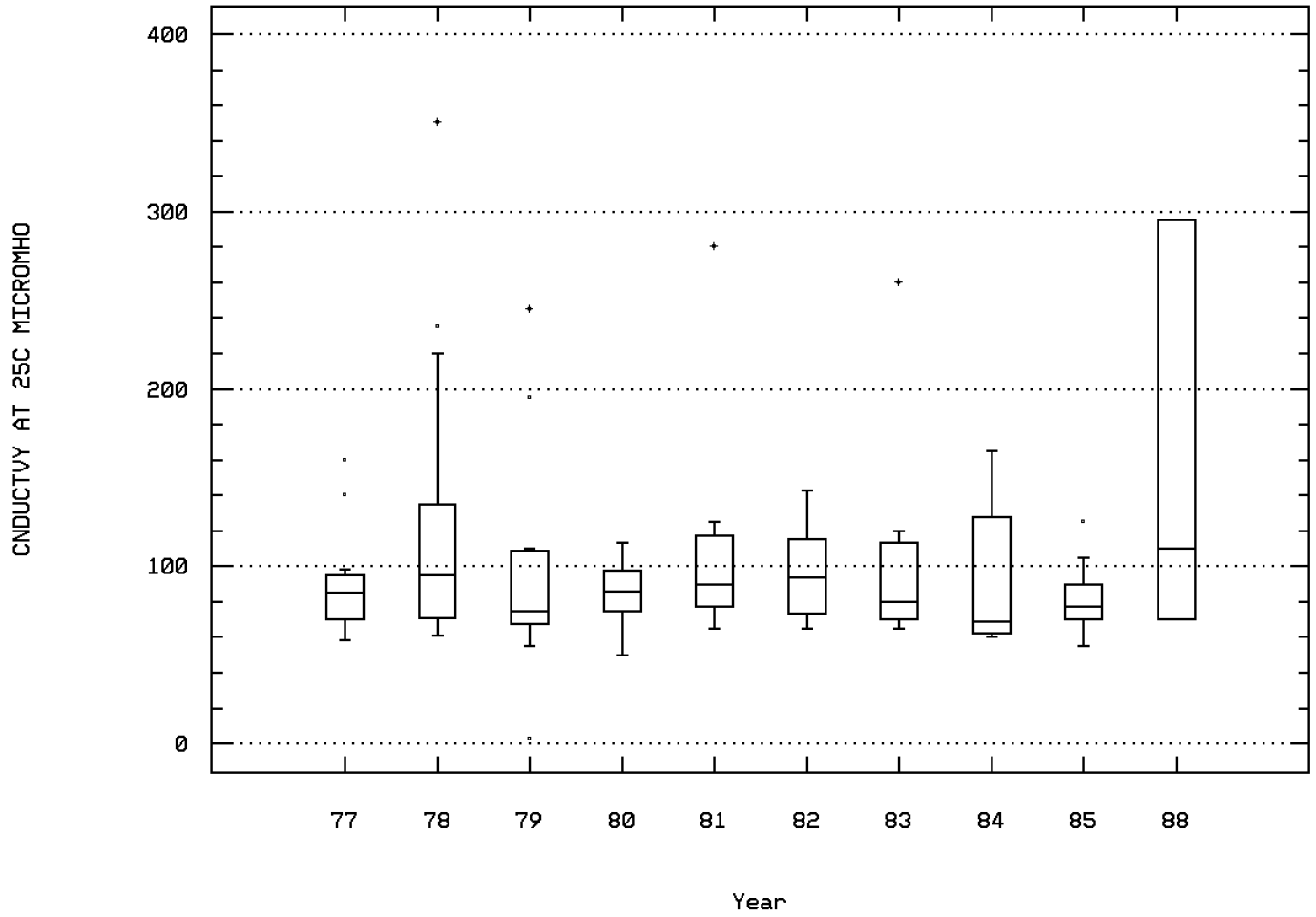
Annual Analysis for 1988 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	3	16.	14.667	18.	10.	17.333	4.163	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	3	0.5	0.435	0.8	0.005	0.161	0.401	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	3	110.	158.333	295.	70.	14408.333	120.035	**	**	**	**
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	3	6.9	6.823	7.	6.57	0.051	0.225	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	3	6.9	6.782	7.	6.57	0.053	0.231	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	3	0.126	0.165	0.269	0.1	0.008	0.091	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	3	21.	43.667	93.	17.	1829.333	42.771	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	3	1300.	3197.	7370.	921.	13096357.	3618.889	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	3	471.	1607.	4190.	160.	5028097.	2242.342	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	3	164.	869.667	2340.	105.	1622280.333	1273.688	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	3	128.	823.	2250.	91.	1527589.	1235.957	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	3	27.	21.667	33.	5.	217.333	14.742	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	3 ##	5.	12.333	27.	5.	161.333	12.702	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	3	755.	802.	1410.	241.	343297.	585.916	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	3	168.	158.833	241.	67.5	7588.583	87.112	**	**	**	**

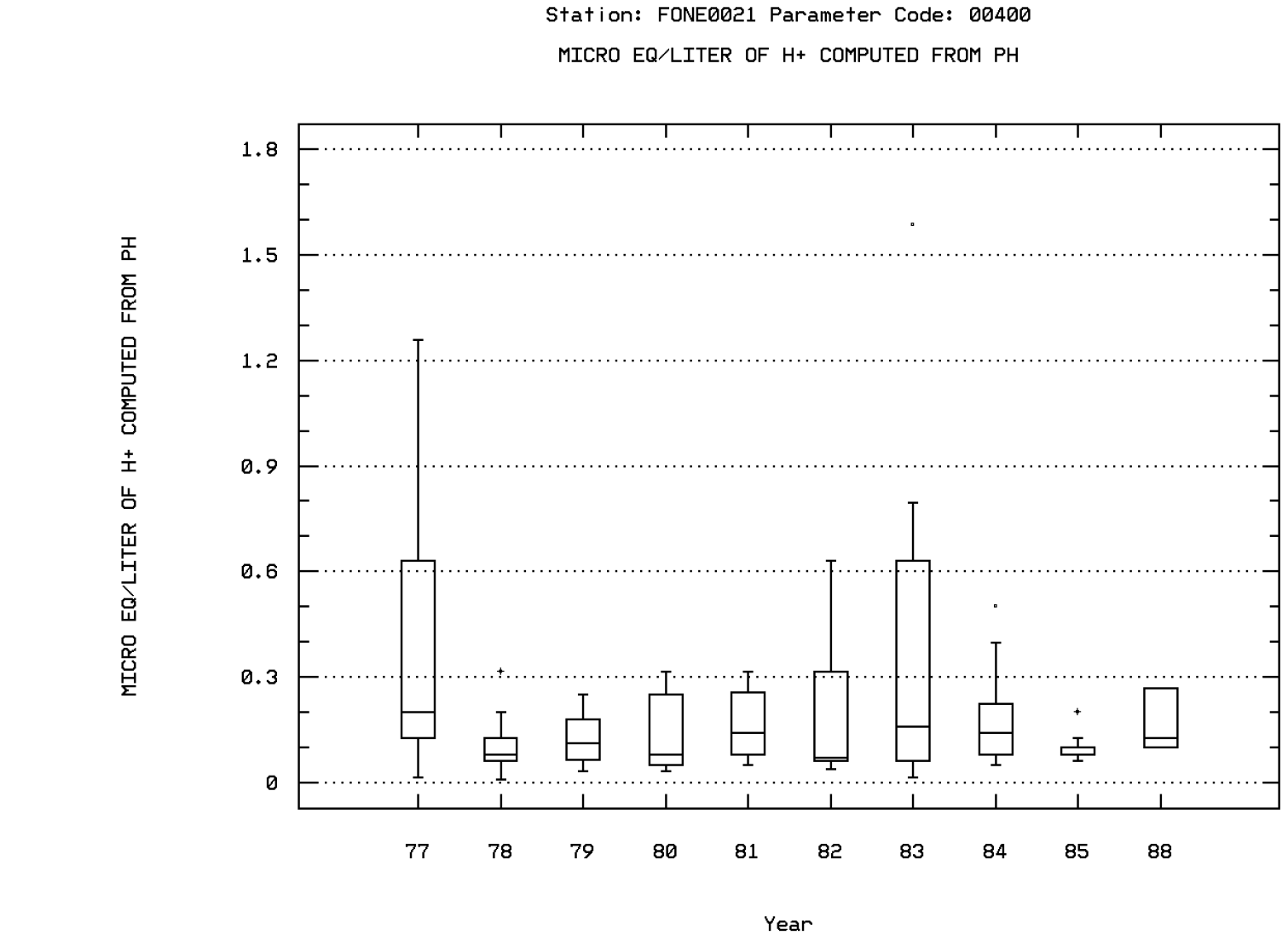
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0021 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



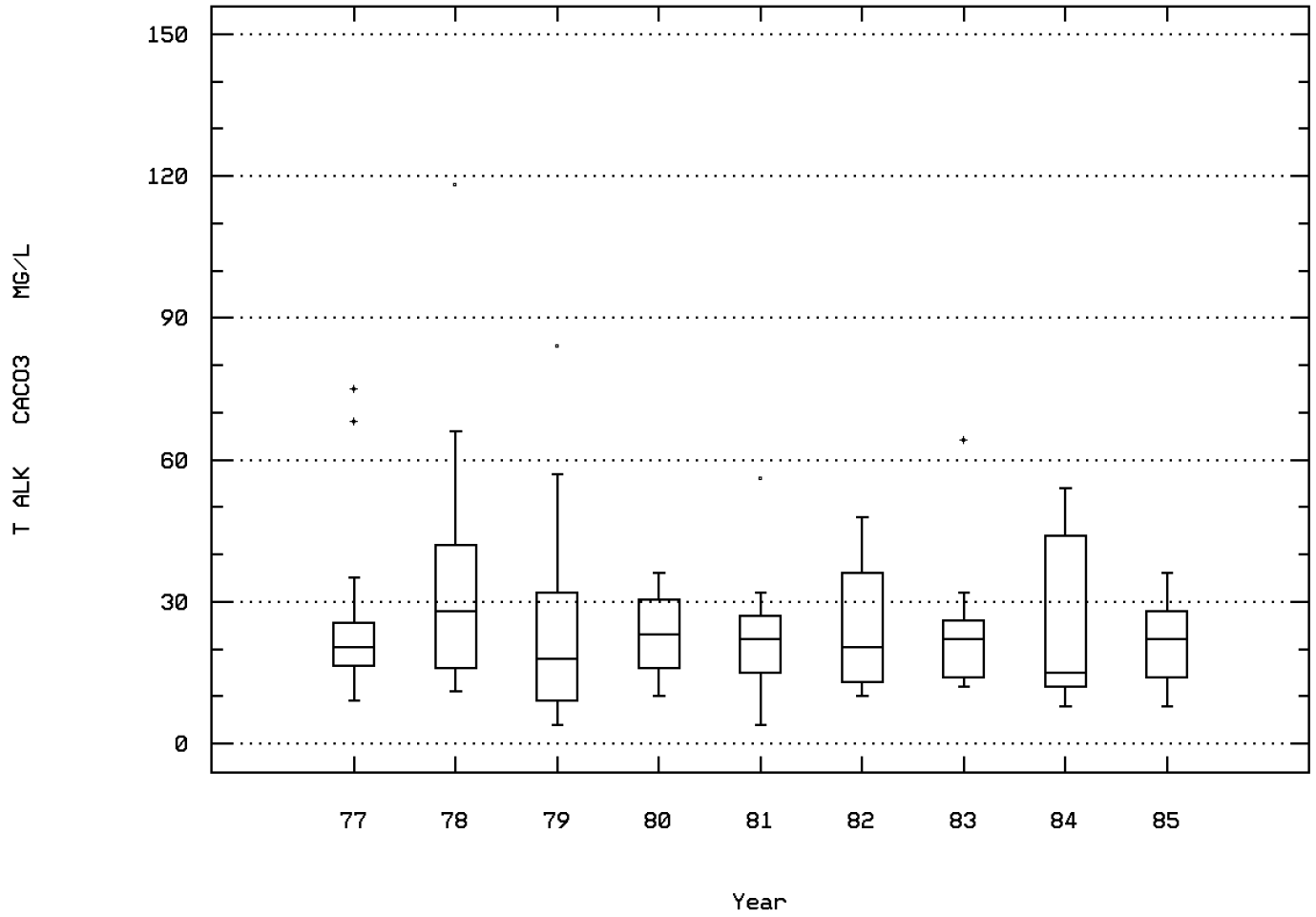
STONY FORK TRIB #4 (N OF DELTA SITE), P



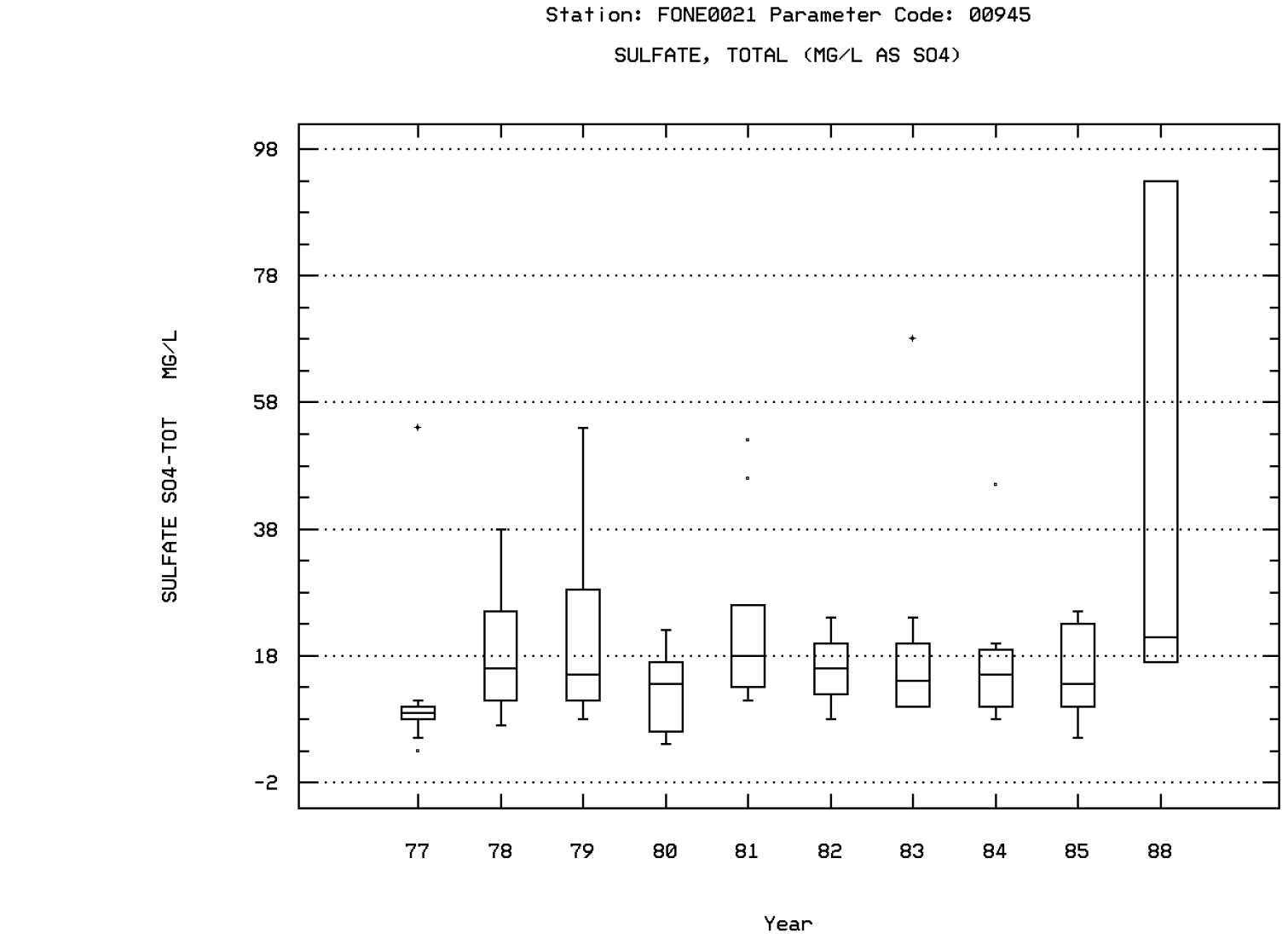
STONY FORK TRIB #4 (N OF DELTA SITE), P

Station: FONE0021 Parameter Code: 00410

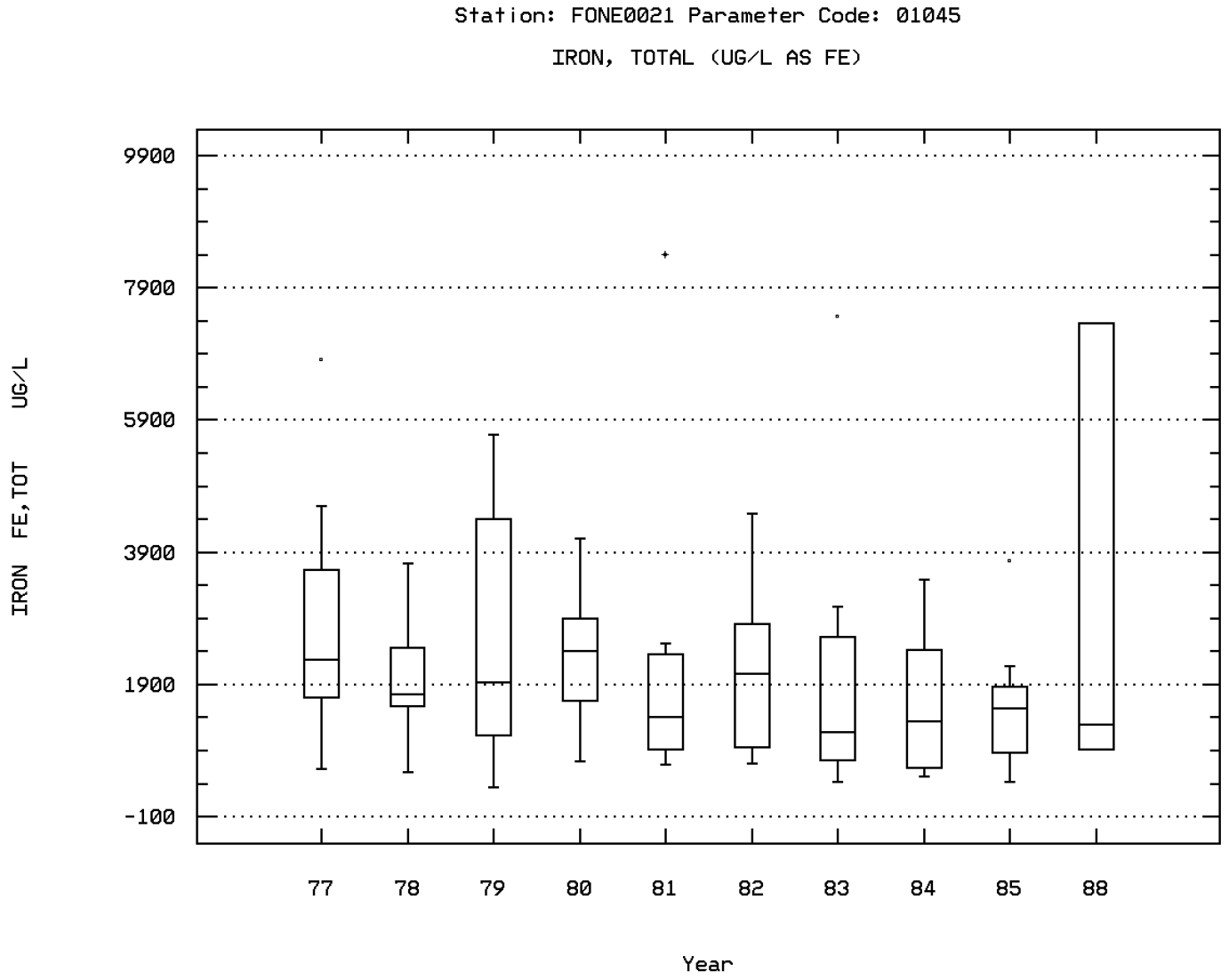
ALKALINITY, TOTAL (MG/L AS CACO3)



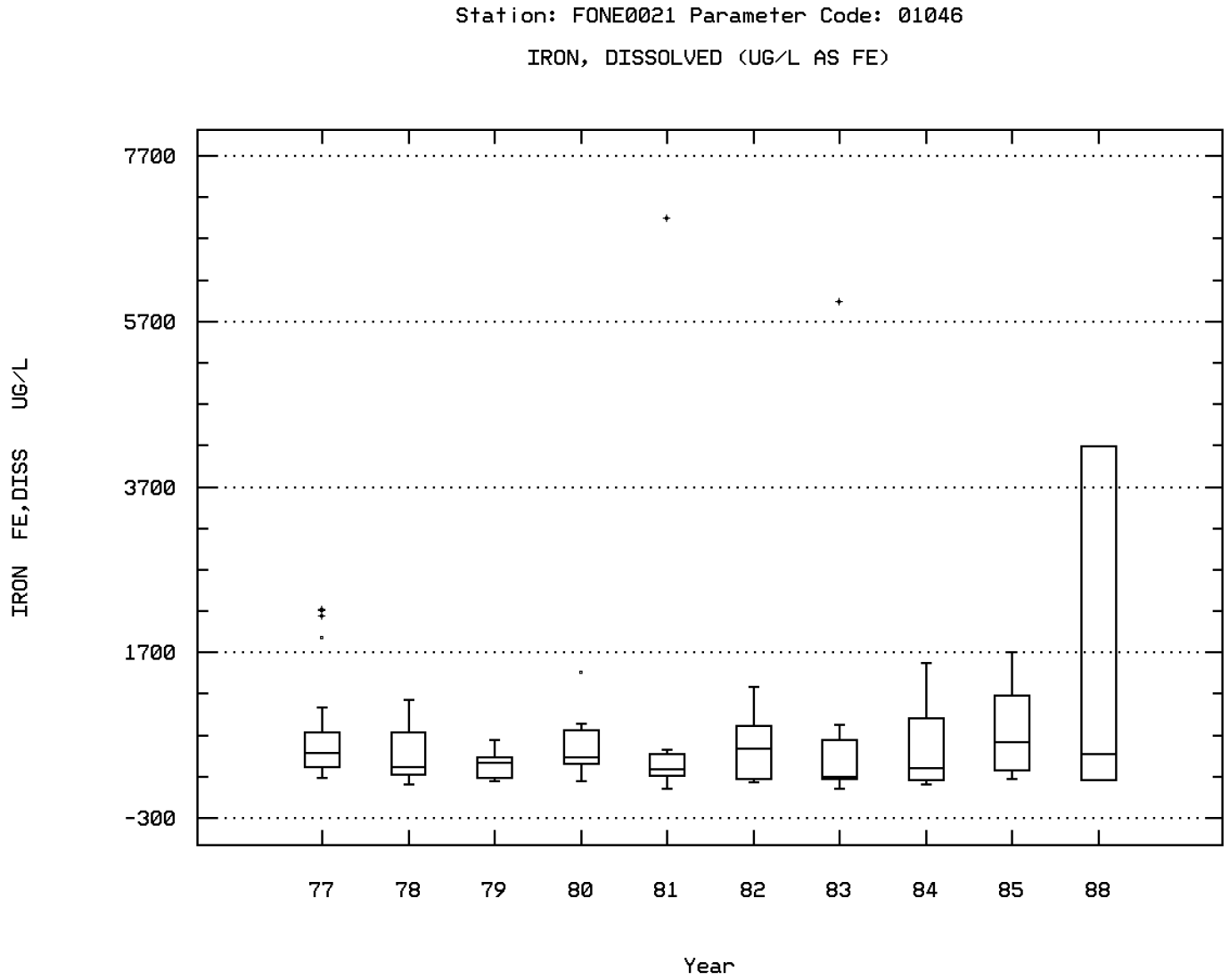
STONY FORK TRIB #4 (N OF DELTA SITE), P



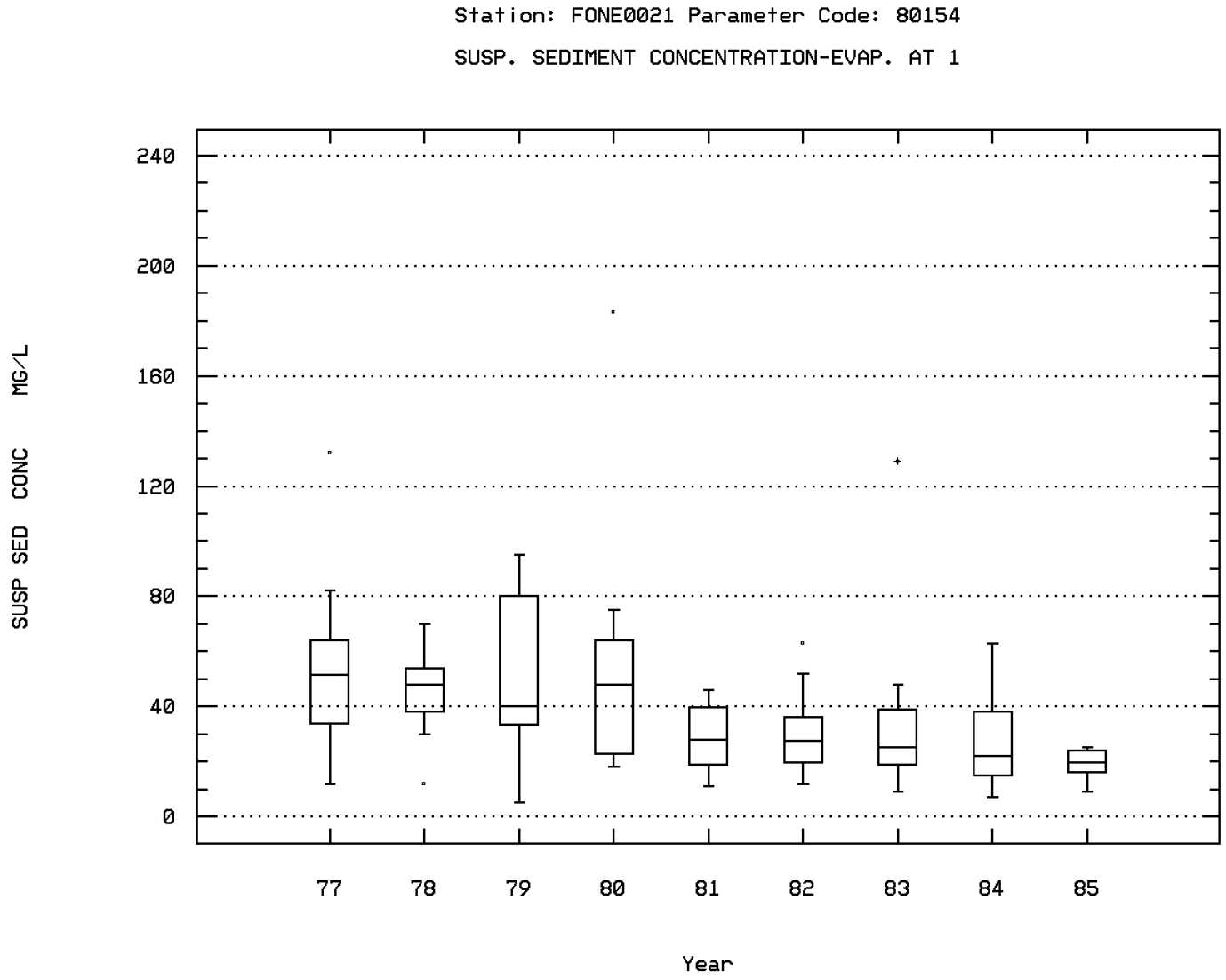
STONY FORK TRIB #4 (N OF DELTA SITE), P



STONY FORK TRIB #4 (N OF DELTA SITE), P



STONY FORK TRIB #4 (N OF DELTA SITE), P



STONY FORK TRIB #4 (N OF DELTA SITE), P

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	49	19.5	18.7	26.5	9.3	25.702	5.07	10.5	14.5	23.	25.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	34	0.2	0.476	5.	0.01	0.925	0.962	0.04	0.1	0.35	1.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	47	113.	131.277	350.	71.	3447.596	58.716	84.2	95.	140.	225.
00400	PH (STANDARD UNITS)	03/30/77-09/21/88	49	7.	6.876	8.	5.8	0.203	0.45	6.2	6.65	7.2	7.3
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	49	7.	6.615	8.	5.8	0.272	0.521	6.2	6.65	7.2	7.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	49	0.1	0.242	1.585	0.01	0.112	0.335	0.05	0.063	0.225	0.631
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	45	32.	36.733	118.	7.	382.2	19.55	19.2	24.	42.	64.8
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	44	15.5	19.659	68.	3.	225.579	15.019	5.	10.	24.	47.5
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	49	2320.	2703.878	8400.	860.	2615624.235	1617.289	1300.	1680.	3035.	4720.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	49	520.	901.245	6940.	110.	1599030.522	1264.528	190.	320.	970.	1870.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	30	495.	608.8	2090.	100.	306426.648	553.558	133.4	235.	652.5	1892.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	29	400.	496.483	2090.	70.	240247.33	490.15	128.	200.	485.	1370.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	29	10.	14.655	40.	5.	62.377	7.898	5.	10.	20.	20.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	30	20.	31.167	330.	5.	3349.454	57.874	5.5	10.	30.	50.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	30	455.	656.7	2690.	60.	379056.355	615.676	151.	247.75	825.	1718.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	30	65.	111.2	730.	25.	19711.821	140.399	25.	33.75	115.	236.9
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	44	38.	42.273	132.	9.	717.459	26.785	15.	23.5	51.75	80.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	34	3.	3.576	12.	0.	9.632	3.104	0.	1.	6.	8.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	27	0.7	1.787	20.	0.05	14.662	3.829	0.18	0.4	1.	4.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	34	75.	78.985	235.	2.5	1169.098	34.192	55.	65.	81.	107.5
00400	PH (STANDARD UNITS)	03/30/77-09/21/88	34	6.95	6.879	7.5	6.1	0.123	0.351	6.35	6.675	7.125	7.35
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	34	6.947	6.732	7.5	6.1	0.145	0.381	6.35	6.675	7.125	7.35
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	34	0.113	0.185	0.794	0.032	0.032	0.179	0.045	0.075	0.212	0.474
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	34	15.	20.794	84.	4.	274.047	16.554	9.	12.	22.25	43.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	33	15.	16.545	54.	7.	83.443	9.135	8.	11.5	19.	24.6
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	34	895.	1271.471	5680.	340.	1260309.893	1122.635	460.	610.	1430.	2735.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	34	205.	306.176	1460.	50.	71721.301	267.808	125.	167.5	355.	625.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	30	235.	301.333	1760.	70.	93101.609	305.126	83.	167.5	360.	453.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	30	215.	261.667	1310.	40.	53566.092	231.443	82.	147.5	292.5	424.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	30	20.	18.333	90.	5.	233.333	15.275	10.	10.	20.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	30	25.	32.333	100.	10.	521.954	22.846	10.	20.	40.	68.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	28	440.	636.357	4000.	25.	708643.053	841.809	131.	215.	625.	1118.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	30	50.	73.667	180.	25.	2027.471	45.027	25.	43.75	112.5	149.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	29	16.	27.448	183.	1.	1230.613	35.08	7.	11.	30.	46.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	47	18.	17.468	27.	6.	30.58	5.53	9.9	12.	22.	24.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-09/21/88	33	0.6	1.043	3.	0.005	0.965	0.983	0.14	0.25	2.	3.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	47	73.	82.255	295.	58.	1207.673	34.752	62.	66.	87.	103.6
00400	PH (STANDARD UNITS)	03/30/77-09/21/88	47	6.9	6.876	7.8	6.	0.153	0.391	6.38	6.6	7.1	7.36
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	47	6.9	6.707	7.8	6.	0.182	0.427	6.38	6.6	7.1	7.36
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	47	0.126	0.196	1.	0.016	0.039	0.198	0.044	0.079	0.251	0.419
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	45	17.	18.889	50.	4.	70.374	8.389	10.	14.	22.5	30.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	46	11.	15.587	93.	5.	192.292	13.867	7.7	10.	18.5	24.3
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	47	2200.	2228.638	7370.	680.	1473243.888	1213.773	820.	1415.	2780.	3736.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	47	450.	602.979	4190.	50.	459338.76	677.745	158.	250.	730.	1204.
01055	MANGANESE, TOTAL (UG/L AS MN)	10/04/77-09/21/88	28	265.	446.25	2340.	100.	274267.824	523.706	109.5	170.	455.	1128.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/04/77-09/21/88	28	240.	383.25	2250.	91.	208741.676	456.883	100.	142.5	367.5	920.
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/77-09/21/88	28	20.	21.071	90.	10.	284.661	16.872	10.	10.	20.	41.
01092	ZINC, TOTAL (UG/L AS ZN)	10/04/77-09/21/88	28	20.	25.786	110.	5.	386.545	19.661	10.	12.5	30.	41.
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/04/77-09/21/88	28	590.	656.25	1770.	200.	162327.083	402.898	265.	355.	827.5	1426.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/77-09/21/88	28	90.	87.518	180.	10.	2297.879	47.936	29.5	50.	122.5	160.8
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/30/85	42	43.	44.071	82.	16.	317.97	17.832	19.3	25.75	57.	68.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: FONE0022

NPS Station ID: FONE0022 | LAT/LON: 39.780004/ -79.594170 | Agency: 21PAMR | Date Created: 07/25/77
Location: STONY FORK TRIB NORTH OF DELTA | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): SM010730
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MONONGAHELA RIVER | ECO Region:
RF1 Index: 05020004 | RF1 Mile Point: 0.000 | Distance from RF1: 20.00 | On/Off RF1:
RF3 Index: 05020004024800.28 | RF3 Mile Point: 0.92 | Distance from RF3: 0.02 | On/Off RF3:
Description:
STONY FORK TRIBUTARY NORTH OF THE DELTA MINING SITE (3376SM4). AT CULVERT UNDER ROUTE 381 BELOW FARM POND.

Parameter Inventory for Station: FONE0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/02/77	6	19.25	18.833	24.	11.	24.267	4.926	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-08/03/77	3	0.05	0.117	0.3	0.001	0.026	0.16	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/77-09/02/77	6	83.	90.833	160.	58.	1339.367	36.597	**	**	**	**
00400	PH (STANDARD UNITS)	03/30/77-09/02/77	6	6.95	7.05	7.8	6.7	0.155	0.394	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/02/77	6	6.947	6.946	7.8	6.7	0.168	0.41	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/02/77	6	0.113	0.113	0.2	0.016	0.004	0.064	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/30/77-09/02/77	6	6.8	6.717	6.9	6.4	0.05	0.223	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/30/77-09/02/77	6	6.789	6.667	6.9	6.4	0.053	0.229	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/02/77	6	0.163	0.215	0.398	0.126	0.014	0.116	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/02/77	6	21.	27.5	68.	9.	447.5	21.154	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	5	20.	28.4	64.	13.	432.3	20.792	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	5	3.	5.8	16.	2.	33.7	5.805	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/02/77	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/02/77	6	8.	15.	54.	3.	369.6	19.225	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/02/77	6	2830.	2865.833	4590.	1415.	1702804.167	1304.915	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	6	510.	741.667	2210.	280.	532016.667	729.395	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	05/03/77-09/02/77	3	34.	29.333	40.	14.	185.333	13.614	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00	2	0	0.00				4	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	6	2	0.33	2	1	0.50				4	1	0.25			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00				4	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0023

NPS Station ID: FONE0023
LAT/LON: 39.780837/ -79.575282
Agency: 112WRD
Date Created: 06/29/78
Location: STONY FORK NEAR FARMINGTON, PA
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070415
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 3.10
On/Off RF1:
RF3 Index: 05020004002800.00
RF3 Mile Point: 0.25
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	118	12.	10.914	24.	0.	45.069	6.713	0.5	5.875	16.625	19.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	92	3.	7.12	90.	0.1	171.861	13.11	0.43	1.	7.	15.7
00065	STAGE, STREAM (FEET)	10/04/77-04/29/82	29	1.6	2.07	5.9	0.96	1.534	1.239	1.04	1.265	2.6	4.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	120	77.5	107.725	460.	25.	6176.05	78.588	41.1	48.	143.75	209.
00400	PH (STANDARD UNITS)	03/30/77-09/21/88	120	5.4	5.467	7.4	4.1	0.597	0.772	4.5	4.725	6.1	6.5
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	120	5.4	4.957	7.4	4.1	0.859	0.927	4.5	4.725	6.1	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	120	3.981	11.036	79.433	0.04	232.8	15.258	0.316	0.794	18.927	31.623
00403	PH, LAB, STANDARD UNITS SU	12/29/87-09/21/88	4	4.7	4.75	5.	4.6	0.03	0.173	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/29/87-09/21/88	4	4.7	4.727	5.	4.6	0.031	0.175	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/29/87-09/21/88	4	19.953	18.756	25.119	10.	40.006	6.325	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	112	2.	3.098	15.	0.	9.508	3.084	0.	1.	4.	6.7
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	12/29/87-09/21/88	4	6.	6.5	8.	6.	1.	1.	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	75	6.	11.8	52.	1.	135.486	11.64	3.	4.	18.	27.6
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/06/78	27	0.5	0.685	2.	0.	0.599	0.774	0.	0.	1.	2.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/29/87-09/21/88	4	119.	120.5	190.	54.	3086.333	55.555	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/29/87-09/21/88	4 ##	4.5	7.	18.	1.	64.667	8.042	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-09/21/88	4	11.1	12.35	21.	6.2	48.217	6.944	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	1	14.9	14.9	14.9	14.9	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-09/21/88	4	4.05	4.8	8.5	2.6	7.593	2.756	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	1	1.54	1.54	1.54	1.54	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-09/21/88	4	1.275	1.243	1.43	0.99	0.04	0.199	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-09/21/88	4	1.475	1.83	3.26	1.11	0.939	0.969	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	1	3.26	3.26	3.26	3.26	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/21/88	3	2.	2.333	3.	2.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	112	20.	32.705	190.	3.	1101.075	33.182	5.	8.	47.25	76.8
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/21/88	3 ##	0.05	0.077	0.13	0.05	0.002	0.046	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/21/88	14 ##	5.	3.179	5.	0.5	4.908	2.215	0.5	0.5	5.	5.
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/21/88	14 ##	5.	3.214	5.	0.5	4.72	2.173	0.5	0.5	5.	5.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	6.667	10.	5.	8.333	2.887	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	1 ##	125.	125.	125.	125.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/28/85	13 ##	1.	1.308	5.	0.	2.147	1.465	0.2	0.5	1.	4.6
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/28/85	13 ##	1.	1.769	9.	0.5	5.609	2.368	0.5	0.5	1.5	7.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/21/88	16 ##	5.	7.563	25.	1.	29.063	5.391	3.8	5.	10.	14.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/21/88	16 ##	7.5	8.25	25.	2.	27.667	5.26	4.1	5.	10.	14.5
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-09/21/88	4 ##	1.	15.25	58.	1.	812.25	28.5	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-09/21/88	4 ##	1.	15.25	58.	1.	812.25	28.5	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/21/88	16 ##	10.	8.313	18.	5.	12.896	3.591	5.	5.	10.	12.4
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/21/88	16 ##	10.	8.938	18.	5.	11.396	3.376	5.	5.	10.	12.4
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	117	620.	925.932	5860.	160.	912831.323	955.422	280.	395.	1020.	1796.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	117	320.	413.145	4200.	60.	192398.746	438.633	110.	170.	535.	832.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/21/88	14 ##	5.	4.607	25.	0.	39.007	6.246	0.25	1.	5.	15.
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/21/88	14 ##	5.	5.286	25.	1.	34.835	5.902	1.	2.	5.	15.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	88	1140.	1452.352	5790.	50.	1768604.254	1329.889	84.5	240.	2355.	3631.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	86	1190.	1419.651	5330.	50.	1644744.583	1282.476	80.	200.	2245.	3609.
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/21/88	16	15.	21.063	80.	5.	409.396	20.234	5.	10.	20.	59.
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/21/88	16	20.	30.438	100.	5.	904.396	30.073	8.5	10.	41.5	86.
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	1	47.	47.	47.	47.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	1	53.	53.	53.	53.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	86	80.	85.837	440.	5.	4014.985	63.364	20.	30.	120.	150.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	89	100.	98.921	450.	20.	4498.005	67.067	20.	40.	140.	180.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	86	1720.	1837.465	6310.	50.	2074624.605	1440.356	197.	375.	2717.5	3729.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	87	1370.	1425.08	5370.	5.	1698810.261	1303.384	74.	110.	2060.	3318.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-09/21/88	14 ##	5.	4.857	5.	3.	0.286	0.535	4.	5.	5.	5.
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-09/21/88	14 ##	5.	6.857	33.	3.	56.901	7.543	4.	5.	5.	19.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/29/87-09/21/88	4	29.	29.	36.	22.	49.333	7.024	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	36	0.5	0.539	1.8	0.1	0.11	0.332	0.24	0.3	0.6	1.03
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/21/88	15 ##	0.5	0.417	0.5	0.25	0.015	0.122	0.25	0.25	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/21/88	15 ##	0.5	0.417	0.5	0.25	0.015	0.122	0.25	0.25	0.5	0.5
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	109	7.	22.624	260.	1.	2172.57	46.611	1.	4.	17.5	61.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-09/24/82	64	0.05	2.338	43.	0.	53.232	7.296	0.	0.01	0.525	6.25

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	120	0	0.00	44	0	0.00	39	0	0.00	37	0	0.00			
		Other-Lo Lim.	6.5	120	111	0.93	44	40	0.91	39	36	0.92	37	35	0.95			
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00	1	1	1.00	1	1	1.00	2	2	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	112	0	0.00	40	0	0.00	37	0	0.00	35	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00				1	0	0.00	2	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	1 &	1	1.00	1	1	1.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	12 &	1	0.08	5	1	0.20	2	0	0.00	5	0	0.00			
		Drinking Water	5.	12 &	0	0.00	5	0	0.00	2	0	0.00	5	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	13	2	0.15	5	1	0.20	2	0	0.00	6	1	0.17			
		Drinking Water	5.	13	1	0.08	5	0	0.00	2	0	0.00	6	1	0.17			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	16	1	0.06	8	1	0.13	2	0	0.00	6	0	0.00			
		Drinking Water	1300.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	1	0.06	8	1	0.13	2	0	0.00	6	0	0.00			
		Drinking Water	1300.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	15.	13 &	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051	LEAD, TOTAL	Fresh Acute	82.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	15.	13 &	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	100.	16	1	0.06	8	1	0.13	2	0	0.00	6	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	86	22	0.26	27	12	0.44	31	2	0.06	28	8	0.29			
		Drinking Water	5000.	86	0	0.00	27	0	0.00	31	0	0.00	28	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	89	33	0.37	30	15	0.50	30	6	0.20	29	12	0.41			
		Drinking Water	5000.	89	0	0.00	30	0	0.00	30	0	0.00	29	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	14	1	0.07	6	0	0.00	2	0	0.00	6	1	0.17			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	2.	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	2.	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1977 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	17	17.	16.647	24.	5.5	19.368	4.401	10.7	13.75	20.25	22.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	2	6.	6.	7.	5.	2.	1.414	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	18	47.	48.556	65.	38.	60.026	7.748	39.8	42.75	53.5	63.2
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	18	6.2	6.108	6.8	5.2	0.229	0.478	5.47	5.675	6.5	6.755
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	18	6.155	5.865	6.8	5.2	0.292	0.54	5.47	5.675	6.5	6.755
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	18	0.699	1.364	6.31	0.158	2.437	1.561	0.176	0.316	2.124	3.477
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	14	6.	7.143	15.	3.	13.67	3.697	3.5	4.75	8.75	14.5
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	8	3.	3.625	8.	2.	3.982	1.996	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	14	6.	7.214	20.	4.	16.335	4.042	4.	5.	8.	15.
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	17	890.	992.059	2390.	350.	371159.559	609.229	378.	485.	1090.	2142.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	17	330.	439.706	1110.	140.	78801.471	280.716	148.	230.	615.	982.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	2	77.5	77.5	85.	70.	112.5	10.607	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	2	75.	75.	80.	70.	50.	7.071	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	2	35.5	35.5	51.	20.	480.5	21.92	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	2	26.	26.	32.	20.	72.	8.485	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	2	131.	131.	210.	52.	12482.	111.723	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	2	71.	71.	110.	32.	3042.	55.154	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	15	8.	14.067	56.	2.	192.924	13.89	2.6	6.	22.	38.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-09/24/82	5	0.02	0.028	0.06	0.	0.001	0.026	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	17	5.5	6.088	17.	0.	37.945	6.16	0.4	0.5	13.	15.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	17	3.	18.2	90.	0.4	688.13	26.232	0.88	1.	30.	66.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	17	45.	45.412	58.	37.	24.882	4.988	39.4	42.	48.	52.4
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	17	5.9	5.95	6.9	5.2	0.247	0.497	5.2	5.5	6.35	6.66
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	17	5.9	5.715	6.9	5.2	0.306	0.553	5.2	5.5	6.35	6.66
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	17	1.259	1.928	6.31	0.126	3.959	1.99	0.226	0.474	3.162	6.31
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	17	3.	3.235	9.	1.	3.691	1.921	1.	2.	4.	6.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	17	4.	4.529	7.	1.	2.515	1.586	2.6	3.5	6.	7.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	17	7.	8.059	16.	3.	12.934	3.596	3.8	6.	10.	15.2
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	17	570.	1600.	5860.	220.	3309462.5	1819.193	228.	445.	2265.	5156.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	17	150.	171.765	500.	70.	10527.941	102.606	78.	115.	180.	348.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	4	80.	80.	100.	60.	333.333	18.257	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	4	80.	77.5	90.	60.	225.	15.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	4 ##	10.	25.	70.	10.	900.	30.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	4	25.	35.	70.	20.	566.667	23.805	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	3	200.	263.333	460.	130.	30233.333	173.877	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	3	150.	133.333	200.	50.	5833.333	76.376	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	15	21.	71.533	260.	2.	7784.552	88.23	2.	7.	110.	247.4
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-09/24/82	15	0.51	7.691	43.	0.	179.236	13.388	0.006	0.02	9.7	38.2

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	8.9	10.192	21.	0.	42.214	6.497	0.15	6.625	15.75	19.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	12	3.	5.233	22.	0.3	38.699	6.221	0.36	1.	8.5	18.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	44.	43.5	56.	25.	59.545	7.717	29.5	40.	49.5	54.2
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.25	6.108	6.5	5.6	0.092	0.303	5.63	5.775	6.3	6.47
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.247	6.005	6.5	5.6	0.103	0.321	5.63	5.775	6.3	6.47

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	0.566	0.988	2.512	0.316	0.566	0.752	0.341	0.501	1.746	2.357
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	4.	4.25	12.	1.	8.205	2.864	1.3	2.25	4.	10.5
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	11	4.	4.818	11.	2.	5.564	2.359	2.2	4.	6.	10.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	12	8.	8.	13.	4.	7.091	2.663	4.3	5.5	9.	12.7
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	400.	659.583	1720.	160.	289774.811	538.307	167.5	265.	970.	1675.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	130.	200.	530.	70.	22800.	150.997	70.	102.5	315.	497.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	90.	130.833	320.	50.	6608.333	81.292	56.	80.	195.	290.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	80.	111.667	200.	50.	3015.152	54.91	56.	72.5	172.5	200.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	11	20.	20.	30.	10.	40.	6.325	10.	20.	20.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	12	30.	27.5	40.	20.	56.818	7.538	20.	20.	30.	40.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	12	250.	320.	1130.	50.	91800.	302.985	59.	135.	327.5	992.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	91.5	91.333	143.	50.	721.515	26.861	50.	80.	107.5	136.1
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	9.	17.333	64.	2.	360.788	18.994	2.6	5.	23.75	58.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-09/24/82	12	0.075	0.447	3.8	0.	1.152	1.074	0.003	0.018	0.368	2.846

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	9.75	9.333	19.	0.	44.197	6.648	0.3	2.5	15.375	18.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	12	3.	6.967	26.	0.3	72.779	8.531	0.36	0.85	10.75	24.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	61.5	63.75	84.	52.	111.659	10.567	52.	54.25	73.25	82.2
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.15	6.267	7.4	5.4	0.235	0.485	5.58	6.025	6.55	7.19
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	6.147	6.057	7.4	5.4	0.283	0.532	5.58	6.025	6.55	7.19
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	0.713	0.876	3.981	0.04	1.053	1.026	0.088	0.288	0.949	3.087
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	4.	4.667	12.	2.	6.242	2.498	2.3	4.	4.75	10.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	5.5	5.583	10.	4.	2.629	1.621	4.	4.25	6.	8.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	11	14.	13.273	19.	4.	24.018	4.901	4.8	9.	17.	18.8
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	10	415.	885.5	2550.	285.	588024.722	766.828	291.5	357.5	1532.5	2455.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	10	205.	197.	410.	60.	11823.333	108.735	61.	85.	267.5	398.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	10	290.	315.	660.	110.	31450.	177.341	114.	187.5	392.5	652.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	10	235.	278.	590.	110.	29573.333	171.969	112.	137.5	367.5	588.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	10	30.	31.	40.	20.	32.222	5.676	21.	30.	32.5	40.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	10	40.	40.	60.	20.	155.556	12.472	21.	30.	50.	59.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	9	360.	630.	1640.	190.	264725.	514.514	190.	275.	1095.	1640.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	10	90.	78.	180.	5.	3567.778	59.731	5.5	21.25	112.5	177.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	9.	48.818	224.	2.	5726.564	75.674	2.2	7.	76.	211.8
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-09/24/82	11	0.05	2.242	16.	0.	23.055	4.802	0.	0.01	3.3	13.66

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Annual Analysis for 1981 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	11	9.	10.227	20.5	0.	52.768	7.264	0.	3.	18.	20.2
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	12	2.	4.883	16.	0.1	31.634	5.624	0.28	0.85	8.25	15.7
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	127.5	140.417	270.	55.	3574.811	59.79	59.5	106.25	183.75	249.
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	4.95	5.2	6.9	4.5	0.551	0.742	4.53	4.6	5.7	6.66
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	4.947	4.872	6.9	4.5	0.668	0.817	4.53	4.6	5.7	6.66
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	11.295	13.418	31.623	0.126	130.272	11.414	0.326	2.184	25.119	29.672
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	1.	2.542	13.	0.	12.794	3.577	0.	0.625	3.75	10.3
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	17.	17.917	26.	6.	47.72	6.908	6.3	14.5	25.5	26.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	11	39.	46.091	102.	12.	668.691	25.859	13.4	32.	56.	97.2
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	1120.	1440.833	5130.	270.	1721790.152	1312.17	282.	502.5	1762.5	4218.

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Annual Analysis for 1981 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	600.	875.833	4200.	160.	1222135.606	1105.502	163.	227.5	992.5	3321.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	1630.	1970.	3800.	230.	1432218.182	1196.753	272.	1160.	2947.5	3749.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	1575.	1855.	3730.	210.	1272427.273	1128.019	300.	1100.	2672.5	3691.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	12	100.	100.	150.	40.	1345.455	36.68	46.	65.	137.5	147.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	12	120.	117.5	200.	50.	2238.636	47.314	53.	67.5	150.	191.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	12	1700.	1675.	3750.	330.	902518.182	950.01	339.	857.5	2227.5	3318.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	1385.	1188.333	2040.	100.	510615.152	714.573	124.	375.	1827.5	2019.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	12.	14.25	51.	1.	198.75	14.098	1.	4.25	21.	42.3
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-09/24/82	12	0.035	0.323	2.2	0.	0.425	0.652	0.	0.01	0.42	1.807

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Annual Analysis for 1982 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	11.	11.167	21.5	1.	37.742	6.143	1.9	6.25	16.625	20.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	12	1.	2.858	11.	0.5	10.657	3.265	0.53	0.625	5.	9.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	150.	153.083	215.	100.	1454.083	38.132	103.	120.5	183.75	210.5
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	4.85	4.817	5.5	4.4	0.111	0.333	4.43	4.5	5.	5.38
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	4.825	4.716	5.5	4.4	0.122	0.349	4.43	4.5	5.	5.38
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	14.976	19.238	39.811	3.162	149.622	12.232	4.597	10.	31.623	37.354
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12	1.	1.25	4.	0.	1.477	1.215	0.	0.	2.	3.4
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	11	30.	29.091	48.	14.	110.691	10.521	14.4	20.	36.	46.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	11	64.	52.818	82.	20.	401.764	20.044	22.4	32.	68.	79.4
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	710.	687.5	1070.	350.	58311.364	241.477	371.	437.5	885.	1052.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	555.	540.	860.	160.	46763.636	216.249	196.	360.	690.	851.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	2400.	2213.333	3300.	870.	808115.152	898.952	969.	1372.5	3075.	3243.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	2300.	2104.167	3180.	810.	723008.333	850.299	912.	1335.	2885.	3111.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	11	110.	120.	190.	70.	1300.	36.056	72.	100.	150.	184.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	12	145.	137.917	190.	90.	1206.629	34.737	93.	106.25	165.	190.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	12	3235.	3510.833	5710.	1800.	1629190.152	1276.397	1842.	2545.	4702.5	5590.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	2495.	2804.167	4950.	1190.	1366571.97	1169.005	1229.	2000.	3697.5	4731.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	5.	5.	12.	2.	8.909	2.985	2.	2.25	5.75	11.1
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	05/03/77-09/24/82	9	0.02	0.023	0.06	0.	0.	0.02	0.	0.01	0.04	0.06

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Annual Analysis for 1983 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	11	12.	11.682	22.	0.5	50.164	7.083	1.	6.	19.	21.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	11	3.	3.555	10.	0.1	8.961	2.993	0.14	0.7	5.	9.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	11	155.	185.	390.	105.	7965.	89.247	107.	115.	240.	368.
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	11	4.5	4.564	5.2	4.1	0.127	0.356	4.12	4.2	4.8	5.16
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	11	4.5	4.448	5.2	4.1	0.141	0.376	4.12	4.2	4.8	5.16
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	11	31.623	35.647	79.433	6.31	607.911	24.656	7.048	15.849	63.096	76.165
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	11	0.	0.864	4.	0.	1.705	1.306	0.	0.	2.	3.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	4	25.	31.	52.	22.	198.667	14.095	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	10	48.	59.2	160.	25.	1724.4	41.526	25.4	29.75	75.5	153.2
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	11	680.	745.455	1220.	370.	74967.273	273.802	392.	500.	940.	1208.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	11	410.	484.091	880.	220.	56994.091	238.734	230.	290.	710.	876.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	11	1760.	2399.091	5790.	1070.	2725689.091	1650.966	1074.	1100.	3880.	5544.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	11	1730.	2280.909	5330.	1000.	2323369.091	1524.26	1020.	1100.	3690.	5154.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	11	115.	119.545	210.	70.	1722.273	41.5	72.	80.	140.	200.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	11	120.	125.909	200.	70.	1604.091	40.051	73.	100.	150.	196.

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Annual Analysis for 1983 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	11	2430.	2877.273	6310.	940.	2157461.818	1468.83	1038.	2130.	3310.	5920.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	11	2190.	2521.818	5370.	860.	1727296.364	1314.266	946.	1590.	2970.	5150.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	4.	5.727	30.	1.	69.818	8.356	1.	1.	6.	25.4

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Annual Analysis for 1984 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	12	10.75	10.292	18.5	0.5	35.203	5.933	0.95	6.25	16.125	18.35
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	10	3.5	3.59	8.	0.2	10.028	3.167	0.21	0.525	7.25	8.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	12	135.	168.333	290.	85.	5196.97	72.09	92.5	116.25	250.	281.
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	12	4.7	4.817	5.3	4.6	0.071	0.266	4.6	4.6	5.125	5.27
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	12	4.7	4.756	5.3	4.6	0.075	0.273	4.6	4.6	5.125	5.27
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	12	19.953	17.542	25.119	5.012	62.432	7.901	5.401	7.879	25.119	25.119
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	12 ##	0.5	1.292	4.	0.5	1.248	1.117	0.5	0.5	2.	3.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	12	41.	53.333	105.	22.	844.424	29.059	24.4	30.5	80.	102.9
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	12	480.	490.833	900.	250.	30317.424	174.119	259.	347.5	570.	816.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	375.	420.833	880.	180.	35626.515	188.75	195.	322.5	470.	811.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	1245.	1974.167	3840.	740.	1596862.879	1263.67	782.	1035.	3570.	3816.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	1395.	2009.167	3730.	740.	1434226.515	1197.592	830.	1092.5	3555.	3721.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	12	100.	115.	190.	70.	1718.182	41.451	70.	75.	145.	187.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	12	125.	127.5	230.	70.	2129.545	46.147	73.	82.5	147.5	215.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	12	2230.	2323.333	4730.	820.	1294496.97	1137.76	847.	1365.	2902.5	4403.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	1850.	2006.667	4380.	540.	1147224.242	1071.086	597.	1280.	2577.5	4050.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	5.	6.583	28.	1.	57.902	7.609	1.	1.	7.	23.5

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Annual Analysis for 1985 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	10	15.25	12.25	20.	0.5	46.014	6.783	0.9	4.875	18.	19.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	10	147.5	183.2	460.	77.	13081.289	114.373	80.3	117.5	210.	444.
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	10	4.9	4.8	5.3	4.2	0.122	0.35	4.22	4.475	5.05	5.29
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	10	4.9	4.67	5.3	4.2	0.141	0.375	4.22	4.475	5.05	5.29
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	10	12.589	21.357	63.096	5.012	338.134	18.388	5.142	9.077	33.67	60.767
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	10	1.	1.45	6.	0.	3.469	1.863	0.	0.	2.25	5.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	10	47.	65.8	190.	28.	2541.067	50.409	28.	33.25	79.25	182.3
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	10	540.	545.	930.	200.	63494.444	251.981	208.	280.	810.	921.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	10	395.	434.	840.	120.	61648.889	248.292	125.	185.	702.5	827.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	9	1480.	1834.444	4580.	580.	1370152.778	1170.535	580.	1165.	2320.	4580.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	9	1450.	1807.778	4500.	590.	1313469.444	1146.067	590.	1160.	2280.	4500.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	9	110.	133.333	440.	60.	13700.	117.047	60.	75.	120.	440.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	10	105.	138.	450.	70.	12440.	111.535	71.	87.5	125.	419.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	9	1800.	2057.778	3490.	1030.	588369.444	767.052	1030.	1455.	2640.	3490.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	9	1720.	1851.111	3140.	900.	535811.111	731.991	900.	1290.	2495.	3140.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	9	6.	7.111	17.	1.	34.111	5.84	1.	1.5	12.	17.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	1	5.28	5.28	5.28	5.28	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	1	5.28	5.28	5.28	5.28	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	1	5.248	5.248	5.248	5.248	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	1	339.	339.	339.	339.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	1	238.	238.	238.	238.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	1	566.	566.	566.	566.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	1	1020.	1020.	1020.	1020.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	1	764.	764.	764.	764.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

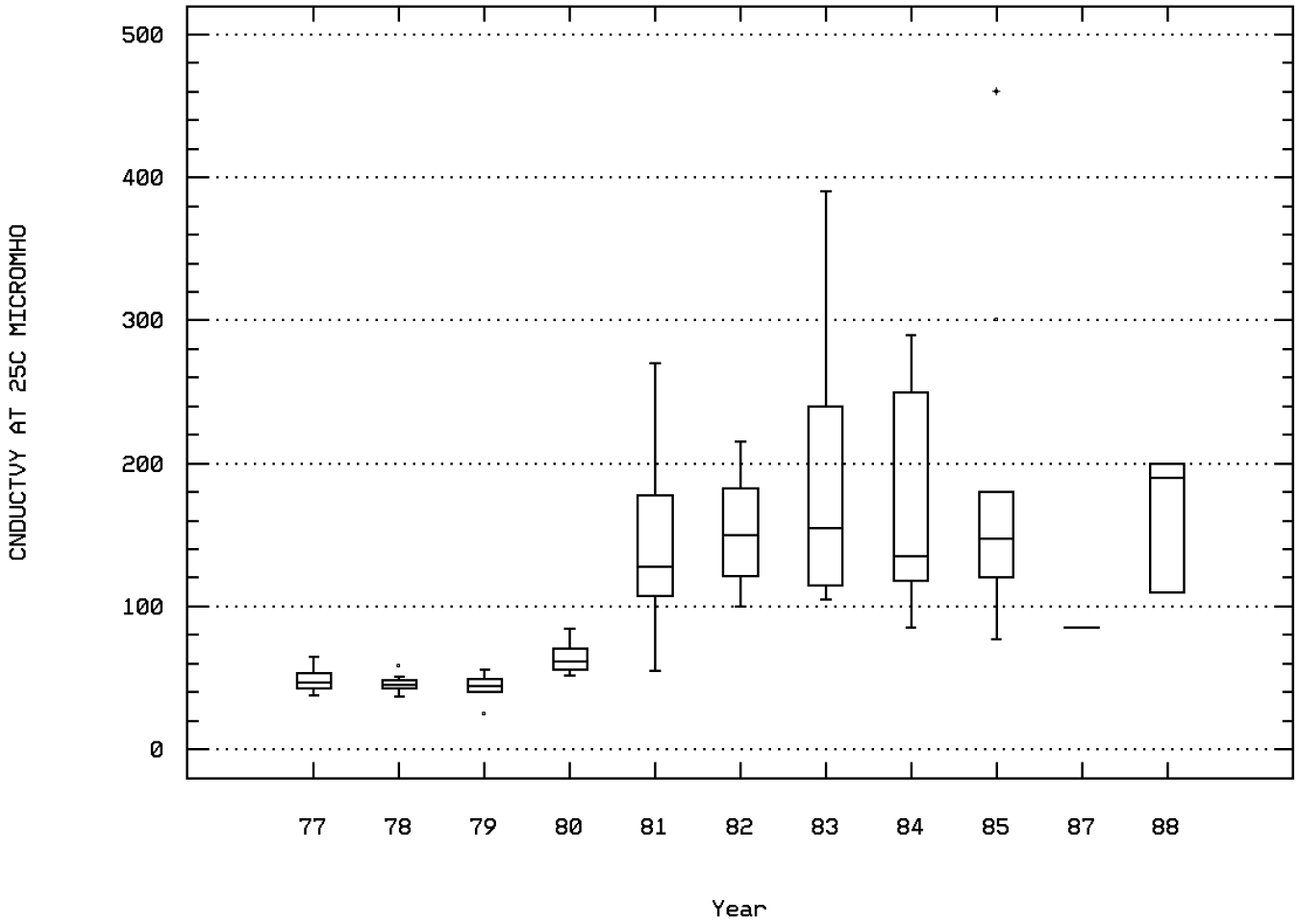
Annual Analysis for 1988 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	3	14.5	14.333	18.5	10.	18.083	4.252	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	3	2.	3.1	7.	0.3	12.13	3.483	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	3	190.	166.667	200.	110.	2433.333	49.329	**	**	**	**
00400p	PH (STANDARD UNITS)	03/30/77-09/21/88	3	4.96	4.983	5.04	4.95	0.002	0.049	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	3	4.96	4.982	5.04	4.95	0.002	0.049	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	3	10.965	10.435	11.22	9.12	1.313	1.146	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	3	64.	58.	74.	36.	388.	19.698	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	3	736.	693.333	957.	387.	82590.333	287.385	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	3	395.	543.333	847.	388.	69172.333	263.006	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	3	1700.	1752.	2830.	726.	1108732.	1052.963	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	2	2265.	2265.	2830.	1700.	638450.	799.031	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	3	99.	70.	106.	5.	3181.	56.4	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	3	138.	155.333	243.	85.	6466.333	80.414	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	3	2060.	2053.333	2710.	1390.	435633.333	660.025	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	3	1500.	1470.	1760.	1150.	93700.	306.105	**	**	**	**

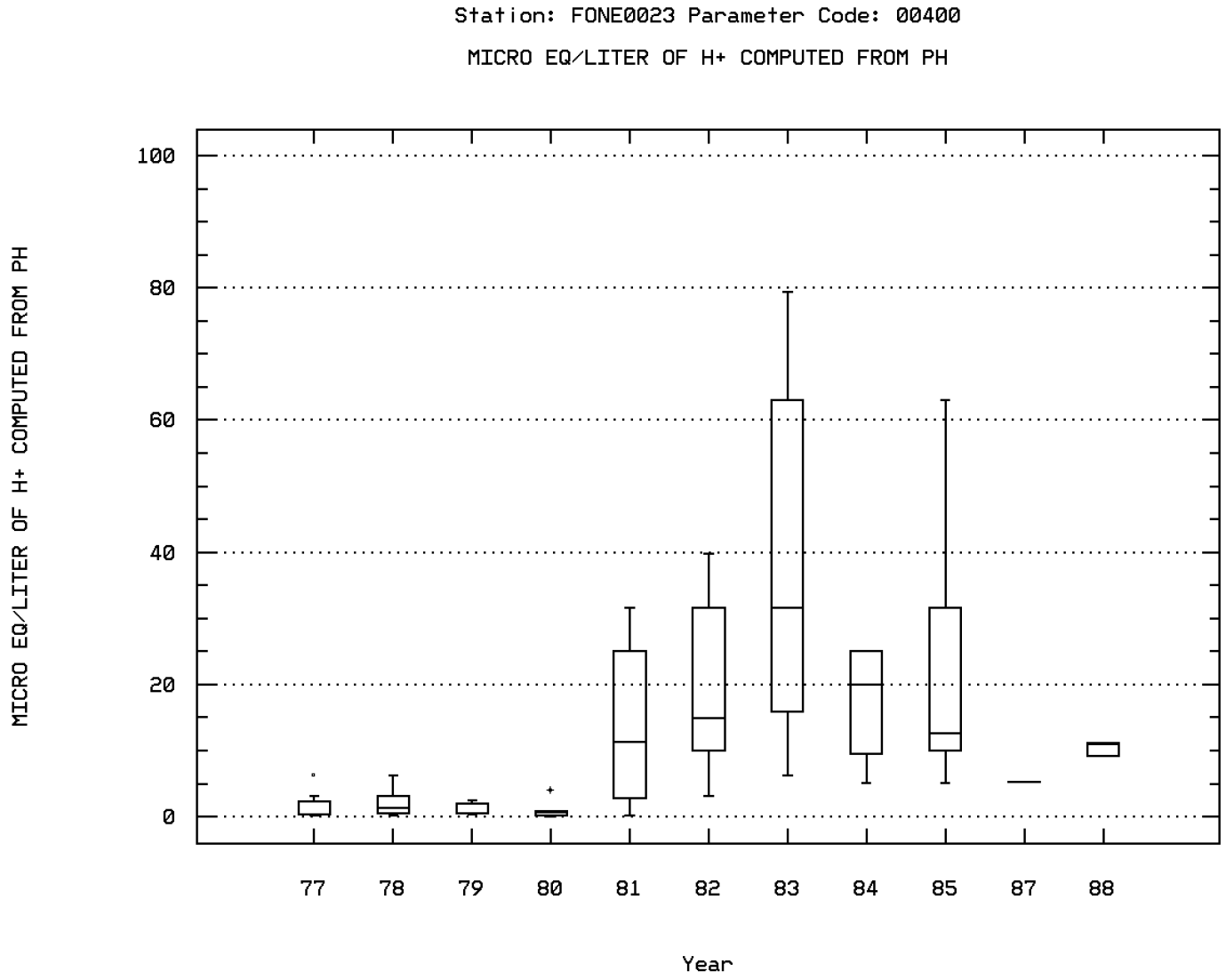
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0023 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



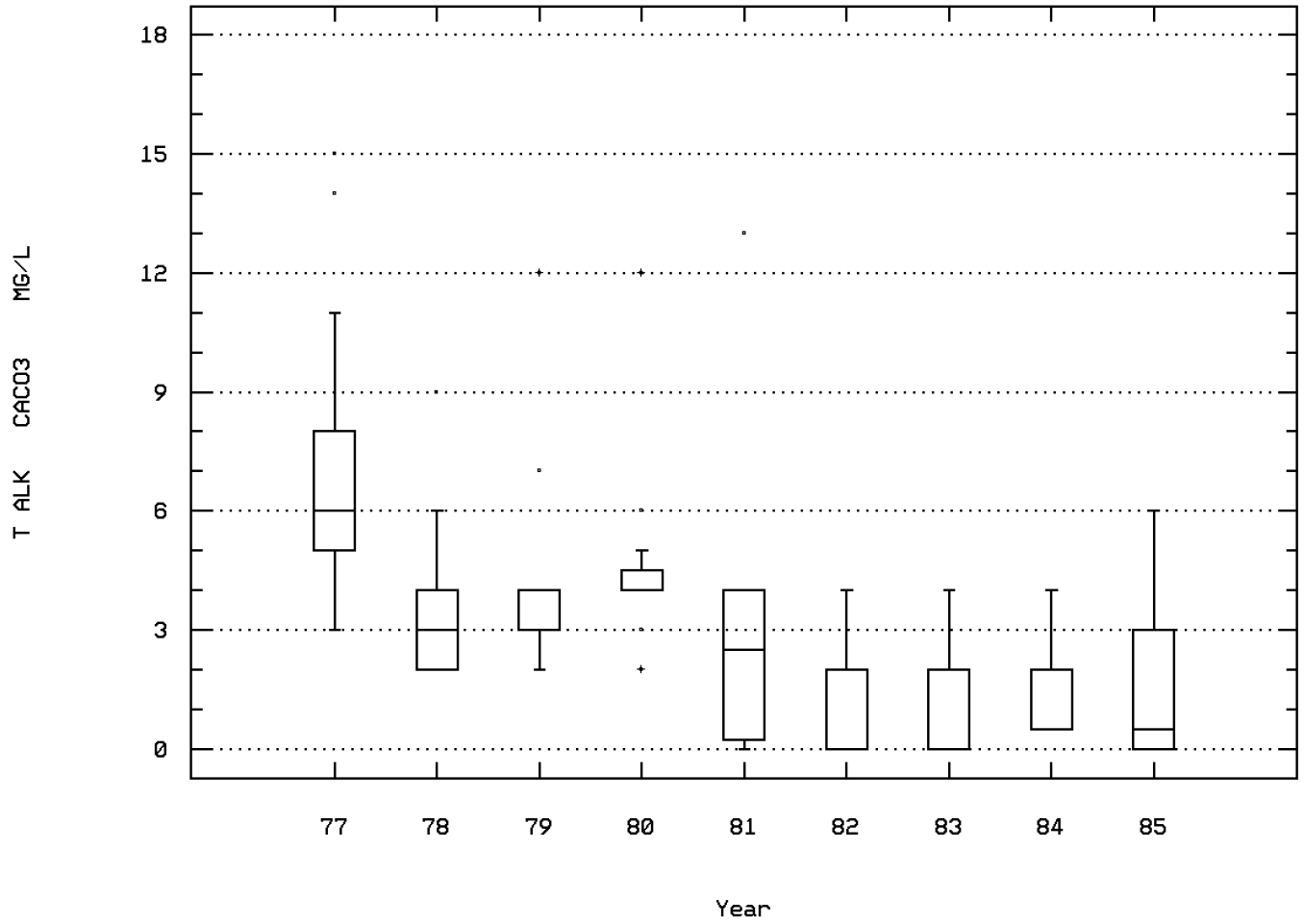
STONY FORK NEAR FARMINGTON, PA



STONY FORK NEAR FARMINGTON, PA

Station: FONE0023 Parameter Code: 00410

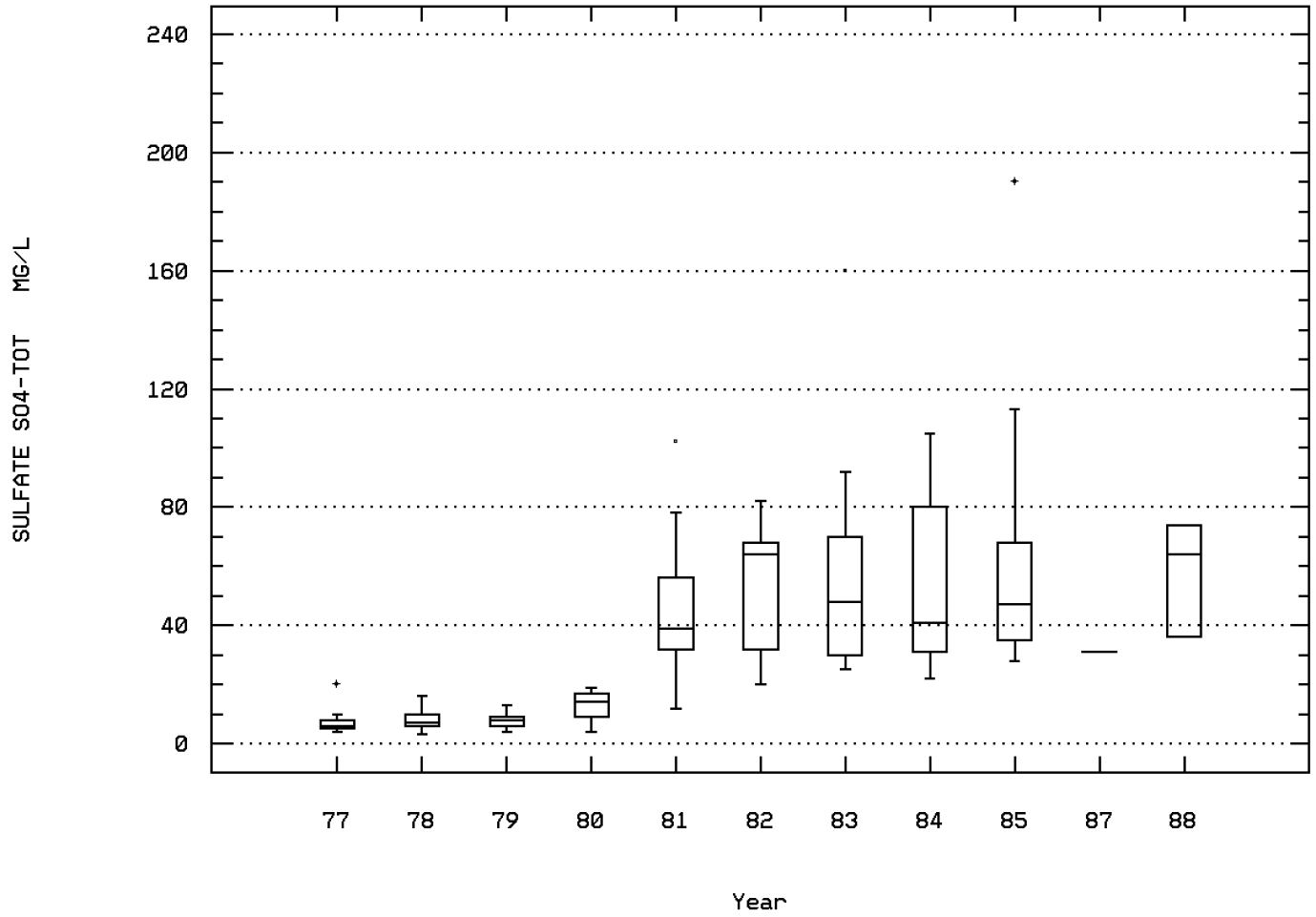
ALKALINITY, TOTAL (MG/L AS CACO3)



STONY FORK NEAR FARMINGTON, PA

Station: FONE0023 Parameter Code: 00945

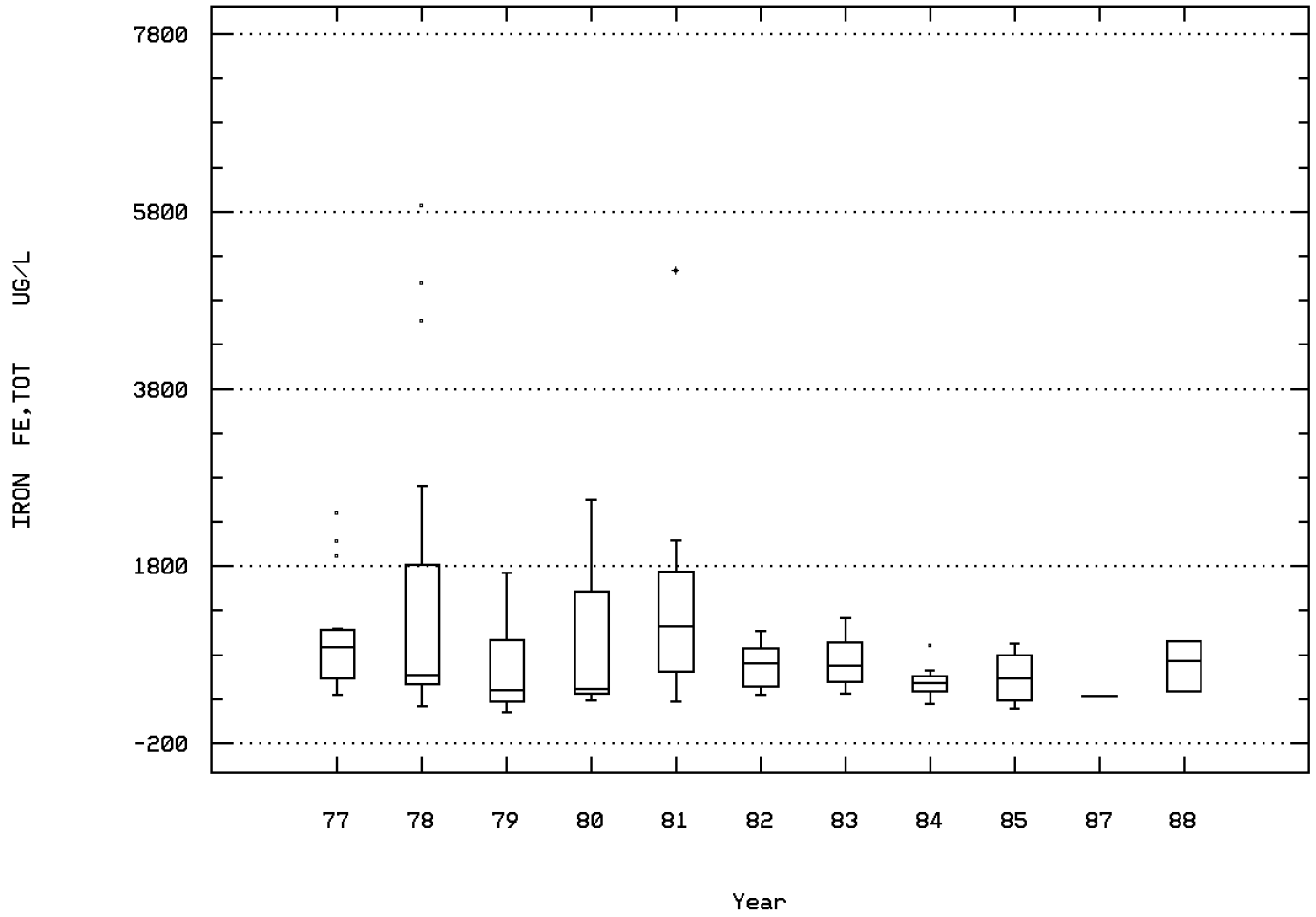
SULFATE, TOTAL (MG/L AS SO4)



STONY FORK NEAR FARMINGTON, PA

Station: FONE0023 Parameter Code: 01045

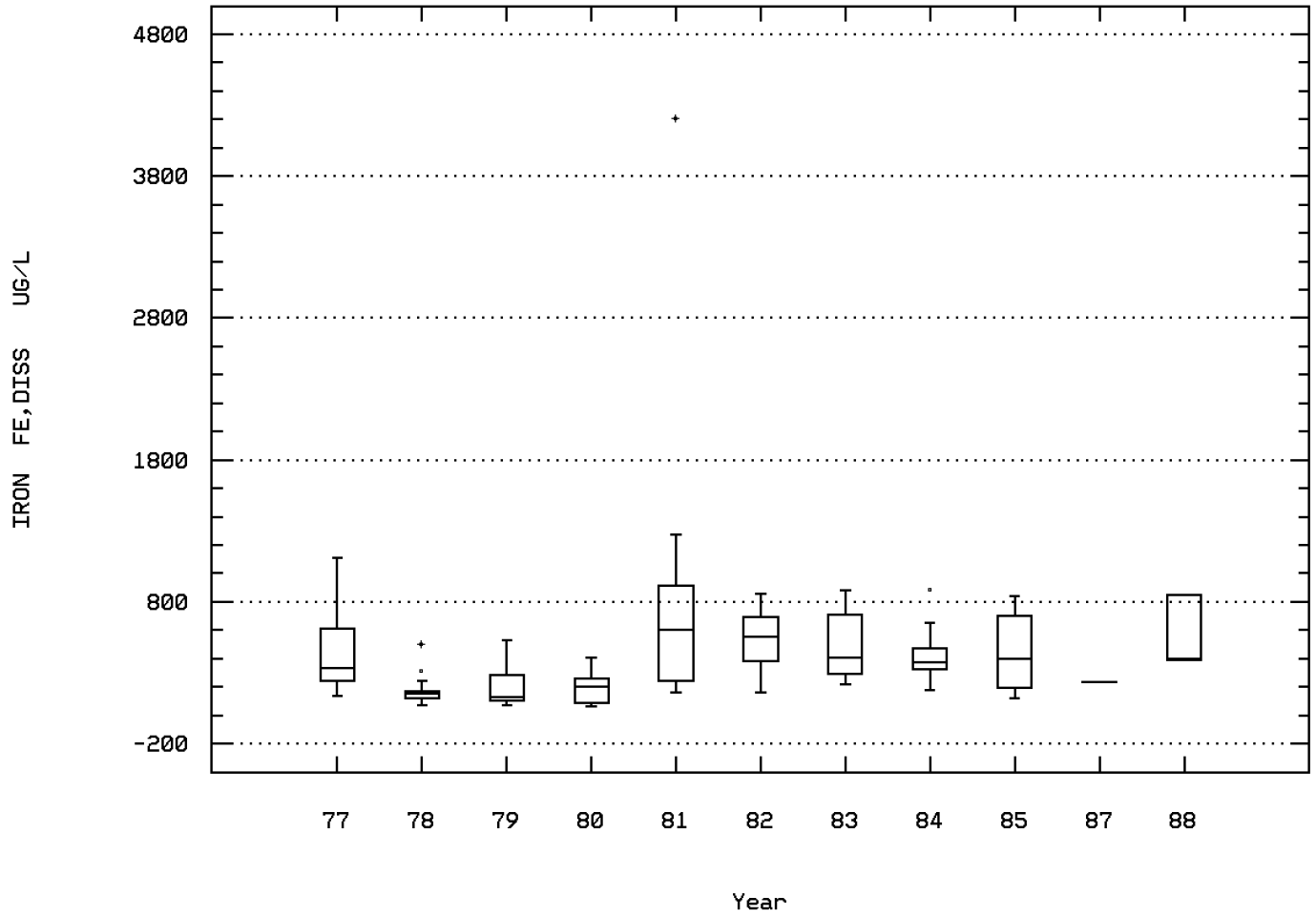
IRON, TOTAL (UG/L AS FE)



STONY FORK NEAR FARMINGTON, PA

Station: FONE0023 Parameter Code: 01046

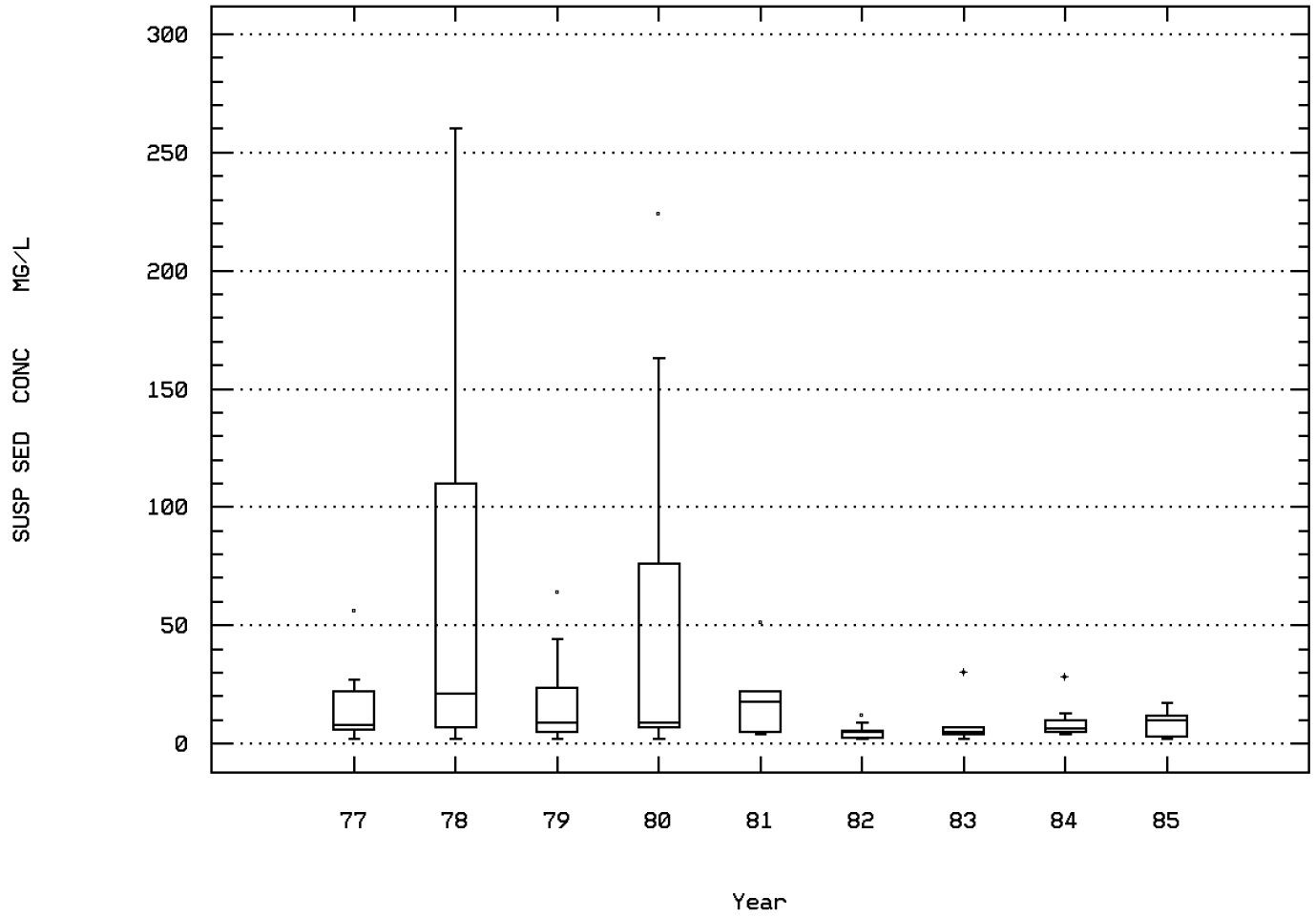
IRON, DISSOLVED (UG/L AS FE)



STONY FORK NEAR FARMINGTON, PA

Station: FONE0023 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



STONY FORK NEAR FARMINGTON, PA

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	44	16.25	16.03	24.	6.	16.341	4.042	9.9	13.125	19.375	21.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	29	0.9	1.986	21.	0.1	15.793	3.974	0.2	0.45	2.	5.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	44	77.	135.432	460.	40.	11328.577	106.436	43.5	48.	197.5	285.
00400	PH (STANDARD UNITS)	03/30/77-09/21/88	44	5.6	5.5	7.4	4.2	0.735	0.857	4.5	4.7	6.275	6.55
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	44	5.6	4.908	7.4	4.2	1.093	1.045	4.5	4.7	6.275	6.55
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	44	2.512	12.345	63.096	0.04	278.81	16.698	0.284	0.534	19.953	31.623
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	39	4.	4.513	15.	0.	19.138	4.375	0.	1.	7.	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	40	32.	46.65	190.	4.	2139.977	46.26	5.1	8.	76.	104.7
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	42	890.	1090.381	5130.	250.	716453.9	846.436	376.	547.5	1242.5	2029.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	42	475.	584.405	4200.	90.	411368.539	641.38	179.	245.	692.5	1034.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	29	2610.	2152.759	5790.	70.	2835699.261	1683.953	70.	325.	3495.	4560.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	29	2460.	2072.069	5330.	70.	2612202.709	1616.231	70.	250.	3465.	4450.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	27	110.	101.333	440.	10.	7711.077	87.813	10.	30.	140.	164.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	30	120.	114.433	450.	20.	7955.151	89.192	20.	30.	150.	180.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	28	1720.	1914.643	5310.	50.	2341640.608	1530.242	193.	322.5	2955.	4415.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	28	1460.	1538.571	4270.	10.	2017457.143	1420.372	77.	127.5	2737.5	3815.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	42	7.5	15.429	163.	1.	766.251	27.681	1.3	3.75	14.	38.9

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	38	3.	3.342	9.	0.	8.704	2.95	0.	0.5	6.125	7.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	34	5.	10.438	90.	0.3	292.965	17.116	0.9	3.	10.25	24.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	39	65.	78.667	155.	25.	1349.702	36.738	40.	50.	115.	135.
00400	PH (STANDARD UNITS)	03/30/77-09/21/88	39	5.5	5.63	6.9	4.5	0.431	0.656	4.6	5.2	6.2	6.5
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	39	5.5	5.22	6.9	4.5	0.603	0.777	4.6	5.2	6.2	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	39	3.162	6.021	31.623	0.126	71.827	8.475	0.316	0.631	6.31	25.119
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	38	3.	2.711	6.	0.	2.468	1.571	0.5	1.	4.	4.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	37	17.	20.676	56.	3.	217.503	14.748	5.	7.5	32.	43.2
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	38	495.	946.684	5860.	160.	1698952.114	1303.439	218.	347.25	932.5	1897.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	39	220.	294.821	880.	70.	46389.414	215.382	100.	160.	350.	650.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	30	660.	767.2	1970.	50.	367054.51	605.85	81.	195.	1280.	1678.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	30	665.	744.667	1960.	50.	371687.816	609.662	71.	167.5	1282.5	1630.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	31	70.	65.032	150.	10.	1294.366	35.977	20.	30.	100.	110.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	30	70.	75.867	190.	20.	1724.602	41.528	21.	40.	110.	120.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	29	1090.	1404.483	3310.	130.	1059039.901	1029.097	190.	370.	2410.	2920.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	31	764.	946.677	2520.	5.	801331.759	895.171	50.	100.	1810.	2348.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	34	5.	37.412	260.	1.	5425.643	73.659	1.	2.	21.75	200.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/21/88	36	13.	12.653	20.	0.5	23.126	4.809	6.	9.625	16.	18.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/21/88	29	5.	8.362	60.	0.3	155.211	12.458	0.7	2.	9.5	15.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/30/77-09/21/88	37	110.	105.405	250.	37.	3600.692	60.006	40.	45.	130.	200.
00400	PH (STANDARD UNITS)	03/30/77-09/21/88	37	5.	5.256	6.7	4.1	0.563	0.751	4.4	4.65	6.025	6.42
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/21/88	37	5.	4.831	6.7	4.1	0.749	0.865	4.4	4.65	6.025	6.42
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/21/88	37	10.	14.765	79.433	0.2	317.064	17.806	0.382	0.946	22.536	39.811
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/30/85	35	2.	1.943	7.	0.	3.129	1.769	0.	0.5	3.	4.4
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/21/88	35	28.	29.486	80.	4.	512.787	22.645	5.	8.	40.	68.
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/21/88	37	500.	717.946	2710.	270.	302773.664	550.249	284.	395.	855.	1796.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	36	325.	341.528	860.	60.	49337.685	222.121	91.	142.5	437.5	725.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	29	1270.	1460.724	3880.	80.	1268316.635	1126.196	85.	518.	2320.	3110.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	27	1290.	1468.889	3690.	80.	1146356.41	1070.68	80.	1040.	2210.	3086.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	28	94.5	93.929	210.	5.	2971.106	54.508	19.	55.75	120.	190.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	29	100.	106.724	230.	20.	3220.778	56.752	30.	65.	140.	200.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	29	2130.	2195.931	6310.	52.	2647704.424	1627.177	170.	960.	3050.	4730.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	28	1790.	1841.25	5370.	30.	2047454.417	1430.893	75.2	1090.	2400.	4437.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	33	7.	16.545	88.	1.	417.068	20.422	1.8	4.5	22.	48.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: FONE0024

NPS Station ID: FONE0024
LAT/LON: 39.780837/ -79.575838
Agency: 21PAMR
Date Created: 07/25/77
Location: STONY FORK AT CAMP RAIMO
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010420
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 15.00
On/Off RF1:
RF3 Index: 05020004003702.20
RF3 Mile Point: 2.20
Distance from RF3: 0.00
On/Off RF3:
Description:
STONY FORK AT CAMP RAIMO. AT CULVERT UNDER GRAVEL ROAD.

Parameter Inventory for Station: FONE0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/77-09/02/77	6	18.	16.917	20.5	12.	13.742	3.707	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/03/77-09/02/77	5	0.5	1.04	3.	0.2	1.283	1.133	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/77-09/02/77	6	44.	47.833	65.	38.	94.567	9.725	**	**	**	**
00400	PH (STANDARD UNITS)	03/30/77-09/02/77	6	6.45	6.392	6.75	5.7	0.132	0.364	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/30/77-09/02/77	6	6.447	6.23	6.75	5.7	0.164	0.405	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/02/77	6	0.357	0.589	1.995	0.178	0.482	0.694	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/30/77-09/02/77	6	6.35	6.283	6.8	5.7	0.134	0.366	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/30/77-09/02/77	6	6.347	6.15	6.8	5.7	0.155	0.394	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/77-09/02/77	6	0.45	0.708	1.995	0.158	0.44	0.664	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/77-09/02/77	6	6.	7.167	15.	3.	17.767	4.215	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	5	10.	8.6	14.	4.	16.8	4.099	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	5	3.	4.	8.	2.	6.5	2.55	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/30/77-09/02/77	6	0.25	0.75	2.	0.	0.975	0.987	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/77-09/02/77	6	6.5	8.5	20.	5.	33.1	5.753	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/30/77-09/02/77	6	485.	785.833	2080.	385.	438024.167	661.834	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	6	295.	405.833	950.	140.	89644.167	299.406	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	85.	85.	85.	85.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	51.	51.	51.	51.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	52.	52.	52.	52.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/02/77	5	8.	11.8	22.	6.	48.2	6.943	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	6	4	0.67	2	1	0.50				4	3	0.75			
00403	PH, LAB	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	6	5	0.83	2	2	1.00				4	3	0.75			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00				4	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0024

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
	Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0025

NPS Station ID: FONE0025
LAT/LON: 39.781670/ -79.583338
Agency: 21PAMR
Date Created: 07/25/77
Location: STONY FORK NEAR BETHEL CHAPEL
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010440
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 25.30
On/Off RF1:
RF3 Index: 05020004024900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:
STONY FORK NEAR BETHEL CHAPEL BELOW THREE MAJOR TRIBUTARIES. AT BRIDGE ON BLACKTOP ROAD 2000 FEET SOUTH OF ROUTE 381.

Parameter Inventory for Station: FONE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/02/77	7	16.	15.643	21.	9.5	24.56	4.956	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-08/03/77	5	2.	2.74	7.	0.1	7.958	2.821	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/02/77	7	70.	69.714	105.	50.	377.238	19.423	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	5	9.	8.82	10.5	6.5	2.087	1.445	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/02/77	7	6.8	6.886	7.4	6.6	0.075	0.273	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/02/77	7	6.8	6.826	7.4	6.6	0.079	0.281	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.158	0.149	0.251	0.04	0.005	0.071	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/02/77	7	6.6	6.614	6.9	6.4	0.031	0.177	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-09/02/77	7	6.6	6.586	6.9	6.4	0.032	0.18	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/02/77	7	0.251	0.26	0.398	0.126	0.009	0.095	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/02/77	7	9.	13.429	35.	3.	123.952	11.133	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/77-09/02/77	5	14.	14.8	24.	7.	42.7	6.535	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-09/02/77	5	3.	3.2	5.	1.	3.2	1.789	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/02/77	6	0.	0.167	1.	0.	0.167	0.408	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-06/28/77	4	27.	26.5	30.	22.	11.667	3.416	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/02/77	7	7.	7.429	10.	5.	2.952	1.718	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-03/30/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/02/77	7	1350.	1268.571	2130.	250.	652714.286	807.907	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/02/77	6	410.	425.	800.	100.	59630.	244.193	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-03/30/77	1	75.	75.	75.	75.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-03/30/77	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-03/30/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-03/30/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-03/30/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-03/30/77	1	98.	98.	98.	98.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-03/30/77	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-03/30/77	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-03/30/77	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-03/30/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-03/30/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/02/77	5	10.	16.6	47.	6.	291.8	17.082	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	1	0	0.00				4	0	0.00			
00400	PH	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	2	0	0.00				5	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	3	0.43	2	1	0.50				5	2	0.40			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	2	0	0.00				5	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0026

NPS Station ID: FONE0026
LAT/LON: 39.781670/ -79.583338
Agency: 112WRD
Date Created: 06/29/78
Location: STONY FORK AT BETHEL CHAPEL, PA (44)
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070430
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 20.00
On/Off RF1:
RF3 Index: 05020004024800.28
RF3 Mile Point: 0.84
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	142	12.	11.761	25.	0.	42.573	6.525	1.5	6.375	17.625	20.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	95	4.	7.534	46.	0.1	79.165	8.897	0.76	2.	10.	20.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	139	83.	97.971	550.	46.	3379.883	58.137	54.	64.	115.	160.
00300	OXYGEN, DISSOLVED MG/L	03/30/77-08/03/77	5	9.	8.82	10.5	6.5	2.087	1.445	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/21/88	141	6.5	6.351	7.6	4.5	0.342	0.585	5.5	6.	6.725	7.1
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	141	6.5	5.909	7.6	4.5	0.539	0.734	5.5	6.	6.725	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	141	0.316	1.232	31.623	0.025	9.158	3.026	0.079	0.189	1.	3.162
00403	PH, LAB, STANDARD UNITS SU	12/29/87-09/21/88	4	6.1	6.175	6.5	6.	0.056	0.236	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/29/87-09/21/88	4	6.089	6.133	6.5	6.	0.058	0.241	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/29/87-09/21/88	4	0.815	0.737	1.	0.316	0.109	0.33	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	134	7.	8.746	35.	0.	36.251	6.021	3.	4.	12.	17.
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	12/29/87-09/21/88	4	12.	17.5	38.	8.	193.	13.892	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	82	5.	6.415	28.	1.	22.912	4.787	2.	3.	8.	13.4
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/15/78	41	0.	0.22	2.	0.	0.276	0.525	0.	0.	0.	1.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/29/87-09/21/88	4	328.	1023.5	3364.	74.	2483027.667	1575.763	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/29/87-09/21/88	4	4.	7.25	20.	1.	76.917	8.77	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/30/77-06/28/77	4	27.	26.5	30.	22.	11.667	3.416	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/29/87-09/21/88	4	13.4	31.	89.2	8.	1514.587	38.918	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	09/21/88-09/21/88	1	16.4	16.4	16.4	16.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/29/87-09/21/88	4	3.95	8.375	23.	2.6	95.509	9.773	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/21/88-09/21/88	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	09/21/88-09/21/88	1	3.11	3.11	3.11	3.11	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/29/87-09/21/88	4	2.515	5.96	17.1	1.71	55.426	7.445	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/29/87-09/21/88	4	2.11	2.115	2.84	1.4	0.555	0.745	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	09/21/88-09/21/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/29/87-06/21/88	3	4.	4.333	5.	4.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	133	15.	25.09	314.	3.	1209.007	34.771	6.4	8.	30.	50.
00951	FLUORIDE, TOTAL (MG/L AS F)	12/29/87-06/21/88	3 ##	0.05	0.067	0.1	0.05	0.001	0.029	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/30/77-09/21/88	14 ##	5.	3.179	5.	0.5	4.908	2.215	0.5	0.5	5.	5.
01002	ARSENIC, TOTAL (UG/L AS AS)	03/30/77-09/21/88	14 ##	5.	3.5	5.	0.5	4.5	2.121	0.5	0.5	5.	5.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/30/77-07/11/78	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	09/21/88-09/21/88	1 ##	125.	125.	125.	125.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/30/77-03/28/85	13 ##	1.	0.923	2.	0.	0.327	0.572	0.2	0.5	1.	2.
01027	CADMIUM, TOTAL (UG/L AS CD)	03/30/77-03/28/85	13 ##	1.	1.077	3.	0.5	0.494	0.703	0.5	0.5	1.	2.6
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/30/77-09/21/88	15 ##	5.	7.8	25.	2.	29.743	5.454	3.8	5.	10.	16.
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/30/77-09/21/88	15 ##	5.	8.133	25.	2.	29.41	5.423	3.8	5.	10.	16.
01035	COBALT, DISSOLVED (UG/L AS CO)	03/30/77-09/21/88	4 ##	1.	8.25	30.	1.	210.25	14.5	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01037	COBALT, TOTAL (UG/L AS CO)	03/30/77-09/21/88	4 ##	1.	8.25	30.	1.	210.25	14.5	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/30/77-09/21/88	16 ##	10.	8.125	10.	5.	6.25	2.5	5.	5.	10.	10.
01042	COPPER, TOTAL (UG/L AS CU)	03/30/77-09/21/88	16 ##	10.	9.063	10.	5.	4.063	2.016	5.	10.	10.	10.
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	142	630.	1123.261	19100.	170.	3723854.407	1929.729	343.	467.5	1060.	2053.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	141	280.	317.901	930.	60.	29460.533	171.641	130.	190.	420.	550.
01049	LEAD, DISSOLVED (UG/L AS PB)	03/30/77-09/21/88	14 ##	5.	4.643	25.	0.	38.709	6.222	0.5	1.	5.	15.
01051	LEAD, TOTAL (UG/L AS PB)	03/30/77-09/21/88	14 ##	5.	5.429	25.	1.	34.418	5.867	1.	2.	5.	15.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	89	650.	832.427	3430.	60.	534466.884	731.072	90.	215.	1310.	1920.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	89	650.	838.809	3400.	60.	580060.338	761.617	90.	170.	1370.	1920.
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/30/77-09/21/88	16 ##	10.	12.875	50.	5.	180.25	13.426	5.	5.	10.	43.7
01067	NICKEL, TOTAL (UG/L AS NI)	03/30/77-09/21/88	16	15.	19.125	80.	5.	370.25	19.242	5.	5.	20.	52.7
01075	SILVER, DISSOLVED (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/30/77-07/11/78	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/21/88-09/21/88	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01082	STRONTIUM, TOTAL (UG/L AS SR)	09/21/88-09/21/88	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	89	50.	48.618	130.	10.	755.398	27.485	10.	20.	70.	80.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	88	65.	66.511	220.	10.	1438.873	37.932	20.	40.	80.	120.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	89	610.	911.022	13430.	25.	2527577.159	1589.836	100.	200.	1085.	1810.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	90	100.	218.156	1830.	5.	100444.717	316.93	25.	50.	222.	694.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/30/77-09/21/88	14 ##	5.	4.857	5.	3.	0.286	0.535	4.	5.	5.	5.
01147	SELENIUM, TOTAL (UG/L AS SE)	03/30/77-09/21/88	14 ##	5.	4.857	5.	3.	0.286	0.535	4.	5.	5.	5.
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/29/87-09/21/88	4	13.	10.	14.	0.	45.333	6.733	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	10/15/82-09/30/85	36	0.1	0.177	0.6	0.04	0.018	0.135	0.04	0.085	0.2	0.4
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/30/77-09/21/88	15 ##	0.5	0.417	0.5	0.25	0.015	0.122	0.25	0.25	0.5	0.5
71900	MERCURY, TOTAL (UG/L AS HG)	03/30/77-09/21/88	15 ##	0.5	0.417	0.5	0.25	0.015	0.122	0.25	0.25	0.5	0.5
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	123	9.	20.919	472.	1.	2706.436	52.023	4.	6.	16.	34.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/30/77-09/24/82	69	0.09	1.083	30.	0.	15.537	3.942	0.02	0.03	0.32	2.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	5	0	0.00	1	0	0.00				4	0	0.00			
00400	PH	Other-Hi Lim.	9.	141	0	0.00	54	0	0.00	39	0	0.00	48	0	0.00			
		Other-Lo Lim.	6.5	141	78	0.55	54	25	0.46	39	23	0.59	48	30	0.63			
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	4	4	1.00	1	1	1.00	1	1	1.00	2	2	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	133	1	0.01	48	0	0.00	39	0	0.00	46	1	0.02			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00				1	0	0.00	2	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	13	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	5.	13	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	13	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	5.	13	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	1300.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	1300.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01049	LEAD, DISSOLVED	Fresh Acute	82.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	15.	13 &	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	15.	13 &	0	0.00	5	0	0.00	2	0	0.00	6	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	100.	16	0	0.00	8	0	0.00	2	0	0.00	6	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	89	2	0.02	29	1	0.03	31	0	0.00	29	1	0.03			
		Drinking Water	5000.	89	0	0.00	29	0	0.00	31	0	0.00	29	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	88	12	0.14	28	5	0.18	31	2	0.06	29	5	0.17			
		Drinking Water	5000.	88	0	0.00	28	0	0.00	31	0	0.00	29	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	50.	14	0	0.00	6	0	0.00	2	0	0.00	6	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	2.	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			
		Drinking Water	2.	15	0	0.00	7	0	0.00	2	0	0.00	6	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Annual Analysis for 1977 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	34	16.	14.382	25.	0.	37.743	6.144	5.25	9.5	19.5	21.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	33	69.	68.545	105.	46.	222.756	14.925	50.8	54.5	80.	91.
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	33	6.3	6.376	7.5	5.7	0.218	0.467	5.74	6.	6.7	6.98
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	33	6.3	6.176	7.5	5.7	0.259	0.509	5.74	6.	6.7	6.98
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	33	0.501	0.667	1.995	0.032	0.356	0.597	0.111	0.2	1.	1.831
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	30	11.	11.633	35.	3.	51.895	7.204	5.	6.	14.	23.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	8	4.	3.625	5.	1.	2.268	1.506	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	30	7.5	7.7	14.	4.	6.355	2.521	5.	5.75	9.	11.8
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	34	1240.	1253.529	2790.	250.	541841.711	736.099	420.	547.5	1960.	2305.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	33	310.	373.636	850.	100.	33036.364	181.759	200.	240.	505.	650.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	2	97.5	97.5	120.	75.	1012.5	31.82	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	2	95.	95.	120.	70.	1250.	35.355	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	2 ##	54.	54.	98.	10.	3872.	62.225	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	2 ##	19.	19.	28.	10.	162.	12.728	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	2	154.	154.	250.	58.	18432.	135.765	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	2	59.5	59.5	110.	9.	5100.5	71.418	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	24	13.5	18.167	47.	4.	159.014	12.61	5.	10.	24.	41.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/30/77-09/24/82	5	0.06	0.096	0.19	0.	0.008	0.088	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1978 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	23	15.	13.196	19.5	0.5	33.54	5.791	2.3	11.5	17.5	18.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	22	4.	5.877	22.	0.5	32.617	5.711	1.16	2.75	6.5	17.9
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	21	65.	65.571	86.	50.	123.157	11.098	51.2	54.	72.	82.8
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	23	6.7	6.73	7.1	6.4	0.041	0.203	6.5	6.6	6.8	7.1
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	23	6.7	6.688	7.1	6.4	0.043	0.207	6.5	6.6	6.8	7.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	23	0.2	0.205	0.398	0.079	0.008	0.088	0.079	0.158	0.251	0.316
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	23	8.	9.957	18.	4.	20.225	4.497	4.4	6.	14.	17.6
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	22	3.	3.545	8.	2.	1.879	1.371	2.	3.	4.	5.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	21	10.	11.143	19.	3.	20.029	4.475	7.	8.	15.5	18.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	23	660.	1123.478	6990.	350.	1803469.17	1342.933	496.	540.	1100.	1762.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	23	280.	293.478	760.	110.	20750.988	144.052	138.	180.	320.	486.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	4	115.	137.5	220.	100.	3091.667	55.603	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	4	115.	130.	220.	70.	4066.667	63.77	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	3	20.	26.667	50.	10.	433.333	20.817	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	3	20.	30.	50.	20.	300.	17.321	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	3	200.	210.	310.	120.	9100.	95.394	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	3 ##	50.	83.333	150.	50.	3333.333	57.735	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	20	12.5	22.85	168.	3.	1240.766	35.225	7.1	9.25	20.75	34.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/30/77-09/24/82	20	0.145	0.684	10.	0.01	4.837	2.199	0.031	0.068	0.345	0.686

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	12	9.	10.292	22.	0.	48.475	6.962	0.15	5.75	16.	20.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	12	5.5	7.35	24.	0.4	54.685	7.395	0.52	2.25	10.75	22.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	12	58.5	62.5	90.	54.	117.909	10.859	54.	55.	70.	84.9
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	12	6.675	6.654	7.1	6.4	0.035	0.188	6.4	6.525	6.7	7.01
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	12	6.674	6.621	7.1	6.4	0.036	0.191	6.4	6.525	6.7	7.01
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	12	0.212	0.24	0.398	0.079	0.009	0.093	0.103	0.2	0.3	0.398

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1979 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	12	7.5	9.333	22.	5.	27.333	5.228	5.	6.	10.75	20.5
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	3.5	3.5	6.	2.	1.545	1.243	2.	2.25	4.	5.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	12	10.	10.	16.	5.	9.455	3.075	5.6	8.	12.25	15.4
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	12	525.	1608.333	9580.	170.	7547506.061	2747.272	188.	300.	1302.5	7978.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	195.	222.5	480.	100.	12965.909	113.868	103.	122.5	290.	444.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	90.	170.	580.	80.	23472.727	153.208	80.	82.5	167.5	517.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	90.	124.167	290.	60.	4299.242	65.569	63.	80.	160.	254.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	11	20.	17.273	30.	10.	61.818	7.862	10.	10.	20.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	12	30.	45.833	220.	10.	3317.424	57.597	13.	20.	37.5	178.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	12	190.	750.833	5630.	70.	2439462.879	1561.878	73.	102.5	755.	4190.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	60.	90.833	360.	40.	8081.061	89.895	40.	50.	80.	297.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	12.	28.25	206.	4.	3171.295	56.314	4.3	6.5	19.75	151.1
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/30/77-09/24/82	12	0.1	0.42	2.5	0.02	0.508	0.712	0.023	0.045	0.488	2.041

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1980 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	12	9.	9.167	19.	0.	47.424	6.887	0.15	2.	15.	18.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	12	4.5	12.792	46.	0.6	276.877	16.64	0.69	1.25	25.25	44.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	12	75.5	78.333	108.	48.	317.515	17.819	51.	66.25	94.	106.5
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	12	6.9	6.896	7.5	6.2	0.213	0.461	6.23	6.525	7.363	7.47
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	12	6.855	6.688	7.5	6.2	0.26	0.51	6.23	6.525	7.362	7.47
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	12	0.139	0.205	0.631	0.032	0.039	0.197	0.034	0.044	0.3	0.592
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	12	9.5	11.333	26.	4.	38.242	6.184	4.6	6.25	15.5	23.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	5.	5.917	14.	2.	9.356	3.059	2.6	4.	7.5	12.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	12	13.5	15.083	30.	7.	34.629	5.885	7.6	12.25	18.	26.7
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	12	750.	2825.833	19100.	350.	29230281.061	5406.504	362.	492.5	1882.5	15344.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	245.	255.833	550.	60.	20862.879	144.44	72.	145.	337.5	520.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	230.	250.833	570.	130.	15517.424	124.569	130.	147.5	322.5	504.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	200.	203.333	330.	110.	5478.788	74.019	113.	135.	252.5	327.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	12	20.	20.	30.	10.	36.364	6.03	10.	20.	20.	30.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	12	30.	44.167	100.	20.	826.515	28.749	20.	20.	67.5	97.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	11	290.	1787.273	13430.	50.	15953461.818	3994.178	70.	150.	680.	11472.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	50.	87.917	460.	5.	15652.083	125.108	6.5	35.	65.	376.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	18.	79.	472.	2.	21838.2	147.778	2.2	6.	59.	426.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/30/77-09/24/82	11	0.09	4.31	30.	0.01	80.315	8.962	0.012	0.02	6.7	25.52

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	12	8.5	9.5	20.	0.	49.591	7.042	0.	5.	16.75	20.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	12	3.5	8.425	31.	0.1	117.022	10.818	0.37	2.	13.	30.4
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	12	112.5	130.917	290.	60.	4388.447	66.245	63.	84.5	147.5	270.5
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	12	6.35	6.383	7.1	5.5	0.258	0.508	5.59	6.025	6.9	7.04
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	12	6.325	6.125	7.1	5.5	0.33	0.575	5.59	6.025	6.9	7.04
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	12	0.474	0.749	3.162	0.079	0.787	0.887	0.093	0.126	0.949	2.689
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	12	5.	7.	18.	3.	20.182	4.492	3.3	4.	9.75	16.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	8.	8.167	12.	6.	4.515	2.125	6.	6.	10.	11.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	11	29.	38.727	104.	14.	773.618	27.814	14.4	24.	42.	98.8
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	12	820.	760.833	1230.	290.	72535.606	269.324	305.	582.5	932.5	1152.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	370.	401.667	930.	90.	67833.333	260.448	102.	157.5	580.	873.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1981 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	955.	1260.	3430.	180.	878509.091	937.288	198.	655.	1720.	3088.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	920.	1188.333	3400.	170.	843833.333	918.604	185.	617.5	1577.5	3046.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	12	55.	61.667	130.	20.	851.515	29.181	23.	42.5	80.	115.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	12	80.	85.833	150.	40.	1099.242	33.155	43.	62.5	115.	144.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	12	635.	733.333	2260.	70.	382060.606	618.111	79.	232.5	1087.5	1954.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	75.	83.75	150.	25.	1896.023	43.543	32.5	50.	122.5	150.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	6.5	11.417	44.	1.	185.538	13.621	1.9	4.25	8.75	41.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/30/77-09/24/82	12	0.05	0.588	3.4	0.	1.501	1.225	0.003	0.02	0.215	3.28

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1982 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	12	10.	10.583	21.5	1.5	36.811	6.067	1.65	6.625	15.875	20.15
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	12	2.	5.167	20.	1.	35.242	5.937	1.	1.	9.	17.3
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	12	125.	123.083	190.	85.	1097.72	33.132	85.	91.25	147.5	179.5
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	12	5.95	5.783	6.6	5.	0.245	0.495	5.03	5.275	6.075	6.51
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	12	5.947	5.532	6.6	5.	0.314	0.56	5.03	5.275	6.075	6.51
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	12	1.129	2.935	10.	0.251	10.825	3.29	0.326	0.846	5.523	9.383
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	12	4.	5.083	10.	1.	9.902	3.147	1.3	2.25	8.	10.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	12	10.	11.833	20.	6.	23.606	4.859	6.6	8.	15.5	20.
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	10	41.	39.2	66.	20.	245.511	15.669	20.2	23.5	50.5	64.6
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	12	580.	540.833	750.	340.	27135.606	164.729	343.	372.5	687.5	747.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	310.	350.	580.	120.	26236.364	161.976	138.	222.5	520.	571.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	1585.	1398.333	2230.	500.	367996.97	606.628	557.	765.	1902.5	2158.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	1535.	1343.333	2030.	480.	333169.697	577.209	525.	762.5	1865.	1997.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	12	70.	71.667	110.	40.	342.424	18.505	43.	60.	80.	104.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	12	80.	85.833	120.	70.	335.606	18.32	70.	70.	97.5	120.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	12	1200.	1342.5	2960.	570.	448856.818	669.968	618.	860.	1775.	2669.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	240.	517.083	1830.	25.	276902.083	526.215	47.5	170.	815.	1581.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	12	8.	7.5	15.	3.	10.273	3.205	3.3	5.	9.	13.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/30/77-09/24/82	9	0.05	0.119	0.45	0.01	0.021	0.146	0.01	0.02	0.205	0.45

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Annual Analysis for 1983 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	11	12.	11.227	20.5	0.5	47.818	6.915	1.	5.	20.	20.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	11	6.	6.8	20.	0.2	35.576	5.965	0.28	1.	10.	18.2
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	11	120.	135.	200.	85.	1805.	42.485	87.	95.	180.	199.
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	11	5.4	5.618	6.9	4.5	0.45	0.671	4.64	5.3	6.2	6.82
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	11	5.4	5.244	6.9	4.5	0.603	0.777	4.64	5.3	6.2	6.82
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	11	3.981	5.697	31.623	0.126	78.157	8.841	0.164	0.631	5.012	26.56
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	11	4.	4.273	10.	0.	8.418	2.901	0.2	2.	6.	9.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/03/77-04/28/83	4	15.	16.5	28.	8.	75.667	8.699	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	11	40.	51.	200.	15.	2734.6	52.293	15.6	20.	60.	172.4
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	11	530.	480.	690.	190.	23880.	154.532	208.	380.	590.	682.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	11	220.	297.273	610.	70.	28781.818	169.652	88.	170.	430.	588.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	11	990.	1277.273	2690.	590.	587061.818	766.2	592.	630.	2110.	2604.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	11	990.	1258.182	2600.	560.	555816.364	745.531	562.	590.	2110.	2536.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	11	60.	60.	120.	30.	600.	24.495	32.	40.	70.	112.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	11	70.	72.727	130.	40.	561.818	23.703	42.	60.	80.	122.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	11	1160.	978.636	2410.	25.	606340.455	778.679	38.	150.	1350.	2322.

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Annual Analysis for 1983 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	11	530.	471.818	1590.	25.	217751.364	466.638	25.	50.	700.	1416.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	6.	7.364	15.	1.	21.455	4.632	1.2	5.	11.	15.

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Annual Analysis for 1984 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	12	9.75	10.	19.	0.	44.182	6.647	0.3	5.25	17.625	18.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	10	6.5	7.41	18.	0.4	45.619	6.754	0.43	0.925	15.25	17.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	12	105.	121.667	180.	80.	1378.788	37.132	83.	91.25	163.75	178.5
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	12	6.15	6.05	7.	5.4	0.294	0.542	5.4	5.45	6.375	6.94
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	12	6.147	5.795	7.	5.4	0.365	0.604	5.4	5.45	6.375	6.94
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	12	0.713	1.605	3.981	0.1	2.486	1.577	0.118	0.424	3.614	3.981
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	12	4.	7.083	22.	1.	45.902	6.775	1.3	2.	12.	20.2
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	12	27.5	30.083	50.	4.	272.447	16.506	5.8	17.5	50.	50.
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	12	480.	565.	1230.	310.	67681.818	260.157	316.	395.	705.	1101.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	12	230.	262.5	520.	100.	16075.	126.787	109.	160.	380.	481.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	12	755.	957.5	2020.	60.	373602.273	611.23	192.	527.5	1627.5	1927.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	12	730.	935.833	2090.	60.	380808.333	617.097	183.	490.	1550.	1970.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	12	60.	57.5	80.	30.	311.364	17.645	30.	42.5	70.	80.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	11	70.	87.273	160.	40.	1801.818	42.448	40.	50.	120.	156.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	12	510.	548.333	1370.	150.	148160.606	384.916	162.	210.	825.	1241.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	12	85.	200.833	740.	25.	65949.242	256.806	25.	42.5	250.	731.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	11	8.	8.091	16.	1.	22.691	4.763	1.4	4.	13.	15.6

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Annual Analysis for 1985 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	10	12.5	11.45	18.	0.	42.136	6.491	0.45	4.875	18.	18.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	10	126.5	134.6	220.	70.	2267.378	47.617	72.8	99.5	157.5	219.
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	10	5.9	6.15	7.6	5.5	0.469	0.685	5.5	5.575	6.55	7.54
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	10	5.9	5.861	7.6	5.5	0.562	0.75	5.5	5.575	6.55	7.54
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	10	1.259	1.377	3.162	0.025	1.409	1.187	0.033	0.324	2.674	3.162
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	10	4.	6.9	24.	2.	41.878	6.471	2.1	3.75	8.5	22.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	10	35.	39.	75.	18.	312.667	17.682	18.2	27.5	52.25	73.4
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	10	610.	594.	1050.	230.	53293.333	230.853	242.	447.5	687.5	1028.
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	10	370.	363.	740.	90.	30267.778	173.976	99.	247.5	430.	709.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	8	870.	888.75	1390.	350.	108755.357	329.781	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	10	965.	1187.	3100.	350.	601534.444	775.587	380.	710.	1430.	2963.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	10	55.	55.3	90.	13.	376.456	19.402	16.7	50.	62.5	88.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	9	60.	66.667	120.	50.	500.	22.361	50.	50.	75.	120.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	10	485.	555.5	1180.	35.	154202.5	392.686	48.5	200.	930.	1158.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	10	145.	159.	450.	25.	16615.556	128.901	26.	61.25	225.	429.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	10	7.5	7.5	19.	2.	22.944	4.79	2.	4.25	9.	18.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Annual Analysis for 1987 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	1	6.22	6.22	6.22	6.22	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	1	6.22	6.22	6.22	6.22	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	1	0.603	0.603	0.603	0.603	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	1	493.	493.	493.	493.	0.	0.	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	1	235.	235.	235.	235.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	1	360.	360.	360.	360.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	1	26.	26.	26.	26.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	1	940.	940.	940.	940.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	1	228.	228.	228.	228.	0.	0.	**	**	**	**

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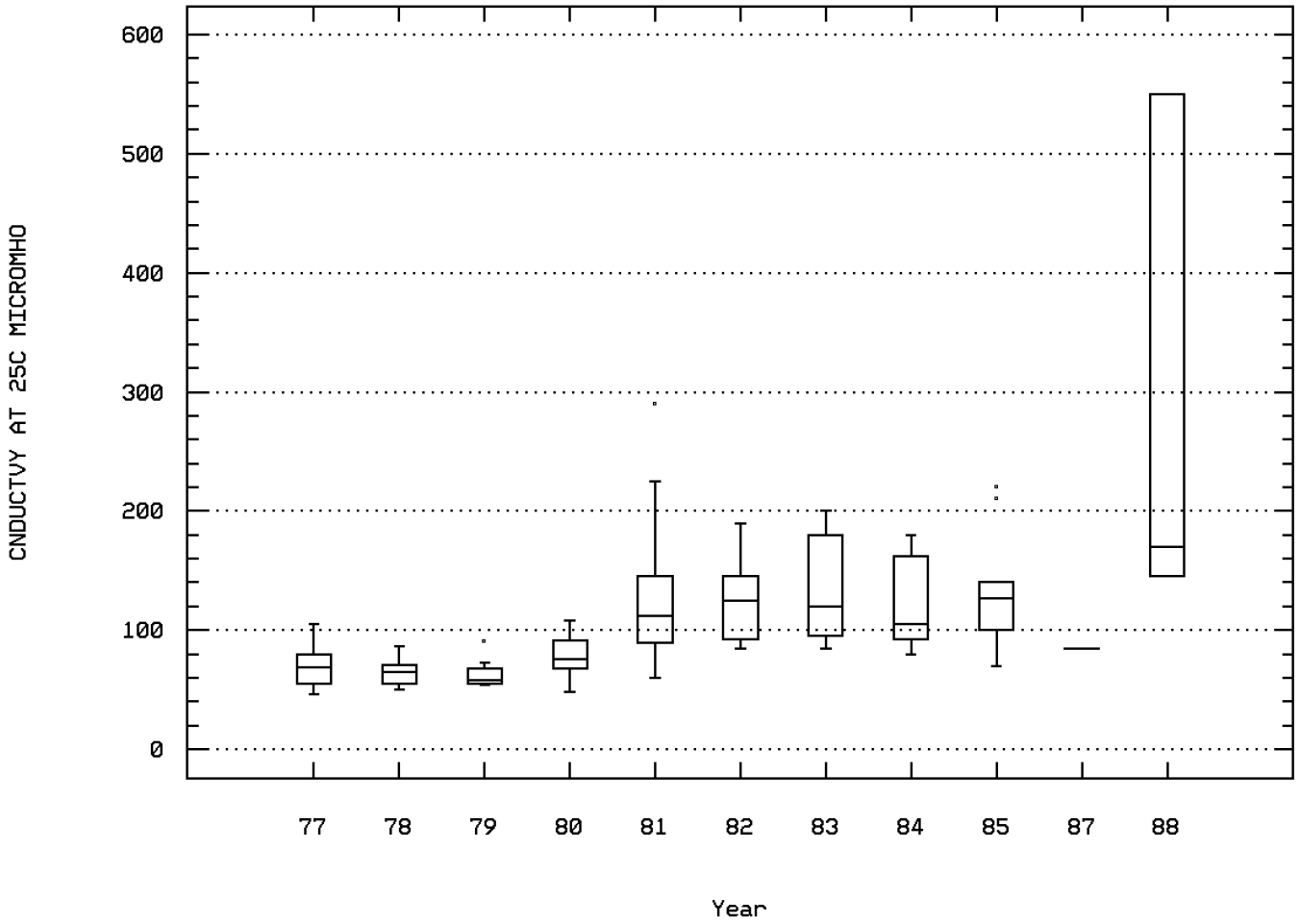
Annual Analysis for 1988 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	3	14.	14.	20.	8.	36.	6.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	3	4.	4.567	9.	0.7	17.463	4.179	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	3	170.	288.333	550.	145.	51508.333	226.954	**	**	**	**
00400p	PH (STANDARD UNITS)	03/16/77-09/21/88	3	6.6	6.537	6.94	6.07	0.192	0.438	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	3	6.6	6.392	6.94	6.07	0.224	0.473	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	3	0.251	0.406	0.851	0.115	0.153	0.392	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	3	50.	137.667	314.	49.	23320.333	152.71	**	**	**	**
01045p	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	3	374.	1240.	3070.	276.	2514076.	1585.584	**	**	**	**
01046p	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	3	201.	233.	307.	191.	4132.	64.281	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	3	937.	1127.	1870.	574.	446979.	668.565	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	2	1347.	1347.	1810.	884.	428738.	654.781	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	3	64.	60.667	72.	46.	177.333	13.317	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	3	66.	66.333	69.	64.	6.333	2.517	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	3	808.	907.667	1630.	285.	459706.333	678.016	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	3	166.	164.	172.	154.	84.	9.165	**	**	**	**

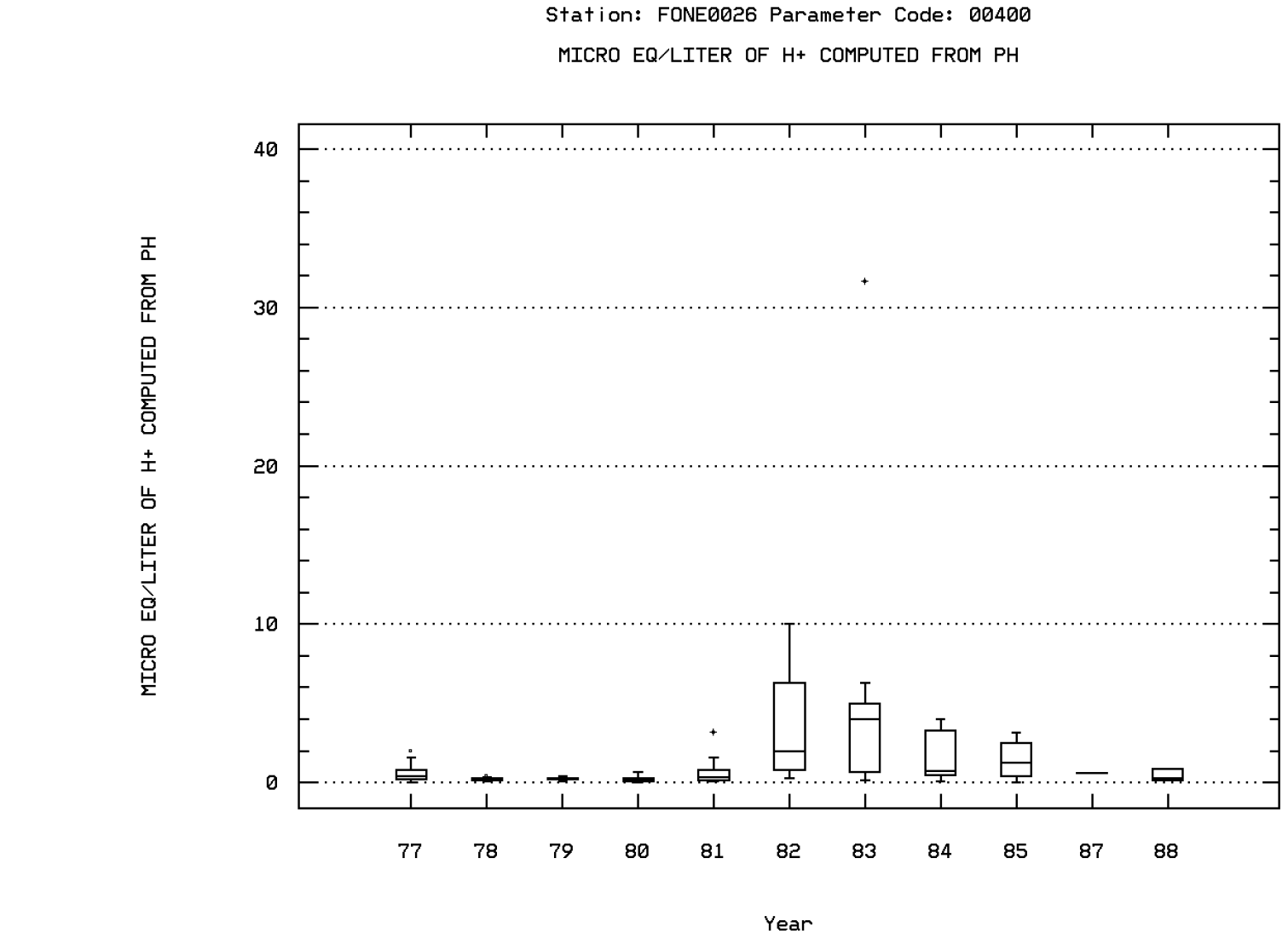
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: FONE0026 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



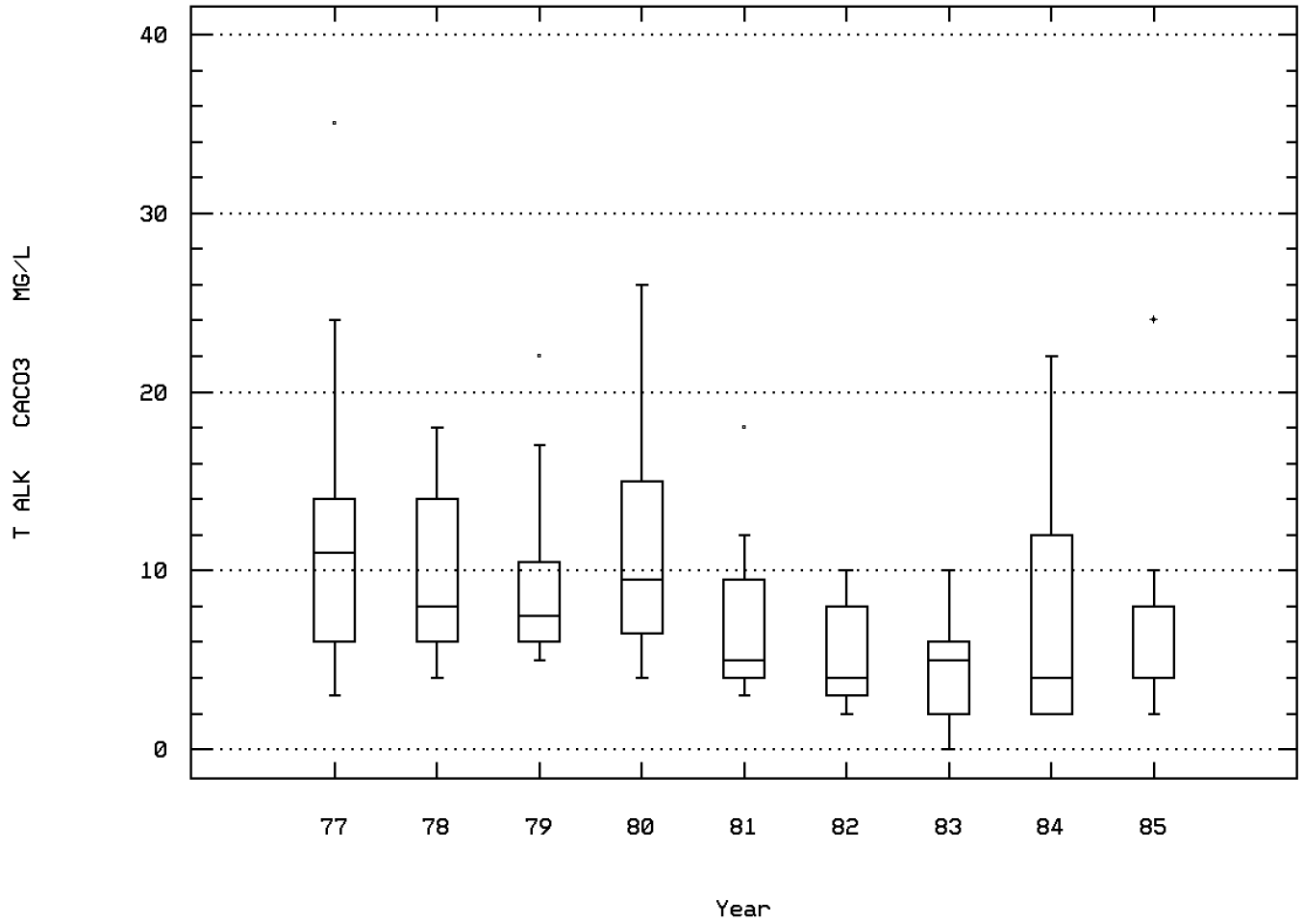
STONY FORK AT BETHEL CHAPEL, PA (44)



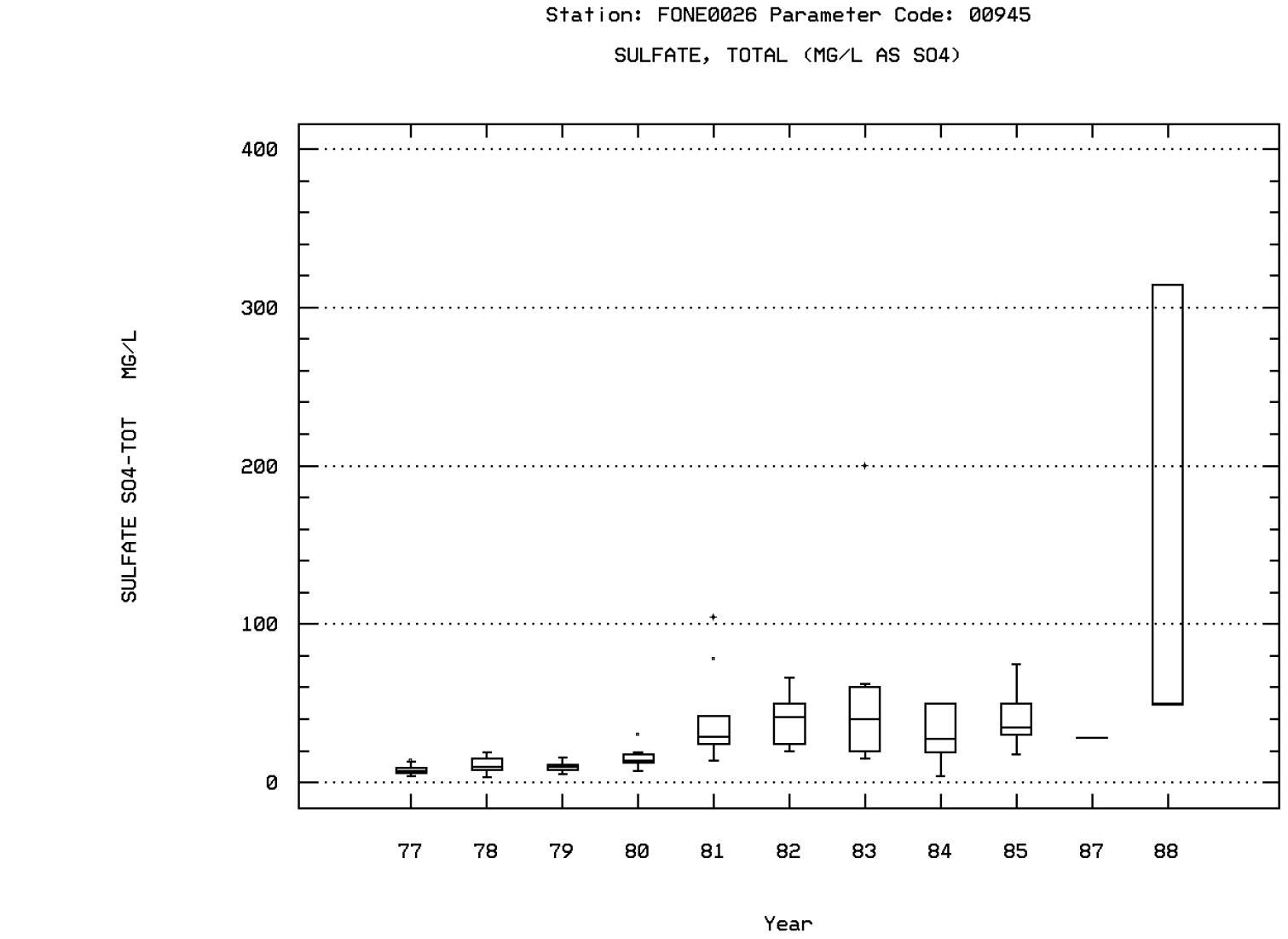
STONY FORK AT BETHEL CHAPEL, PA (44)

Station: FONE0026 Parameter Code: 00410

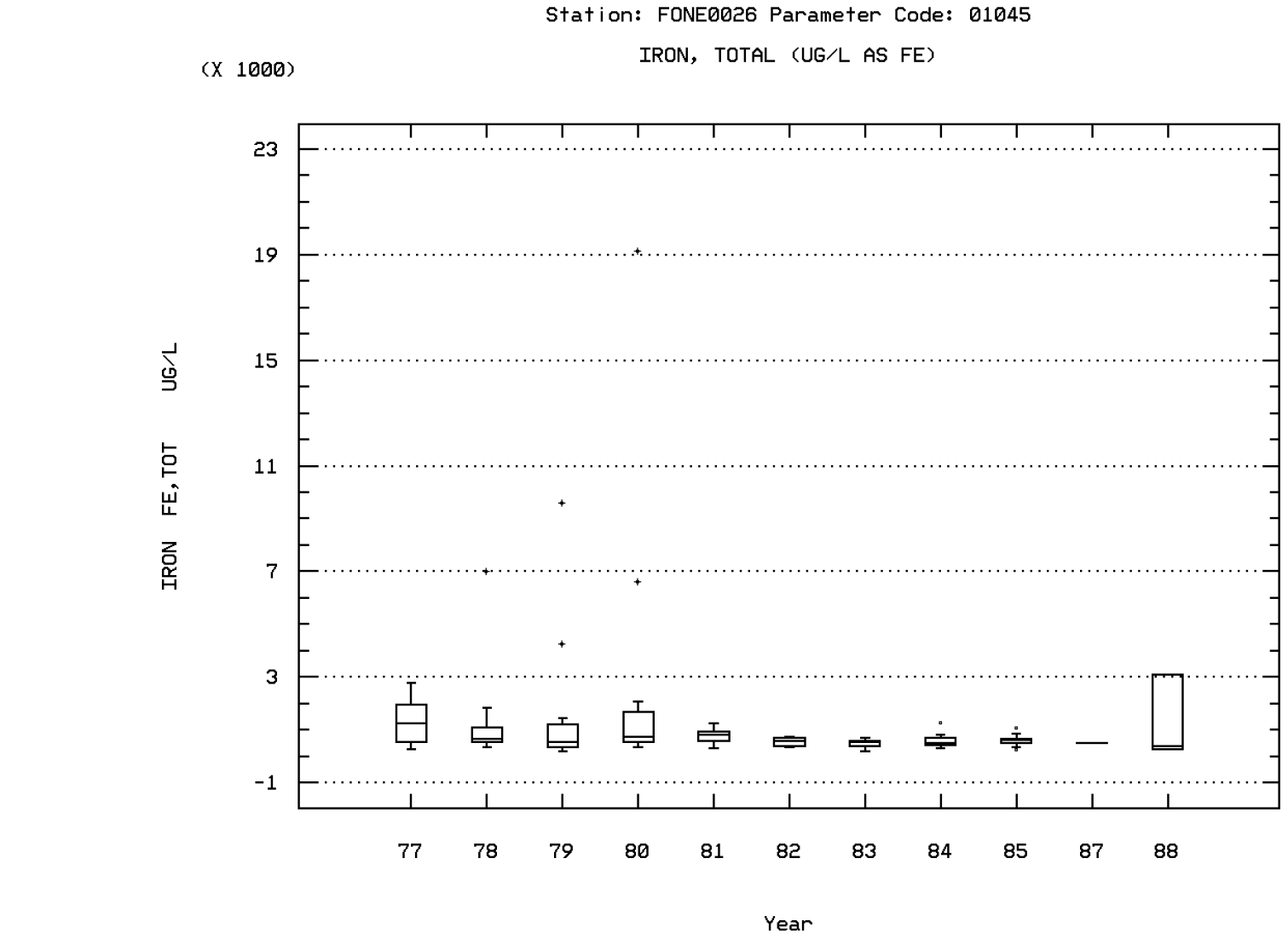
ALKALINITY, TOTAL (MG/L AS CACO3)



STONY FORK AT BETHEL CHAPEL, PA (44)



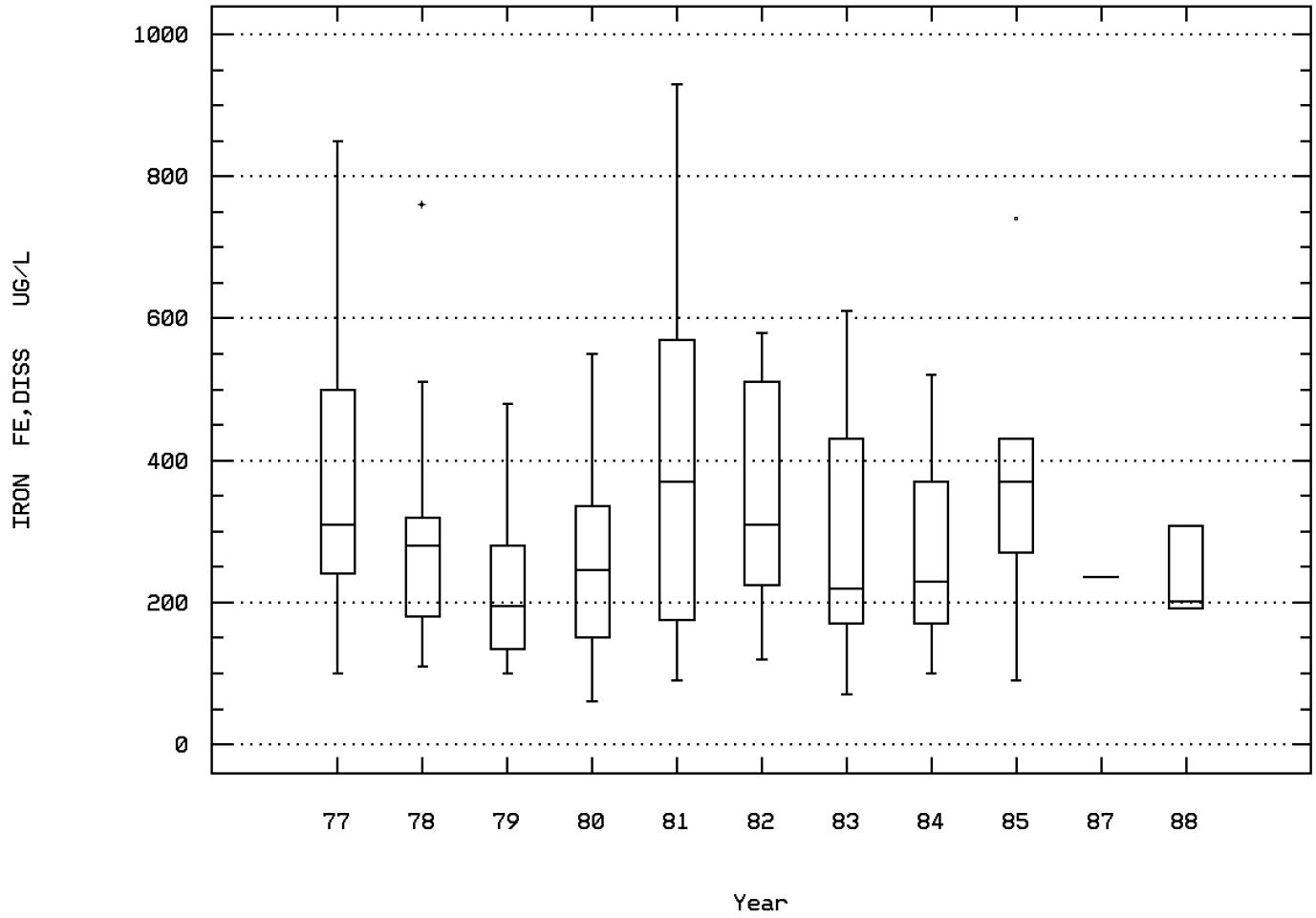
STONY FORK AT BETHEL CHAPEL, PA (44)



STONY FORK AT BETHEL CHAPEL, PA (44)

Station: FONE0026 Parameter Code: 01046

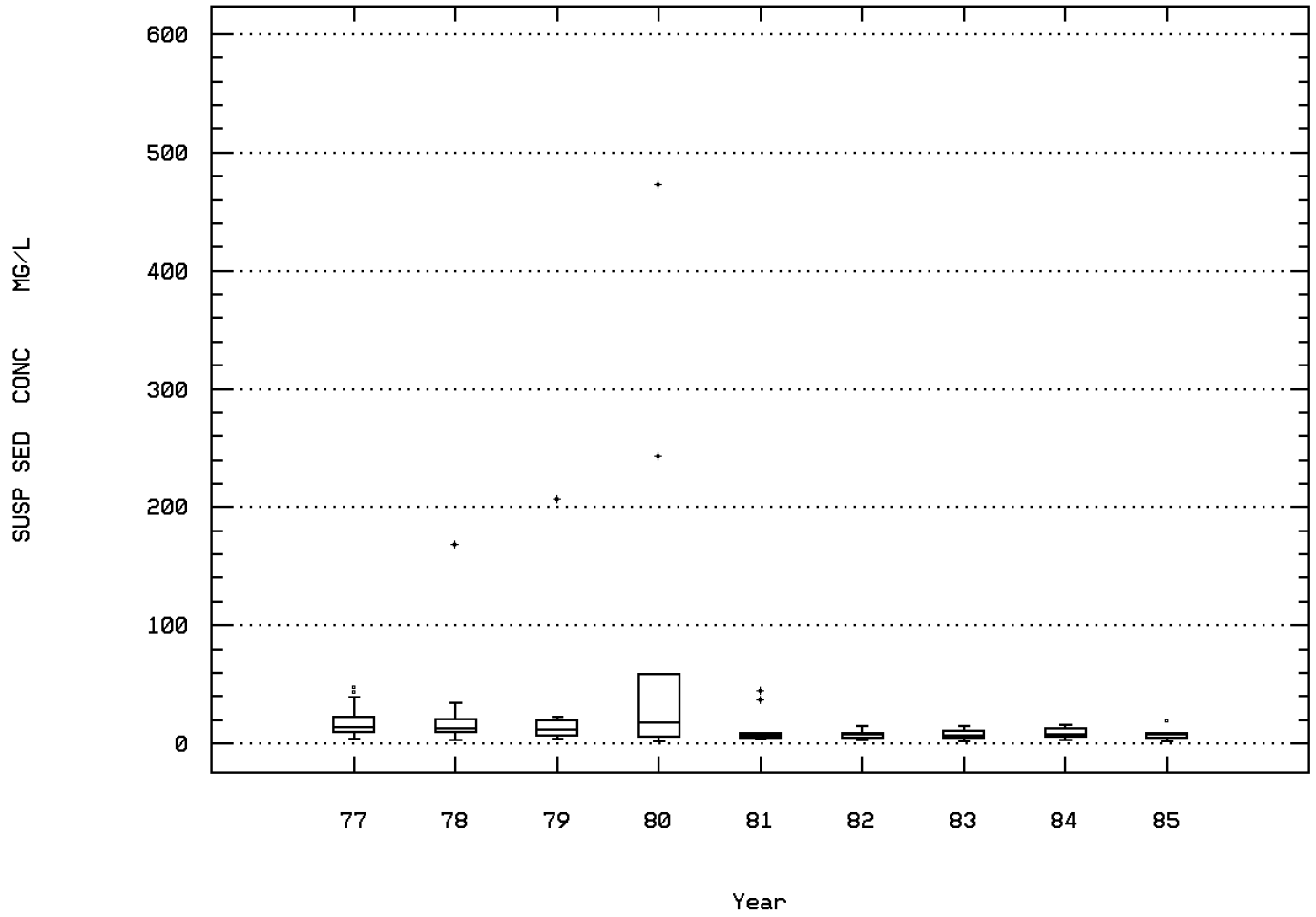
IRON, DISSOLVED (UG/L AS FE)



STONY FORK AT BETHEL CHAPEL, PA (44)

Station: FONE0026 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



STONY FORK AT BETHEL CHAPEL, PA (44)

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	54	16.5	15.935	25.	7.	18.085	4.253	9.5	11.875	19.125	21.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	34	2.	3.835	42.	0.1	53.165	7.291	0.4	0.8	4.	7.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	51	90.	114.333	290.	46.	3038.227	55.12	59.6	72.	150.	198.
00400	PH (STANDARD UNITS)	03/16/77-09/21/88	54	6.6	6.439	7.5	5.2	0.268	0.518	5.7	6.1	6.8	7.05
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	54	6.6	6.103	7.5	5.2	0.383	0.619	5.7	6.1	6.8	7.05
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	54	0.251	0.789	6.31	0.032	1.561	1.25	0.09	0.158	0.794	1.995
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	49	12.	12.776	35.	2.	49.636	7.045	6.	7.5	17.	23.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	48	13.5	31.313	200.	4.	1217.539	34.893	7.	9.	50.	66.9
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	54	960.	1503.63	19100.	170.	6517544.615	2552.948	525.	645.	1607.5	2305.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	54	360.	395.389	930.	70.	41708.544	204.227	160.	237.5	532.5	740.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	29	1140.	1207.828	3430.	90.	820939.005	906.057	120.	285.	1845.	2290.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	31	1480.	1229.484	3400.	90.	885693.591	941.113	126.	260.	1850.	2524.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	29	40.	47.483	130.	10.	1031.473	32.117	10.	20.	70.	90.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	28	67.	66.214	150.	10.	1675.36	40.931	19.	30.	90.	131.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	30	265.	867.5	13430.	25.	5797882.328	2407.879	91.	165.	665.	1155.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	30	60.	119.633	770.	5.	23740.585	154.08	25.	38.75	151.	245.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	50	10.	23.	472.	1.	4340.939	65.886	3.1	5.75	19.25	38.5

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	40	4.25	3.65	10.	0.	8.605	2.933	0.	0.5	6.	7.4
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	28	6.	9.986	46.	0.6	107.235	10.355	2.	3.	11.75	24.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	40	74.	79.6	130.	48.	477.067	21.842	54.	60.25	97.25	115.
00400	PH (STANDARD UNITS)	03/16/77-09/21/88	39	6.4	6.368	7.5	5.4	0.291	0.54	5.6	5.9	6.7	7.2
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	39	6.4	6.085	7.5	5.4	0.374	0.611	5.6	5.9	6.7	7.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	39	0.398	0.823	3.981	0.032	0.909	0.953	0.063	0.2	1.259	2.512
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	39	6.	6.795	14.	1.	11.483	3.389	3.	4.	9.	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	39	14.	16.385	40.	3.	92.19	9.602	5.	10.	24.	30.
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	40	475.	870.325	9580.	230.	2958759.61	1720.105	285.	352.5	580.	906.
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	40	255.	259.875	570.	90.	14062.163	118.584	110.	172.5	330.	427.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	31	360.	446.452	1420.	60.	113830.323	337.387	80.	140.	730.	830.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	30	290.	427.	1410.	60.	121035.517	347.902	71.	127.5	735.	819.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	31	50.	41.742	80.	10.	382.065	19.546	20.	20.	60.	70.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	31	50.	58.258	160.	20.	1028.731	32.074	20.	30.	70.	100.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	30	630.	938.333	5630.	50.	1363993.678	1167.901	74.	150.	1212.5	1940.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	31	100.	229.129	830.	25.	63711.849	252.412	28.	50.	360.	696.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	30	7.5	22.567	243.	1.	3079.289	55.491	2.1	4.	10.5	34.2

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/21/88	48	13.75	13.823	20.5	5.	19.835	4.454	7.9	9.625	17.5	20.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/30/77-09/21/88	33	6.	9.264	29.	0.7	64.362	8.023	1.4	3.	15.	21.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/16/77-09/21/88	48	75.5	95.896	550.	50.	5713.755	75.589	52.	55.75	106.	146.
00400	PH (STANDARD UNITS)	03/16/77-09/21/88	48	6.3	6.239	7.6	4.5	0.459	0.677	5.29	5.65	6.7	7.1
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/21/88	48	6.3	5.685	7.6	4.5	0.772	0.878	5.29	5.65	6.7	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/21/88	48	0.501	2.064	31.623	0.025	23.713	4.87	0.079	0.2	2.28	5.142
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/30/85	46	5.	6.109	18.	0.	16.41	4.051	2.	4.	8.25	12.
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/21/88	46	18.	25.978	314.	4.	2089.133	45.707	6.7	8.	26.75	50.
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/21/88	48	605.	906.125	6990.	250.	1098022.878	1047.866	348.	472.5	882.5	1788.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	03/30/77-09/21/88	47	250.	278.255	590.	60.	18102.325	134.545	124.	180.	350.	510.
01055	MANGANESE, TOTAL (UG/L AS MN)	03/30/77-09/21/88	29	670.	869.621	2260.	75.	424522.744	651.554	90.	375.	1310.	1920.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/30/77-09/21/88	28	680.	847.5	2280.	70.	412715.741	642.43	88.	290.	1275.	1892.
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/30/77-09/21/88	29	60.	57.103	120.	10.	805.025	28.373	20.	40.	80.	98.
01092	ZINC, TOTAL (UG/L AS ZN)	03/30/77-09/21/88	29	70.	75.621	220.	20.	1591.601	39.895	28.	60.	85.	120.
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/30/77-09/21/88	29	830.	927.793	2960.	58.	523036.67	723.213	150.	340.	1235.	2260.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/30/77-09/21/88	29	130.	308.345	1830.	9.	207461.663	455.48	40.	60.	250.	1000.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/30/77-09/30/85	43	11.	17.349	168.	2.	650.804	25.511	5.4	7.	19.	31.6

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: FONE0027

NPS Station ID: FONE0027 | LAT/LON: 39.789392/ -79.668698 | Agency: 11NPSWRD | Date Created: 04/26/97
Location: PAFA524R | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): FONE_NURE_5 /NURE_4070656
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: OHIO RIVER MAIN STEM & MINOR TRIBUTARIES | ECO Region:
RF1 Index: 05020004 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THE SITE IS LOCATED ON THE BROWNFIELD PENNSYLVANIA-FAYETTE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY WAS USED TO CREATE THE STATION LOCATION (THE 1ST 4 DIGITS REFER TO THE STATE AND THE COUNTY IN WHICH THE SITE IS LOCATED; THE NEXT 3 DIGITS REFER TO THE LOCALITY IN WHICH THE SITE IS LOCATED). NURE'S FORT NECESSITY NATIONAL BATTLEFIELD STREAM DATA WERE NOT UPLOADED TO STORET BECAUSE THE DATA DID NOT HAVE SAMPLING DATES. SAVANNAH RIVER LABORA- TORY ANALYZED THE SAMPLES. DATA WERE PROCESSED AND UPLOADED TO STORET BY KELLI O'CONNOR AT NPS-WRD FORT COLLINS CO 80525. PH(970)225-3556.

Parameter Inventory for Station: FONE0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/77-08/22/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/77-08/22/77	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/22/77-08/22/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/22/77-08/22/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/77-08/22/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/22/77-08/22/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/22/77-08/22/77	1	17.31	17.31	17.31	17.31	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/22/77-08/22/77	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/22/77-08/22/77	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/22/77-08/22/77	1	84.	84.	84.	84.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/22/77-08/22/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/22/77-08/22/77	1	144.	144.	144.	144.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/22/77-08/22/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82037	MAGNESIUM - DISSOLVED UG/L (AS MG)	08/22/77-08/22/77	1	1460.	1460.	1460.	1460.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/22/77-08/22/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0028

NPS Station ID: FONE0028 LAT/LON: 39.793337/ -79.613060 Agency: 112WRD Date Created: 07/29/89
Location: DEADMAN RUN HEADWATERS AB OAK LAKE FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 394736079364701
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 2.00 On/Off RF1:
RF3 Index: 05020006089400.53 RF3 Mile Point: 5.44 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/08/87-06/09/88	3	8.4	9.133	13.5	5.5	16.403	4.05	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/08/87-06/09/88	3	3.	6.667	15.	2.	52.333	7.234	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/08/87-06/09/88	3	82.	83.	85.	82.	3.	1.732	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/88-06/09/88	2	8.95	8.95	9.	8.9	0.005	0.071	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/88-06/09/88	2	6.7	6.7	6.8	6.6	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/88-06/09/88	2	6.689	6.689	6.8	6.6	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/88-06/09/88	2	0.205	0.205	0.251	0.158	0.004	0.066	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/08/87-04/07/88	2	6.5	6.5	6.6	6.4	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/08/87-04/07/88	2	6.489	6.489	6.6	6.4	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/08/87-04/07/88	2	0.325	0.325	0.398	0.251	0.011	0.104	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/08/87-06/09/88	3	10.	9.333	10.	8.	1.333	1.155	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/08/87-06/09/88	3	40.	39.333	48.	30.	81.333	9.018	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/08/87-06/09/88	3	16.	15.667	30.	1.	210.333	14.503	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/08/87-06/09/88	3	5.39	5.83	7.11	4.99	1.269	1.126	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/08/87-06/09/88	3	11.	10.667	12.	9.	2.333	1.528	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/08/87-06/09/88	3	14.	12.333	18.	5.	44.333	6.658	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/08/87-06/09/88	3	568.	645.667	1240.	129.	313104.333	559.557	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/08/87-06/09/88	3	201.	173.	207.	111.	2892.	53.777	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/08/87-06/09/88	3	15.	24.333	53.	5.	641.333	25.325	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/08/87-06/09/88	3	673.	862.333	1650.	264.	507134.333	712.134	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/08/87-04/07/88	2	12.	12.	24.	0.	288.	16.971	**	**	**	**
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	1	29.	29.	29.	29.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00							2	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	1	0.50				1	0	0.00	1	1	1.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	5000.	3	0	0.00				1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0029

NPS Station ID: FONE0029
LAT/LON: 39.795559/ -79.617781
Agency: 21PAMR
Date Created: 07/25/77
Location: BIG SANDY CR AT WHARTON FURNACE
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010090
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 18.90
On/Off RF1:
RF3 Index: 05020004025701.59
RF3 Mile Point: 8.64
Distance from RF3: 0.01
On/Off RF3:
Description:
BIG SANDY CREEK AT WHARTON FURNACE CHAPEL BELOW SCOTTS RUN TRIBUTARY.

Parameter Inventory for Station: FONE0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/29/77-09/01/77	6	17.	16.917	22.	11.5	21.642	4.652	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/29/77-09/01/77	6	2.5	6.567	25.	0.4	86.487	9.3	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/29/77-09/01/77	6	129.5	129.5	193.	75.	1934.7	43.985	**	**	**	**
00400	PH (STANDARD UNITS)	03/29/77-09/01/77	6	6.95	7.117	7.9	6.6	0.214	0.462	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/29/77-09/01/77	6	6.947	6.962	7.9	6.6	0.242	0.492	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/29/77-09/01/77	6	0.113	0.109	0.251	0.013	0.007	0.084	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/29/77-09/01/77	6	6.9	6.9	7.3	6.2	0.164	0.405	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/29/77-09/01/77	6	6.9	6.721	7.3	6.2	0.203	0.45	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/29/77-09/01/77	6	0.126	0.19	0.631	0.05	0.049	0.22	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/29/77-09/01/77	6	21.5	22.	36.	10.	82.8	9.099	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/77-09/01/77	5	21.	20.2	30.	11.	51.7	7.19	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/01/77	5	2.	2.2	3.	1.	0.7	0.837	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/29/77-09/01/77	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/29/77-09/01/77	6	6.5	8.167	18.	5.	23.767	4.875	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/29/77-09/01/77	6	360.	357.5	470.	190.	9757.5	98.78	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/29/77-09/01/77	6	190.	190.	280.	60.	6160.	78.486	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/77-03/29/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/29/77-03/29/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/29/77-03/29/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/77-03/29/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/29/77-03/29/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/29/77-03/29/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/77-03/29/77	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/77-03/29/77	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/29/77-03/29/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/29/77-03/29/77	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/29/77-03/29/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/77-03/29/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/29/77-03/29/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/29/77-09/01/77	6	9.	10.333	21.	4.	40.267	6.346	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00	2	0	0.00				4	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	6	1	0.17	2	1	0.50				4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00				4	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00							1	1	1.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0030

NPS Station ID: FONE0030
LAT/LON: 39.795559/ -79.617781
Agency: 21PAMR
Date Created: 07/25/77
Location: BIG SANDY CREEK AT ELLIOTSVILLE
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010110
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 15.00
On/Off RF1:
RF3 Index: 05020004003702.20
RF3 Mile Point: 2.20
Distance from RF3: 0.00
On/Off RF3:
Description:
BIG SANDY CREEK AT ELLIOTSVILLE ABOVE STONY FORK TRIBUTARY.

Parameter Inventory for Station: FONE0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/16/77-09/01/77	7	14.	16.357	22.5	9.5	27.393	5.234	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/29/77-09/01/77	5	7.	11.1	37.	0.5	216.8	14.724	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/16/77-09/01/77	7	95.	102.286	175.	61.	1667.905	40.84	**	**	**	**
00400	PH (STANDARD UNITS)	03/16/77-09/01/77	7	7.1	7.243	7.9	6.8	0.12	0.346	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/16/77-09/01/77	7	7.1	7.147	7.9	6.8	0.13	0.361	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/01/77	7	0.079	0.071	0.158	0.013	0.002	0.046	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/16/77-09/01/77	7	6.9	6.829	7.2	6.4	0.069	0.263	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/16/77-09/01/77	7	6.9	6.758	7.2	6.4	0.075	0.274	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/16/77-09/01/77	7	0.126	0.175	0.398	0.063	0.013	0.115	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/16/77-09/01/77	7	16.	17.143	35.	3.	107.476	10.367	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/77-09/01/77	5	17.	17.8	30.	11.	61.7	7.855	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/01/77	5	3.	2.2	3.	1.	1.2	1.095	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/16/77-09/01/77	5	0.	4.8	24.	0.	115.2	10.733	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/16/77-09/01/77	6	6.	7.5	15.	4.	16.3	4.037	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/16/77-09/01/77	6	365.	344.167	470.	150.	16784.167	129.554	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/29/77-09/01/77	5	170.	132.	190.	40.	4570.	67.602	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/77-03/29/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/29/77-03/29/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/29/77-03/29/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/77-03/29/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/29/77-03/29/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/29/77-03/29/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/77-03/29/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/29/77-03/29/77	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/77-03/29/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/29/77-03/29/77	1	19.	19.	19.	19.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/29/77-03/29/77	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/29/77-03/29/77	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/77-03/29/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/29/77-03/29/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/29/77-09/01/77	6	7.5	12.667	37.	6.	147.067	12.127	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	2	0	0.00				5	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	7	0	0.00	2	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	7	1	0.14	2	0	0.00				5	1	0.20			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	1	0	0.00				5	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	1	1.00							1	1	1.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0031

NPS Station ID: FONE0031 | LAT/LON: 39.796199/ -79.620503 | Agency: 11NPSWRD | Date Created: 04/26/97
Location: PAFA515R | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): FONE_NURE_3 /NURE_4070647
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: OHIO RIVER MAIN STEM & MINOR TRIBUTARIES | ECO Region:
RF1 Index: 05020004 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FORT NECESSITY PENNSYLVANIA-FAYETTE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY WAS USED TO CREATE THE STATION LOCATION (THE 1ST 4 DIGITS REFER TO THE STATE AND THE COUNTY IN WHICH THE SITE IS LOCATED; THE NEXT 3 DIGITS REFER TO THE LOCALITY IN WHICH THE SITE IS LOCATED). NURE'S FORT NECESSITY NATIONAL BATTLEFIELD STREAM DATA WERE NOT UPLOADED TO STORET BECAUSE THE DATA DID NOT HAVE SAMPLING DATES. SAVANNAH RIVER LABORA- TORY ANALYZED THE SAMPLES. DATA WERE PROCESSED AND UPLOADED TO STORET BY KELLI O'CONNOR AT NPS-WRD FORT COLLINS CO 80525. PH(970)225-3556.

Parameter Inventory for Station: FONE0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/77-08/21/77	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/77-08/21/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/21/77-08/21/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/21/77-08/21/77	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/21/77-08/21/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/77-08/21/77	1	0.78	0.78	0.78	0.78	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/77-08/21/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/21/77-08/21/77	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/77-08/21/77	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/77-08/21/77	1	49.	49.	49.	49.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/21/77-08/21/77	1	5031.	5031.	5031.	5031.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0031

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0032

NPS Station ID: FONE0032 | LAT/LON: 39.803115/ -79.595199 | Agency: 11NPSWRD | Date Created: 04/26/97
Location: PAFA514R | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): FONE_NURE_2 /NURE_4070646
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 05020004 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: OHIO RIVER MAIN STEM & MINOR TRIBUTARIES | ECO Region:
RF1 Index: 05020004 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THE SITE IS LOCATED ON THE FORT NECESSITY PENNSYLVANIA-FAYETTE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY WAS USED TO CREATE THE STATION LOCATION (THE 1ST 4 DIGITS REFER TO THE STATE AND THE COUNTY IN WHICH THE SITE IS LOCATED; THE NEXT 3 DIGITS REFER TO THE LOCALITY IN WHICH THE SITE IS LOCATED). NURE'S FORT NECESSITY NATIONAL BATTLEFIELD STREAM DATA WERE NOT UPLOADED TO STORET BECAUSE THE DATA DID NOT HAVE SAMPLING DATES. SAVANNAH RIVER LABORA- TORY ANALYZED THE SAMPLES. DATA WERE PROCESSED AND UPLOADED TO STORET BY KELLI O'CONNOR AT NPS-WRD FORT COLLINS CO 80525. PH(970)225-3556.

Parameter Inventory for Station: FONE0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/77-08/21/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/77-08/21/77	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/21/77-08/21/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/21/77-08/21/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/21/77-08/21/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/21/77-08/21/77	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/77-08/21/77	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/77-08/21/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/77-08/21/77	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/77-08/21/77	1	40.	40.	40.	40.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/21/77-08/21/77	1	36.	36.	36.	36.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0033

NPS Station ID: FONE0033 LAT/LON: 39.816670/ -79.657782 Agency: 112WRD Date Created: 07/29/89
Location: DEADMAN RUN below ALANCONNIE LAKE nr FARMINGTON FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 394900079392801
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 2.20 On/Off RF1:
RF3 Index: 05020006001003.14 RF3 Mile Point: 3.14 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-08/16/88	4	13.55	12.725	20.9	2.9	62.842	7.927	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-08/16/88	4	7.5	9.762	24.	0.05	103.926	10.194	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-08/16/88	4	134.	174.25	309.	120.	8124.25	90.135	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/16/88	3	8.4	7.233	8.5	4.8	4.443	2.108	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/88-08/16/88	3	7.2	7.233	7.4	7.1	0.023	0.153	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/88-08/16/88	3	7.2	7.216	7.4	7.1	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/88-08/16/88	3	0.063	0.061	0.079	0.04	0.	0.02	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/07/87-04/07/88	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/07/87-04/07/88	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-08/16/88	4	29.	38.5	78.	18.	726.333	26.951	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-08/16/88	4	84.	104.	202.	46.	5112.	71.498	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-08/16/88	4	22.	23.75	50.	1.	500.25	22.366	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-08/16/88	4	8.455	10.775	20.2	5.99	41.162	6.416	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-08/16/88	4	16.	20.25	36.	13.	112.25	10.595	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-08/16/88	4	19.	17.	25.	5.	72.667	8.524	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/07/87-08/16/88	4	1025.	1196.75	2460.	277.	1017328.917	1008.627	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-08/16/88	4	262.	314.5	667.	67.	65995.667	256.896	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-08/16/88	4	23.5	21.75	35.	5.	214.25	14.637	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-08/16/88	4	988.5	1107.75	2230.	224.	1076221.583	1037.411	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-06/09/88	3	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	1	49.	49.	49.	49.	0.	0.	**	**	**	**
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	1	30.	30.	30.	30.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	1	0	0.00				2	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0034

NPS Station ID: FONE0034 LAT/LON: 39.817226/ -79.658615 Agency: 112WRD Date Created: 07/29/89
Location: MEADOW RUN AT CONFLUENCE WITH DEADMAN RUN FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 394902079393101
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 7.40 On/Off RF1:
RF3 Index: 05020004026502.88 RF3 Mile Point: 2.89 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-06/09/88	3	9.8	8.733	15.	1.4	47.093	6.862	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-06/09/88	3	21.	35.	74.	10.	1171.	34.22	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-06/09/88	3	97.	94.	100.	85.	63.	7.937	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/88-06/09/88	2	9.2	9.2	9.4	9.	0.08	0.283	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/88-06/09/88	2	7.	7.	7.1	6.9	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/88-06/09/88	2	6.989	6.989	7.1	6.9	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/88-06/09/88	2	0.103	0.103	0.126	0.079	0.001	0.033	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	2	6.75	6.75	6.8	6.7	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/07/87-04/07/88	2	6.747	6.747	6.8	6.7	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/07/87-04/07/88	2	0.179	0.179	0.2	0.158	0.001	0.029	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-06/09/88	3	16.	14.667	16.	12.	5.333	2.309	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-06/09/88	3	58.	61.333	76.	50.	177.333	13.317	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-06/09/88	3	6.	12.333	30.	1.	240.333	15.503	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-06/09/88	3	6.8	6.903	8.13	5.78	1.389	1.178	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-06/09/88	3	13.	12.667	13.	12.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-06/09/88	3	15.	14.	22.	5.	73.	8.544	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/07/87-06/09/88	3	919.	1088.	2050.	295.	791427.	889.622	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-06/09/88	3	98.7	119.233	161.	98.	1308.463	36.173	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-06/09/88	3	29.	74.333	180.	14.	8430.333	91.817	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-06/09/88	3	434.	820.667	1680.	348.	555689.333	745.446	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-04/07/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	1	12.	12.	12.	12.	0.	0.	**	**	**	**
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	1	35.	35.	35.	35.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00							2	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00							2	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00							2	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	1	0.33				1	1	1.00	2	0	0.00			
		Drinking Water	5000.	3	0	0.00				1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0035

NPS Station ID: FONE0035 LAT/LON: 39.823337/ -79.660559 Agency: 112WRD Date Created: 07/29/89
Location: UN TRIB TO MEADOW RUN NE OF FARMINGTON FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 394924079393801
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 7.50 On/Off RF1:
RF3 Index: 05020004026502.88 RF3 Mile Point: 3.34 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/08/87-08/16/88	4	10.75	11.325	20.7	3.1	55.443	7.446	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/08/87-08/16/88	4	1.35	2.45	7.	0.1	9.83	3.135	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/08/87-08/16/88	4	135.	179.75	362.	87.	16624.25	128.935	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/16/88	2	9.25	9.25	10.3	8.2	2.205	1.485	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/88-08/16/88	3	7.4	7.433	7.6	7.3	0.023	0.153	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/88-08/16/88	3	7.4	7.416	7.6	7.3	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/88-08/16/88	3	0.04	0.038	0.05	0.025	0.	0.013	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/08/87-12/08/87	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/08/87-12/08/87	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/08/87-12/08/87	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/08/87-08/16/88	4	38.	47.5	92.	22.	1033.	32.14	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/08/87-08/16/88	4	113.	132.5	282.	22.	11806.333	108.657	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/08/87-08/16/88	4	15.	19.25	46.	1.	367.583	19.172	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	04/07/88-04/07/88	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/07/88-04/07/88	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/07/88-04/07/88	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/07/88-04/07/88	1	57.5	57.5	57.5	57.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/07/88-04/07/88	1	18.5	18.5	18.5	18.5	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/08/87-08/16/88	4	0.9	0.958	1.29	0.74	0.055	0.234	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/07/88-04/07/88	1	4.16	4.16	4.16	4.16	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/07/88-04/07/88	1	1.67	1.67	1.67	1.67	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/08/87-08/16/88	4	2.5	2.5	3.	2.	0.333	0.577	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/08/87-08/16/88	4	28.5	46.25	112.	16.	2060.25	45.39	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/08/87-08/16/88	4	675.5	965.75	2360.	152.	963752.25	981.709	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/07/88-04/07/88	1	226.	226.	226.	226.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/08/87-08/16/88	4	35.5	37.75	75.	5.	827.583	28.768	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/07/88-04/07/88	1	254.	254.	254.	254.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/07/88-04/07/88	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/08/87-08/16/88	4 ##	13.	13.75	24.	5.	63.583	7.974	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/08/87-08/16/88	4	327.5	819.75	2470.	154.	1220184.25	1104.62	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/07/88-04/07/88	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/08/87-12/08/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	1	16.	16.	16.	16.	0.	0.	**	**	**	**
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	1	47.	47.	47.	47.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0035

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0036

NPS Station ID: FONE0036 LAT/LON: 39.832505/ -79.509726 Agency: 112WRD Date Created: 07/29/89
Location: BEAVER CREEK @ CONFLUENCE OF MEADOW RUN FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 394957079303501
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 12.60 On/Off RF1:
RF3 Index: 05020006007500.00 RF3 Mile Point: 1.85 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-08/15/88	4	11.4	12.25	24.3	1.9	89.097	9.439	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-08/15/88	4	18.5	34.65	101.	0.6	2055.957	45.343	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-08/15/88	4	71.5	81.5	118.	65.	609.667	24.691	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/15/88	2	8.25	8.25	8.9	7.6	0.845	0.919	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/88-08/15/88	3	7.3	7.233	7.3	7.1	0.013	0.115	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/88-08/15/88	3	7.3	7.223	7.3	7.1	0.014	0.116	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/88-08/15/88	3	0.05	0.06	0.079	0.05	0.	0.017	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	2	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/07/87-04/07/88	2	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/07/87-04/07/88	2	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-08/15/88	4	18.	22.	38.	14.	120.	10.954	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-08/15/88	4	44.	49.5	86.	24.	683.667	26.147	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-08/15/88	4 ##	1.	6.25	22.	1.	110.25	10.5	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-08/15/88	4	3.125	3.053	3.63	2.33	0.393	0.627	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-08/15/88	4	6.	5.75	7.	4.	1.583	1.258	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-08/15/88	4	16.	14.	19.	5.	38.667	6.218	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/07/87-08/15/88	4	605.	570.	946.	124.	176671.333	420.323	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-08/15/88	4	64.5	61.	95.	20.	1422.	37.709	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-08/15/88	4	20.5	25.	46.	13.	208.667	14.445	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-08/15/88	4	529.	585.25	1170.	113.	279243.583	528.435	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-04/07/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	1	24.	24.	24.	24.	0.	0.	**	**	**	**
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	1	28.	28.	28.	28.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0037

NPS Station ID: FONE0037 LAT/LON: 39.832505/ -79.510281 Agency: 112WRD Date Created: 07/29/89
Location: MEADOW RUN AT CONFLUENCE OF BEAVER CREEK FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 394957079303701
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 4.60 On/Off RF1:
RF3 Index: 05020006001000.00 RF3 Mile Point: 0.03 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-08/15/88	4	12.25	12.625	24.7	1.3	94.822	9.738	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-08/15/88	4	25.5	41.253	114.	0.01	2556.642	50.563	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-08/15/88	4	100.	116.75	189.	78.	2427.583	49.271	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/15/88	2	6.9	6.9	8.9	4.9	8.	2.828	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/88-08/15/88	3	7.	7.033	7.3	6.8	0.063	0.252	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/88-08/15/88	3	7.	6.988	7.3	6.8	0.066	0.258	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/88-08/15/88	3	0.1	0.103	0.158	0.05	0.003	0.054	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	2	6.85	6.85	6.9	6.8	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/07/87-04/07/88	2	6.847	6.847	6.9	6.8	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/07/87-04/07/88	2	0.142	0.142	0.158	0.126	0.001	0.023	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-08/15/88	4	23.	23.5	34.	14.	67.667	8.226	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-08/15/88	4	75.	72.25	138.	1.	3154.917	56.169	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-08/15/88	4	5.	4.75	8.	1.	8.917	2.986	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-08/15/88	4	5.275	5.215	6.04	4.27	0.593	0.77	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-08/15/88	4	11.	11.5	16.	8.	11.	3.317	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-08/15/88	4	20.5	19.5	32.	5.	123.	11.091	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/07/87-08/15/88	4	439.5	656.25	1520.	226.	362481.583	602.064	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-08/15/88	4	95.	113.25	215.	48.	5578.25	74.688	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-08/15/88	4 ##	18.5	20.25	39.	5.	318.25	17.84	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-08/15/88	4	180.	444.	1310.	106.	334554.667	578.407	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-04/07/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	1	15.	15.	15.	15.	0.	0.	**	**	**	**
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	1	28.	28.	28.	28.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0037

				Total	Exceed	Prop.	----------7/01-10/31----------			----------11/01-3/14----------			----------3/15-6/30----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0038

NPS Station ID: FONE0038 LAT/LON: 39.835281/ -79.508059 Agency: 112WRD Date Created: 07/29/89
Location: MEADOW RUN AT MEADOW RUN VALLEY CHURCH FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 395007079302901
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 4.30 On/Off RF1:
RF3 Index: 05020006001000.00 RF3 Mile Point: 0.03 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: FONE0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/07/87-08/15/88	4	12.2	12.5	24.8	0.8	99.647	9.982	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	12/07/87-08/15/88	4	44.	75.8	215.	0.2	9208.827	95.963	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/87-08/15/88	4	89.	93.75	116.	81.	258.25	16.07	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/07/88-08/15/88	2	7.9	7.9	8.8	7.	1.62	1.273	**	**	**	**
00400	PH (STANDARD UNITS)	04/07/88-08/15/88	3	7.2	7.2	7.3	7.1	0.01	0.1	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/07/88-08/15/88	3	7.2	7.192	7.3	7.1	0.01	0.1	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/07/88-08/15/88	3	0.063	0.064	0.079	0.05	0.	0.015	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	12/07/87-04/07/88	2	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/07/87-04/07/88	2	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/07/87-04/07/88	2	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/07/87-08/15/88	4	18.	20.5	32.	14.	65.	8.062	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/07/87-08/15/88	4	48.	53.5	80.	38.	377.	19.416	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/07/87-08/15/88	4	12.	16.75	42.	1.	352.917	18.786	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/07/87-08/15/88	4	3.935	4.043	5.25	3.05	0.921	0.96	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/07/87-08/15/88	4	9.	8.75	11.	6.	6.917	2.63	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	12/07/87-08/15/88	4	17.	15.25	22.	5.	52.917	7.274	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/07/87-08/15/88	4	542.	584.	1100.	152.	227848.667	477.335	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/07/87-08/15/88	4	69.	64.5	98.	22.	1373.667	37.063	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/07/87-08/15/88	4	14.5	18.25	39.	5.	212.917	14.592	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/07/87-08/15/88	4	294.	490.25	1220.	153.	252366.917	502.361	**	**	**	**
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/07/87-04/07/88	2	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/09/88-06/09/88	1	14.	14.	14.	14.	0.	0.	**	**	**	**
80180	TOTAL SEDIMENT CONC. (SUSP. PLUS BED LOAD) MG/L	04/07/88-04/07/88	1	26.	26.	26.	26.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00				2	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0039

NPS Station ID: FONE0039
LAT/LON: 39.835281/ -79.508337
Agency: 112WRD
Date Created: 09/08/79
Location: MEADOW RN NR FARMINGTON, PA
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03081650
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020006
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020006008
RF1 Mile Point: 3.520
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 05020005004100.72
RF3 Mile Point: 1.47
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/13/79-08/12/81	5	17.	12.4	19.5	3.	57.175	7.561	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/13/79-08/12/81	5	8.	45.2	135.	2.	3542.7	59.521	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-08/12/81	5	100.	113.4	150.	90.	687.8	26.226	**	**	**	**
00400	PH (STANDARD UNITS)	06/13/79-08/12/81	5	6.8	6.63	7.25	6.	0.307	0.554	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/13/79-08/12/81	5	6.8	6.375	7.25	6.	0.388	0.623	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/13/79-08/12/81	5	0.158	0.422	1.	0.056	0.195	0.441	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/24/81-08/12/81	2	7.35	7.35	7.6	7.1	0.125	0.354	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/24/81-08/12/81	2	7.282	7.282	7.6	7.1	0.134	0.367	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/24/81-08/12/81	2	0.052	0.052	0.079	0.025	0.001	0.038	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/13/79-08/12/81	5	8.	11.	23.	5.	49.5	7.036	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	04/03/80-04/03/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00686	CARBON, INORGANIC, IN BED MATERIAL (GM/KG AS C)	08/23/80-08/23/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	08/23/80-08/23/80	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00693	CARBON, ORGANIC+INORG.-BOTTOM MAT. (GM/KG)	08/23/80-08/23/80	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/13/79-08/12/81	5	11.	10.8	13.	9.	2.2	1.483	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/23/80-08/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/23/80-08/23/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/23/80-08/23/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	08/23/80-08/23/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/23/80-08/23/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	06/13/79-08/12/81	5	290.	286.	340.	220.	3080.	55.498	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/13/79-08/12/81	5	350.	344.	420.	230.	6630.	81.425	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/13/79-08/12/81	5	10.	57.	180.	5.	5695.	75.465	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/23/80-08/23/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/23/80-08/23/80	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	06/13/79-08/12/81	5	0.	12.	30.	0.	270.	16.432	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/13/79-08/12/81	5	40.	46.	90.	20.	730.	27.019	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/13/79-08/12/81	5	50.	40.	60.	10.	400.	20.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/23/80-08/23/80	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	08/23/80-08/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/23/80-08/23/80	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/03/80-08/12/81	4	71.	72.25	96.	51.	420.25	20.5	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/03/80-08/12/81	4	9.165	10.265	21.9	0.83	119.723	10.942	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/03/80-08/12/81	4	0.095	0.098	0.13	0.07	0.001	0.028	**	**	**	**
71825	ACIDITY, TOTAL (MG/L AS H)	04/03/80-04/03/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/23/80-08/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	06/13/79-08/12/81	5	8.	7.2	10.	3.	7.7	2.775	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/13/79-08/12/81	5	0.18	0.764	2.9	0.05	1.482	1.217	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
82031	COAL IN BOTTOM MATERIAL DRY WEIGHT GRAMS/KG	08/23/80-08/23/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0039

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	5	0	0.00	2	0	0.00				3	0	0.00			
		Other-Lo Lim.	6.5	5	2	0.40	2	0	0.00				3	2	0.67			
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	2	0	0.00				3	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0040

NPS Station ID: FONE0040
LAT/LON: 39.842393/ -79.507003
Agency: 11NPSWRD
Date Created: 04/26/97
Location: PAFA598R
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): FONE_NURE_8 /NURE_4070730
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020006
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: OHIO RIVER MAIN STEM & MINOR TRIBUTARIES
ECO Region:
RF1 Index: 05020006
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SOUTH CONNELLSVILLE PENNSYLVANIA-FAYETTE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY WAS USED TO CREATE THE STATION LOCATION (THE 1ST 4 DIGITS REFER TO THE STATE AND THE COUNTY IN WHICH THE SITE IS LOCATED; THE NEXT 3 DIGITS REFER TO THE LOCALITY IN WHICH THE SITE IS LOCATED). NURE'S FORT NECESSITY NATIONAL BATTLEFIELD STREAM DATA WERE NOT UPLOADED TO STORET BECAUSE THE DATA DID NOT HAVE SAMPLING DATES. SAVANNAH RIVER LABORA- TORY ANALYZED THE SAMPLES. DATA WERE PROCESSED AND UPLOADED TO STORET BY KELLI O'CONNOR AT NPS-WRD FORT COLLINS CO 80525. PH(970)225-3556.

Parameter Inventory for Station: FONE0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/25/77-10/25/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/25/77-10/25/77	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/25/77-10/25/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/25/77-10/25/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/25/77-10/25/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	10/25/77-10/25/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/25/77-10/25/77	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/25/77-10/25/77	1	28.	28.	28.	28.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/25/77-10/25/77	1	44.	44.	44.	44.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/25/77-10/25/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/25/77-10/25/77	1	161.	161.	161.	161.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/25/77-10/25/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	10/25/77-10/25/77	1	113.	113.	113.	113.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	10/25/77-10/25/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0041

NPS Station ID: FONE0041
LAT/LON: 39.846115/ -79.639171
Agency: 112WRD
Date Created: / /
Location: BIG SANDY CREEK NR CHALKHILL, PA (1)
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03070400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020006014400.00
RF3 Mile Point: 0.61
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/75-06/06/78	19	9.5	8.737	18.	0.	29.288	5.412	0.5	5.	12.5	17.5
00058	FLOW, RATE GALLONS/MIN	04/26/71-04/26/71	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-06/06/78	4	2.	2.225	4.	0.9	2.336	1.528	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/07/75-05/28/76	5	2.6	2.82	4.9	0.7	3.427	1.851	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	04/26/71-04/26/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/71-06/06/78	22	247.5	221.136	460.	45.	15407.838	124.128	51.5	81.25	307.5	381.7
00300	OXYGEN, DISSOLVED MG/L	10/07/75-05/28/76	6	12.9	12.8	14.4	11.5	1.052	1.026	**	**	**	**
00400	PH (STANDARD UNITS)	04/26/71-06/06/78	19	7.1	7.079	8.	6.4	0.187	0.433	6.5	6.8	7.2	7.8
00400	CONVERTED PH (STANDARD UNITS)	04/26/71-06/06/78	19	7.1	6.912	8.	6.4	0.217	0.466	6.5	6.8	7.2	7.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/26/71-06/06/78	19	0.079	0.122	0.398	0.01	0.011	0.104	0.016	0.063	0.158	0.316
00405	CARBON DIOXIDE (MG/L AS CO2)	04/26/71-04/26/71	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/71-06/06/78	22	17.	20.591	80.	8.	240.634	15.512	8.3	12.	22.75	38.2
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-06/06/78	13	3.	2.615	5.	1.	1.256	1.121	1.	2.	3.	4.6
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	10/07/75-08/27/76	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	10/07/75-06/06/78	19	0.	0.211	4.	0.	0.842	0.918	0.	0.	0.	0.
00440	BICARBONATE ION (MG/L AS HCO3)	04/26/71-04/26/71	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/26/71-04/26/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/07/75-08/27/76	5	45.	44.6	50.	35.	33.3	5.771	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/75-08/27/76	7 ##	0.1	0.121	0.4	0.05	0.016	0.125	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/16/76-08/27/76	4 ##	0.01	0.01	0.016	0.003	0.	0.005	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/26/71-04/26/71	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/07/75-08/27/76	4	0.5	0.557	1.009	0.22	0.147	0.383	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/26/71-04/26/71	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/75-08/27/76	6 ##	0.075	0.067	0.11	0.01	0.002	0.042	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/26/71-04/26/71	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/26/71-08/27/76	8	27.	39.375	120.	19.	1120.268	33.47	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/26/71-04/26/71	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/26/71-08/27/76	8	6.75	10.1	33.	3.2	91.591	9.57	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/26/71-08/27/76	8	2.85	3.263	7.8	1.	4.277	2.068	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/26/71-04/26/71	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/26/71-04/26/71	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/26/71-04/26/71	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/26/71-04/26/71	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/26/71-08/27/76	8	9.	9.5	16.	3.	26.571	5.155	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/71-06/06/78	22	7.5	10.614	37.	0.5	80.427	8.968	4.3	5.75	12.5	29.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/26/71-04/26/71	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/26/71-04/26/71	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/77-10/04/77	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/75-10/04/77	3	2.	17.667	50.	1.	784.333	28.006	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/29/77-10/04/77	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/29/77-10/04/77	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/26/71-10/04/77	3 ##	1.	0.667	1.	0.	0.333	0.577	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/75-10/04/77	3 ##	1.	4.	10.	1.	27.	5.196	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/77-10/04/77	2 ##	5.5	5.5	10.	1.	40.5	6.364	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/75-10/04/77	3 ##	10.	12.333	25.	2.	136.333	11.676	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/29/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/77-10/04/77	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/75-10/04/77	3 ##	10.	15.	25.	10.	75.	8.66	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/07/75-06/06/78	20	215.	268.25	650.	100.	18829.671	137.221	121.	165.	350.	447.
01046	IRON, DISSOLVED (UG/L AS FE)	04/26/71-06/06/78	14	80.	167.143	1200.	30.	90545.055	300.907	35.	57.5	155.	690.
01049	LEAD, DISSOLVED (UG/L AS PB)	04/26/71-10/04/77	3 ##	1.	0.667	1.	0.	0.333	0.577	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/75-10/04/77	3 ##	2.	2.667	5.	1.	4.333	2.082	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/75-10/04/77	3	25.	25.	30.	20.	25.	5.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/26/71-10/04/77	3	20.	28.333	60.	5.	808.333	28.431	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/29/77-10/04/77	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/75-10/04/77	3	20.	18.333	25.	10.	58.333	7.638	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/29/77-10/04/77	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/26/71-10/04/77	3	20.	23.333	30.	20.	33.333	5.774	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/75-10/04/77	3	20.	20.	20.	20.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	10/07/75-10/04/77	3	390.	276.333	400.	39.	42270.333	205.598	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/29/77-10/04/77	2	22.5	22.5	40.	5.	612.5	24.749	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/77-10/04/77	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/77-10/04/77	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/26/71-04/26/71	1	179.	179.	179.	179.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/26/71-04/26/71	1	170.	170.	170.	170.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/26/71-04/26/71	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/26/71-04/26/71	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/77-10/04/77	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/75-10/04/77	3 ##	0.25	0.333	0.5	0.25	0.021	0.144	**	**	**	**
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	04/26/71-04/26/71	1	20.	20.	20.	20.	0.	0.	**	**	**	**
72016	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT BELOW LSD)	04/26/71-04/26/71	1	117.	117.	117.	117.	0.	0.	**	**	**	**
72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	04/26/71-04/26/71	1	20.	20.	20.	20.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/29/77-06/06/78	10	14.5	18.6	41.	6.	139.822	11.825	6.2	9.5	30.	40.2
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	06/07/77-06/06/78	5	0.06	0.118	0.27	0.02	0.014	0.118	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/01-10/31---------- Obs	Exceed	Prop.	----------11/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	5	0	0.00	1	0	0.00	3	0	0.00	1	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	6	0	0.00	1	0	0.00	4	0	0.00	1	0	0.00			
00400	PH	Other-Hi Lim.	9.	19	0	0.00	4	0	0.00	7	0	0.00	8	0	0.00			
		Other-Lo Lim.	6.5	19	2	0.11	4	0	0.00	7	1	0.14	8	1	0.13			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	2	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	250.	8	0	0.00	2	0	0.00	4	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	22	0	0.00	5	0	0.00	8	0	0.00	9	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	50.	2 &	0	0.00	1	0	0.00				1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00				2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2 &	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2 &	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2 &	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	3	0	0.00	2	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00				2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	15.	3	0	0.00	2	0	0.00				1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00				2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	5000.	3	0	0.00	2	0	0.00				1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	2.	3	0	0.00	2	0	0.00				1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Seasonal Analysis for Season #1: 7/01 to 10/31 - Station FONE0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/71-06/06/78	5	235.	228.4	460.	85.	22422.8	149.742	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/71-06/06/78	5	22.	25.4	40.	13.	126.8	11.261	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/71-06/06/78	5	8.	7.5	12.	0.5	21.	4.583	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #2: 11/01 to 3/14 - Station FONE0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/71-06/06/78	8	116.	175.875	385.	45.	21014.696	144.964	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/71-06/06/78	8	15.	14.375	21.	8.	20.268	4.502	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/71-06/06/78	8	5.5	10.5	35.	4.	109.429	10.461	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Seasonal Analysis for Season #3: 3/15 to 6/30 - Station FONE0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/26/71-06/06/78	9	265.	257.333	374.	70.	7290.75	85.386	70.	225.	313.5	374.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/26/71-06/06/78	9	17.	23.444	80.	8.	488.278	22.097	8.	12.	26.	80.
00945	SULFATE, TOTAL (MG/L AS SO4)	04/26/71-06/06/78	9	9.	12.444	37.	6.	95.028	9.748	6.	7.	14.5	37.

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station Inventory for Station: FONE0042

NPS Station ID: FONE0042
LAT/LON: 39.846670/ -79.639448
Agency: 21PAMR
Date Created: 07/25/77
Location: BIG SANDY CREEK AT ROUTE 40
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SM010010
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020004
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: MONONGAHELA RIVER
ECO Region:
RF1 Index: 05020004
RF1 Mile Point: 0.000
Distance from RF1: 9.80
On/Off RF1:
RF3 Index: 05020004010700.00
RF3 Mile Point: 3.64
Distance from RF3: 0.01
On/Off RF3:
Description:
BIG SANDY CREEK HEADWATER TRIBUTARY AT ROUTE 40 MIDWAY BETWEEN CHALKHILL AND SUMMIT.

Parameter Inventory for Station: FONE0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/29/77-09/01/77	6	13.75	14.	18.	9.5	11.6	3.406	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/07/77-08/02/77	3	0.2	0.4	0.8	0.2	0.12	0.346	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/29/77-09/01/77	6	300.	316.5	460.	210.	8273.5	90.959	**	**	**	**
00400	PH (STANDARD UNITS)	03/29/77-09/01/77	6	7.15	7.067	7.8	6.5	0.223	0.472	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/29/77-09/01/77	6	7.147	6.881	7.8	6.5	0.264	0.514	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/29/77-09/01/77	6	0.071	0.131	0.316	0.016	0.015	0.122	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/29/77-09/01/77	6	6.75	6.85	7.4	6.5	0.123	0.351	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/29/77-09/01/77	6	6.725	6.751	7.4	6.5	0.135	0.367	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/29/77-09/01/77	6	0.189	0.177	0.316	0.04	0.012	0.111	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/29/77-09/01/77	6	26.	26.	40.	13.	102.4	10.119	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/77-09/01/77	5	25.	26.4	35.	14.	73.3	8.562	**	**	**	**
00435	ACIDITY, TOTAL (MG/L AS CACO3)	05/04/77-09/01/77	5	2.	2.	3.	1.	0.5	0.707	**	**	**	**
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	03/29/77-09/01/77	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/29/77-09/01/77	6	7.	7.833	12.	6.	4.567	2.137	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/29/77-03/29/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/29/77-03/29/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/29/77-03/29/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/29/77-09/01/77	6	272.5	275.833	390.	180.	7744.167	88.001	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/29/77-09/01/77	6	75.	103.333	180.	60.	3146.667	56.095	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/29/77-03/29/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/29/77-03/29/77	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/29/77-03/29/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/29/77-03/29/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/29/77-03/29/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/29/77-03/29/77	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/29/77-03/29/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

Parameter Inventory for Station: FONE0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/29/77-03/29/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/29/77-03/29/77	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/29/77-03/29/77	1	39.	39.	39.	39.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/29/77-03/29/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/29/77-03/29/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/29/77-03/29/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/29/77-03/29/77	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/29/77-09/01/77	6	14.5	19.667	41.	8.	162.267	12.738	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	6	1	0.17	2	0	0.00				4	1	0.25			
00403	PH, LAB	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00				4	0	0.00			
		Other-Lo Lim.	6.5	6	1	0.17	2	1	0.50				4	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	2	0	0.00				4	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0042

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
	Drinking Water	2.	1	0	0.00							1	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0043

NPS Station ID: FONE0043
LAT/LON: 39.867781/ -79.694448
Agency: 112WRD
Date Created: / /
Location: LICK RUN AT HOPWOOD, PA.
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03074300
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 9.80
On/Off RF1:
RF3 Index: 05020005003902.06
RF3 Mile Point: 2.05
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/03/65-09/17/69	6	13.5	12.917	20.	6.	35.642	5.97	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	11/03/65-09/17/69	6	0.7	78.15	460.	0.2	35001.151	187.086	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/03/65-04/15/69	5	3.	3.6	6.	2.	2.3	1.517	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/03/65-09/17/69	6	379.	336.167	476.	166.	20328.167	142.577	**	**	**	**
00400	PH (STANDARD UNITS)	11/03/65-09/17/69	6	7.1	7.1	7.7	6.5	0.208	0.456	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/03/65-09/17/69	6	7.1	6.917	7.7	6.5	0.248	0.498	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/03/65-09/17/69	6	0.079	0.121	0.316	0.02	0.013	0.115	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/03/65-09/17/69	6	37.5	34.167	56.	12.	332.567	18.236	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/03/65-09/17/69	6	46.	41.833	68.	15.	488.967	22.113	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/03/65-09/06/68	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/03/65-09/17/69	6	90.	83.	118.	42.	1100.4	33.172	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/03/65-09/17/69	6	49.5	49.	69.	30.	265.2	16.285	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/02/68-09/17/69	4	29.	27.25	38.	13.	132.25	11.5	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/02/68-09/17/69	4	5.25	4.9	6.	3.1	1.607	1.268	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/03/65-04/13/67	2	29.	29.	43.	15.	392.	19.799	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/03/65-04/15/69	5	1.9	15.16	42.	0.9	380.073	19.495	**	**	**	**
00932	SODIUM, PERCENT	11/03/65-04/15/69	3	44.	44.	48.	40.	16.	4.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	04/15/69-04/15/69	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/03/65-09/17/69	6	42.5	49.333	88.	9.	1075.867	32.8	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/03/65-09/17/69	6	25.	24.667	31.	19.	18.267	4.274	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/15/69-04/15/69	1	108.	108.	108.	108.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/15/69-04/15/69	1	134.	134.	134.	134.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/15/69-04/15/69	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/03/65-04/15/69	5	1.4	1.68	4.	0.6	1.792	1.339	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0043

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	6	1	0.17	3	0	0.00	1	0	0.00	2	1	0.50			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0043

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0044

NPS Station ID: FONE0044 | LAT/LON: 39.880809/ -79.541198 | Agency: 11NPSWRD | Date Created: 04/26/97
Location: PAFA635R | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): FONE_NURE_7 /NURE_4070767
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020006 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: OHIO RIVER MAIN STEM & MINOR TRIBUTARIES | ECO Region:
RF1 Index: 05020006 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SOUTH CONNELLSVILLE PENNSYLVANIA-FAYETTE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY WAS USED TO CREATE THE STATION LOCATION (THE 1ST 4 DIGITS REFER TO THE STATE AND THE COUNTY IN WHICH THE SITE IS LOCATED; THE NEXT 3 DIGITS REFER TO THE LOCALITY IN WHICH THE SITE IS LOCATED). NURE'S FORT NECESSITY NATIONAL BATTLEFIELD STREAM DATA WERE NOT UPLOADED TO STORET BECAUSE THE DATA DID NOT HAVE SAMPLING DATES. SAVANNAH RIVER LABORA- TORY ANALYZED THE SAMPLES. DATA WERE PROCESSED AND UPLOADED TO STORET BY KELLI O'CONNOR AT NPS-WRD FORT COLLINS CO 80525. PH(970)225-3556.

Parameter Inventory for Station: FONE0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/28/77-10/28/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/28/77-10/28/77	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/28/77-10/28/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/28/77-10/28/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/77-10/28/77	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/28/77-10/28/77	1	0.79	0.79	0.79	0.79	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/28/77-10/28/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/28/77-10/28/77	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/28/77-10/28/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/28/77-10/28/77	1	315.	315.	315.	315.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/28/77-10/28/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	10/28/77-10/28/77	1	11.	11.	11.	11.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	10/28/77-10/28/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0045

NPS Station ID: FONE0045
LAT/LON: 39.886892/ -79.604116
Agency: 11NPSWRD
Date Created: 04/26/97
Location: PAFA512R
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): FONE_NURE_1 /NURE_4070644
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020006
Depth of Water: 0
Aquifer:
Major Basin: OHIO RIVER
Elevation: 0
Water Body Id:
Minor Basin: OHIO RIVER MAIN STEM & MINOR TRIBUTARIES
ECO Region:
RF1 Index: 05020006
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 05020005003021.13
RF3 Mile Point: 21.12
Distance from RF3: 0.05
On/Off RF3:
Description:
THE SITE IS LOCATED ON THE SOUTH CONNELLSVILLE PENNSYLVANIA-FAYETTE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY WAS USED TO CREATE THE STATION LOCATION (THE 1ST 4 DIGITS REFER TO THE STATE AND THE COUNTY IN WHICH THE SITE IS LOCATED; THE NEXT 3 DIGITS REFER TO THE LOCALITY IN WHICH THE SITE IS LOCATED). NURE'S FORT NECESSITY NATIONAL BATTLEFIELD STREAM DATA WERE NOT UPLOADED TO STORET BECAUSE THE DATA DID NOT HAVE SAMPLING DATES. SAVANNAH RIVER LABORA- TORY ANALYZED THE SAMPLES. DATA WERE PROCESSED AND UPLOADED TO STORET BY KELLI O'CONNOR AT NPS-WRD FORT COLLINS CO 80525. PH(970)225-3556.

Parameter Inventory for Station: FONE0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/21/77-08/21/77	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/21/77-08/21/77	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/21/77-08/21/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/21/77-08/21/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/21/77-08/21/77	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/21/77-08/21/77	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/77-08/21/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/77-08/21/77	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/77-08/21/77	1	587.	587.	587.	587.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/21/77-08/21/77	1	11.	11.	11.	11.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/21/77-08/21/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0046

NPS Station ID: FONE0046
LAT/LON: 39.900004/ -79.657503
Agency: 112WRD
Date Created: 02/28/78
Location: 3 905426927
FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 395400079392701
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 05020005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 05020005
RF1 Mile Point: 0.000
Distance from RF1: 18.40
On/Off RF1:
RF3 Index: 05020005039401.88
RF3 Mile Point: 2.52
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: FONE0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/15/26-10/15/26	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	10/15/26-10/15/26	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/15/26-10/15/26	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/15/26-10/15/26	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/15/26-10/15/26	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/15/26-10/15/26	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/15/26-10/15/26	1	0.43	0.43	0.43	0.43	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/15/26-10/15/26	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/15/26-10/15/26	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/15/26-10/15/26	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/15/26-10/15/26	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/15/26-10/15/26	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/15/26-10/15/26	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/15/26-10/15/26	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/15/26-10/15/26	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/15/26-10/15/26	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/15/26-10/15/26	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/15/26-10/15/26	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/15/26-10/15/26	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/15/26-10/15/26	1	160.	160.	160.	160.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/15/26-10/15/26	1	98.	98.	98.	98.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/15/26-10/15/26	1	97.	97.	97.	97.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/15/26-10/15/26	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
72019	DEPTH TO WATER LEVEL (FEET BELOW LAND SURFACE)	10/15/26-10/15/26	1	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Station: FONE0046

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station Inventory for Station: FONE0047

NPS Station ID: FONE0047 | LAT/LON: 39.900504/ -79.639698 | Agency: 11NPSWRD | Date Created: 04/26/97
Location: PAFA528R | FIPS State/County: 42051 PENNSYLVANIA/FAYETTE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): FONE_NURE_6 /NURE_4070660
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 05020006 | Depth of Water: 0 | Aquifer:
Major Basin: OHIO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: OHIO RIVER MAIN STEM & MINOR TRIBUTARIES | ECO Region:
RF1 Index: 05020006 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: 05020005003021.13 | RF3 Mile Point: 21.12 | Distance from RF3: 0.05 | On/Off RF3:
Description:
THE SITE IS LOCATED ON THE UNIONTOWN PENNSYLVANIA-FAYETTE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY WAS USED TO CREATE THE STATION LOCATION (THE 1ST 4 DIGITS REFER TO THE STATE AND THE COUNTY IN WHICH THE SITE IS LOCATED; THE NEXT 3 DIGITS REFER TO THE LOCALITY IN WHICH THE SITE IS LOCATED). NURE'S FORT NECESSITY NATIONAL BATTLEFIELD STREAM DATA WERE NOT UPLOADED TO STORET BECAUSE THE DATA DID NOT HAVE SAMPLING DATES. SAVANNAH RIVER LABORA- TORY ANALYZED THE SAMPLES. DATA WERE PROCESSED AND UPLOADED TO STORET BY KELLI O'CONNOR AT NPS-WRD FORT COLLINS CO 80525. PH(970)225-3556.

Parameter Inventory for Station: FONE0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/77-08/22/77	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/77-08/22/77	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/22/77-08/22/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/22/77-08/22/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/77-08/22/77	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00431	ALKALINITY TOTAL FIELD, (MG/L AS CACO3)	08/22/77-08/22/77	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/22/77-08/22/77	1	10.58	10.58	10.58	10.58	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/22/77-08/22/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/22/77-08/22/77	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/22/77-08/22/77	1	47.	47.	47.	47.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/22/77-08/22/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/22/77-08/22/77	1	95.	95.	95.	95.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/22/77-08/22/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82037	MAGNESIUM - DISSOLVED UG/L (AS MG)	08/22/77-08/22/77	1	2310.	2310.	2310.	2310.	0.	0.	**	**	**	**
82298	BROMIDE DISSOLVED AS BR IN WATER UG/L	08/22/77-08/22/77	1	32.	32.	32.	32.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	08/22/77-08/22/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding time series plot

EPA Water Quality Criteria Analysis for Station: FONE0047

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire FONE Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	27	0	0.00	8	0	0.00	10	0	0.00	9	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	23	0	0.00	7	0	0.00	9	0	0.00	7	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	85	0	0.00	23	0	0.00	15	0	0.00	47	0	0.00			
00400	PH	Other-Hi Lim.	9.	1204	1	0.00	427	0	0.00	311	0	0.00	466	1	0.00			
		Other-Lo Lim.	6.5	1204	563	0.47	427	191	0.45	311	165	0.53	466	207	0.44			
00403	PH, LAB	Other-Hi Lim.	9.	264	0	0.00	79	0	0.00	54	0	0.00	131	0	0.00			
		Other-Lo Lim.	6.5	264	119	0.45	79	33	0.42	54	28	0.52	131	58	0.44			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	71	0	0.00	22	0	0.00	27	0	0.00	22	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	71	0	0.00	24	0	0.00	25	0	0.00	22	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00719	CYANIDE, FREE,IN WATER&WASTEWATERS, HBG	Fresh Acute	22.	2	2	1.00	2	2	1.00									
		Drinking Water	200.	2	0	0.00	2	0	0.00									
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	2	1.00	2	2	1.00									
		Drinking Water	0.2	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	183	0	0.00	51	0	0.00	59	0	0.00	73	0	0.00			
		Drinking Water	250.	183	0	0.00	51	0	0.00	59	0	0.00	73	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	8	0	0.00	8	0	0.00									
		Drinking Water	250.	8	0	0.00	8	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1192	91	0.08	399	38	0.10	327	23	0.07	466	30	0.06			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	4	0	0.00	3	0	0.00				1	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	69	0	0.00	18	0	0.00	19	0	0.00	32	0	0.00			
00997	ARSENIC, INORGANIC TOT	Fresh Acute	360.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	105	0	0.00	42	0	0.00	15	0	0.00	48	0	0.00			
		Drinking Water	50.	105	1	0.01	42	0	0.00	15	1	0.07	48	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	110	0	0.00	47	0	0.00	14	0	0.00	49	0	0.00			
		Drinking Water	50.	108 &	0	0.00	45	0	0.00	14	0	0.00	49	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	43	0	0.00	22	0	0.00				21	0	0.00			
		Drinking Water	4.	2 &	2	1.00	2	2	1.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	43	0	0.00	22	0	0.00				21	0	0.00			
		Drinking Water	4.	3 &	3	1.00	3	3	1.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	97 &	4	0.04	36	2	0.06	13	0	0.00	48	2	0.04			
		Drinking Water	5.	97 &	2	0.02	36	0	0.00	13	0	0.00	48	2	0.04			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	111 &	11	0.10	44	2	0.05	17	2	0.12	50	7	0.14			
		Drinking Water	5.	111 &	10	0.09	44	1	0.02	17	2	0.12	50	7	0.14			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	124	0	0.00	59	0	0.00	14	0	0.00	51	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	137	0	0.00	69	0	0.00	17	0	0.00	51	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	125	10	0.08	60	6	0.10	14	0	0.00	51	4	0.08			
		Drinking Water	1300.	125	0	0.00	60	0	0.00	14	0	0.00	51	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	131 &	13	0.10	64	8	0.13	16	1	0.06	51	4	0.08			
		Drinking Water	1300.	138	0	0.00	70	0	0.00	17	0	0.00	51	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	106	0	0.00	41	0	0.00	14	0	0.00	51	0	0.00			
		Drinking Water	15.	98 &	0	0.00	35	0	0.00	13	0	0.00	50	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	118	0	0.00	51	0	0.00	17	0	0.00	50	0	0.00			
		Drinking Water	15.	106 &	1	0.01	42	0	0.00	15	0	0.00	49	1	0.02			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	125	3	0.02	60	1	0.02	14	0	0.00	51	2	0.04			
		Drinking Water	100.	125	10	0.08	60	6	0.10	14	0	0.00	51	4	0.08			
01067	NICKEL, TOTAL	Fresh Acute	1400.	138	4	0.03	70	1	0.01	17	0	0.00	51	3	0.06			
		Drinking Water	100.	138	11	0.08	70	7	0.10	17	0	0.00	51	4	0.08			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	43	1	0.02	22	0	0.00				21	1	0.05			
		Drinking Water	100.	43	0	0.00	22	0	0.00				21	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	43	1	0.02	22	0	0.00				21	1	0.05			
		Drinking Water	100.	43	0	0.00	22	0	0.00				21	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	607	106	0.17	194	41	0.21	202	28	0.14	211	37	0.18			
		Drinking Water	5000.	607	0	0.00	194	0	0.00	202	0	0.00	211	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	655	138	0.21	219	53	0.24	212	37	0.17	224	48	0.21			
		Drinking Water	5000.	655	0	0.00	219	0	0.00	212	0	0.00	224	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	111	0	0.00	46	0	0.00	14	0	0.00	51	0	0.00			
		Drinking Water	50.	111	0	0.00	46	0	0.00	14	0	0.00	51	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

EPA Water Quality Criteria Analysis for Entire FONE Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/01-10/31 Obs	7/01-10/31 Exceed	7/01-10/31 Prop.	11/01-3/14 Obs	11/01-3/14 Exceed	11/01-3/14 Prop.	3/15-6/30 Obs	3/15-6/30 Exceed	3/15-6/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147	SELENIUM, TOTAL	Fresh Acute	20.	110	1	0.01	46	0	0.00	13	0	0.00	51	1	0.02			
		Drinking Water	50.	110	0	0.00	46	0	0.00	13	0	0.00	51	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	8	0	0.00	8	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	43	20	0.47	14	9	0.64	17	8	0.47	12	3	0.25			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	116	0	0.00	52	0	0.00	14	0	0.00	50	0	0.00			
		Drinking Water	2.	116	0	0.00	52	0	0.00	14	0	0.00	50	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	119 &	0	0.00	55	0	0.00	13	0	0.00	51	0	0.00			
		Drinking Water	2.	119 &	0	0.00	55	0	0.00	13	0	0.00	51	0	0.00			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	20	1	0.05	6	0	0.00	9	1	0.11	5	0	0.00			

& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Missing Level I Groups

No STORET Data Within the FONE Study Area Exist for These Groups:

Chlorophyll*

*Not A Priority Parameter

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Present Level I Groups

STORET Data Within the FONE Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1050	120	909	21	35
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	63	0	63	0	14
00435	ACIDITY, TOTAL (MG/L AS CACO3)	655	0	655	0	28
00440	BICARBONATE ION (MG/L AS HCO3)	8	0	0	8	3
00445	CARBONATE ION (MG/L AS CO3)	6	0	0	6	3
		1782	120	1627	35	83 (38)[!]

pH		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	1204	162	1031	11	46
00403	PH, LAB (STANDARD UNITS)	264	109	142	13	31
		1468	271	1173	24	77 (46)[!]

Conductivity		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	96	0	95	1	16
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	1145	173	953	19	31
		1241	173	1048	20	47 (46)[!]

Dissolved Oxygen		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00300	OXYGEN, DISSOLVED (MG/L)	85	22	59	4	17
		85	22	59	4	17 (17)[!]

Water Temperature		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	1216	167	1038	11	47
		1216	167	1038	11	47 (47)[!]

Flow		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00058	FLOW RATE, GALLONS/MIN.	2	0	0	2	2
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	1	0	0	1	1
00060	FLOW, STREAM, MEAN DAILY CFS	6	0	0	6	1
00061	FLOW, STREAM, INSTANTANEOUS CFS	961	112	849	0	36
00065	STAGE, STREAM (FEET)	280	20	260	0	9
		1250	132	1109	9	49 (39)[!]

[!]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Clarity/Turbidity		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	27	0	16	11	2
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	23	0	23	0	1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	115	112	3	0	16
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	20	12	8	0	1
		185	124	50	11	20 (17)[!]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	76	12	52	12	2
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	2	0	0	2	2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	71	12	46	13	2
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	1	1	0	0	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	7	0	0	7	3
		157	25	98	34	10 (5)[!]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	1	0	0	1	1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	75	12	50	13	2
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	2	1	0	1	2
		78	13	50	15	5 (3)[!]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	120	12	87	21	14
00945	SULFATE, TOTAL (MG/L AS SO4)	1192	174	998	20	39
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	7	0	4	3	4
		1319	186	1089	44	57 (39)[!]

Bacteria		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	43	12	31	0	1
		43	12	31	0	1 (1)[!]

[!]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

Toxic Elements		Total Obs.	01/01/85 to 06/28/94	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	3	0	0	3	1
01000	ARSENIC, DISSOLVED (UG/L AS AS)	105	13	91	1	24
01002	ARSENIC, TOTAL (UG/L AS AS)	110	12	95	3	24
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	43	0	43	0	24
01012	BERYLLIUM, TOTAL (UG/L AS BE)	43	0	43	0	24
01025	CADMIUM, DISSOLVED (UG/L AS CD)	99	5	93	1	24
01027	CADMIUM, TOTAL (UG/L AS CD)	113	9	101	3	25
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	124	13	111	0	25
01034	CHROMIUM, TOTAL (UG/L AS CR)	137	16	118	3	26
01040	COPPER, DISSOLVED (UG/L AS CU)	125	13	112	0	25
01042	COPPER, TOTAL (UG/L AS CU)	138	16	119	3	26
01049	LEAD, DISSOLVED (UG/L AS PB)	106	13	92	1	25
01051	LEAD, TOTAL (UG/L AS PB)	118	16	99	3	26
71890	MERCURY, DISSOLVED (UG/L AS HG)	116	13	103	0	25
71900	MERCURY, TOTAL (UG/L AS HG)	122	12	107	3	26
01065	NICKEL, DISSOLVED (UG/L AS NI)	125	13	112	0	25
01067	NICKEL, TOTAL (UG/L AS NI)	138	16	119	3	26
01145	SELENIUM, DISSOLVED (UG/L AS SE)	111	13	98	0	25
01147	SELENIUM, TOTAL (UG/L AS SE)	110	12	98	0	25
01075	SILVER, DISSOLVED (UG/L AS AG)	43	0	43	0	24
01077	SILVER, TOTAL (UG/L AS AG)	43	0	43	0	24
01090	ZINC, DISSOLVED (UG/L AS ZN)	607	133	473	1	26
01092	ZINC, TOTAL (UG/L AS ZN)	655	164	488	3	33
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	2	0	2	0	1
00720	CYANIDE, TOTAL (MG/L AS CN)	2	0	2	0	1
		3338	502	2805	31	560 (33)[1]

[1]Since a station can have data for more than one of the parameters in the parameter group, the number in the parenthesis is the number of unique stations having data for this parameter group.

NPS Servicewide Inventory and Monitoring Program Level I

Water Quality Parameter Inventory Data Evaluation and Analysis:

Park Summary: Level I Group Currentness and Distribution

Parameter Group	Total Obs.	Obs. Since 1985	% Obs. Since 1985	Stations Measuring This Group	% of Total Stations Measuring This Group	Obs. Per Station Measuring This Group	Period of Record For This Group	Observations Per Year of Period of Record
Alkalinity	1782	120	6.7	38	80.9	46.9	10/15/26-06/28/94	26.3
pH	1468	271	18.5	46	97.9	31.9	11/03/65-06/28/94	51.2
Conductivity	1241	173	13.9	46	97.9	27.0	11/03/65-06/28/94	43.3
Dissolved Oxygen	85	22	25.9	17	36.2	5.0	08/09/72-08/16/88	5.3
Water Temperature	1216	167	13.7	47	100.0	25.9	10/15/26-06/28/94	18.0
Flow	1250	132	10.6	39	83.0	32.1	10/15/26-06/28/94	18.5
Clarity/Turbidity	185	124	67.0	17	36.2	10.9	09/21/72-06/28/94	8.5
Nitrate/Nitrogen	157	25	15.9	5	10.6	31.4	10/15/26-04/07/88	2.6
Phosphate/Phosphorus	78	13	16.7	3	6.4	26.0	04/26/71-04/07/88	4.6
Chlorophyll	0	0	0.0	0	0.0	0.0	No Data For Group	0.0
Sulfates/Total Dissolved Solids/Hardness	1319	186	14.1	39	83.0	33.8	10/15/26-06/28/94	19.5
Bacteria	43	12	27.9	1	2.1	43.0	09/20/77-11/02/87	4.2
Toxic Elements	3338	502	15.0	33	70.2	101.2	04/26/71-06/28/94	144.0

Water Quality Observations
Outside STORET Edit Criteria for FONE

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FONE0003	01055	MANGANESE, TOTAL (UG/L AS MN)	880727	1130	6270.0000000	112WRD	03070420	
FONE0003	01055	MANGANESE, TOTAL (UG/L AS MN)	880824	1345	6190.0000000	112WRD	03070420	
FONE0003	01055	MANGANESE, TOTAL (UG/L AS MN)	880908	1110	14700.0000000	112WRD	03070420	
FONE0003	01055	MANGANESE, TOTAL (UG/L AS MN)	930624	1030	5060.0000000	112WRD	03070420	
FONE0003	01055	MANGANESE, TOTAL (UG/L AS MN)	930721	1120	6880.0000000	112WRD	03070420	
FONE0003	01055	MANGANESE, TOTAL (UG/L AS MN)	930825	1130	5050.0000000	112WRD	03070420	
FONE0003	01056	MANGANESE, DISSOLVED (UG/L AS MN)	880727	1130	5980.0000000	112WRD	03070420	
FONE0003	01056	MANGANESE, DISSOLVED (UG/L AS MN)	880824	1345	6190.0000000	112WRD	03070420	
FONE0003	01056	MANGANESE, DISSOLVED (UG/L AS MN)	880908	1110	14700.0000000	112WRD	03070420	
FONE0003	01056	MANGANESE, DISSOLVED (UG/L AS MN)	930624	1030	5170.0000000	112WRD	03070420	
FONE0003	01056	MANGANESE, DISSOLVED (UG/L AS MN)	930721	1120	6880.0000000	112WRD	03070420	
FONE0003	01105	ALUMINUM, TOTAL (UG/L AS AL)	800708	1500	30310.0000000	112WRD	03070420	
FONE0003	01105	ALUMINUM, TOTAL (UG/L AS AL)	870415	1130	51600.0000000	112WRD	03070420	
FONE0006	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	770803	1220	770.0000000	21PAMR	SM0100I0	
FONE0006	01045	IRON, TOTAL (UG/L AS FE)	770504	1330	95000.0000000	21PAMR	SM0100I0	
FONE0006	01045	IRON, TOTAL (UG/L AS FE)	770608	1000	106000.0000000	21PAMR	SM0100I0	
FONE0006	01045	IRON, TOTAL (UG/L AS FE)	770628	1045	111000.0000000	21PAMR	SM0100I0	
FONE0006	01045	IRON, TOTAL (UG/L AS FE)	770803	1220	167500.0000000	21PAMR	SM0100I0	
FONE0006	01045	IRON, TOTAL (UG/L AS FE)	770901	1505	159250.0000000	21PAMR	SM0100I0	
FONE0006	01046	IRON, DISSOLVED (UG/L AS FE)	770504	1330	93750.0000000	21PAMR	SM0100I0	
FONE0006	01046	IRON, DISSOLVED (UG/L AS FE)	770608	1000	104250.0000000	21PAMR	SM0100I0	
FONE0006	01046	IRON, DISSOLVED (UG/L AS FE)	770628	1045	107000.0000000	21PAMR	SM0100I0	
FONE0006	01046	IRON, DISSOLVED (UG/L AS FE)	770803	1220	166000.0000000	21PAMR	SM0100I0	
FONE0006	01046	IRON, DISSOLVED (UG/L AS FE)	770901	1505	158750.0000000	21PAMR	SM0100I0	
FONE0007	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	770803	1220	770.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	770504	1330	95000.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	770608	1000	106000.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	770628	1045	111000.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	770803	1220	167500.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	770901	1505	159200.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	771004	1030	224500.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	771102	0930	131000.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	771130	1010	102300.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	780105	1000	97600.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	780301	0930	147800.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	780509	1700	63000.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	780808	1300	87600.0000000	112WRD	03070460	
FONE0007	01045	IRON, TOTAL (UG/L AS FE)	780906	1430	125900.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	770504	1330	93750.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	770608	1000	104200.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	770628	1045	107000.0000000	112WRD	03070460	

Water Quality Observations
Outside STORET Edit Criteria for FONE

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	770803	1220	166000.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	770901	1505	158700.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	771004	1030	221500.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	771102	0930	130400.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	771130	1010	102300.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	780105	1000	96400.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	780301	0930	145400.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	780509	1700	60300.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	780808	1300	66000.0000000	112WRD	03070460	
FONE0007	01046	IRON, DISSOLVED (UG/L AS FE)	780906	1430	125600.0000000	112WRD	03070460	
FONE0007	01105	ALUMINUM, TOTAL (UG/L AS AL)	771004	1030	33000.0000000	112WRD	03070460	
FONE0007	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	771004	1030	31250.0000000	112WRD	03070460	
FONE0008	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	891229	1400	999.0000000	112WRD	03070455	X
FONE0008	01055	MANGANESE, TOTAL (UG/L AS MN)	850903	0815	6490.0000000	112WRD	03070455	
FONE0008	01055	MANGANESE, TOTAL (UG/L AS MN)	880727	0935	5410.0000000	112WRD	03070455	
FONE0008	01055	MANGANESE, TOTAL (UG/L AS MN)	880824	1300	7120.0000000	112WRD	03070455	
FONE0008	01056	MANGANESE, DISSOLVED (UG/L AS MN)	880727	0935	5110.0000000	112WRD	03070455	
FONE0008	01056	MANGANESE, DISSOLVED (UG/L AS MN)	880824	1300	6780.0000000	112WRD	03070455	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	790403	1730	6450.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	790509	1500	6500.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	790702	1500	5550.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	790802	1115	12780.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	790912	1300	26900.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	791016	1230	33050.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	791107	1300	31900.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800107	1340	23400.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800214	1030	16250.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800305	1520	19850.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800402	1430	37600.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800514	1400	24080.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800603	1100	28120.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800708	1435	27720.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800819	1400	30570.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	800915	1230	27890.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	801021	1320	24150.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	801105	1230	25470.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	801217	1130	33150.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810130	1125	31960.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810218	1145	42750.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810326	0930	68050.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810424	1400	64700.0000000	112WRD	03070440	

Water Quality Observations
Outside STORET Edit Criteria for FONE

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810529	1315	60400.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810616	1215	86800.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810727	1200	59300.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810828	1330	53440.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	810925	1300	61300.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	811026	1200	63500.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	811127	0945	66250.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	811221	1100	69800.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	820128	1115	75180.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	820225	1230	58300.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	820323	1000	64700.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	820429	1235	68100.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	820521	1130	71900.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	820624	1045	84400.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	820819	1200	69000.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	820924	1125	65800.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	821015	1200	71900.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	821119	1315	70200.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	821228	1320	71500.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830121	1310	65300.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830225	1240	74700.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830328	1300	66500.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830428	1315	60800.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830525	1320	61000.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830628	1245	67100.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830721	1310	70500.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830815	1300	64400.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	830923	1330	64500.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	831027	1220	62300.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	831121	1330	67600.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840103	1340	62600.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840131	1240	62800.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840224	1345	62500.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840409	1200	60600.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840504	1100	53800.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840531	1230	46700.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840628	1300	48400.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840727	1140	47700.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840831	1115	53400.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	840928	1115	54900.0000000	112WRD	03070440	
FONE0019	01055	MANGANESE, TOTAL (UG/L AS MN)	880621	1150	48200.0000000	112WRD	03070440	

Water Quality Observations
Outside STORET Edit Criteria for FONE

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790403	1730	6300.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790509	1500	6500.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790702	1500	5410.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790802	1115	6140.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	790912	1300	26650.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	791016	1230	31900.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	791107	1300	31400.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800107	1340	22900.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800214	1030	16200.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800514	1400	23140.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800603	1100	28050.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800819	1400	30140.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	800915	1230	27220.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	801021	1320	23800.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	801105	1230	23720.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	801217	1130	30730.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810130	1125	29860.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810218	1145	42200.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810326	0930	55150.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810424	1400	64500.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810529	1315	59300.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810616	1215	63300.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810727	1200	56450.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810828	1330	53400.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	810925	1300	60800.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	811026	1200	62350.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	811127	0945	66000.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	811221	1100	63350.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	820128	1115	70120.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	820225	1230	57900.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	820323	1000	63000.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	820429	1235	66100.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	820521	1130	65600.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	820624	1045	71700.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	820819	1200	67400.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	820924	1125	65400.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	821015	1200	66500.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	821119	1315	67000.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	821228	1320	69900.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830121	1310	63900.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830225	1240	69200.0000000	112WRD	03070440	

Water Quality Observations
Outside STORET Edit Criteria for FONE

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830328	1300	66200.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830428	1315	50540.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830525	1320	60000.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830628	1245	64000.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830721	1310	67300.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830815	1300	63600.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830923	1330	60800.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	831027	1220	57700.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	831121	1330	61600.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840103	1340	59100.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840131	1240	56200.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840224	1345	53700.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840409	1200	52900.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840504	1100	48800.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840531	1230	44600.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840628	1300	47100.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840727	1140	47100.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840831	1115	53110.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	840928	1115	53030.0000000	112WRD	03070440	
FONE0019	01056	MANGANESE, DISSOLVED (UG/L AS MN)	880621	1150	49100.0000000	112WRD	03070440	
FONE0019	01105	ALUMINUM, TOTAL (UG/L AS AL)	880621	1150	58400.0000000	112WRD	03070440	
FONE0019	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	880621	1150	55600.0000000	112WRD	03070440	
FONE0023	01055	MANGANESE, TOTAL (UG/L AS MN)	830923	1430	5790.0000000	112WRD	03070415	
FONE0023	01056	MANGANESE, DISSOLVED (UG/L AS MN)	830923	1430	5330.0000000	112WRD	03070415	

APPENDICES

Appendix A

Computer Files Transmitted With

Park Baseline Water Quality Data Inventory and Analysis

Computer disk(s) accompanying this report include up to seven (depending on the presence or absence of certain data elements) compressed (ZIP) files containing digital copies of nearly all the tables, figures, and other materials used to produce this report. To decompress these files, you must use the commonly available shareware program PKUNZIP. The command to type at the DOS prompt is:

PKUNZIP -E *COMPRESS.ZIP FILENAME.EXT*

where COMPRESS.ZIP is the name of one of the seven compressed (ZIP) files listed below and FILENAME.EXT is the name of the file you wish to extract. If you want to decompress all of the files in COMPRESS.ZIP, simply omit the FILENAME.EXT. To obtain a listing of all the files compressed into a particular ZIP file, type the following:

PKUNZIP -V *COMPRESS.ZIP* |MORE

where COMPRESS.ZIP is the name of one of the seven compressed ZIP files listed below. If a ZIP file spans multiple disks, use the last disk of the series (span) when obtaining a listing of all the files compressed into a particular ZIP file. Once you see the file you wish to obtain, substitute this file name for FILENAME.EXT in the first command line above to extract and decompress this particular file.

Included on one of the disk(s) accompanying this report is a program named PRINTZIP. This program will decompress ZIP files which don't span multiple disks and print certain files to a Hewlett-Packard (or compatible) Laser Printer. To use PRINTZIP, however, you must still have a copy of PKUNZIP in a directory listed in your path or in the same directory as the PRINTZIP program. PRINTZIP provides an easy, menu-driven interface for using PKUNZIP to decompress files and then send them to the printer. PRINTZIP allows you to send individual files, groups of files, or all files to the printer. PRINTZIP will not work with ZIP files that span multiple disks.

The following compressed (ZIP) files are included on the disk(s) accompanying this report:

(1) FONETABS.ZIP

This compressed file contains all the tables presented in the report. The files compressed into this file include:

(a) FONESITE.DOC - Descriptive listing of select fields from the industrial facilities discharges, drinking water intakes, and EPA-USGS stream gages databases.

(b) FONEAGNC.DOC - Contacts for agencies whose data were retrieved within the study area.

(c) FONEAGNQ.DOC - Number of stations, observations, and parameters retrieved by agency code within the study area and park.

(d) FONEOV0.DOC - Overview of park and retrieved data.

(e) FONEOV1.DOC - Station period of record table.

(f) FONEOV2.DOC - Parameter period of record table.

(g) FONEOV3.DOC - Station/parameter period of record table.

(h) FONEINV.DOC - Station by station descriptive statistics over the entire period of record and comparison against EPA Water Quality Criteria for each station.

(i) FONESEAN.DOC - Seasonal and annual water quality descriptive statistics at stations with water quality data meeting the default seasonal and annual criteria.

(j) FONEEPAS.DOC - EPA Water Quality Criteria comparison for data at all stations combined within the study area.

(k) FONEIDEA.DOC - Comparison of downloaded STORET data with NPS Servicewide Inventory and Monitoring Program "Level I" water quality parameters.

(l) FONEBAD.DOC - Water quality observation values that were outside the range of one of 190 STORET edit criteria and were either discarded or retained.

All these compressed document files are in ASCII format and contain printer codes appropriate to Hewlett-Packard (or compatible) Laser Printers. While at the DOS prompt, any of these document files may be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the PRINT command. For example, if the document FONEOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\FONEOV1.DOC. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). Alternatively, you can use the PRINTZIP program to decompress and print any of these files provided the ZIP file doesn't span multiple disks. These ASCII files can also be imported into word-processed documents, but the printer codes will then have to be removed.

(2) FONEFIGS.ZIP

This compressed file contains graphics files for all the statistical figures (time series plots; annual box and whiskers plots; seasonal box and whiskers plots) in the report in two different formats: Computer Graphic Metafile (CGM) and Hewlett-Packard Printer Control Language (PCL). The files are named with the last three digits of the Station Name followed by the five digit STORET code. The file name extension begins with either a 1 (time series), 2 (annual), or 3 (seasonal) and then either GM for CGM or CL for PCL. For example, 00100300.2GM would denote the file contains an annual box and whiskers plot in CGM format for parameter 00300 (dissolved oxygen) at station FONE0001. While at the DOS prompt, any PCL file can be printed directly to a Hewlett-Packard (or compatible) Laser Printer by using the COPY command. For example, if the graphic 00100300.2CL (an annual box and whiskers plot of parameter 00300, dissolved oxygen, at station FONE0001) is in the subirectory C:\WATER, you would type: COPY C:\WATER\00100300.2CL LPT1: /B. This will print the file to your local or networked Hewlett-Packard (or compatible) Laser Printer attached to parallel port one (LPT1:). The /B is necessary because the PCL file is in a binary format. Alternatively, you can use the PRINTZIP program to decompress and print any of the PCL files provided the ZIP file doesn't span multiple disks. The CGM files can be imported and/or edited in most graphics packages, including WordPerfect.

(3) FONEPARM.ZIP

This file compresses FONEPARM.DBF which contains all the actual values (raw data) of all the water quality data downloaded from STORET and summarized in the report. The detailed database structure for this file is contained in Appendix B.

(4) FONESITE.ZIP

This compressed file contains up to five geo-referenced, DBASE III+ compatible site (point location) files documenting the location in the study area of water quality monitoring stations, industrial facilities discharges, drinking water intakes, water gages, and water impoundments. These files include:

(a) FONEWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

(b) FONEIFD.DBF - All municipal and industrial facility discharges within the project's study area downloaded from the IFD database.

(c) FONEDRIN.DBF - All drinking water intakes within the project's study area downloaded from the DRINKS database.

(d) FONEGAGE.DBF - All water gages within the project's study area downloaded from the GAGES database.

(e) FONEDAMS.DBF - All water impoundments within the project's study area downloaded from the DAMS database.

The absence of any of these files indicates that none of the particular sites were found within the study area. Detailed database structures for each of these files are contained in Appendix B.

(5) FONEMISC.ZIP

This compressed file contains a variety of graphic and document files that are contained in the report. They are grouped into this miscellaneous compressed (ZIP) file because they don't fit neatly into any of the other compressed files. The files contained in this compressed file include:

(a) FONEEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

(b) FONETOC.DOC - WordPerfect Ver. 5.1 copy of the report's Table of Contents.

(c) INTRO.DOC - WordPerfect Ver. 5.1 copy of all the text in the report from the Introduction through the Interpretive Guide to Water Quality Results.

(d) APPENDIX.DOC - WordPerfect Ver. 5.1 copy of all the Appendices in the report.

(e) FONEREGI - PCL and CLP (Windows Clipboard) copies of map displaying the regional location of the park and study area.

(f) FONEWQ - PCL and CLP (Windows Clipboard) copies of park maps displaying water quality station locations within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (FONEWQA, FONEWQB, FONEWQC, etc.) and the index map name will end with an ampersand (&).

(g) FONEIDG - PCL and CLP (Windows Clipboard) copies of park maps displaying locations of industrial facilities discharges, drinking water intakes, and stream gages within the park's study area. If, due to scaling and aesthetic concerns, multiple maps were needed, these files will have alphabetically ordered suffixes (FONEIDGA, FONEIDGB, FONEIDGC, etc.) and the index map name will end with an ampersand (&). If no industrial facilities discharges, drinking water intakes, water gages, or water impoundments exist within the park's study area, these files will not be in the compressed (ZIP) file.

(h) FONESEHY - PCL and CLP (Windows Clipboard) copies of the hydrographs or other materials used by WRD staff as the basis for a first attempt at a seasonal analysis of the park's water quality data.

Other materials may also be included in this miscellaneous compressed (ZIP) file as warranted by conditions at the park. As with FONEFIGS.ZIP and FONETABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in FONEMISC.ZIP provided the ZIP file doesn't span multiple disks. You should not, however, use PRINTZIP to print the WordPerfect document files. The CLP (Windows Clipboard) files can be imported (pasted) and/or edited in most Windows-based word processors and graphics packages.

(6) FONERF3.ZIP

This compressed file contains the Environmental Protection Agency's River Reach File Ver. 3.0 provisional data for the USGS catalog unit(s) encompassing the study area. The attribute data exist in both ASCII and DBASE III+ format, while the geographic traces exist in ASCII format. This compressed file contains four files for each catalog unit that touches the study area. Catalog units are identified by unique 8-character numeric names which identify the region, subregion, accounting unit, and catalog unit. Examples (your 8-character numeric names will be different) of the file types included in this compressed file are:

(a) 12345678.RF3 - ASCII formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.

(b) 12345678.DBF - DBASE III+ formatted attribute file from the River Reach File for all hydrographic traces within the catalog unit.

(c) 12345678.TRC - ASCII formatted geographic file from the River Reach File containing digital, geo-referenced descriptions of all hydrographic traces within the catalog unit at a scale of 1:100,000 suitable for import into a geographic information system.

(d) 12345678.CUB - ASCII formatted geographic file from the River Reach File containing a digital, geo-referenced description of the catalog unit boundary suitable for import into a geographic information system.

Detailed database structures for RF3-related files are contained in Appendix B.

(7) FONEWQMW.ZIP

Between 2000 and 2002, all Baseline Water Quality Data Inventory and Analysis Reports were compiled or re-compiled in Microsoft Word 2000 (Ver. 9.0) format. This complete, digital version of the report will be made available through various means, including the Internet. Although the reports can be opened in Microsoft Word 1997 (Ver. 8.0), the time series and annual and seasonal box-plots may not be centered appropriately on a page due to discrepancies with how Word 2000 formats pictures and how Word 1997 formatted pictures. Consequently, Word 2000 is the recommended software for viewing the report. Prior to printing the report from Word, be sure to enable "Print Text as Graphics" or "Print True Type Font as Graphics" in the Printer Properties. This ensures a more faithful reproduction of the maps included in the Word document.

The Microsoft Word version of the Baseline Water Quality Data Inventory and Analysis Report may differ slightly from the original analog version. Reports issued during 1994-1996 didn't have as many "bells-and-whistles" as subsequent reports. In compiling digital Microsoft Word versions of these earlier reports, attempts were made to bring these 1994-1996 reports up to the current standard wherever feasible and practicable. Unfortunately, some changes were not feasible or practicable. For example, water quality criteria screens were added or modified over time when newer criteria became available. The digital Microsoft Word version of Appendix F presents the latest criteria screening parameters and values. Some of these parameters and/or values may not have been screened against in the EPA water quality criteria analyses for each station and the entire study area in the 1994-1996 analog versions of the report. Similarly, the Introduction, Methodology, and Interpretive Guide to Water Quality Results may mention certain features that aren't included in the 1994-1996 reports. Additionally, to prepare a Microsoft Word version of this report, data were processed through different versions of software than used originally. Consequently, some results presented in the Overview and Executive Summary may differ slightly from those presented in the analog report (eg. # of In Park and Longer Term Stations).

Appendix B

Water Quality Database File Structures

The following table provides the DBASE III+ database field structure for all the water quality parameter data downloaded from STORET. This data will allow parks or other interested parties to replicate the statistical analyses and graphics contained in this report; perform more sophisticated analyses; or to establish a baseline park water quality database.

Parameter Data File: FONEPARM.DBF in FONEPARM.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)
BEGDATE	9	14	6	Measurement Start Date [yymmdd]
BEGTIME	15	18	4	Measurement Start Time [hhmm]
PARMCODE	19	23	5	STORET Parameter Code
PARMVALU	24	39	16.7	Parameter Value
REMARK	40	40	1	Parameter Remark Value
				A=Value is Mean of 2 or More Determinations
				B=Results Based Upon Colony Counts Outside Acceptable Range
				C=Value Calculated
				D=Field Measurement
				E=Extra Sample Taken in Compositing Process
				F=Female Species
				G=Maximum of 2 or More Determinations
				H=Based on Field Kit Determination
				I=Value is Less Than Practical Quantitation Limit and Greater Than or Equal to the Method Detection Limit
				J=Estimated, Not the Result of Analytic Measurement
				K=Off-scale Low, Actual Value Not Known, But Known to be Less Than Value Shown
				L=Off-scale High, Actual Value Not Known, But Known to be Greater Than Value Shown

Parameter Data File: FONEPARM.DBF in FONEPARM.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
				M=Presence Verified, But Not Quantified, Below Quantification Limit; For Species, Male; For Oxygen Reduction Potential, Indicates a Negative Value
				N=Presumptive Evidence of Presence
				O=Analysis Lost
				P=Too Numerous to Count
				Q=Exceeded Normal Holding Time
				R=Significant Rain in Last 48 Hours
				S=Laboratory test
				T=Less Than Detection Criteria
				U=Analyzed For But Not Detected, Value is Detection Limit For Process Used; If Species, Undetermined
				V=Analyte was Detected in Sample and Method Blank
				W=Less Than Lowest Value Reportable Under Remark "T"
				X=Quasi Vertically-Integrated Sample
				Y=Analysis of Unpreserved Sample
				Z=Too Many Colonies Were Present to Count (TNTC), Value Represents Filtration Value
				$=Calculated By Retrieval Software
MEDIA	41	46	6	Sample Media
DEPTH	47	55	9.3	Depth of Sample [in feet]
ENDDATE	56	61	6	Measurement End Date [yymmdd] [all composite samples]
ENDTIME	62	65	4	Measurement End Time [hhmm] [all composite samples]
SAMPTYPE	66	69	4	Type of Sample ["sophisticated" composite samples]
				C=Continuous Collection
				G=Collection of Individual Grab Samples
				GNxx=xx is the Number of Individual Grab Samples
				B=N/A

Parameter Data File: FONEPARM.DBF in FONEPARM.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
COMPTYPE	70	70	1	Composite Value Type ["sophisticated" composite samples]
				A=Average
				H=Maximum
				L=Minimum
				N=Number of Observations
				#=Number of Observations
				S=Standard Deviation
				U=Sum of Squares
				V=Variance
				C=Coefficient of Error
				X=Coefficient of Variance
				E=Skewness
				F=Kurtosis
				Z=Number of Observations That Exceed an Established Limit
				%=Precision
				$=Accuracy
				B=N/A
				D=Indicates Replicate Sample
COMPST	71	71	1	Composite Space/Time Indicator
				S=Space
				T=Time
				B=Space and Time
				F=Flow Proportional
				1-9=Replicate Number

Note: DBASE III+ record lengths will be one greater than the last stop column displayed (71 here) because DBASE III+ reserves the first space/column of every record for a deletion flag. Hence, DBASE III+ will display a record length of 72 for this database.

The following table provides the DBASE III+ database field structure for all the water quality station locations downloaded from STORET. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Quality Station Data File: FONEWQ.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
NPSSTATID	1	8	8	NPS Station ID (NPS park code + 4 digit sequence number)
AGENCY	9	16	8	Agency Code of Station Owner
STORIDP	17	31	15	STORET Primary Station Code
STORIDS1	32	43	12	STORET First Secondary Station Code
STORIDS2	44	55	12	STORET Second Secondary Station Code
STORIDS3	56	65	10	STORET Third Secondary Station Code
LATITUDE	66	73	8	Station Latitude [degrees:minutes:seconds]
LONGITUDE	74	82	9	Station Longitude [degrees:minutes:seconds]
LAT	83	93	11.6	Station Latitude [decimal degrees, (-) below equator]
LON	94	104	11.6	Station Longitude [decimal degrees, (-) western hemisphere]
LLPREC	105	105	1	Latitude/Longitude Precision Code
RMI	106	329	224	River Mile Index
STATLOC	330	377	48	Station Location Description
CNTYCODE	378	382	5	FIPS State/County Code
STNAME	383	398	16	State Name
CNTYNAME	399	418	20	County Name
HYDUNIT	419	426	8	Hydrologic Unit Code (MAJ/MIN/SUB = Catalog Unit)
MAJBASN	427	450	24	Major Basin Name
MINBASN	451	490	40	Minor Basin Name
STATTYPE	491	550	60	Station Type
STORDATE	551	556	6	Date Station was Stored in STORET
RF1INDEX	557	567	11	RF1 Reach Number Location [2]
RF1MILE	568	575	8.3	Mile Point on RF1 Reach [2]
RF1LOC	576	578	3	Indicates the Location as ON or OFF RF1 Reach [2]
RF1DIST	579	584	6.2	Distance From RF1 Reach

Water Quality Station Data File: FONEWQ.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
RF3INDEX	585	601	17	RF3 Reach Number Location [3]
RF3MILE	602	607	6.2	Mile point on RF3 Reach [3]
RF3LOC	608	610	3	Indicates the Location as ON or OFF RF3 Reach [2]
RF3DIST	611	616	6.2	Distance From RF3 Reach
DEPH2O	617	620	4	Depth of Water at Station Location [in feet]
ELEV	621	625	5	Station Elevation
ECOREG	626	628	3	ECO Region
H2OBODY	629	678	50	Waterbody ID
AQUIFERS	679	718	40	Aquifer Description
STATDESC1	719	790	72	Station Sentence Description
STATDESC2	791	862	72	Station Sentence Description
STATDESC3	863	934	72	Station Sentence Description
STATDESC4	935	1006	72	Station Sentence Description
STATDESC5	1007	1078	72	Station Sentence Description
STATDESC6	1079	1150	72	Station Sentence Description
STATDESC7	1151	1222	72	Station Sentence Description
STATDESC8	1223	1294	72	Station Sentence Description
STATDESC9	1295	1366	72	Station Sentence Description
STATDESC10	1367	1438	72	Station Sentence Description
STATDESC11	1439	1510	72	Station Sentence Description
STATDESC12	1511	1582	72	Station Sentence Description
STATDESC13	1583	1654	72	Station Sentence Description
STATDESC14	1655	1726	72	Station Sentence Description
STATDESC15	1727	1798	72	Station Sentence Description
STATLOCKED	1799	1799	1	Station Locked (Logical) True/False

The following table provides the DBASE III+ database field structures for the EPA Industrial Facilities Discharge database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Industrial Facilities Discharges File: FONEIFD.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
SITEID	1	9	9	Site Identifier (NPDES Number)
LATITUDE	10	17	8	Facility Latitude (Degrees:Minutes:Seconds)
LONGITUDE	18	26	9	Facility Longitude (Degrees:Minutes:Seconds)
LAT	27	37	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	38	48	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	49	59	11	RF1 Reach Number Location
RF1MILE	60	65	6.2	Mile Point on RF1 Reach
RF1DIST	66	71	6.2	Distance From RF1 Reach
RF3INDEX	72	88	17	RF3 Reach Number Location
RF3MILE	89	94	6.2	Mile Point on RF3 Reach
RF3DIST	95	100	6.2	Distance From RF3 Reach
ADR	101	125	25	Address
BFL	126	132	7.2	Total Direct Combined C&P Flow (1000 GPD)
CCFLG	133	133	1	Coastal County Flag "Y"/"N"/"E"=Estuary
CC1	134	138	5	City Code #1 (EPA Code)
CFL	139	145	7.2	Total Direct Cooling Flow (1000 GPD)
CNC	146	148	3	County Code (FIPS)
CTY	149	168	20	City Name
CZIP	169	177	9	Canadian Zip Code
DNB	178	186	9	Dunn & Bradstreet Number
DNBFLG	187	187	1	Dunn & Bradstreet PCS Source Flag
EGF	188	202	15.4	Flow From Effluent Guidelines (1000 GPD)
EGS	203	208	6	Effluent Guidelines Subcategory
EXPDT	209	216	8	Expiration Date (mm/dd/yy)
E308SN	217	220	4	Effluent Guidelines Survey Number
FAC	221	229	9	SCS Facility Identifier (Cross-Reference)
FDS	230	232	3	Facility Data Source

Industrial Facilities Discharges File: FONEIFD.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
FFL	233	239	7.2	Total Facility Flow (1000 GPD)
FHF	240	240	1	Fac. Hit Flag (Reach File) V=Versar Assumed
FLOTYP	241	243	3	I=Blow Down, R=Bottom Ash, S=Fly Ash
FLR	244	250	7.2	Flow Recvd-Industrial (1000 GPD) Permit Data
FRDS	251	259	9	FRDS ID# - XREF To Water Supply
FRW	260	289	30	Facility Receiving Water Name
FS1	290	293	4	Facility SIC Code (From PCS)
FS2	294	297	4	Facility SIC Code #1
FS3	298	301	4	Facility SIC Code #2
FS4	302	305	4	Facility SIC Code #3
FS5	306	309	4	Facility SIC Code #4
FUD	310	317	8	Facility Level Last Date Updated (mm/dd/yy)
IACC	318	318	1	Inactive/Active Indicator ("I" or "A")
ICAT	319	320	2	WQAB Industrial Category
ICAT2	321	322	2	WQAB Industrial Category 2
ICAT3	323	324	2	WQAB Industrial Category 3
IFL	325	331	7	Total Indirect Flow (1000 GPD)
IFT	332	332	1	Illinois Facility Type (A thru Z)
IG1	333	334	2	Facility Industrial Group #1
IG2	335	336	2	Facility Industrial Group #2
IJCN	337	346	10	Canadian Record Identifier
INACT	347	353	7	Inactive/Rescinded P=Based on Permit;A=Actual
INDCNT	354	357	4	Computed Number of Indirect Dischargers
LATLON	358	372	15	Polygon Retrieval Lat/Long.
MAJ	373	373	1	Major-Minor Flag (From PCS)
MAPID	374	377	4	Map Identifier
MJMN	378	381	4	Major/Minor Basin (EPA-STORET)
NAM	382	441	60	Facility Name
NDC	442	444	3	Number of Discharges (Pipes)

Industrial Facilities Discharges File: FONEIFD.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
NDSFLO	445	451	7.2	NEEDS Flow (1000 GPD)
NDSIFLO	452	458	7.2	NEEDS Industrial Flow (1000 GPD)
NID	459	462	4	Number of Indirect Dischargers
NPC	463	463	1	NEEDS Pre-Treatment Code "Y"=Yes, "N"=No
NPS	464	464	1	NPDES Facility Source/Status
NSN	465	473	9	NEEDS Survey Number
NTC	474	474	1	NEEDS Treatment Code
OCP	475	480	6	Organic Chemical Producers ID Number
ODESCC	481	481	1	ODES Coastal County "Y"=Yes; "N"=No
OFL	482	488	7.2	Total Non-Direct Other Flow (1000 GPD)
OWN	489	491	3	Ownership Code
PFL	492	498	7.2	Total Direct Process Flow (1000 GPD)
REG	499	500	2	EPA Region
REGKEY	501	504	4	Region Key
RSLOFLO	505	511	7.2	Receiving Stream Low Flow
RSMNFLO	512	518	7.2	Receiving Stream Mean Flow
STA	519	520	2	State Postal Abbreviation
STAID	521	535	15	State Identifier
STC	536	537	2	State Code (FIPS)
STCITY	538	544	7	State/City Code
TFLOW	545	551	7.2	Type Flow (1000 GPD)
UFL	552	558	7.2	Total Direct Undefined Flow (1000 GPD)
XEGS	559	561	3	Effluent Guidelines Subcat Index
XKEY	562	562	1	"1","2","3","4","5","6","7","8","9"
XNME	563	565	3	GLP,DIR,F2C,ENF,CET,LAG,PPB,M85,M86
ZIP	566	570	5	Zip Code

The following table provides the DBASE III+ database field structures for drinking water intakes from the EPA DRINKS database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Drinking Water Intakes File: FONEDRIN.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
SITEID	1	20	20	Site Identifier
LATITUDE	21	28	8	Facility Latitude (Degrees:Minutes:Seconds)
LONGITUDE	29	37	9	Facility Longitude (Degrees:Minutes:Seconds)
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	60	70	11	RF1 Reach Number Location
RF1MILE	71	76	6.2	Mile Point on RF1 Reach
RF1DIST	77	82	6.2	Distance From RF1 Reach
RF3INDEX	83	99	17	RF3 Reach Number Location
RF3MILE	100	105	6.2	Mile Point on RF3 Reach
RF3DIST	106	111	6.2	Distance From RF3 Reach
AQCD	112	115	4	Aquifer Code
ASC	116	138	23	STORET Agency/Station Code
AVGD	139	142	4	Average Depth
BUY	143	143	1	Purchase Code
CC1	144	148	5	City Code #1 (EPA Code)
CNC	149	151	3	County Code (FIPS)
CNME	152	166	15	Contact Name
CNN	167	186	20	County Name
CTITLE	187	201	15	Contact Title
CTY	202	221	20	City Name
DUD	222	229	8	Date of Update
FRDS	230	238	9	FRDS ID# - Cross-Reference
GEOAG	239	258	20	Geologic Age
GEOCDE	259	261	3	Geologic Age Code
IDAT	262	269	8	Date (mm/dd/yy)

Drinking Water Intakes File: FONEDRIN.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
INTAKET	270	270	1	Type Source G/S/B
INTRVWR	271	285	15	Interviewer
MAXD	286	289	4	Maximum Depth
MILES	290	296	7.2	Miles
MIND	297	300	4	Minimum Depth
NAME	301	320	20	Name
NPD	321	329	9	NPDES# XREF to IFD Database
NWLS	330	332	3	Number of Wells
OWN	333	335	3	Ownership
PAVGF	336	342	7.2	Production Avg. Daily (Gal/Day)
PCTSUP	343	345	3	%Surface / %Ground
PHONE	346	355	10	Telephone Number
PMAXF	356	362	7.2	Production Max. Daily (Gal/Day)
POPSV	363	371	9	Population Served
REG	372	373	2	EPA Region
SHLAT	374	379	6	Sitehelp Latitude (DDMMSS)
SHLNG	380	386	7	Sitehelp Longitude (DDDMMSS)
SHMILES	387	393	7.2	Sitehelp Miles
SHNME	394	403	10	Sitehelp Source Name
SHPCT	404	410	7.2	Sitehelp Percent of Reach Miles
SRC	411	413	3	Sitehelp Source Code
STA	414	415	2	State Abbreviation
STC	416	417	2	State Code (FIPS)
TUF	418	424	7.2	Total Utility Flow
TYPCDE	425	425	1	Type Code
UHF	426	426	1	Utility Hit Flag (Reach File)
VCDE	427	427	1	Versar Code='V'=>25K; '*'=<25K POPSVD
WFPC	428	428	1	Wellfield Precision Code
WFTYP	429	429	1	Well Type (Cassing,Artesian,Infiltration,etc.)

Drinking Water Intakes File: FONEDRIN.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
WUN	430	449	20	Water Utility Name

The following table provides the DBASE III+ database field structures for the Water Gage database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Gage File: FONEGAGE.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
SITEID	1	20	20	Site Identifier
LATITUDE	21	28	8	Facility Latitude (DDMMSS)
LONGITUDE	29	37	9	Facility Longitude (DDDMMSS)
LAT	38	48	11.6	Facility Latitude (decimal degrees, (-) below equator)
LON	49	59	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
RF1INDEX	60	70	11	RF1 Reach Number Location
RF1MILE	71	76	6.2	Mile Point on RF1 Reach
RF1DIST	77	82	6.2	Distance From RF1 Reach
RF3INDEX	83	99	17	RF3 Reach Number Location
RF3MILE	100	105	6.2	Mile Point on RF3 Reach
RF3DIST	106	111	6.2	Distance From RF3 Reach
JAN	112	118	7.2	Monthly Flow - January
FEB	119	125	7.2	Monthly Flow - February
MAR	126	132	7.2	Monthly Flow - March
APR	133	139	7.2	Monthly Flow - April
MAY	140	146	7.2	Monthly Flow - May
JUN	147	153	7.2	Monthly Flow - June
JUL	154	160	7.2	Monthly Flow - July
AUG	161	167	7.2	Monthly Flow - August
SEP	168	174	7.2	Monthly Flow - September
OCT	175	181	7.2	Monthly Flow - October
NOV	182	188	7.2	Monthly Flow - November
DEC	189	195	7.2	Monthly Flow - December
RGN	196	197	2	Region Code
AREA	198	204	7.2	Drainage Area (SQ.MI.)
DUD	205	212	8	Date of Update

Water Gage File: FONEGAGE.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
FBCF	213	213	1	Flag - Basic Characteristic File ('Y')
FDFF	214	214	1	Flag - Daily Flows File ('Y')
FQMINV	215	224	10	IHS Pt. Files Index
GHF	225	225	1	Hit Flag (Reach File)
ICDE	226	226	1	Integrity Code
LFVEL	227	233	7.2	Low Flow Velocity
METHOD	234	236	3	Calculation Method Code
MFVEL	237	243	7.2	Mean Flow Velocity
MNFLO	244	250	7.2	USGS Mean Annual Flow
NME	251	298	48	Station Name
SHLAT	299	304	6	Sitehelp Latitude (DDMMSS)
SHLNG	305	311	7	Sitehelp Longitude (DDDMMSS)
SHMILES	312	318	7.2	Sitehelp Miles
SHNME	319	328	10	Sitehelp Source Name
SHPCT	329	335	7.2	Sitehelp Percent of Reach Miles
SITE	336	337	2	Site Location
SRC	338	340	3	Sitehelp Source Code
STCTY	341	345	5	State/County Numeric Code
SVTEN	346	352	7.2	USGS 7-10 Year Flow
BEG_WYR	353	356	4	Beginning Water Year
END_WYR	357	359	4	Ending Water Year
ELEV	361	368	8.2	Elevation (Feet)
WELL_DP	369	376	8.2	Well Depth (Feet)

The following table provides the DBASE III+ database field structures for the Water Impoundment database. As this file is geo-referenced, it should import easily into the park's Geographic Information System.

Water Impoundment File: FONEDAMS.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
SITEID	1	7	7	Site Identifier
SOURCE	8	10	3	Source of Data
ST1	11	12	2	Primary State Code Abbreviation
STCTY1	13	17	5	State/County Numeric Code
NAME	18	47	30	Official Name of Dam
LATITUDE	48	53	6	Facility Latitude (DDMMSS)
LONGITUDE	54	60	7	Facility Longitude (DDDMMSS)
LAT	61	70	10.6	Facility Latitude (decimal degrees, (-) below equator)
LON	71	81	11.6	Facility Longitude (decimal degrees, (-) west. hem.)
INME	82	111	30	Impoundment Name
RNME	112	139	28	River, Stream, or Tributary Name on Which Dam Built
CUSEGMI	140	149	10	Catalog Unit, Segment, and Segment Length
REGN	150	151	2	Water Resources Council Region Code
RGBSN	152	155	4	Water Resources Region/Basin Code
CU	156	163	8	Catalog Unit
SEG	164	166	3	Reach Segment of Dam
SEGL	167	171	5.2	Reach Segment Length
PURP	172	172	1	Major Purpose of Dam
				I=Irrigation
				H=Hydroelectric
				N=Navigation
				S=Water Supply
				R=Recreation
				P=Stock/Farm Pond
				D=Debris Control
				F=Flood Control

Water Impoundment File: FONEDAMS.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
				O=Other
FRF3	173	189	17	RF3 Reach Number Location
FRF3MI	190	194	5	Mile Point on RF3 Reach
PURPKEY	195	195	1	Purpose Key
PUR2	196	196	1	Purpose of Dam 2 (See Above)
PUR3	197	197	1	Purpose of Dam 3 (See Above)
PUR4	198	198	1	Purpose of Dam 4 (See Above)
PUR5	199	199	1	Purpose of Dam 5 (See Above)
PUR6	200	200	1	Purpose of Dam 6 (See Above)
PUR7	201	201	1	Purpose of Dam 7 (See Above)
PUR8	202	202	1	Purpose of Dam 8 (See Above)
PUR9	203	203	1	Purpose of Dam 9 (See Above)
PUR10	204	204	1	Purpose of Dam 10 (See Above)
TYPDAM	205	206	2	Major Dam Portion Type
				RE=Earth
				VA=Vaulted Arch
				CD=Buttress
				PG=Gravity
				ER=Rockfill
				MV=Multi-Arch
				OT=Other
YRCMP	207	210	4	Year Dam Completed
SHGT	211	214	4	Structural Height (Feet)
HHGT	215	218	4	Hydraulic Height (Feet)
VNORM	219	236	8	Normal Storage of Impoundment (Acre-Feet)
VMAX	227	234	8	Maximum Storage of Impoundment (Acre-Feet)
LCRST	235	239	5	Crest Length of Dam (Feet)
TSPL	240	240	1	Spillway Type
				C=Controlled

Water Impoundment File: FONEDAMS.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
				U=Uncontrolled
				N=None
				X=Unknown
WSPL	241	244	4	Dam Spillway Width (Feet)
QMAX	245	251	7	Maximum Spillway Discharge (CFS)
PINS	252	258	7.2	Quantity of Installed Power (Megawatts)
PPRO	259	265	7.2	Quantity of Proposed Power (Megawatts)
LOCK	266	266	1	Number of Navigational Locks
OWNR	267	290	24	Name of Impoundment Owner
PFOWN	291	291	1	Ownership Code
				N=Non-Federal
				G=Federal Government Agency
				C=Corps of Engineers
				X=Unknown
FEDR	292	292	1	Federally Regulated (Y=Yes, N=No, X=Unknown)
FLND	293	293	1	Private Dam on Federal Land (Y=Yes, N=No, X=Unknown)
SCSA	294	294	1	Type of Soil Conservation Service Assistance
				N=No Assistance
				T=Technical Assistance
				F=Financial Assistance
				B=Both Technical and Financial Assistance
				X=Unknown
DHAZ	295	295	1	Degree of Downstream Hazard
				1=High (More than a Few Lives Lost; Excessive Economic Loss)
				2=Significant (A Few Lives Lost; Appreciable Economic Loss)
				3=Low (No Lives Expected Lost; Minimal Economic Loss)
DCITY	296	319	24	Nearest Downstream City

Water Impoundment File: FONEDAMS.DBF in FONESITE.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
POP	320	326	7	Population of Downstream City
DMILE	327	331	5.2	Distance of Downstream City From Dam (Miles)
RET	332	342	11.2	Retention Coefficient (Dimensionless)
MIX	343	353	11.2	Mixing Coefficient (Dimensionless)
SAREA	354	361	8	Surface Area of Impoundment (Acres)
SAFLG	362	362	1	Surface Area Flag (C=Calc., M=Measured, O=Other)
ILNTH	363	367	5	Length of Impoundment (Feet)
ILFLG	368	368	1	Impoundment Length Flag (C=Calc., M=Measured, O=Other)
UPKEY	369	374	6	Update Key (YYMMDD)

The following table provides the ASCII and DBASE III+ database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) attributes. The actual numeric file names will vary depending on the catalog unit(s). This information can be readily incorporated into the park's Geographic Information System.

RF3 Structure File: 12345678.RF3 and 12345678.DBF in FONERF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
CATUNIT	1	8	8	Cataloging Unit (CU)
SEGM	9	12	4	Segment Number (SEG)
MI	13	17	5.2	Mile Point (MI)
UPMI	18	22	5.2	Upstream Mile Pt.
SEQNO	23	33	11.6	Hydro Sequence No.
RFLAG	34	34	1	Reach Flag (0,1)
OWFLAG	35	35	1	Open Water Flag (0,1)
TFLAG	36	36	1	Terminal Flag (0,1)
SFLAG	37	37	1	Start Flag (0,1)
RCHTYPE	38	38	1	Reach Type Code
LEV	39	40	2	Stream Level
JUNC	41	42	2	Level of Downstream Reach
DIVERGENCE	43	43	1	Divergence Code
STARTCU	44	51	8	Start CU
STRTSG	52	55	4	Start SEG
STOPCU	56	63	8	Stop CU
STOPSG	64	67	4	Stop SEG
USDIR	68	68	1	Upstream Direction
TERMID	69	73	5	Terminal Stream ID
TRMBLV	74	74	1	Terminal Base Level
PNAME	75	104	30	Primary Name
PNMCD	105	115	11	Primary Name Code
CNAME	116	145	30	Complement Name
CNMCD	146	156	11	Complement Name Code

RF3 Structure File: 12345678.RF3 and 12345678.DBF in FONERF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
OWNAME	157	186	30	Open Water Name
OWNMCD	187	197	11	Open Water Name Code
DSCU	198	205	8	Downstream CU
DSSEG	206	209	4	Downstream SEG
DSMI	210	214	5.2	Downstream MI
CCU	215	222	8	Complement CU
CSEG	223	226	4	Complement SEG
CMILE	227	231	5.2	Complement MI
CDIR	232	232	1	Complement Direction
ULCU	233	240	8	Upstream Left CU
ULSEG	241	244	4	Upstream Left SEG
ULMI	245	249	5.2	Upstream Left MI
URCU	250	257	8	Upstream Right CU
URSEG	258	261	4	Upstream Right SEG
URMI	262	266	5.2	Upstream Right MI
SEGL	267	272	6.2	Reach Length (Miles)
RFORGFLAG	273	273	1	RF Orgin flag(1,2,3)
ALTPNMCD	274	281	8	Alt. Primary Name Code
ALTOWNMC	282	289	8	Alt. OW Name Code
DLAT	290	297	8.4	Downstream Latitude
DLONG	298	305	8.4	Downstream Longitude
ULAT	306	313	8.4	Upstream Latitude
ULONG	314	321	8.4	Upstream Longitude
MINLAT	322	329	8.4	Minimum Latitude
MINLONG	330	337	8.4	Minimum Longitude
MAXLAT	338	345	8.4	Maximum Latitude
MAXLONG	346	353	8.4	Maximum Longitude
NDLGREC	354	357	4	No. of DLG Records
LL1KEY1	358	367	10	Starting DLG LL Key1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in FONERF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
LL2KEY1	368	377	10	Ending DLG LL Key1
LL1KEY2	378	387	10	Starting DLG LL Key2
LL2KEY2	388	497	10	Ending DLG LL Key2
LL1KEY3	398	407	10	Starting DLG LL Key3
LL2KEY3	408	417	10	Ending DLG LL Key3
LL1KEY4	418	427	10	Starting DLG LL Key4
LL2KEY4	428	437	10	Ending DLG LL Key4
LL1KEY5	438	447	10	Starting DLG LL Key5
LL2KEY5	448	457	10	Ending DLG LL Key5
LL1KEY6	458	467	10	Starting DLG LL Key6
LL2KEY6	468	477	10	Ending DLG LL Key6
LL1KEY7	478	487	10	Starting DLG LL Key7
LL2KEY7	488	597	10	Ending DLG LL Key7
LL1KEY8	498	507	10	Starting DLG LL Key8
LL2KEY8	508	517	10	Ending DLG LL Key8
LL1KEY9	518	527	10	Starting DLG LL Key9
LL2KEY9	528	537	10	Ending DLG LL Key9
LL1KEY10	538	547	10	Start DLG LL Key 10
LL2KEY10	548	557	10	Ending DLG LL Key10
LN1AT2	558	561	4	DLG Line Attr. 1
LN2AT2	562	565	4	DLG Line Attr. 2
AREA1	566	569	4	DLG Area ID 1
AREA2	570	573	4	DLG Area ID 2
AR1AT2	574	577	4	DLG Area Attribute
AR1AT4	578	581	4	DLG Area Attribute
AR2AT2	582	585	4	DLG Area Attribute
AR2AT4	586	589	4	DLG Area Attribute
UPDATE1	590	595	6	Update Date #1 (mmddyy)
UPDTCD1	596	603	8	Update Type Code #1

RF3 Structure File: 12345678.RF3 and 12345678.DBF in FONERF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
UPDTSRC1	604	611	8	Update Source #1
UPDATE2	612	617	6	Update Date #2 (mmddyy)
UPDTCD2	618	625	8	Update Type Code#2
UPDTSRC2	626	633	8	Update Source #2
UPDATE3	634	639	6	Update Date #3 (mmddyy)
UPDTCD3	640	647	8	Update Type Code #3
UPDTSRC3	648	655	8	Update Source #3
DIVCU	656	663	8	Divergent CU
DIVSEG	664	667	4	Divergent SEG
DIVMILE	668	672	5.2	Divergent MI
DLGID	673	678	6	DLG Number Special Use For Internal State Codes
FILLER	678	685	7	Filler: Future Use

Note: The structure for the .DBF file varies slightly from the RF3 structure displayed here in that the fields UPDATE1, UPDATE2, and UPDATE3 have a width of 8 and the last two fields, DLGID and FILLER, have been replaced with a field named ID of length 17. This ID field combines the CATUNIT, SEGM, and MI fields.

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) traces. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual hydrographic network and is suitable for conversion into a variety of Geographic Information System formats.

RF3 Trace File: 12345678.TRC in FONERF3.ZIP				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
(Header Record)				
CATUNIT	1	8	8	Cataloging Unit
SEGM	9	12	4	Segment Number
MI	13	17	5.2	Mile Point
NPTS	18	21	4	Number of Lat/Lon Coordinates
(Coordinate Record)				
LATITUDE	1	8	8.4	Latitude in Decimal
LONGITUDE	9	16	8.4	Longitude in Decimal
FILLER	17	21	5	

The following table provides the ASCII database field structures for the EPA River Reach File Ver. 3.0 (1:100,000 scale hydrography) catalog unit boundary file. The actual numeric file names will vary depending on the catalog unit(s). This file contains the actual catalog unit boundary and is suitable for conversion into a variety of Geographic Information System formats.

Catalog Unit Boundary File: 12345678.CUB in FONERF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS, ...
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
...
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

Encyclopedia File: WRD File For Internal Use Only				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
PARM	1	5	5	STORET Parameter Code
PARMNAME	6	45	40	Parameter Name
MINVAL	46	61	16.7	Minimum Value
MINVALPARK	62	65	4	Park Unit with Minimum Value
MAXVAL	66	71	16.7	Maximum Value
MAXVALPARK	72	75	4	Park Unit with Maximum Value

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

STORET Code	STORET Parameter Description	High Value	Low Value
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	37.0	-2.0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	98.0	31.0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	52.0	-40.0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	125.0	-40.0
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE	1990.9	1977.0
00032	CLOUD COVER (PERCENT)	101.0	0.0
00035	WIND VELOCITY (MILES PER HOUR)	85.0	0.0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	361.0	0.0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	15.0	0.0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1500.0	0.0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	101.0	0.0
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	500.0	0.0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	1000.0	0.0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	600.0	0.0
00080	COLOR (PLATINUM-COBALT UNITS)	500.0	0.0
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	500.0	0.0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	250.0	0.0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	60000.0	1.0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	60000.0	1.0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00300	OXYGEN, DISSOLVED (MG/L)	30.0	0.0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION%	200.0	0.0
00310	BOD, 5 DAY, 20 DEG C (MG/L)	150.0	0.0
00335	COD, .025N K2CR2O7 (MG/L)	1000.0	0.0
00340	COD, .25N K2CR2O7 (MG/L)	1000.0	0.0
00365	CHLORINE DEMAND, 15 MINUTE (MG/L)	15.0	0.0
00400	PH (STANDARD UNITS)	12.0	0.9
00403	PH, LAB, STANDARD UNITS, (STANDARD UNITS)	12.0	0.9
00405	CARBON DIOXIDE (MG/L AS CO2)	100.0	0.0
00406	PH, FIELD (STANDARD UNITS)	12.0	0.9
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	750.0	0.0
00435	ACIDITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	1000.0	0.0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	750.0	0.0
00440	BICARBONATE ION (MG/L AS HCO3)	450.0	0.0
00445	CARBONATE ION (MG/L AS CO3)	100.0	0.0
00480	SALINITY - PARTS PER THOUSAND	40.0	0.0
00500	RESIDUE, TOTAL (MG/L)	15000.0	0.0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10000.0	0.0
00510	RESIDUE, TOTAL FIXED (MG/L)	10000.0	0.0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L)	20000.0	0.0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10000.0	0.0
00525	RESIDUE, FIXED FILTRABLE (MG/L)	10000.0	0.0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10000.0	0.0
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10000.0	0.0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10000.0	0.0
00545	RESIDUE, SETTLEABLE (ML/L)	1000.0	0.0
00546	RESIDUE, SETTLEABLE (MG/L)	1000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00550	OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L)	250.0	0.0
00600	NITROGEN, TOTAL (MG/L AS N)	100.0	0.0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	15.0	0.0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	25.0	0.0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20.0	0.0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	5.0	0.0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	50.0	0.0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	50.0	0.0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55.0	0.0
00635	NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N)	70.0	0.0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	30.0	0.0
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	30.0	0.0
00655	PHOSPHATE, POLY (MG/L AS PO4)	30.0	0.0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	30.0	0.0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10.0	0.0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10.0	0.0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	100.0	0.0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	100.0	0.0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	100.0	0.0
00690	CARBON, TOTAL (MG/L AS C)	150.0	0.0
00720	CYANIDE, TOTAL (MG/L AS CN)	10.0	0.0
00745	SULFIDE, TOTAL (MG/L AS S)	1500.0	0.0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1500.0	0.0
00760	SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L)	150.0	0.0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	5000.0	0.0
00910	CALCIUM (MG/L AS CACO3)	3000.0	0.0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1000.0	0.0
00916	CALCIUM, TOTAL (MG/L AS CA)	1000.0	0.0
00920	MAGNESIUM (MG/L AS CACO3)	3000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1000.0	0.0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	1000.0	0.0
00929	SODIUM, TOTAL (MG/L AS NA)	5000.0	0.0
00930	SODIUM, DISSOLVED (MG/L AS NA)	5000.0	0.0
00931	SODIUM ADSORPTION RATIO	50.0	0.0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	175.0	0.0
00937	POTASSIUM, TOTAL MG/L AS K)	175.0	0.0
00940	CHLORIDE, TOTAL IN WATER, (MG/L)	22000.0	0.0
00945	SULFATE, TOTAL (MG/L AS SO4)	2500.0	0.0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2500.0	0.0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	15.0	0.0
00951	FLUORIDE, TOTAL (MG/L AS F)	15.0	0.0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2000.0	0.0
00956	SILICA, TOTAL (MG/L AS SI02)	2000.0	0.0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	5000.0	0.0
01002	ARSENIC, TOTAL (UG/L AS AS)	5000.0	0.0
01005	BARIUM, DISSOLVED (UG/L AS BA)	2000.0	0.0
01007	BARIUM, TOTAL (UG/L AS BA)	2000.0	0.0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2000.0	0.0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	2000.0	0.0
01020	BORON, DISSOLVED (UG/L AS B)	5000.0	0.0
01022	BORON, TOTAL (UG/L AS B)	5000.0	0.0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	500.0	0.0
01027	CADMIUM, TOTAL (UG/L AS CD)	500.0	0.0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	2000.0	0.0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2000.0	0.0
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	2000.0	0.0
01034	CHROMIUM, TOTAL (UG/L AS CR)	2000.0	0.0
01040	COPPER, DISSOLVED (UG/L AS CU)	2000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
01042	COPPER, TOTAL (UG/L AS CU)	5000.0	0.0
01045	IRON, TOTAL (UG/L AS FE)	56000.0	0.0
01046	IRON, DISSOLVED (UG/L AS FE)	56000.0	0.0
01047	IRON, FERROUS (UG/L AS FE)	56000.0	0.0
01049	LEAD, DISSOLVED (UG/L AS PB)	1000.0	0.0
01051	LEAD, TOTAL (UG/L AS PB)	1000.0	0.0
01055	MANGANESE, TOTAL (UG/L AS MN)	5000.0	0.0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	5000.0	0.0
01065	NICKEL, DISSOLVED (UG/L AS NI)	2000.0	0.0
01067	NICKEL, TOTAL (UG/L AS NI)	2000.0	0.0
01075	SILVER, DISSOLVED (UG/L AS AG)	5000.0	0.0
01077	SILVER, TOTAL (UG/L AS AG)	5000.0	0.0
01090	ZINC, DISSOLVED (UG/L AS ZN)	25000.0	0.0
01092	ZINC, TOTAL (UG/L AS ZN)	25000.0	0.0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20000.0	0.0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	20000.0	0.0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	100.0	0.0
01501	ALPHA, TOTAL	200.0	0.0
01503	ALPHA, DISSOLVED	75.0	0.0
01505	ALPHA, SUSPENDED	150.0	0.0
03501	BETA, TOTAL	3500.0	0.0
03503	BETA, DISSOLVED	3000.0	0.0
03505	BETA, SUSPENDED	1500.0	0.0
09503	RADIUM 226, DISSOLVED	500.0	0.0
13501	STRONTIUM 90, TOTAL	500.0	0.0
22703	URANIUM, NATURAL, DISSOLVED	500.0	0.0
31501	COLIFORM, TOT,MEMBRANE FILTER,IMMED.M-ENDO MED, 35C	24000000.0	0.0
31502	COLIFORM, TOTAL, 10/ML	24000000.0	0.0
31503	COLIFORM, TOT,MEMBR FILTER, DELAYED,M-ENDO MED, 35C	24000000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
31504	COLIFORM, TOT,MEMBR FILTER,IMMED,LES ENDO AGAR, 35C	24000000.0	0.0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR,44.5C, 24HR	10000000.0	0.0
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	10000000.0	0.0
31616	FECAL COLIFORM, MEMBR FILTER,M-FC BROTH, 44.5C	10000000.0	0.0
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48HR	500000.0	0.0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	500000.0	0.0
31677	FECAL STREPTOCOCCI,MPN,AD-EVA, 35C (TUBE 31678)	500000.0	0.0
31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR,35C,48H	500000.0	0.0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	99999999.0	0.0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	99999999.0	0.0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	500.0	0.0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	750.0	0.0
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	1000.0	0.0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	200.0	0.0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	500.0	0.0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	200.0	0.0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	2.0	0.0
32221	CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID.	101.0	0.0
32230	CHLOROPHYLL A (MG/L)	0.5	0.0
32231	CHLOROPHYLL B (MG/L)	0.8	0.0
32232	CHLOROPHYLL C (MG/L)	0.2	0.0
32234	CHLOROPHYLL, TOTAL (A+B+C) (MG/L)	1.0	0.0
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	5.0	0.0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	1500.0	0.0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10.0	0.0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39340	GAMMA-BHC(LINDANE),WHOLE WATER, (UG/L)	20.0	0.0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER, (UG/L)	20.0	0.0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5.0	0.0
60050	ALGAE, TOTAL (CELLS/ML)	700000.0	0.0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	4000.0	0.0
70505	PHOSPHATE, TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10.0	0.0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10.0	0.0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	65.0	0.0
71886	PHOSPHORUS, TOTAL, AS PO4 - (MG/L)	30.0	0.0
71890	MERCURY, DISSOLVED (UG/L AS HG)	10.0	0.0
71895	MERCURY, SUSPENDED (UG/L AS HG)	10.0	0.0
71900	MERCURY, TOTAL (UG/L AS HG)	10.0	0.0
74010	IRON, TOTAL (MG/L AS FE)	56000.0	0.0

Appendix D

STORET Administrative Parameters

STORET Code	Description of STORET Administrative Parameters
00022	LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00073	SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
00116	INTENSIVE SURVEY IDENTIFICATION NUMBER
00145	TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY
01273	TOTAL ACID PRIORITY POLLUTANTS MG/L
01274	TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L
01275	TOTAL VOLATILE PRIORITY POLLUTANTS MG/L
01365	ANALYSIS DATE (DIOXIN) (YYMMDD)
04177	SAMPLE STABILIZATION, RECOVERY TEST CODE
04178	FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE
04179	SAMPLE STATION LOCKED CODE
04180	CONDITION OF STATION SITE CODE
04181	LABORATORY QA/QC PLAN CONFIDENCE CODE
04182	SAMPLE TYPE CODE
04183	SAMPLE REMARKS CODE
30333	BAG MESH SIZE, BEDLOAD SAMPLER, MM
34772	NPDES NUMBER, CROSS REFERENCE CODE
34785	GAGE TYPE, METHOD CODE

STORET Code	Description of STORET Administrative Parameters
45575	GC MAKE AND MODEL INFORMATION CODE
45576	GC DETECTOR TYPE CODE
45577	GC COLUMN TYPE CODE
45580	METHOD OF ANALYSIS CODE
45581	LABORATORY LOCATION CODE
46107	SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION)
46390	TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F
46396	PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO
46397	PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO
47001	PERMIT EXPIRATION DATE (JULIAN CALENDAR)
47044	OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE
47460	SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER
47477	COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE
70231	CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW)
71999	SAMPLE PURPOSE CODE
72032	NUMBER OF SPILLWAY GATES OPEN
73672	DATE OF ANALYSIS YYMMDD
73673	DATE OF EXTRACTION YYMMDD
74031	GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION
74032	GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT
74033	GRANT, FEDERAL, OTHER THAN PL 660 GRANT
74034	GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ
74035	GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ
74036	GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION
74037	GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES
74038	GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES
74039	PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY
74040	SURVEY NUMBER YYMMNO
74041	STORET STORAGE TRANSACTION DATE YR/MO/DAY

STORET Code	Description of STORET Administrative Parameters
74050	RADIOACTIVITY, GENERAL (PERMIT)
74051	ALGICIDES, GENERAL (PERMIT)
74052	CHLORINATED HYDROCARBONS, GENERAL (PERMIT)
74053	PESTICIDES, GENERAL (PERMIT)
74056	COLIFORM, TOTAL, GENERAL (PERMIT)
74065	STREAM FLOW CLASS
74066	ANNUAL RUNOFF
74067	SOIL CLASSIFICATION
74068	WATER QUALITY DESIGNATED USE CLASSIFICATION (IA)
74100	PRIMARY 1972 SIC CODE
74101	SECONDARY 1972 SIC CODE
74102	SECONDARY 1972 SIC CODE
74103	SECONDARY 1972 SIC CODE
74200	SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB.
74205	LAND RESOURCE AREA (IOWA)
74206	SOIL EROSION POTENTIAL (IOWA)
74209	WATER QUALITY INDEX - STATE OF ILLINOIS, EPA
74210	FOREST STREAM WATER QUALITY INDEX CALC. NUMBER
74990	FISH SPECIES NUMERIC CODE - F&W SERVICE
74995	ANATOMY CODE
75000	SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.)
81028	WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY)
82258	WATER CLASSIFICATION CODE (1-9) CODE
82292	DATA RELAY GROUND STATION SOURCE NODE CODE, CODE
82309	CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE
82310	DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES
82373	FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE
82519	DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE
82562	NARRATIVE REQUIREMENT EXCEEDANCES INTEGER

STORET Code	Description of STORET Administrative Parameters
82576	DAILY EXCURSION TIME, WATER MIN
82577	MONTHLY EXCURSION TIME, WATER TOTAL MIN
82578	DAY/MAXIMUM EXCURSION TIME, WATER MIN
82579	CODE NUMBER FOR PERSON COLLECTING SAMPLE
84002	CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE
84003	WATER SHED ID NUMBER (IOWA)
84005	FISH SPECIES CODE-FISH & WILDLIFE SER
84006	OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM
84010	PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM
84011	CONFIDENCE CODE FOR GLC CONFIRMATION CODE
84012	PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE
84013	SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS
84027	CODE NUMBER FOR AGENCY COLLECTING SAMPLE
84028	CODE NO FOR AGENCY ANALYZING SAMPLE
84029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD
84033	EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE
84034	EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB
84035	EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE
84036	EGD INDUSTRIAL CATEGORY NUMERIC CODE
84037	EGD INDUSTRIAL CATEGORY NAME ALPHA CODE
84038	EGD LABORATORY NUMERIC CODE
84039	EGD LABORATORY NAME ALPHA CODE
84040	EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84041	EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE
84042	EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE
84043	EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84044	EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE
84045	EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE
84046	EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE

STORET Code	Description of STORET Administrative Parameters
84047	EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE
84048	EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE
84049	EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE
84050	EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84051	EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84052	EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE
84053	SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE
84054	LITHOLOGY ALPHA-NUMERIC CODE
84055	AVAILABLE LOGS ALPHA-NUMERIC CODE
84056	WATER USE CATEGORY ALPHA-NUMERIC CODE
84057	INSPECTION TYPE ALPHA-NUMERIC CODE
84058	HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE
84059	WELL OWNERSHIP ALPHA-NUMERIC CODE
84060	TOPOGRAPHY ALPHA-NUMERIC CODE
84061	WELL USE ALPHA-NUMERIC CODE
84062	MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE
84063	DRILLING METHOD ALPHA-NUMERIC CODE
84064	WELL DATA AVAILABILITY ALPHA-NUMERIC CODE
84065	PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE
84067	NATURE OF MONITORING ALPHA-NUMERIC CODE
84073	REPLACES EXISTING WELL ALPHA-NUMERIC CODE
84074	AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE
84075	WELL PERMIT NUMBER ALPHA-NUMERIC CODE
84076	TSD MONITORING WELL TYPE ALPHA CODE
84077	TSD MONITORING WELL SAMPLING METHOD ALPHA CODE
84083	POLLUTION VERIFICATION ALPHA CODE
84084	WELL SAMPLE PURPOSE ALPHA CODE
84090	SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE
84091	INFILTRATION DATE/BEGINNING 'YYMMDD'

STORET Code	Description of STORET Administrative Parameters
84092	INFILTRATION DATE/ENDING 'YYMMDD'
84093	ENFORCEMENT FORM #2-C,DATA IDENTIFICATION CODE
84102	SAMPLE SPECIES-SUB ID ALPHA CODE
84103	DIOXIN LABORATORY ALPHA CODE
84104	DIOXIN STUDY ALPHA CODE
84112	SOURCE OF GEOHYDROLOGIC DATA CODE
84119	SOURCE OF EVACUATION DATA CODE
84121	REGULATING AGENCY CODE
84122	SAMPLE PURPOSE CODE
84126	SOURCE OF DEPTH DATA CODE
84127	METHOD OF DEPTH MEASUREMENT CODE
84128	SOURCE OF WATER-LEVEL DATA CODE
84129	DATA QUALITY
84141	LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE
84142	LAKE,RECREATIONAL SUITABILITY @ SMPL TIME,1-5, CODE
84164	SAMPLER TYPE, CODE
85300	PROBLEM CODE NES SURVEY
85327	WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES
85332	CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES
85553	WELL COMPLETION DATE (MONTH/YEAR)
85554	WELL WORKOVER DATE, LATEST (MONTH/YEAR)

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)
00006	DISTANCE FROM LOCATION IN X MILES
00007	DISTANCE FROM LOCATION IN Y MILES
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00041	WEATHER (WMO CODE 4501)
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL
00043	CLOUD TYPE (WMO CODE 0500)
00044	CLOUD AMOUNT (WMO CODE 2700)
00047	TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG)
00048	TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT)
00049	SURFACE AREA IN SQUARE MILES
00050	EVAPORATION, TOTAL (INCHES PER DAY)
00051	SURFACE AREA IN SQUARE FEET
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)
00098	SAMPLING STATION LOCATION, VERTICAL (METERS)
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
01300	OIL-GREASE (SEVERITY)
01305	DETERGENT SUDS (SEVERITY)
01310	GAS BUBBLES (SEVERITY)
01315	SLUDGE, FLOATING (SEVERITY)
01320	GARBAGE, FLOATING (SEVERITY)
01325	ALGAE, FLOATING MATS (SEVERITY)
01330	ODOR, ATMOSPHERIC (SEVERITY)
01331	TASTE (SEVERITY)
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)
01340	FISH, DEAD (SEVERITY)
01345	DEBRIS, FLOATING (SEVERITY)
01350	TURBIDITY (SEVERITY)
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)
03595	BIOASSAY (96 HR), EFFLUENT, TOTAL CODE
03596	BIOASSAY (48 HR), EFFLUENT, TOTAL CODE
03597	BIOASSAY (24 HR), EFFLUENT, TOTAL CODE
03598	TOXICITY, EFFLUENT, TOTAL CODE
03599	TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE
03600	TOXICITY, TROUT, EFFLUENT, TOTAL CODE
03601	TOXICITY, SAND DOLLAR, EFFLUENT CODE
03602	BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE
03603	SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE
03605	FLOW METER CALIBRATION, WATER CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
03717	ONCORHYNCHUS MYKISS, WATER CODE
04117	TETHER LINE USED FOR COLLECTING SAMPLE CODE
04160	HALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE
04161	HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE
04162	AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE
04163	AROMATIC, PURGEABLE, SCAN, SLUDGE CODE
04164	PHENOLIC, TOTAL, SCAN, EFFLUENT CODE
04165	PHENOLIC, TOTAL, SCAN, SLUDGE CODE
04166	PCB, TOTAL, SCAN, EFFLUENT CODE
04167	PCB, TOTAL, SCAN, SLUDGE CODE
04174	FREE LIQUIDS IN SEWAGE SLUDGE CODE
34765	AVIAN NUMERICAL SPECIES CODE (BIRDS)
34766	MAMMALIAN NUMERICAL SPECIES CODE
34771	MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE
34773	ODOR, AMBIENT WATER CODE
34774	FISH, INSTREAM, VISUAL SIGHTING CODE
34775	STREAMBANK CHANNEL ALTERATIONS CODE
34776	HYDRAULIC STRUCTURES, INSTREAM CODE
34780	LAND USE, ADJACENT STREAM CODE
34781	SAMPLE POINTS, # OF LONGTDNL TRANSECTS, REACH CODE
34782	STREAM STAGE TREND CODE
34789	HABITATS, TYPES SAMPLED CODE
45613	FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE
45614	SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE
45615	INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0,CODE
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)
46478	EQUIPMENT INSPECTION, VISUAL CODE
46486	TOXICITY,ACUTE 24HR(STATIC)CERIODAPHNIA (P/F) CODE
47454	FLOW METER REVOLUTIONS NUMBER

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
47455	LATITUDE, STARTING, OF A SAMPLE TOW DDMMSS
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS
47457	LATITUDE, FINISHING, OF A SAMPLE TOW DDMMSS
47458	LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS
47459	LENGTH FREQUENCY NUMBER
47461	TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES
47476	DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE
50044	HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE
61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE
61393	DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)
70222	WAVE HEIGHT (WMO CODE 1555)
70223	WAVE PERIOD (WMO CODE 3155)
71090	BIVALVE SPECIES CODE
71500	EQUITABILITY INDEX,BENTHIC MACROINVER CODE
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)
72001	DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM)
72002	DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT)
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES
72005	SAMPLE SOURCE CODE (BM WELL DATA)
72006	SAMPLING CONDITION CODE (BM WELL DATA)
72007	FORMATION NAME CODE (BM WELL DATA)
72017	SERIES CODE (BM WELL DATA)
72018	SYSTEM CODE (BM WELL DATA)
72111	DIRECT READOUT GROUND STATN TRANSMIT EROR CODE NUM
74054	FECAL STREPTOCOCCI, GENERAL (PERMIT)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
74055	FECAL COLIFORM, GENERAL (PERMIT)
80889	ACTIVATED SLUDGE PROCESS MODIFICATION CODE
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)
81637	SHELLFISH SPECIES NUMERIC CODE
82289	LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE
82398	SAMPLING METHOD (CODES)
82524	STORAGE COEFFICIENT NUMERICAL CODE
82923	ATMOSPHERIC DEPOSITION TYPE, WET CODE
83205	ATMOSPHERIC DEPOSITION TYPE, BULK CODE
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)
84001	AQUIFER NAME CODE (SEE USGS CATALOG)
84004	LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM
84007	ANATOMY ALPHA CODE
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE
84009	SHELLFISH SPECIES ALPHANUMERIC CODE
84014	SPECIES SEX CODE
84030	CLOUD AMOUNT ALPHA WEATHER CODES
84031	PHYSICAL WEATHER ALPHA WEATHER CODES
84032	STREAM CONDITION ALPHA WEATHER CODES
84066	OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE
84068	SERIES CODE ALPHA-NUMERIC CODE
84069	FORMATION CODE ALPHA-NUMERIC CODE
84070	METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE
84071	WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE
84072	WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE
84078	GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE
84079	BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE
84080	BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE
84081	YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84082	SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE
84085	ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE
84086	MACROINVERTEBRATE SPECIES NUMERIC CODE
84087	MACROINVERTEBRATE HABITAT CODE
84088	BIOLOGY 1 MACROINVERTEBRATE CODE
84089	BIOLOGY 2 MACROINVERTEBRATE CODE
84094	PHYTOPLANKTON SPECIES CODE, NUMERIC
84095	PHYTOPLANKTON SPECIES CODE, ALPHA
84096	SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE
84097	LAGOON MOUTH CONDITION CODE
84098	COLOR OF NON-PLANKTONIC ALGAE CODE
84099	WATER - RELATIVE WATER LEVEL CODE
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE
84101	METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE
84105	OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID)
84106	EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK)
84107	AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE
84108	DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE
84109	SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE
84110	POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE
84111	LITHOLOGIC MODIFIER CODE
84113	WELL INTAKE FINISH CODE
84114	WELL CASING MATERIAL CODE
84115	TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE
84116	DRILLING FLUID CODE
84117	TYPE OF SURFACE SEAL CODE
84118	METHOD OF DEVELOPMENT CODE
84120	PACKING MATERIAL CODE
84124	METHOD OF EVACUTAION CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84125	METHOD OF WATER-LEVEL MEASUREMENT CODE
84130	OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE
84134	PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE
84135	STREAMSIDE, (SHORELINE) COVER RATING CODE
84136	CANOPY TYPE CODE
84137	CHANNEL STABILITY RATING CODE (E,G,F,P) CODE
84138	COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE
84139	ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE
84140	KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE
84143	WELL, PURGING CONDITION CODE
84144	WELL, SELECTION CRITERIA CODE
84145	PROJECT COMPONENT CODE
84146	LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE
84147	LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE
84148	LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE
84149	LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE
84150	HABITAT QUALITY INDEX RATING CODE
84151	AQUATIC LIFE, USE CLASSES CODE
84152	STREAM, STAGE CLASS CODE
84153	STREAMBANKS, GRAZING DAMAGE CODE
84154	CHANNEL, MAJOR ALTERATIONS CODE
84155	RIFFLE/RUNS, OCCURRENCE CODE
84156	POOL, DESCRIPTION CODE
84157	SANDBARS, LARGE, OCCURRENCE CODE
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE
84159	STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84160	STREAM, DEGRADATION RATING CODE
84161	STREAM, ORDER CODE
84162	LAND RESOURCE AREA CODE
84163	FLOW, STREAM, CLASSIFICATION CODE
84165	DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE
84166	STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE
84167	MICROSCOPIC EXAMINATION CODE
84168	AVIAN SPECIES ALPHA CODE (BIRDS)
84169	MAMMALIAN ALPHA SPECIES CODE
84170	ALPHA AGE TEXT CODE
84200	LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE
84201	NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE
84202	ALTITUDE METHOD CODE
85000	STREAM MILE, ACTUAL MILES
85014	HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION
85015	HAB., ESTIMATED ACRES THIS TYPE THIS STATION
85016	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990
85017	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000
85018	TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVLP
85019	ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD)
85020	ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD)
85021	ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD)
85022	ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD)
85023	ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD)
85024	ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE
85025	LANDOWNERS, CODES FOR ALL IN STATE OF OREGON
85026	ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION
85027	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980
85028	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85029	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000
85030	LAND USES, CODES FOR ALL IN STATE OF OREGON
85031	ACRES, CURRENT DEDICATED TO THIS USE THIS STATION
85032	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980
85033	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990
85034	ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000 --STA.
85035	HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER
85036	HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING
85037	HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER
85038	HAB., INDICATED ANIMAL USES THIS TYPE IN FALL
85039	HAB., INDICATED ANML USES THIS TYPE FOR WINTERING
85040	HAB., INDICATED ANML USES THIS TYPE FOR FEEDING
85041	HAB., INDICATED ANML USES TYPE FOR REARING YOUNG
85042	HAB., INDICATED BIRD USES THIS TYPE FOR NESTING
85043	HAB., INDICATED ANML USES THIS TYPE FOR SHELTER
85044	HAB., INDICATED ANML USES THIS TYPE FOR REST AREA
85045	ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML
85046	HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO.
85050	ANIMALS ARE NOT PRESENT THIS STATION
85051	ANIMALS, ONLY A FEW ARE PRESENT THIS STATION
85052	ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION
85053	ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION
85070	OWNERSHIP (.1) AND ACCESS (.2) BY YEAR
85071	PRIVATE OWNERSHIP AND ACCESS MILEAGE
85072	FEDERAL OWNERSHIP AND ACCESS MILEAGE
85073	STATE OWNERSHIP AND ACCESS MILEAGE
85074	COUNTY OWNERSHIP AND ACCESS MILEAGE
85075	CITY OWNERSHIP AND ACCESS MILEAGE
85076	WATER YEAR DATA REFERS TO

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85077	CALENDAR YEAR DATA REFERS TO
85088	MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE
85089	MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER
85090	MAN-CAUSED CHANNEL CHANGE IN MILES
85091	STREAM BANK HABITAT DESTROYED IN MILES
85092	STREAMBED SILTED IN MILES
85093	TURBIDITY PROBLEM IN MILES
85094	SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM
85095	DURATION OF TURBIDITY PROBLEM IN MONTHS
85096	SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W
85097	NATURAL DRY CHANNEL IN MILES
85098	MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W
85099	MAN-CAUSED DRY CHANNEL IN MILES
85100	YEAR BARRIER IS PRESENT
85101	NUMBER OF NATURAL BARRIERS
85102	MILES BLOCKED BY NATURAL BARRIERS
85103	NUMBER OF NATURAL BARRIERS TO BE REMOVED
85104	NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS
85105	MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS
85106	NUMBER OF DAMS TO BE ALTERED
85107	MILES OF STREAM OCCUPIED BY IMPOUNDMENT
85108	LOWER END OF SECTION COVERED BY THIS FORM
85109	UPPER END OF SECTION COVERED BY THIS FORM
85110	LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85111	UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85112	STREAM SURVEY:1=COMPLETE 2=INCOMPLETE 3=NONE
85113	ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST
85114	ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE
85116	SQUARE YARDS OF SPAWNING AREA IN 1970

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85117	SQUARE YARDS OF SPAWNING AREA IN 1980
85118	SQUARE YARDS OF SPAWNING AREA IN 1990
85119	SQUARE YARDS OF SPAWNING AREA IN 2000
85120	MILES OF REARING AREA IN 1970
85121	MILES OF REARING AREA IN 1980
85122	MILES OF REARING AREA IN 1990
85123	MILES OF REARING AREA IN 2000
85124	CATCH BY SPORT ANGLING IN 1970
85125	RECREATION DAYS SPENT ANGLING IN 1970
85126	RECREATION DAYS SPENT ANGLING IN 1980
85127	RECREATION DAYS SPENT ANGLING IN 1990
85128	RECREATION DAYS SPENT ANGLING IN 2000
85129	CONTRIBUTION TO COMMERCIAL CATCH IN 1970
85130	PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970
85131	PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970
85132	PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970
85133	PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970
85134	PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970
85146	YEAR THIS FACTOR HAS A LIMITING EFFECT
85157	MAN DAYS OF WATER SKIING
85158	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85159	MAN DAYS OF BOATING OTHER THAN ANGLING
85160	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85161	MAN DAYS OF SWIMMING
85162	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85163	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT
85165	NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM
85167	NUMBER OF MONTHS PLANKTON IS A PROBLEM
85168	1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85169	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85170	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85171	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85172	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85173	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85174	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85175	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85176	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85177	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85178	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85179	YEAR THIS NUMBER OF FACILITIES PRESENT
85180	NUMBER OF BOAT RAMPS
85181	NUMBER OF MOORAGES
85182	NUMBER OF PICNIC AREAS
85183	NUMBER OF CAMP AREAS
85184	NUMBER OF RESORTS
85185	YEAR THIS ZONED AREA PRESENT
85186	ACRES SET ASIDE FOR OTHER BOATING
85187	ACRES SET ASIDE FOR WATER SKIING
85188	MILES OF SHORE LOST TO ACCESS BY HOME SITES
85189	TOTAL MILES OF SHORELINE
85193	WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES
85195	CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST
85333	PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES
85538	GAMMA SCAN DATE (YR,MO,DAY)
85539	DATE OF REPORT (YR,MO,DAY)
85658	TIME NIGHT CO2 HR
85661	TIME, INTERVAL DAY CO2 HR

Appendix F

National EPA Water Quality Criteria Summary[1]

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00070				50[t]	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50[t]	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250[s]			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0[u]	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0[u]	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0[#]	PH	SU	Physical
	00403				≤6.5, ≥9.0[#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0[#]	PH, FIELD	SU	Physical

[1]Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
471341	00409				<200[=]	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS	UEQ/L	General Inorganic
17778880	00613		1			NITRITE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00615		1			NITRITE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00618		10			NITRATE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00620		10			NITRATE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00628		10			NITRITE + NITRATE, SUSPENDED AS N	MG/L	Nitrogen
17778880	00630		10			NITRITE PLUS NITRATE, TOTAL 1 DET.	MG/L	Nitrogen
17778880	00631		10			NITRITE PLUS NITRATE, DISSOLVED 1 DET.	MG/L	Nitrogen
57125	00718	22	200	1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22	200	1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022	0.2	0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022	0.2	0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22	200	1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22	200	1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860	250[s]			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250[s]			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250[s]			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250[s]			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000			ASBESTOS, WHOLE SAMPLE	CNT/L	General Inorganic
16984488	00950		4.0			FLUORIDE, DISSOLVED AS F	MG/L	General Inorganic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16984488	00951		4.0			FLUORIDE, TOTAL AS F	MG/L	General Inorganic
7782414	00953		4000			FLUORINE, TOTAL	UG/L	General Inorganic
7440382	00978	360	50	69		ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	UG/L	Metal
7782492	00981	20	50	300		SELENIUM,TOTAL RECOVERABLE IN WATER AS SE	UG/L	Metal
7440280	00982	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE IN WATER AS TL	UG/L	Metal
7782492	00990	20	50	300		SELENITE, TOTAL RECOVERABLE INORGANIC	UG/L	Metal
7440382	00991	360	50	69		ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC	UG/L	Metal
7440382	00995	360	50	69		ARSENIC, INORGANIC DISS	UG/L	Metal
7440382	00996	360	50	69		ARSENIC, INORGANIC SUSP	UG/L	Metal
7440382	00997	360	50	69		ARSENIC, INORGANIC TOT	UG/L	Metal
7440417	00998	130*	4.0			BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE	UG/L	Metal
7440382	01000	360	50	69		ARSENIC, DISSOLVED	UG/L	Metal
7440382	01001	360	50	69		ARSENIC, SUSPENDED	UG/L	Metal
7440382	01002	360	50	69		ARSENIC, TOTAL	UG/L	Metal
7440393	01005		2000			BARIUM, DISSOLVED	UG/L	Metal
7440393	01006		2000			BARIUM, SUSPENDED	UG/L	Metal
7440393	01007		2000			BARIUM, TOTAL	UG/L	Metal
7440393	01009		2000			BARIUM,TOTAL RECOVERABLE IN WATER AS BA	UG/L	Metal
7440417	01010	130*	4.0			BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*	4.0			BERYLLIUM, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440417	01012	130*	4.0			BERYLLIUM, TOTAL	UG/L	Metal
7440439	01025	3.9+	5.0	43		CADMIUM, DISSOLVED	UG/L	Metal
7440439	01026	3.9+	5.0	43		CADMIUM, SUSPENDED	UG/L	Metal
7440439	01027	3.9+	5.0	43		CADMIUM, TOTAL	UG/L	Metal
7440473	01030		100			CHROMIUM, DISSOLVED	UG/L	Metal
7440473	01031		100			CHROMIUM, SUSPENDED	UG/L	Metal
7440473	01032	16	100	1100		CHROMIUM, HEXAVALENT	UG/L	Metal
16065831	01033	1700+	100	10300*		CHROMIUM, TRI-VAL	UG/L	Metal
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18+	1300a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18+	1300a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18+	1300a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82+	15a	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82+	15a	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82+	15a	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400*	2.0	2130*		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400*	2.0	2130*		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400*	2.0	2130*		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400+	100	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400+	100	75		NICKEL, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	01067	1400[+]	100	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400[+]	100	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1[+]	100[s]	0.12		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1[+]	100[s]	0.12		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1[+]	100[s]	0.12		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1[+]	100[s]	0.12		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018[+]	1.3[a]	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120[+]	5000[s]	95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120[+]	5000[s]	95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120[+]	5000[s]	95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120[+]	5000[s]	95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88[p]	6.0	1500[p]		ANTIMONY, DISSOLVED	UG/L	Metal
7440360	01096	88[p]	6.0	1500[p]		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88[p]	6.0	1500[p]		ANTIMONY, TOTAL	UG/L	Metal
7440439	01113	3.9[+]	5.0	43		CADMIUM,TOTAL RECOVERABLE IN WATER AS CD	UG/L	Metal
7439921	01114	82[+]	15[a]	220		LEAD, TOTAL RECOVERABLE IN WATER AS PB	UG/L	Metal
7440473	01118		100			CHROMIUM TOTAL RECOVERABLE IN WATER AS CR	UG/L	Metal
7440508	01119	18[+]	1300[a]	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400[*]	2.0	2130[*]		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400[*]	2.0	2130[*]		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	01145	20	50	300		SELENIUM, DISSOLVED	UG/L	Metal
7782492	01146	20	50	300		SELENIUM, SUSPENDED	UG/L	Metal
7782492	01147	20	50	300		SELENIUM, TOTAL	UG/L	Metal
7782492	01167	20	50	300		SELENIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
18540299	01220	16	100	1100		CHROMIUM, HEXAVALENT, DISSOLVED	UG/L	Metal
7440360	01268	88[p]	6.0	1500[p]		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22	200	1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120[+]	5.0[s]	0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041[+]	0.1[s]	0.00012		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018[+]	1.3[a]	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	0.1	1.1		CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7440382	01309	0.36	0.05	0.069		ARSENIC, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440393	01311		2.0			BARIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440417	01312	0.13[*]	0.004			BERYLLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440439	01313	0.0039[+]	0.005	0.043		CADMIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
16065831	01314	1.7[+]	0.1	10.3[*]		CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7439921	01318	0.082[+]	0.015[a]	0.220		LEAD, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7439976	01321	0.0024	0.002	0.0021		MERCURY, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440020	01322	1.4[+]	0.1	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440280	01324	1.4*	0.002	2.13*		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1+	100s	0.12		SILVER, IONIC	UG/L	Metal
50328	03648		0.2			BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE	UG/L	General Organic
122349	04035		4.0			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
10028178	04124		20r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000r			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000r			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000r			TRITIUM, SUSPENDED	PC/L	Radiological
	09501		5.0			RADIUM 226, TOTAL	PC/L	Radiological
	09503		5.0			RADIUM 226, DISSOLVED	PC/L	Radiological
	09505		5.0			RADIUM 226, SUSPENDED	PC/L	Radiological
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11501		5.0			RADIUM 228, TOTAL	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	PC/L	Radiological
10098972	13501		8.0r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0r			STRONTIUM 90, SUSPENDED	PC/L	Radiological
7782492	22675	20	50	300		SELENIUM, DISSOLVED ORGANIC	UG/L	Metal
7782492	22676	20	50	300		SELENIUM, HEXAVALENT, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	850*	50	2319*		ARSENIC, PENTAVALENT,DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20c			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20c			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20c			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020c			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20c			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200^	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200^	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200^	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200^	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200^	FECAL COLIFORM, MPN, EIJKMAN, 44.5C (TUBE 31618)	MPN/100ML	Bacteriological
	31625				200^	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648				126^	E. COLI, MTEC, MF	CFU/100ML	Bacteriological
	31649				33^	ENTEROCOCCI, ME, MF	CFU/100ML	Bacteriological
67663	32003	28900*	100[t]			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100[t]			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100[t]			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200*	5.0	50000*		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000*	5.0	113000*		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100[t]			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100[t]			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100[t]			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2*	0.005	50*		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9*	0.1[t]			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
1330207	34020		10000			XYLENES IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic
83329	34205	1700*		970*		ACENAPHTHENE, TOTAL	UG/L	General Organic
83329	34206	1700*		970*		ACENAPHTHENE, DISSOLVED	UG/L	General Organic
83329	34207	1700*		970*		ACENAPHTHENE, SUSPENDED	UG/L	General Organic
107028	34210	68*		55*		ACROLEIN, TOTAL	UG/L	Pesticide
107028	34211	68*		55*		ACROLEIN, DISSOLVED	UG/L	Pesticide
107028	34212	68*		55*		ACROLEIN, SUSPENDED	UG/L	Pesticide
107131	34215	7550*				ACRYLONITRILE, TOTAL	UG/L	General Organic
107131	34216	7550*				ACRYLONITRILE, DISSOLVED	UG/L	General Organic
107131	34217	7550*				ACRYLONITRILE, SUSPENDED	UG/L	General Organic
71432	34235	5300*	5.0	5100*		BENZENE, DISSOLVED	UG/L	General Organic
71432	34236	5300*	5.0	5100*		BENZENE, SUSPENDED	UG/L	General Organic
92875	34239	2500*				BENZIDINE, DISSOLVED	UG/L	General Organic
92875	34240	2500*				BENZIDINE, SUSPENDED	UG/L	General Organic
58899	34265	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, DISSOLVED	UG/L	Pesticide
58899	34266	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, SUSPENDED	UG/L	Pesticide
75252	34288		100[t]			BROMOFORM, DISSOLVED	UG/L	General Organic
75252	34289		100[t]			BROMOFORM, SUSPENDED	UG/L	General Organic
56235	34297	35200*	5.0	50000*		CARBON TETRACHLORIDE, DISSOLVED	UG/L	General Organic
56235	34298	35200*	5.0	50000*		CARBON TETRACHLORIDE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108907	34301		100			CHLOROBENZENE, TOTAL	UG/L	General Organic
108907	34302		100			CHLOROBENZENE, DISSOLVED	UG/L	General Organic
108907	34303		100			CHLOROBENZENE, SUSPENDED	UG/L	General Organic
124481	34306		100[t]			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100[t]			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100[t]			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900[*]	100[t]			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900[*]	100[t]			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100[t]			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100[t]			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270[*]				1,2-DIPHENYLHYDRAZINE, TOTAL	UG/L	General Organic
122667	34347	270[*]				1,2-DIPHENYLHYDRAZINE, DISSOLVED	UG/L	General Organic
122667	34348	270[*]				1,2-DIPHENYLHYDRAZINE, SUSPENDED	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA, TOTAL	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA, DISSOLVED	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA, SUSPENDED	UG/L	Pesticide
959988	34361	0.22		0.034		ENDOSULFAN, ALPHA, TOTAL	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA, DISSOLVED	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
100414	34371	32000*	700	430*		ETHYLBENZENE, TOTAL	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE, DISSOLVED	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE, SUSPENDED	UG/L	General Organic
206440	34376	3980*		40*		FLUORANTHENE, TOTAL	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE, DISSOLVED	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE, SUSPENDED	UG/L	General Organic
77474	34386	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic
77474	34387	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34388	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE, TOTAL	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE, DISSOLVED	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE, SUSPENDED	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE, TOTAL	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE, DISSOLVED	UG/L	General Organic
67721	34398	980*		940*		HEXACHLOROETHANE, SUSPENDED	UG/L	General Organic
118741	34401	6.0[p]	1.0			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34402	6.0[p]	1.0			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
193395	34403		0.40[c]			INDENO (1,2,3-CD) PYRENE, TOTAL	UG/L	General Organic
193395	34404		0.40[c]			INDENO (1,2,3-CD) PYRENE, DISSOLVED	UG/L	General Organic
193395	34405		0.40[c]			INDENO (1,2,3-CD) PYRENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
78591	34408	117000*		12900*		ISOPHORONE, TOTAL	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE, DISSOLVED	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE, SUSPENDED	UG/L	Pesticide
75092	34423		5.0			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic
91203	34443	2300*		2350*		NAPHTHALENE, DISSOLVED	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE, SUSPENDED	UG/L	General Organic
98953	34447	27000*		6680*		NITROBENZENE, TOTAL	UG/L	General Organic
98953	34448	27000*		6680*		NITROBENZENE, DISSOLVED	UG/L	General Organic
98953	34449	27000*		6680*		NITROBENZENE, SUSPENDED	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL, TOTAL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL, DISSOLVED	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL, SUSPENDED	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL), DISSOLVED	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL), SUSPENDED	UG/L	Pesticide
85018	34461	30p		7.7p		PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30p		7.7p		PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30p		7.7p		PHENANTHRENE, SUSPENDED	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL, DISSOLVED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108952	34467	10200*		5800*		PHENOL, SUSPENDED	UG/L	General Organic
127184	34475	5280*	5.0	10200*		TETRACHLOROETHYLENE, TOTAL	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE, DISSOLVED	UG/L	General Organic
127184	34477	5280*	5.0	10200*		TETRACHLOROETHYLENE, SUSPENDED	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE, DISSOLVED	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE, SUSPENDED	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE, DISSOLVED	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE, SUSPENDED	UG/L	General Organic
75354	34501		7.0			1,1-DICHLOROETHYLENE, TOTAL	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE, TOTAL	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79005	34511		5.0			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79345	34516			9020*		1,1,2,2-TETRACHLOROETHANE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
79345	34517			9020*		1,1,2,2-TETRACHLOROETHANE, DISSOLVED	UG/L	General Organic
79345	34518			9020*		1,1,2,2-TETRACHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE, TOTAL	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE, DISSOLVED	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE, SUSPENDED	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE, TOTAL	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE, TOTAL	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE, DISSOLVED	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE, SUSPENDED	UG/L	General Organic
156605	34546		100			TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	General Organic
156605	34547		100			TRANS-1,2-DICHLOROETHENE, DISSOLVED	UG/L	General Organic
156605	34548		100			TRANS-1,2-DICHLOROETHENE, SUSPENDED	UG/L	General Organic
120821	34551		70			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		70			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		70			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic
541731	34566		600			1,3-DICHLOROBENZENE, TOTAL	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
106467	34571		75			1,4-DICHLOROBENZENE, TOTAL	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL, TOTAL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL, DISSOLVED	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL, SUSPENDED	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL, TOTAL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL, DISSOLVED	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL, SUSPENDED	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL, TOTAL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL, DISSOLVED	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL, SUSPENDED	UG/L	General Organic
121142	34611	330*		590*		2,4-DINITROTOLUENE, TOTAL	UG/L	General Organic
121142	34612	330*		590*		2,4-DINITROTOLUENE, DISSOLVED	UG/L	General Organic
121142	34613	330*		590*		2,4-DINITROTOLUENE, SUSPENDED	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD, DISSOLVED	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD, SUSPENDED	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE, DISSOLVED	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE, SUSPENDED	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
50293	34656	1.1		0.13		P,P'-DDT, SUSPENDED	UG/L	Pesticide
1746016	34675	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT	UG/L	General Organic
1746016	34676	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS	UG/L	General Organic
1746016	34677	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE, TOTAL	UG/L	General Organic
75990	38432		200			DALAPON, WATER, TOTAL	UG/L	Pesticide
75990	38433		200			DALAPON, WATER, DISSOLVED	UG/L	Pesticide
75990	38434		200			DALAPON, WATER, SUSPENDED	UG/L	Pesticide
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER, DISSOLVED	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER, SUSPENDED	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER, TOTAL	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER, DISSOLVED	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER, SUSPENDED	UG/L	Pesticide
88857	38779		7.0			DINOSEB, DISSOLVED	UG/L	Pesticide
88857	38780		7.0			DINOSEB, SUSPENDED	UG/L	Pesticide
23135220	38865		200			OXAMYL, TOTAL	UG/L	Pesticide
23135220	38866		200			OXAMYL, DISSOLVED	UG/L	Pesticide
23135220	38867		200			OXAMYL, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURSBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0[p]	1.0			HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT	UG/L	Pesticide
93721	39045		50			2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE	UG/L	Pesticide
116063	39053		3.0			ALDICARB IN WHOLE WATER	UG/L	Pesticide
122349	39055		4.0			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.94*		2.994*		PHTHLATE ESTERS IN WATER	MG/L	General Organic
75014	39175		2.0			VINYL CHLORIDE-WHOLE WATER SAMPLE	UG/L	General Organic
79016	39180	45000*	5.0	2000*		TRICHLOROETHYLENE-WHOLE WATER SAMPLE	UG/L	General Organic
50293	39300	1.1		0.13		P,P' DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
72548	39310	0.6*		3.6*		P,P' DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39320	1050*		14*		P,P' DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39330	3.0		1.3		ALDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39331	3.0		1.3		ALDRIN IN FILT. FRAC. OF WAT. SAMP.	UG/L	Pesticide
309002	39332	3.0		1.3		ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	UG/L	Pesticide
58899	39340	2.0	0.2	0.16		GAMMA-BHC(LINDANE), WHOLE WATER	UG/L	Pesticide
58899	39341	2.0	0.2	0.16		GAMMA-BHC(LINDANE), DISSOLVED	UG/L	Pesticide
58899	39342	2.0	0.2	0.16		GAMMA-BHC(LINDANE), SUSPENDED	UG/L	Pesticide
57749	39350	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), WHOLE WATER	UG/L	Pesticide
57749	39352	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), DISSOLVED	UG/L	Pesticide
57749	39353	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), SUSPENDED	UG/L	Pesticide
72548	39360	0.6*		3.6*		DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72548	39361	0.6*		3.6*		DDD IN FILT. FRAC. OF WATER SMAPLE	UG/L	Pesticide
72548	39362	0.6*		3.6*		DDD IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39365	1050*		14*		DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39366	1050*		14*		DDE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39367	1050*		14*		DDE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39370	1.1		0.13		DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide
50293	39371	1.1		0.13		DDT IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39372	1.1		0.13		DDT IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
60571	39380	2.5		0.71		DIELDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
60571	39381	2.5		0.71		DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
60571	39382	2.5		0.71		DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
115297	39388	0.22		0.034		ENDOSULFAN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39390	0.18	2.0	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	2.0	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	2.0	0.037		ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39400	0.73	3.0	0.21		TOXAPHENE IN WHOLE WATER SAMPLE	UG/L	Pesticide
8001352	39401	0.73	3.0	0.21		TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39402	0.73	3.0	0.21		TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39410	0.52	0.4	0.053		HEPTACHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	39411	0.52	0.4	0.053		HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39412	0.52	0.4	0.053		HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1024573	39420	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1024573	39421	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE	UG/L	Pesticide
1024573	39422	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE	UG/L	Pesticide
72435	39478		40			METHOXYCHLOR IN WHOLE WATER DISSOLVED	UG/L	Pesticide
72435	39479		40			METHOXYCHLOR IN WHOLE WATER SUSPENDED	UG/L	Pesticide
72435	39480		40			METHOXYCHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
56382	39540	0.065				PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
56382	39542	0.065				PARATHION IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
56382	39543	0.065				PARATHION IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1912249	39630		3.0			ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39632		3.0			ATRAZINE DISSOLVED IN WATER	PPB	Pesticide
118741	39700	6.0[p]	1.0			HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
87683	39702	90[*]		32[*]		HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE	UG/L	General Organic
1918021	39720		500			PICLORAM IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39730		70			2,4-D IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39732		70			2,4-D IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
94757	39733		70			2,4-D IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39760		50			SILVEX IN WHOLE WATER SAMPLE	UG/L	Pesticide
93721	39762		50			SILVEX IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39763		50			SILVEX IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
58899	39782	2.0	0.2	0.16		LINDANE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1071836	39941		700			ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE)	UG/L	Pesticide
7782505	45650	0.019		0.013		CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE	MG/L	General Inorganic
56382	46315	0.065				ETHYL PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
58899	46322	2.0	0.2	0.16		LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	46326	0.52	0.4	0.053		HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE	UG/L	Pesticide
15972608	46342		2.0			ALACHLOR (LASSO), WATER, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9[+]	5.0	43		CADMIUM,FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18[+]	1300[a]	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82[+]	15[a]	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1[+]	100[s]	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120[+]	5000[s]	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3,LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWNS AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
	61215				200[^]	FECAL COLIFORM, GENERAL #/100ML	#/100ML	Bacteriological
16887006	70352	860	250[s]			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY,TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9[+]	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82[+]	15[a]	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120[+]	5000[s]	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18[+]	1300[a]	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700[*]		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100[p]		240[p]		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440[*]		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20c			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18+	1300a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400[+]	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120[+]	5000[s]	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000[*]				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120[+]	5000[s]	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82[+]	15[a]	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9[+]	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50[l]	TURBIDITY, FIELD	NTU	Physical
	82079				50[l]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000[s]			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide

Footnote Key:

[*]Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

[+]Hardness Dependent Criteria (100 mg/L $CaCO_3$ Used).

[***]pH Dependent Criteria (7.8 pH Used).

[=]Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

[^]Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

[#]EPA freshwater aquatic life chronic criterion; marine criterion is ≤6.5, ≥8.5.

[!]Arizona state standard.

[a]EPA action level, 40 CFR 141.80.

[b]California and Florida state bathing water standards.

[c]A Compilation of Water Quality Goals, California Regional Water Quality Control Board Central Valley Region, Sacramento, California, September, 1991.

[n]Total coliform drinking water maximum contaminant level (1 cfu/100ml or 1 mpn/100ml) was not used in water quality criteria comparisons.

[p]Proposed Criterion.

[r]Average annual concentration assumed to produce a total body or organ dose of 4 mrem/year, 40 CFR 141.16.

[s]EPA National Secondary Drinking Water Regulation, 40 CFR 143.

[t]The maximum contaminant level for the sum of the concentrations of trihalomethanes is 100 µg/L, 40 CFR 141.12.

[u]Coldwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA)
Servicewide Inventory and Monitoring Program "Level I"
Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	**Flow Parameter Group[1]**	**C.A.S. Number**
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-

[1]Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-
STORET Code	**Conductivity Parameter Group**	**C.A.S. Number**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-
STORET Code	**Dissolved Oxygen Parameter Group**	**C.A.S. Number**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447
STORET Code	**pH Parameter Group**	**C.A.S. Number**
00400	PH (STANDARD UNITS)	-
00403	PH, LAB (STANDARD UNITS)	-
00406	PH, FIELD (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (µEQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	3812326

STORET Code	Nitrate/Nitrogen Parameter Group	C.A.S. Number
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	14797650

STORET Code	Phosphate/Phosphorus Parameter Group	C.A.S. Number
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
00655	PHOSPHATE, POLY (MG/L AS PO4)	14265442
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
00665	PHOSPHORUS, TOTAL (MG/L AS P)	7723140
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
00670	PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140

STORET Code	Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
00900	HARDNESS, TOTAL (MG/L AS CACO3)	471341
00945	SULFATE, TOTAL (MG/L AS SO4)	14808798
00946	SULFATE, DISSOLVED (MG/L AS SO4)	14808798
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-

STORET Code	Chlorophyll Parameter Group	C.A.S. Number
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
32223	CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
32229	CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
32230	CHLOROPHYLL A (MG/L)	479618

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM,TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYLVINYL ETHER,WATER,WHL,RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE,ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HN03-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROGUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

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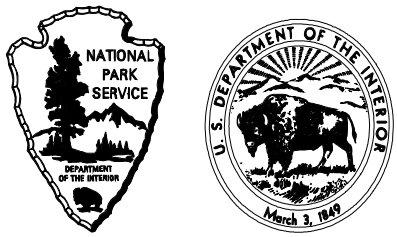
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